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1.1 libjpeg 6b

1.1.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.1.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION

ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal
documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not

exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic
coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

REFERENCES

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We

highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg/). This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only <ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the <ftp.uu.net> release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of

general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,

notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>.

Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.

(For example, none of the early commercial JPEG implementations for the Macintosh were able to

exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether

SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.2 iptables 1.4.12

1.2.1 Available under license :

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Version 2, June 1991

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1.3 xinetd 2.3.15

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1.4 json-simple 1.1.1

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```
Gnomovision version 69, Copyright (C) year name of author
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```

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.6 slf4j 1.6.0

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```
src/cg/cst_mjpg.h
src/cg/cst_mjpg.c
src/cg/cst_mlsa.h
src/cg/cst_mlsa.c
src/cg/cst_vc.h
src/cg/cst_vc.c
/*****/
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```

src/audio/au_wince.c
src/utls/cst_file_stdio.c
src/utls/cst_mmap_posix.c
src/utls/cst_mmap_win32.c
src/utls/cst_mmap_none.c
src/utls/cst_file_wince.c
sapi/

```

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doc/alice

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src/regex/regexp.c
src/regex/regsub.c

```

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lang/usenglish/us_durz_cart.c

lang/usenglish/us_durz_cart.h

lang/usenglish/us_int_accent_cart.c

lang/usenglish/us_int_accent_cart.h

lang/usenglish/us_int_tone_cart.c

lang/usenglish/us_int_tone_cart.h

lang/usenglish/us_phoneset.c

lang/usenglish/us_f0lr.c

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configure.sub

config.guess

missing

install-sh

mkinstalldirs

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```
src/speech/g72x.h
src/speech/g721.c
src/speech/g72x.c
src/speech/g723_24.c
src/speech/g723_40.c
```

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lang/cmu_grapheme_lex/grapheme_unitran_tables.c
```

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```

```
/* Original table developed by Richard Sproat and Kyoung-young Kim */
```

```
/* Ported for Festvox by Gopala Anumachipalli gopalakr@cs.cmu.edu Sep 2012 */
```

```
/* Then converted to C for CMU Flite (cmuflite.org) */
```

1.8 fontconfig 2.12.6

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1.9 autogen 5.18.5

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@c ispell-local-pdict: "ispell-dict"
@c End:
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```
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1.10 protobuf 3.7.1

1.11 slf4j 1.6.0

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1.12 opus 1.3.1

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1.13 boost 1.73.0

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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

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////

```
[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:
```

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple` by including `<boost/mp11/mpl_tuple.hpp>`. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for `std::tuple`, which conflicts with Mp11's one.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head></head>
```

```
<body>
  <h3>
    Copyright Test
  </h3>
  <p class="copyright">
    1963, 1964, 1965 Jane Doe
  </p>
  <p class="copyright">
    2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
    1977, 1985 Someone else
  </p>
</body>
</html>
```

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
```

=====
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1.14 json-c 0.15

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1.15 libjpeg 9d

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=====
README for release 9c of 14-Jan-2018
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DOCUMENTATION ROADMAP

=====

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty,
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REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt
Road map of IJG files.
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or

more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

=====

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software

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The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in

that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general.

The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still

Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2

(Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsrc.v9c.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9c.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
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ACKNOWLEDGMENTS

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Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

Furthermore,

the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically

incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

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A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

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Version 9 is the second release of a new generation JPEG standard

to overcome the limitations of the original JPEG specification,
and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.
No license file was found, but licenses were detected in source scan.

```
/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */
```

Found in path(s):

```
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdct.h
```

1.16 kmod 28

1.16.1 Available under license :

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Version 2.1, February 1999

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1.22 gsoap 2.6

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1.26 mtd-utils 1.5.0

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1.27 jansson 2.14

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1.28 libatomic 1.2.0

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1.29 libsrtp 2.5.0

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1.30 libusb 0.1.0

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1.32 qt 5.15.8

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libunwind - a platform-independent unwind library

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`org.eclipse.jgit:org.eclipse.jgit`

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`com.jcraft:jsch`

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TypeScript ESLint Parser

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3.1.0 / 2017-09-26

=====

- * Add `DEBUG_HIDE_DATE` env var (#486)
- * Remove ReDoS regexp in %o formatter (#504)
- * Remove "component" from package.json
- * Remove `component.json`
- * Ignore package-lock.json
- * Examples: fix colors printout
- * Fix: browser detection
- * Fix: spelling mistake (#496, @EdwardBetts)

3.0.1 / 2017-08-24

=====

- * Fix: Disable colors in Edge and Internet Explorer (#489)

3.0.0 / 2017-08-08

=====

- * Breaking: Remove DEBUG_FD (#406)
- * Breaking: Use `Date#toISOString()` instead to `Date#toUTCString()` when output is not a TTY (#418)
- * Breaking: Make millisecond timer namespace specific and allow 'always enabled' output (#408)
- * Addition: document `enabled` flag (#465)
- * Addition: add 256 colors mode (#481)
- * Addition: `enabled()` updates existing debug instances, add `destroy()` function (#440)
- * Update: component: update "ms" to v2.0.0
- * Update: separate the Node and Browser tests in Travis-CI
- * Update:
refactor README, fixed documentation, added "Namespace Colors" section, redid screenshots
- * Update: separate Node.js and web browser examples for organization
- * Update: update "browserify" to v14.4.0
- * Fix: fix README typo (#473)

2.6.9 / 2017-09-22

=====

- * remove ReDoS regexp in %o formatter (#504)

2.6.8 / 2017-05-18

=====

- * Fix: Check for undefined on browser globals (#462, @marbemac)

2.6.7 / 2017-05-16

=====

- * Fix: Update ms to 2.0.0 to fix regular expression denial of service vulnerability (#458, @hubdotcom)
- * Fix: Inline extend function in node implementation (#452, @dougwilson)
- * Docs: Fix typo (#455, @msasad)

2.6.5 / 2017-04-27

=====

- * Fix: null reference check on window.documentElement.style.WebkitAppearance (#447, @thebigredgeek)
- * Misc: clean up browser reference checks (#447, @thebigredgeek)
- * Misc: add npm-debug.log to .gitignore (@thebigredgeek)

2.6.4 / 2017-04-20

=====

- * Fix: bug that would occur if process.env.DEBUG is a non-string value. (#444, @LucianBuzzo)
- * Chore: ignore bower.json in npm installations. (#437, @joaovieira)
- * Misc: update "ms" to v0.7.3 (@tootallnate)

2.6.3 / 2017-03-13

=====

- * Fix: Electron reference to `process.env.DEBUG` (#431, @paulcbetts)
- * Docs: Changelog fix (@thebigredgeek)

2.6.2 / 2017-03-10

=====

- * Fix: DEBUG_MAX_ARRAY_LENGTH (#420, @slavaGanzin)
- * Docs: Add backers and sponsors from Open Collective (#422, @piamancini)
- * Docs: Add Slackin invite badge (@tootallnate)

2.6.1 / 2017-02-10

=====

- * Fix: Module's `export default` syntax fix for IE8 `Expected identifier` error

- * Fix: Whitelist DEBUG_FD for values 1 and 2 only (#415, @pi0)
- * Fix: IE8 "Expected identifier" error (#414, @vgoma)
- * Fix: Namespaces would not disable once enabled (#409, @musikov)

2.6.0 / 2016-12-28

=====

- * Fix: added better null pointer checks for browser useColors (@thebigredgeek)
- * Improvement: removed explicit `window.debug` export (#404, @tootallnate)
- * Improvement: deprecated `DEBUG_FD` environment variable (#405, @tootallnate)

2.5.2 / 2016-12-25

=====

- * Fix: reference error on window within webworkers (#393, @KlausTrainer)
- * Docs: fixed README typo (#391, @lurch)
- * Docs: added notice about v3 api discussion (@thebigredgeek)

2.5.1 / 2016-12-20

=====

- * Fix: babel-core compatibility

2.5.0 / 2016-12-20

=====

- * Fix: wrong reference in bower file (@thebigredgeek)
- * Fix: webworker compatibility (@thebigredgeek)
- * Fix: output formatting issue (#388, @kribblo)
- * Fix: babel-loader compatibility (#383, @escwald)
- * Misc: removed built asset from repo and publications (@thebigredgeek)
- * Misc: moved source files to /src (#378, @yamikuronue)
- * Test: added karma integration and replaced babel with browserify for browser tests (#378, @yamikuronue)
- * Test: coveralls integration (#378, @yamikuronue)
- * Docs: simplified language in the opening paragraph (#373, @yamikuronue)

2.4.5 / 2016-12-17

=====

- * Fix: `navigator` undefined in Rhino (#376, @jochenberger)
- * Fix: custom log function (#379, @hsiliev)
- * Improvement: bit of cleanup + linting fixes (@thebigredgeek)
- * Improvement: rm non-maintained `dist` dir (#375, @freewil)
- * Docs: simplified language in the opening paragraph. (#373, @yamikuronue)

2.4.4 / 2016-12-14

=====

* Fix: work around debug being loaded in preload scripts for electron (#368, @paulcbetts)

2.4.3 / 2016-12-14

=====

* Fix: navigation.userAgent error for react native (#364, @escwald)

2.4.2 / 2016-12-14

=====

* Fix: browser colors (#367, @tootallnate)

* Misc: travis ci integration (@thebigredgeek)

* Misc: added linting and testing boilerplate with sanity check (@thebigredgeek)

2.4.1 / 2016-12-13

=====

* Fix: typo that broke the package (#356)

2.4.0 / 2016-12-13

=====

* Fix: bower.json references unbuilt src entry point (#342, @justmatt)

* Fix: revert "handle regex special characters" (@tootallnate)

* Feature: configurable util.inspect() options for NodeJS (#327, @tootallnate)

* Feature: %O (big O) pretty-prints objects (#322, @tootallnate)

* Improvement: allow colors in workers (#335, @botverse)

* Improvement: use same color for same namespace. (#338, @lchenay)

2.3.3 / 2016-11-09

=====

* Fix: Catch `JSON.stringify()` errors (#195, Jovan Alleyne)

* Fix: Returning `localStorage` saved values (#331, Levi Thomason)

* Improvement: Don't create an empty object when no `process` (Nathan Rajlich)

2.3.2 / 2016-11-09

=====

* Fix: be super-safe in index.js as well (@TooTallNate)

* Fix: should check whether process exists (Tom Newby)

2.3.1 / 2016-11-09

=====

* Fix: Added electron compatibility (#324, @paulcbetts)

- * Improvement: Added performance optimizations (@tootallnate)
- * README: Corrected PowerShell environment variable example (#252, @gimre)
- * Misc: Removed yarn lock file from source control (#321, @fengmk2)

2.3.0 / 2016-11-07

=====

- * Fix: Consistent placement of ms diff at end of output (#215, @gorangajic)
- * Fix: Escaping of regex special characters in namespace strings (#250, @zacronos)
- * Fix: Fixed bug causing crash on react-native (#282, @vkarпов15)
- * Feature: Enabled ES6+ compatible import via default export (#212 @bucaran)
- * Feature: Added %O formatter to reflect Chrome's console.log capability (#279, @oncleTom)
- * Package: Update "ms" to 0.7.2 (#315, @DevSide)
- * Package: removed superfluous version property from bower.json (#207 @kkirsche)
- * README: fix USE_COLORS to DEBUG_COLORS
- * README: Doc fixes for format string sugar (#269, @mlucol)
- * README: Updated docs for DEBUG_FD and DEBUG_COLORS environment variables (#232, @mattlyons0)
- * README: doc fixes for PowerShell (#271 #243, @exoticknight @unreadable)
- * README: better docs for browser support (#224, @matthewmueller)
- * Tooling: Added yarn integration for development (#317, @thebigredgeek)
- * Misc: Renamed History.md to CHANGELOG.md (@thebigredgeek)
- * Misc: Added license file (#226 #274, @CantemoInternal @sdaitzman)
- * Misc: Updated contributors (@thebigredgeek)

2.2.0 / 2015-05-09

=====

- * package: update "ms" to v0.7.1 (#202, @dougwilson)
- * README: add logging to file example (#193, @DanielOchoa)
- * README: fixed a typo (#191, @amir-s)
- * browser: expose `storage` (#190, @stephenmathieson)
- * Makefile: add a `distclean` target (#189, @stephenmathieson)

2.1.3 / 2015-03-13

=====

- * Updated stdout/stderr example (#186)
- * Updated example/stdout.js to match debug current behaviour
- * Renamed example/stderr.js to stdout.js
- * Update README.md (#184)
- * replace high intensity foreground color for bold (#182, #183)

2.1.2 / 2015-03-01

=====

- * dist: recompile
- *

- update "ms" to v0.7.0
- * package: update "browserify" to v9.0.3
- * component: fix "ms.js" repo location
- * changed bower package name
- * updated documentation about using debug in a browser
- * fix: security error on safari (#167, #168, @yields)

2.1.1 / 2014-12-29

=====

- * browser: use `typeof` to check for `console` existence
- * browser: check for `console.log` truthiness (fix IE 8/9)
- * browser: add support for Chrome apps
- * Readme: added Windows usage remarks
- * Add `bower.json` to properly support bower install

2.1.0 / 2014-10-15

=====

- * node: implement `DEBUG_FD` env variable support
- * package: update "browserify" to v6.1.0
- * package: add "license" field to package.json (#135, @panuhorsmalhti)

2.0.0 / 2014-09-01

=====

- * package: update "browserify" to v5.11.0
- * node: use stderr rather than stdout for logging (#29, @stephenmathieson)

1.0.4 / 2014-07-15

=====

- * dist: recompile
- * example: remove `console.info()`
log usage
- * example: add "Content-Type" UTF-8 header to browser example
- * browser: place %c marker after the space character
- * browser: reset the "content" color via `color: inherit`
- * browser: add colors support for Firefox >= v31
- * debug: prefer an instance `log()` function over the global one (#119)
- * Readme: update documentation about styled console logs for FF v31 (#116, @wryk)

1.0.3 / 2014-07-09

=====

- * Add support for multiple wildcards in namespaces (#122, @seegno)
- * browser: fix lint

1.0.2 / 2014-06-10

=====

- * browser: update color palette (#113, @gscottolson)
- * common: make console logging function configurable (#108, @timoxley)
- * node: fix %o colors on old node <= 0.8.x
- * Makefile: find node path using shell/which (#109, @timoxley)

1.0.1 / 2014-06-06

=====

- * browser: use `removeItem()` to clear localStorage
- * browser, node: don't set DEBUG if namespaces is undefined (#107, @leedm777)
- * package:
 - add "contributors" section
- * node: fix comment typo
- * README: list authors

1.0.0 / 2014-06-04

=====

- * make ms diff be global, not be scope
- * debug: ignore empty strings in enable()
- * node: make DEBUG_COLORS able to disable coloring
- * *: export the `colors` array
- * npmnignore: don't publish the `dist` dir
- * Makefile: refactor to use browserify
- * package: add "browserify" as a dev dependency
- * Readme: add Web Inspector Colors section
- * node: reset terminal color for the debug content
- * node: map "%o" to `util.inspect()`
- * browser: map "%j" to `JSON.stringify()`
- * debug: add custom "formatters"
- * debug: use "ms" module for humanizing the diff
- * Readme: add "bash" syntax highlighting
- * browser: add Firebug color support
- * browser: add colors for WebKit browsers
- * node: apply log to `console`
- * rewrite: abstract common logic for Node & browsers
- * add .jshintrc file

0.8.1 / 2014-04-14

=====

- * package: re-add the "component" section

0.8.0 / 2014-03-30

=====

- * add `enable()` method for nodejs. Closes #27
- * change from stderr to stdout
- * remove unnecessary index.js file

0.7.4 / 2013-11-13

=====

- * remove "browserify" key from package.json (fixes something in browserify)

0.7.3 / 2013-10-30

=====

- * fix: catch localStorage security error when cookies are blocked (Chrome)
- * add debug(err) support. Closes #46
- * add .browser prop to package.json. Closes #42

0.7.2 / 2013-02-06

=====

- * fix package.json
- * fix: Mobile Safari (private mode) is broken with debug
- * fix: Use unicode to send escape character to shell instead of octal to work with strict mode javascript

0.7.1 / 2013-02-05

=====

- * add repository URL to package.json
- * add DEBUG_COLORED to force colored output
- * add browserify support
- * fix component. Closes #24

0.7.0 / 2012-05-04

=====

- * Added .component to package.json
- * Added
debug.component.js build

0.6.0 / 2012-03-16

=====

- * Added support for "-" prefix in DEBUG [Vinay Pulim]
- * Added `.enabled` flag to the node version [TooTallNate]

0.5.0 / 2012-02-02

=====

- * Added: humanize diffs. Closes #8
- * Added ``debug.disable()`` to the CS variant
- * Removed padding. Closes #10
- * Fixed: persist client-side variant again. Closes #9

0.4.0 / 2012-02-01

=====

- * Added browser variant support for older browsers [TooTallNate]
- * Added ``debug.enable('project:*')`` to browser variant [TooTallNate]
- * Added padding to diff (moved it to the right)

0.3.0 / 2012-01-26

=====

- * Added millisecond diff when isatty, otherwise UTC string

0.2.0 / 2012-01-22

=====

- * Added wildcard support

0.1.0 / 2011-12-02

=====

- * Added: remove colors unless stderr isatty [TooTallNate]

0.0.1 / 2010-01-03

=====

- * Initial release

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Version : 6.4.0

Date : 2 July 2015

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```
#####  
# License headers for subpackages  
#####
```

Transformation Matrix v2.0

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#####

BezierEasing - use bezier curve for transition easing function
by Gatan Renaudeau 2014 - 2015 MIT License

Credits: is based on Firefox's nsSMILKeySpline.cpp

Usage:

```
var spline = BezierEasing([ 0.25, 0.1, 0.25, 1.0 ])
```

```
spline.get(x) => returns the easing value | x must be in [0, 1] range
```

```
/**
```

```
/** Base64 - a simple base64 encoder and decoder.
```

```
/**
```

```
/** Copyright (c) 1999, Bob Withers - bwit@pobox.com
```

```
/**
```

```
/** This code may be freely used for any purpose, either personal
```

```
/** or commercial, provided the authors copyright notice remains
```

```
/** intact.
```

```
/**
```

```
/** Enhancements by Stanley Yamane:
```

```
/** o reverse lookup table for the decode function
```

```
/**  o reserve string buffer space in advance
/**
/*******
```

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* MODP_B64 - High performance base64 encoder/decoder

* Version 1.3 -- 17-Mar-2006

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```
#!/usr/bin/env node
```

```
/*
```

```
Copyright (c) 2013, Yahoo! Inc. All rights reserved.
```

```
Code licensed under the BSD License:
```

```
http://yuilibrary.com/license/
```

```
*/
```

```
var checker = require('./lib/index');
```

```
var args = require('./lib/args').parse();
```

```
var mkdirp = require('mkdirp');
```

```
var path = require('path');
```

```
var chalk = require('chalk');
```

```
var fs = require('fs');
```

```
if (args.help) {
```

```
  console.error('license-checker@' + require('./package.json').version);
```

```
  var usage = [
```

```
    ",
```

```
    ' --production only show production dependencies.',
```

```
    ' --development only show development dependencies.',
```

```
    ' --unknown report guessed licenses as unknown licenses.',
```

```
    ' --start [path of the initial json to look for]',
```

```
    ' --onlyunknown only list packages with unknown or guessed licenses.',
```

```
    ' --json output in json format.',
```

```
    ' --csv output in csv format.',
```

```
    ' --csvComponentPrefix column prefix for components in csv file',
```

```
    ' --out [filepath] write
```

```
the data to a specific file.',
```

```
    ' --customPath to add a custom Format file in JSON',
```

```
    ' --exclude [list] exclude modules which licenses are in the comma-separated list from the output',
```

```
    ' --relativeLicensePath output the location of the license files as relative paths',
```

```
    ' --summary output a summary of the license usage',
```

```
    ' --failOn [list] fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list',
```

```
    ' --onlyAllow [list] fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-separated
```

```
list',
```

```
    ' --direct look for direct dependencies only',
```

```
    ' --packages [list] restrict output to the packages (package@version) in the semicolon-separated list',
```

```
    ' --excludePackages [list] restrict output to the packages (package@version) not in the semicolon-separated
```

```
list',
```

```
    ' --excludePrivatePackages restrict output to not include any package marked
```

```
as private',
```

```
    ",
```

```
    ' --version The current version',
```

```
    ' --help The text you are reading right now :)',
```

```
    "
```



```

];
console.error(usage.join('\n'), '\n');
process.exit(0);
}

if (args.version) {
  console.error(require('../package.json').version);
  process.exit(1);
}

if (args.failOn && args.onlyAllow) {
  console.error('--failOn and --onlyAllow can not be used at the same time. Choose one or the other.');
```

process.exit(1);

```

} else {
  var argValue = args.failOn || args.onlyAllow;
  if (argValue && argValue.indexOf(',') >= 0) {
    var argName = args.failOn ? 'failOn' : 'onlyAllow';
    console.warn("Warning: As of v17 the '--' + argName + ' argument takes semicolons as delimiters instead of
commas (some license names can contain commas)");
  }
}

checker.init(args, function(err, json) {

  var formattedOutput = "";

  if (!err) {
    console.error('Found error');
    console.error(err);
  }

  if (shouldColorizeOutput(args))
  {
    var keys = Object.keys(json);
    keys.forEach(function(key) {
      var keyParts = key.split('@');
      var coloredKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
      json[coloredKey] = json[key];
      delete json[key];
    });
  }

  if (args.json) {
    formattedOutput = JSON.stringify(json, null, 2) + '\n';
  } else if (args.csv) {
    formattedOutput = checker.asCSV(json, args.customFormat, args.csvComponentPrefix);
  } else if (args.markdown){
    formattedOutput = checker.asMarkDown(json, args.customFormat) + '\n';
  }
}

```

```

    } else if (args.summary) {
        formattedOutput = checker.asSummary(json);
    } else {
        formattedOutput = checker.asTree(json);
    }

    if (args.files) {
        checker.asFiles(json, args.files);
    } else if (args.out) {
        var dir = path.dirname(args.out);
        mkdirp.sync(dir);
        fs.writeFileSync(args.out, formattedOutput,
'utf8');
    } else {
        console.log(formattedOutput);
    }
});

function shouldColorizeOutput(args) {
    return args.color && !args.out && !(args.csv || args.json || args.markdown);
}

```

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Version 2.0 - August 6, 2003

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Slicing support for repeated scalar fields for the Python API.

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* MS Visual Studio error format option.

* Detect unordered_map in stl_hash.m4.

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* gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- * Added generation of field number constants.

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- * Fixed initialization ordering problem in logging code.

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- * Small patch improving performance of in Python serialization.

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- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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- * HPUX support.

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- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

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- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

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- * Added CodedInputStream.getTotalBytesRead().

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- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

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- * Fixed minor IBM x1C compiler build issues
- * Added atomicops for AIX (POWER)

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The basic library functions are written in C and are freestanding. Also included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
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PCRE2 JUST-IN-TIME COMPILATION SUPPORT

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STACK-LESS JUST-IN-TIME COMPILER

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/*

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*

* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>

* Date: Fri, Jun 24, 2011 at 3:20 AM

* Subject: Re: sqrt routine

* To: Kevin Ma <kma@google.com>

* Hi Kevin,

* Thanks for asking. Those routines are public domain (originally posted to

* comp.sys.arm a long time ago), so you can use them freely for any purpose.

* Cheers,

* Wilco

*

* ----- Original Message -----

* From: "Kevin Ma" <kma@google.com>

* To: <Wilco.Dijkstra@ntlworld.com>

* Sent: Thursday, June 23, 2011 11:44 PM

* Subject: Fwd: sqrt routine

* Hi Wilco,

* I saw your sqrt routine from several web sites, including

* <http://www.finesse.demon.co.uk/steven/sqrt.html>.

* Just wonder if there's any copyright information with your Successive

* approximation routines, or if I can freely use it for any purpose.

* Thanks.

* Kevin

*/

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/*

* \$Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche \$

* Portable Audio I/O Library

* Memory barrier utilities

*

* Author: Bjorn Roche, XO Audio, LLC

*

* This program uses the PortAudio Portable Audio Library.

* For more information see: <http://www.portaudio.com>

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/*

* \$Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche \$

* Portable Audio I/O Library

* Ring Buffer utility.

*

* Author:
Phil Burk, <http://www.softsynth.com>
* modified for SMP safety on Mac OS X by Bjorn Roche
* modified for SMP safety on Linux by Leland Lucius
* also, allowed for const where possible
* modified for multiple-byte-sized data elements by Sven Fischer
*
* Note that this is safe only for a single-thread reader and a
* single-thread writer.
*
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* For more information see: <http://www.portaudio.com>
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and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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language: node_js

node_js:

- "6"

- "8"

cache:

directories:

- "node_modules"

Doctrine

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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
 - `libavcodec/x86/flac_dsp_gpl.asm`
 - `libavcodec/x86/idct_mmx.c`
 - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
 - `compat/solaris/make_sunver.pl`
 - `doc/t2h.pm`
 - `doc/txi2pod.pl`
 - `libswresample/tests/swresample.c`
 - `tests/checkasm/*`
 - `tests/tiny_ssim.c`

-

the following filters in libavfilter:

- `signature_lookup.c`
- `vf_blackframe.c`
- `vf_boxblur.c`
- `vf_colormatrix.c`
- `vf_cover_rect.c`
- `vf_croptdetect.c`
- `vf_delogo.c`
- `vf_eq.c`
- `vf_find_rect.c`
- `vf_fspp.c`
- `vf_histeq.c`
- `vf_hqdn3d.c`
- `vf_kerndeint.c`
- `vf_lensfun.c` (GPL version 3 or later)
- `vf_mcdeint.c`
- `vf_mpdecimate.c`
- `vf_nnedi.c`
- `vf_owdenoise.c`
- `vf_perspective.c`
- `vf_phase.c`
- `vf_pp.c`
- `vf_pp7.c`
- `vf_pullup.c`

- `vf_repeatfields.c`
- `vf_sab.c`
- `vf_signature.c`
- `vf_smartblur.c`
- `vf_spp.c`
- `vf_stereo3d.c`
- `vf_super2xsai.c`
- `vf_tinterlace.c`
- `vf_uspp.c`
- `vf_vaguedenoiser.c`
- `vsrc_mptestsrc.c`

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

- * The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
- * `tests/reference.pnm` is under the expat license.

External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

Compatible libraries

The following libraries are under GPL version 2:

- avisynth
- frei0r
- libcdio
- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
-

libxavs2
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:

- gmp
- libaribb24
- liblensfun

When combining them with FFmpeg, use the configure option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

The VMAF, mbedTLS, RK MPI, OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

The smbclient library is under the GPL v3, to combine it with FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to upgrade FFmpeg to the GPL v3.

Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

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WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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NPM License Checker

=====

[![Build Status](<https://www.travis-ci.org/davglass/license-checker.svg?branch=master>)](<https://www.travis-ci.org/davglass/license-checker>)

As of v17.0.0 the ``failOn`` and ``onlyAllow`` arguments take semicolons as delimiters instead of commas. Some license names contain commas and it messed with the parsing

Ever needed to see all the license info for a module and its dependencies?

It's this easy:

```
```shell
npm install -g license-checker

mkdir foo
cd foo
npm install yui-lint
```

license-checker

...

You should see something like this:

...

cli@0.4.3

repository: <http://github.com/chriso/cli>

licenses: MIT

glob@3.1.14

repository: <https://github.com/isaacs/node-glob>

licenses: UNKNOWN

graceful-fs@1.1.14

repository: <https://github.com/isaacs/node-graceful-fs>

licenses: UNKNOWN

inherits@1.0.0

repository: <https://github.com/isaacs/inherits>

licenses: UNKNOWN

jshint@0.9.1

licenses: MIT

lru-cache@1.0.6

repository: <https://github.com/isaacs/node-lru-cache>

licenses: MIT

lru-cache@2.0.4

repository: <https://github.com/isaacs/node-lru-cache>

licenses: MIT

minimatch@0.0.5

repository: <https://github.com/isaacs/minimatch>

licenses: MIT

minimatch@0.2.9

repository: <https://github.com/isaacs/minimatch>

licenses: MIT

sigmund@1.0.0

repository: <https://github.com/isaacs/sigmund>

licenses: UNKNOWN

yui-lint@0.1.1

licenses: BSD

repository: <http://github.com/yui/yui-lint>

...

An asterisk next to a license name means that it was deduced from an other file than package.json (README, LICENSE, COPYING, ...)

You could see something like this:

...

debug@2.0.0

repository: <https://github.com/visionmedia/debug>

licenses: MIT\*



...

## Options

-----

- \* `--production`` only show production dependencies.
- \* `--development`` only show development dependencies.
- \* `--start [path of the initial json to look for]``
- \* `--unknown`` report guessed licenses as unknown licenses.
- \* `--onlyunknown`` only list packages with unknown or guessed licenses.
- \* `--json`` output in json format.
- \* `--csv`` output in csv format.
- \* `--csvComponentPrefix`` prefix column for component in csv format.
- \* `--out [filepath]`` write the data to a specific file.
- \* `--customPath`` to add a custom Format file in JSON
- \* `--exclude [list]`` exclude modules which licenses are in the comma-separated list from the output
- \* `--relativeLicensePath`` output the location of the license files as relative paths
- \* `--summary`` output a summary of the license usage'
- \* `--failOn [list]`` fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list
- \* `--onlyAllow [list]`` fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-separated list
- \* `--packages [list]`` restrict output to the packages (package@version) in the semicolon-separated list
- \* `--excludePackages [list]`` restrict output to the packages (package@version) not in the semicolon-separated list
- \* `--excludePrivatePackages``  
restrict output to not include any package marked as private
- \* `--direct`` look for direct dependencies only`

## Exclusions

-----

A list of licenses is the simplest way to describe what you want to exclude.

You can use valid [SPDX identifiers](<https://spdx.org/licenses/>).

You can use valid SPDX expressions like ``MIT OR X11``.

You can use non-valid SPDX identifiers, like ``Public Domain``, since ``npm`` does support some license strings that are not SPDX identifiers.

## Examples

-----

...

```
license-checker --json > /path/to/licenses.json
license-checker --csv --out /path/to/licenses.csv
license-checker --unknown
license-checker --customPath customFormatExample.json
license-checker --exclude 'MIT, MIT OR X11, BSD, ISC'
license-checker --packages 'react@16.3.0;react-dom@16.3.0;lodash@4.3.1'
license-checker --excludePackages 'internal-1;internal-2'
license-checker --onlyunknown
```

```

Custom format

The `--customPath` option can be used with CSV to specify the columns.

Note that the first column, `module_name`, will always be used.

When used with JSON format, it will add the specified items to the usual ones.

The available items are the following:

- name
- version
- description
- repository
- publisher
- email
- url
- licenses
- licenseFile
- licenseText
- licenseModified

You can also give default values for each item.

See an example in `customFormatExample.json`.

Requiring

```
```js
var checker = require('license-checker');

checker.init({
 start: '/path/to/start/looking'
}, function(err, packages) {
 if (err) {
 //Handle error
 } else {
 //The sorted package data
 //as an Object
 }
});
```
```

Debugging

license-checker uses `[debug](https://www.npmjs.com/package/debug)` for internal logging. There are two internal markers:

- * ``license-checker:error`` for errors
- * ``license-checker:log`` for non-errors

Set the ``DEBUG`` environment variable to one of these to see debug output:

```
``shell
$
export DEBUG=license-checker*; license-checker
scanning ./yui-lint
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
# ...
````
```

#### How Licenses are Found

-----

We walk through the ``node_modules`` directory with the `[`read-installed`](https://www.npmjs.org/package/read-installed)` module. Once we gathered a list of modules we walk through them and look at all of their ``package.json``'s, We try to identify the license with the `[`spdx`](https://www.npmjs.com/package/spdx)` module to see if it has a valid SPDX license attached. If that fails, we then look into the module for the following files: ``LICENSE``, ``LICENCE``, ``COPYING``, & ``README``.

If one of those files are found (in that order) we will attempt to parse the license data from it with a list of known license texts. This will be shown with the ``*`` next to the name of the license to show that we "guessed" at it.

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\* \* \*

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# spdx-license-ids

[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)  
[![Github Actions](https://action-badges.now.sh/shinmn/spdx-license-ids)](https://wdp9fww0r9.execute-api.us-west-2.amazonaws.com/production/results/shinmn/spdx-license-ids)

A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinmn/spdx-license-ids/master/index.json), or  
[use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

...

```
npm install spdx-license-ids
```

...

## [Node.js](https://nodejs.org/) API

```
require('spdx-license-ids')
```

Type: `string[]`

All license IDs except for the currently deprecated ones.

```
```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')
```

Type: `string[]`

Deprecated license IDs.

```
```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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The code in this library is an extension of Bala Vatti's clipping algorithm:

"A generic solution to polygon clipping"

Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.

<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

<http://books.google.com/books?q=vatti+clipping+agoston>

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

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raytrace.js contains code from the the Prototype JavaScript framework, version 1.5.0:

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```
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```
#!/usr/bin/env node
var nopt = require("../lib/nopt")
, path = require("path")
, types = { num: Number
, bool: Boolean
, help: Boolean
, list: Array
, "num-list": [Number, Array]
, "str-list": [String, Array]
, "bool-list": [Boolean, Array]
, str: String
, clear: Boolean
, config: Boolean
, length: Number
, file: path
}
, shorthands = { s: [ "--str", "astring" ]
, b: [ "--bool" ]
, nb: [ "--no-bool" ]
, tft: [ "--bool-list", "--no-bool-list", "--bool-list", "true" ]
, "?": [ "--help" ]
, h: [ "--help" ]
, H: [ "--help" ]
, n: [ "--num", "125" ]
, c: [ "--config" ]
, l: [ "--length" ]
, f: [ "--file" ]
}
```

```

, parsed = nopt( types
    , shorthands

    , process.argv
    , 2 )

console.log("parsed", parsed)

if (parsed.help) {
  console.log("")
  console.log("nopt cli tester")
  console.log("")
  console.log("types")
  console.log(Object.keys(types).map(function M (t) {
    var type = types[t]
    if (Array.isArray(type)) {
      return [t, type.map(function (type) { return type.name })]
    }
    return [t, type && type.name]
  })).reduce(function (s, i) {
    s[i[0]] = i[1]
    return s
  }, {})
  console.log("")
  console.log("shorthands")
  console.log(shorthands)
}

```

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If you want to write an option parser, and have it be good, there are two ways to do it. The Right Way, and the Wrong Way.

The Wrong Way is to sit down and write an option parser. We've all done that.

The Right Way is to write some complex configurable program with so many options that you hit the limit of your frustration just trying to manage them all, and defer it with duct-tape solutions until you see



exactly to the core of the problem, and finally snap and write an awesome option parser.

If you want to write an option parser, don't write an option parser. Write a package manager, or a source control system, or a service restarter, or an operating system. You probably won't end up with a good one of those, but if you don't give up, and you are relentless and diligent enough in your procrastination, you may just end up with a very nice option parser.

```
## USAGE
```

```
```javascript
// my-program.js
var nopt = require("nopt")
, Stream = require("stream").Stream
, path = require("path")
, knownOpts = { "foo" : [String, null]
, "bar" : [Stream, Number]
, "baz" : path
, "bloo" : [ "big", "medium", "small" ]
, "flag" : Boolean
, "pick" : Boolean
, "many1" : [String, Array]
, "many2" : [path, Array]
}
, shortHands = { "foofoo" : ["--foo", "Mr. Foo"]
, "b7" : ["--bar", "7"]
, "m" : ["--bloo", "medium"]
, "p" : ["--pick"]
, "f" : ["--flag"]
}
// everything is optional.
// knownOpts and shortHands default to {}
// arg list defaults to process.argv
// slice defaults to 2
, parsed = nopt(knownOpts, shortHands, process.argv, 2)
console.log(parsed)
```
```

This would give you support for any of the following:

```
```console
$ node my-program.js --foo "blerp" --no-flag
{ "foo" : "blerp", "flag" : false }

$ node my-program.js
```

```

---bar 7 --foo "Mr. Hand" --flag
{ bar: 7, foo: "Mr. Hand", flag: true }

$ node my-program.js --foo "blerp" -f -----p
{ foo: "blerp", flag: true, pick: true }

$ node my-program.js -fp --foofoo
{ foo: "Mr. Foo", flag: true, pick: true }

$ node my-program.js --foofoo -- -fp # -- stops the flag parsing.
{ foo: "Mr. Foo", argv: { remain: ["-fp"] } }

$ node my-program.js --blatzk -fp # unknown opts are ok.
{ blatzk: true, flag: true, pick: true }

$ node my-program.js --blatzk=1000 -fp # but you need to use = if they have a value
{ blatzk: 1000, flag: true, pick: true }

$ node my-program.js --no-blatzk -fp # unless they start with "no-"
{ blatzk: false, flag: true, pick: true }

$ node my-program.js --baz b/a/z # known paths are resolved.
{ baz: "/Users/isaacs/b/a/z" }

# if Array is one of the types, then it can take many
# values, and will always be an array. The other types provided
# specify what types are allowed in the list.

$ node my-program.js --many1 5 --many1 null
--many1 foo
{ many1: ["5", "null", "foo"] }

$ node my-program.js --many2 foo --many2 bar
{ many2: ["/path/to/foo", "path/to/bar"] }
...

```

Read the tests at the bottom of `lib/nopt.js`` for more examples of what this puppy can do.

### ## Types

The following types are supported, and defined on `nopt.typeDefs``

- \* String: A normal string. No parsing is done.
- \* path: A file system path. Gets resolved against cwd if not absolute.
- \* url: A url. If it doesn't parse, it isn't accepted.
- \* Number: Must be numeric.
- \* Date: Must parse as a date. If it does, and `Date`` is one of the options,

then it will return a Date object, not a string.

\* Boolean: Must be either `true` or `false`. If an option is a boolean, then it does not need a value, and its presence will imply `true` as the value. To negate boolean flags, do `--no-whatever` or `--whatever false`

\* NaN: Means that the option is strictly not allowed. Any value will fail.

\* Stream: An object matching the "Stream" class in node.

Valuable

for use when validating programmatically. (npm uses this to let you supply any WriteStream on the `outfd` and `logfd` config options.)

\* Array: If `Array` is specified as one of the types, then the value will be parsed as a list of options. This means that multiple values can be specified, and that the value will always be an array.

If a type is an array of values not on this list, then those are considered valid values. For instance, in the example above, the `--bloo` option can only be one of `"big"`, `"medium"`, or `"small"`, and any other value will be rejected.

When parsing unknown fields, `"true"`, `"false"`, and `"null"` will be interpreted as their JavaScript equivalents.

You can also mix types and values, or multiple types, in a list. For instance `{ blah: [Number, null] }` would allow a value to be set to either a Number or null. When types are ordered, this implies a preference, and the first type that can be used to properly interpret the value will be used.

To define a new type, add it to `nopt.typeDefs`. Each item in that hash is an object with a `type` member and a `validate` method. The `type` member is an object that matches what goes in the type list. The `validate` method is a function that gets called with `validate(data, key, val)`. Validate methods should assign `data[key]` to the valid value of `val` if it can be handled properly, or return boolean `false` if it cannot.

You can also call `nopt.clean(data, types, typeDefs)` to clean up a config object and remove its invalid properties.

## ## Error Handling

By default, nopt outputs a warning to standard error when invalid values for known options are found. You can change this behavior by assigning a method to `nopt.invalidHandler`. This method will be called with the offending `nopt.invalidHandler(key, val, types)`.

If no `nopt.invalidHandler`` is assigned, then it will console.error its whining. If it is assigned to boolean `false`` then the warning is suppressed.

```
##  
Abbreviations
```

Yes, they are supported. If you define options like this:

```
```javascript  
{ "foolhardyelephants" : Boolean  
, "pileofmonkeys" : Boolean }  
```
```

Then this will work:

```
```bash  
node program.js --foolhar --pil  
node program.js --no-f --pileofmon  
# etc.  
```
```

```
## Shorthands
```

Shorthands are a hash of shorter option names to a snippet of args that they expand to.

If multiple one-character shorthands are all combined, and the combination does not unambiguously match any other option or shorthand, then they will be broken up into their constituent parts. For example:

```
```json  
{ "s" : ["--loglevel", "silent"]  
, "g" : "--global"  
, "f" : "--force"  
, "p" : "--parseable"  
, "l" : "--long"  
}  
```
```

```
```bash  
npm ls -sgflp  
# just like doing this:  
npm ls --loglevel silent --global --force --long --parseable  
```
```

```
## The Rest of the args
```

The config object returned by `nopt` is given a special member called ``argv``, which is an object with the following fields:

- \* ``remain``: The remaining args after all the parsing has occurred.
- \* ``original``: The args as they originally appeared.
- \* ``cooked``: The args after flags and shorthands are expanded.

### ## Slicing

Node programs are called with more or less the exact `argv` as it appears in C land, after the `v8` and node-specific options have been plucked off. As such, ``argv[0]`` is always ``node`` and ``argv[1]`` is always the JavaScript program being run.

That's usually not very useful to you. So they're sliced off by default. If you want them, then you can pass in ``0`` as the last argument, or any other number that you'd like to slice off the start of the list.

```
// sigslot.h: Signal/Slot classes
//
// Written by Sarah Thompson (sarah@telergy.com) 2002.
//
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```

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(c) Dean McNamee <[dean@gmail.com](mailto:dean@gmail.com)>, 2012.

C++ port by Mapbox, Konstantin Kfer <[mail@kkaefer.com](mailto:mail@kkaefer.com)>, 2014-2017.

<https://github.com/deanm/css-color-parser-js>

<https://github.com/kkaefer/css-color-parser-cpp>

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cubemaps: See cubemaps/miramar/README.TXT

gltf: See gltf/LICENSE.md
## Change Log

### v25.0.1 (2019/01/10 19:29 +00:00)
- [f1c835b](https://github.com/davglass/license-checker/commit/f1c835b991b65dc928eafe64c29b73df9e703169)
Updated readme with new args (@davglass)
- [ada667f](https://github.com/davglass/license-checker/commit/ada667f28e8ef4e96b5b6059fe05541d05ca936c)
changelog (@davglass)
- [7813f0d](https://github.com/davglass/license-checker/commit/7813f0db3b51f7cc4cd37d8e7b4670f9005fed06)
contrib (@davglass)

### v25.0.0 (2019/01/10 15:09 +00:00)
- [cdb77d9](https://github.com/davglass/license-checker/commit/cdb77d9a2b36cd87503f32265a0ee388b25c24ae)
25.0.0 (@davglass)
```

- [b897345](https://github.com/davglass/license-checker/commit/b89734549bc05fb5e143083fdf6d3959d87eb2b8) [Fixes #136] Document --start option and add the depth option for looking into root dependencies or infinitely (@davglass)
- [#185](https://github.com/davglass/license-checker/pull/185) Merge pull request #185 from theboolean/fix/exclude-packages-and-private (@theboolean)
- [#184](https://github.com/davglass/license-checker/pull/184) Merge pull request #184 from theboolean/docs/fix-typo (@theboolean)
- [987a60f](https://github.com/davglass/license-checker/commit/987a60fbb58052cf36d5a80e6252e81136bb1dd8) changes 24.1.0 (@davglass)

### v24.1.0 (2018/12/14 20:54 +00:00)

- [18ab8a1](https://github.com/davglass/license-checker/commit/18ab8a1eb478d1354429ca4318c1df3de3e4cbb1) 24.1.0 (@davglass)
- [1dca0f6](https://github.com/davglass/license-checker/commit/1dca0f616aebdef2d398c130a2a4f86c2b4e88c8) Changelog (@davglass)
- [#188](https://github.com/davglass/license-checker/pull/188) Fix for #153: remove deprecated package 'spdx' (#188) (@rogierschouten)
- [d1d34b1](https://github.com/davglass/license-checker/commit/d1d34b1a8894987807419c093c3ec10b4f06db3d) Fix typo in package.json description (@theboolean)
- [f5c9008](https://github.com/davglass/license-checker/commit/f5c9008a6d20b503e21c0d8130e52be526a5bfe8) Fix: Allow excluding packages and private packages together (@theboolean)
- [98c4dc6](https://github.com/davglass/license-checker/commit/98c4dc670fdebb6e58b62b38ebcb12302e5b1db5) changes (@davglass)

### v24.0.1 (2018/10/11 16:40 +00:00)

- [d72eae8](https://github.com/davglass/license-checker/commit/d72eae8bcb80d8582e6d12c5e2664e9c19135709) 24.0.1 (@davglass)
- [9433e64](https://github.com/davglass/license-checker/commit/9433e640ea9f629aad5f00c224a9f61026b8116d) [Fixes #181] - Removed extra line break with --cvs (@davglass)
- [65baa28](https://github.com/davglass/license-checker/commit/65baa28f532f87ebb75a32578c7ac5837806d12f) contrib and changes (@davglass)

### v24.0.0 (2018/10/09 21:12 +00:00)

- [84d64a2](https://github.com/davglass/license-checker/commit/84d64a28fa971c3bfb20b9e9de27cafbe6e8481b) 24.0.0 (@davglass)
- [#180](https://github.com/davglass/license-checker/pull/180) Feature: Exclude Private Packages (#180) (Jonny Reeves)
- [#179](https://github.com/davglass/license-checker/pull/179) Merge pull request #179 from jonny-improbable/fix/fix-strict-checks (@jonny-improbable)
- [179077d](https://github.com/davglass/license-checker/commit/179077d079acbcd0183aa6691cfe5c2ec0f93f07) Fixes 176, Packages are not ignored when using --onlyAllow and --excludePackages. (@jonny-improbable)
- [890ca17](https://github.com/davglass/license-checker/commit/890ca17d179bc43a6cb7cff962d69d1521dc9ac2) changelog (@davglass)

### v23.0.0 (2018/10/09 14:37 +00:00)

- [f243287](https://github.com/davglass/license-checker/commit/f243287fbce6da33838a226ddfe8c412535390d4)

23.0.0 (@davglass)

- [#178](https://github.com/davglass/license-checker/pull/178) Merge pull request #178 from jonny-improbable/fix/filtering (@jonny-improbable)
- [#175](https://github.com/davglass/license-checker/pull/175) Merge pull request #175 from jonny-improbable/patch-1 (@jonny-improbable)
- [f2c6611](https://github.com/davglass/license-checker/commit/f2c6611d6c68e50b2b6f56260026837e7167f44a) Fixes #177, --packages and --excludePackages filtering (@jonny-improbable)
- [0a598df](https://github.com/davglass/license-checker/commit/0a598df55c3ec33803ef33be07cc47a910eee961) Improve --onlyAllow violation Error
- [ee723af](https://github.com/davglass/license-checker/commit/ee723af79889a4d98ed067494a58f6aa41a44ac7) changes (@davglass)

### v22.0.0 (2018/10/08 19:00 +00:00)

- [bd398c3](https://github.com/davglass/license-checker/commit/bd398c3bce0279699c9aad1dc4b592f398a75766) 22.0.0 (@davglass)
- [#172](https://github.com/davglass/license-checker/pull/172) Merge pull request #172 from fzaninotto/exclude-packages (@fzaninotto)
- [014fd96](https://github.com/davglass/license-checker/commit/014fd9613fe5460e0b7a0fc118a659a337e25e2c) added changes (@davglass)

### v21.0.0 (2018/10/06 13:24 +00:00)

- [d75fe43](https://github.com/davglass/license-checker/commit/d75fe43d61a9d5b6696d71a663e25a53fd3d44f7) 21.0.0 (@davglass)
- [05cb221](https://github.com/davglass/license-checker/commit/05cb221359de4ffe1039f586cd9e8fb7cb9d6398) [Fixes #174] - Moved private and unknown detection above filtering (@davglass)
- [b1d5700](https://github.com/davglass/license-checker/commit/b1d570088236dfb90253bdac27763523b2e74ffb) Add an excludePackages option (@fzaninotto)
- [231bd3f](https://github.com/davglass/license-checker/commit/231bd3f2412507be1d702ad100b23c1b1fe93602) updated readme (@davglass)
- [6c61a7b](https://github.com/davglass/license-checker/commit/6c61a7bd102466c702065d42706392c11717cc1d) changelog (@davglass)

### v20.2.0 (2018/07/30 13:49 +00:00)

- [28dc521](https://github.com/davglass/license-checker/commit/28dc5218dec3340778bd801593275ad1b222e53f) 20.2.0 (@davglass)
- [#169](https://github.com/davglass/license-checker/pull/169) Merge pull request #169 from codepunkt/restrict\_packages (@codepunkt)
- [5e4b274](https://github.com/davglass/license-checker/commit/5e4b274e955485fb2aba37e65fec913b8042f38d) refactor: restore previous code style (@codepunkt)
- [ed25d68](https://github.com/davglass/license-checker/commit/ed25d6829602793e13233d3da2d97b92ee2044c6) test: add test for --packages flag (@codepunkt)
- [0f53922](https://github.com/davglass/license-checker/commit/0f53922088be0b0dfd4f8db7ea884b53d0137e45) feat: allow restricting output to specified packages (@codepunkt)
- [5f63f87](https://github.com/davglass/license-checker/commit/5f63f8766a17e589b57db99bda4eb54d91b85b77) changes and contrib (@davglass)

### v20.1.0 (2018/06/07 14:33 +00:00)

- [970882a](https://github.com/davglass/license-checker/commit/970882a09b345c7f32496431e5ca4c069ad7e320) 20.1.0 (@davglass)
- [#165](https://github.com/davglass/license-checker/pull/165) Merge pull request #165 from santiagocanti/fix-exclude-not-adding-custom-licenses (@santiagocanti)
- [89e48a9](https://github.com/davglass/license-checker/commit/89e48a9d3d0c9f2e48bfcee0dc3563ce4b652e22) Fix exclude not including custom licenses (@santiagocanti)

### v20.0.0 (2018/05/17 14:14 +00:00)

- [0e89310](https://github.com/davglass/license-checker/commit/0e8931021df777cb401d9a332fa2a8c9a2c49eb2) 20.0.0 (@davglass)
- [c36a5c9](https://github.com/davglass/license-checker/commit/c36a5c99bb4f68816e4e19cad5090ba3c7ba67a4) changes (@davglass)
- [ccb66f3](https://github.com/davglass/license-checker/commit/ccb66f3410a4589e6f2b7cf1c3aefb1446bab460) contributors (@davglass)
- [#156](https://github.com/davglass/license-checker/pull/156) Merge pull request #156 from zodiac403/z4/copyright (@zodiac403)
- [56414b4](https://github.com/davglass/license-checker/commit/56414b4a67cbb25bcc8eb8cc05b0ac712b677dc2) Add unit test for Copyright statement. (@zodiac403)
- [3eafe24](https://github.com/davglass/license-checker/commit/3eafe249ad662af727a9b7472f7ad6c1b9a73ade) fixing test coverage with switch to nyc from istanbul (@davglass)

### v19.0.0 (2018/04/30 14:51 +00:00)

- [7e83a06](https://github.com/davglass/license-checker/commit/7e83a069d23c104c3cd8257eb64666704ecca465) 19.0.0 (@davglass)
- [e5eb49b](https://github.com/davglass/license-checker/commit/e5eb49bcb5546dbc681f736f159d63908cd39ce9) upgrading packages (@davglass)
- [442aee6](https://github.com/davglass/license-checker/commit/442aee69b5d44e47bfd2e441c4e1f86d387e49c6) Changlog (@davglass)

### v18.1.0 (2018/04/30 14:16 +00:00)

- [82ec91b](https://github.com/davglass/license-checker/commit/82ec91bb02e6bf998164b62b4aa827198156ad4c) 18.1.0 (@davglass)
- [4b546d3](https://github.com/davglass/license-checker/commit/4b546d38ce91bcbe8d21e7bc53e44635b0447fc2) contrib (@davglass)
- [#155](https://github.com/davglass/license-checker/pull/155) Merge pull request #155 from ktmouk/suppress-path-property (@ktmouk)
- [#160](https://github.com/davglass/license-checker/pull/160) Merge pull request #160 from helio-frota/pr (@helio-frota)
- [8b068f2](https://github.com/davglass/license-checker/commit/8b068f25fe910d087c06e29312bc250b49aba4c7) fix: Updating debug dependency to fix a security warning (@helio-frota)
- [040dd94](https://github.com/davglass/license-checker/commit/040dd9468261966c5c40e4a418aa9ba8f716c3a2) Copyright statement: Handle multi-line stagements (@zodiac403)
- [0480750](https://github.com/davglass/license-checker/commit/04807506d61aa1d704e8b51da3a289baa025b510) Fix layout issue. (@zodiac403)
- [9cb45f2](https://github.com/davglass/license-checker/commit/9cb45f2b9ce2c1142c0d1f556f01f7d754737a4c)

Link with customFormat (@zodiac403)

- [f83aaae](https://github.com/davglass/license-checker/commit/f83aaae85ad4cc2e9880802951dfacbc86dc2d7f) Merge branch 'z4/copyright' of https://github.com/zodiac403/license-checker into z4/copyright (@zodiac403)
- [7536af9](https://github.com/davglass/license-checker/commit/7536af935d91078657f0e169ed82383f099607f6) Trim output. (@zodiac403)
- [8716845](https://github.com/davglass/license-checker/commit/87168456cae35263882bd2b6d6d0081f228b6b66) Suppress path property (@ktmouk)
- [be57ee8](https://github.com/davglass/license-checker/commit/be57ee8f76c8aada0d227913b7d0e12aca0dc640) Add example for (c) statement. (@zodiac403)
- [fe17f7c](https://github.com/davglass/license-checker/commit/fe17f7c76dbdae0cbf689a0cd260a746698f3281) Parse (c) statements from LICENSE file. (@zodiac403)
- [#149](https://github.com/davglass/license-checker/pull/149) Merge pull request #149 from honzajavorek/patch-1 (@honzajavorek)
- [955bbf6](https://github.com/davglass/license-checker/commit/955bbf6070ffc9f0d01ef37bb84ffbacc65e007b) remove the old status badge (@honzajavorek)

### v18.0.0 (2018/03/20 12:30 +00:00)

- [315de0b](https://github.com/davglass/license-checker/commit/315de0b1a881cf8737c3c0131c217c4820df13a8) 18.0.0 (@davglass)
- [76655d5](https://github.com/davglass/license-checker/commit/76655d59bad95c2e52724aaa3a0cf036f0e60bd6) changelog (@davglass)
- [c8aa823](https://github.com/davglass/license-checker/commit/c8aa823342b7a250d510582c8a03dd76af50bd9c) added contributors (@davglass)
- [#147](https://github.com/davglass/license-checker/pull/147) Merge pull request #147 from honzajavorek/honzajavorek/license-files (@honzajavorek)
- [#148](https://github.com/davglass/license-checker/pull/148) Merge pull request #148 from honzajavorek/honzajavorek/use-stderr (@honzajavorek)
- [#146](https://github.com/davglass/license-checker/pull/146) Merge pull request #146 from honzajavorek/honzajavorek/fix-e2e-test (@honzajavorek)
- [#145](https://github.com/davglass/license-checker/pull/145) Merge pull request #145 from honzajavorek/honzajavorek/drop-4-add-8 (@honzajavorek)
- [0105f7d](https://github.com/davglass/license-checker/commit/0105f7dcf01a67b8f7c34371d95a1d76b191d5ed) use stderr where applicable (@honzajavorek)
- [0ff8d91](https://github.com/davglass/license-checker/commit/0ff8d917c659446256074c0940ae43dd84930233) add support for LICENSE-MIT and similar (@honzajavorek)
- [f02589e](https://github.com/davglass/license-checker/commit/f02589e62c0ba8221081b8b1799d561c3ff20500) isolate and test the license file detection (@honzajavorek)
- [f0da0fe](https://github.com/davglass/license-checker/commit/f0da0fe2ab28f1658e4ed504bb034fb1536b9ff8) add warning about commas and test it (@honzajavorek)
- [3db0b6f](https://github.com/davglass/license-checker/commit/3db0b6f05a68ccff4181503ca87edce4ef10cd7) fix e2e test (transition from comma delimiter to semicolon) (@honzajavorek)
- [cec3b73](https://github.com/davglass/license-checker/commit/cec3b73505ac40a2dca211e78427624d009585dc) let Travis CI to cache node\_modules (@honzajavorek)
- [8cea3dc](https://github.com/davglass/license-checker/commit/8cea3dccf1d185dc3ae3f37f44a82d7e123a1988) add Travis CI badge to the README (@honzajavorek)
- [8f59c3b](https://github.com/davglass/license-checker/commit/8f59c3b494f69b1d51535bcff80c0e006d0ef6bb) drop support for node 4, add support for node 8 (@honzajavorek)

### v17.0.0 (2018/03/19 13:26 +00:00)

- [cd5fdd8](https://github.com/davglass/license-checker/commit/cd5fdd8e94267d7d8f29e86dd9cbf8b694c037f1) 17.0.0 (@davglass)
- [13c11ee](https://github.com/davglass/license-checker/commit/13c11eeea1b1a3e012de62536100fce91c355c8b) updated readme and help text (@davglass)
- [#144](https://github.com/davglass/license-checker/pull/144) Merge pull request #144 from creising/parser-fixes (@creising)
- [d2ab8df](https://github.com/davglass/license-checker/commit/d2ab8df30bc3e6b38b321a1e12a70cf477a69eb0) added support for lic with commas and spaces (@creising)
- [2075208](https://github.com/davglass/license-checker/commit/20752083c6029823fb389a30a1ed4d7d90fa9297) contrib and changelog (@davglass)
- [6c5274c](https://github.com/davglass/license-checker/commit/6c5274c6064d318844cf36185dea395e0893ff08) [fixes #132] - Fixed issue with asFiles and path issues (@davglass)
- [a46c448](https://github.com/davglass/license-checker/commit/a46c4483f872c3db9498a65b7ae3dc6d8164de0a) 16.0.0 (@davglass)
- [38d63e2](https://github.com/davglass/license-checker/commit/38d63e2c2c3fd6c11012fb69b1470b2ba06d5554) [fixes #128] - Added --onlyAllow option (@davglass)

### v16.0.0 (2018/01/18 15:02 +00:00)

- [#131](https://github.com/davglass/license-checker/pull/131) Merge pull request #131 from mischah/patch-1 (@mischah)
- [e341d17](https://github.com/davglass/license-checker/commit/e341d1701092be87309ec4b51fa6eb23f7e9a589) Fix typo in Readme (@mischah)
- [cc38a20](https://github.com/davglass/license-checker/commit/cc38a2047bf41b6fe25266114a13a9bf54133e04) updated license text (@davglass)

### v15.0.0 (2017/10/19 14:24 +00:00)

- [a9bd001](https://github.com/davglass/license-checker/commit/a9bd001b649bfa186bae5598bb8c67ff56383599) 15.0.0 (@davglass)
- [db621fa](https://github.com/davglass/license-checker/commit/db621fa6beeff870699c33be484bf49816ab7866) changelog (@davglass)
- [#124](https://github.com/davglass/license-checker/pull/124) Merge pull request #124 from neverendingqs/app/stricterguesses (@neverendingqs)
- [#126](https://github.com/davglass/license-checker/pull/126) app - output now includes path to dependency. (#126) (@neverendingqs)
- [9f68b29](https://github.com/davglass/license-checker/commit/9f68b29bbfa73278cdab92e221be6ccbab191932) app - strengthening license guessing; resolves #123. (@neverendingqs)
- [3061c87](https://github.com/davglass/license-checker/commit/3061c87363f3416d86ca6c2ba7b2bfa77def0e73) changes (@davglass)

### v14.0.0 (2017/08/28 13:22 +00:00)

- [b2a4403](https://github.com/davglass/license-checker/commit/b2a440309c1537c52e5c5a2106f11e72d5b784ec) 14.0.0 (@davglass)
- [#122](https://github.com/davglass/license-checker/pull/122) Added --failOn [list] mode (#122) (@tobilg)

### v13.1.0 (2017/08/25 15:00 +00:00)

- [ee25265](https://github.com/davglass/license-checker/commit/ee25265f92fe0d3b603da6b8c88d175e0d1f2fa5) 13.1.0 (@davglass)
- [5bb9a17](https://github.com/davglass/license-checker/commit/5bb9a17f89d7e180b3a9d929ebc073135262bd2f) changes (@davglass)
- [b1e0392](https://github.com/davglass/license-checker/commit/b1e0392afa4b511b7c532125cd3165a828d3d4e3) added contrib (@davglass)
- [#121](https://github.com/davglass/license-checker/pull/121) Add `--summary` mode to show a summary with counts of the used licenses (#121) (@tobilg)
- [#119](https://github.com/davglass/license-checker/pull/119) Fix minor spelling mistakes (#119) (@tobiasbueschel)
- [#118](https://github.com/davglass/license-checker/pull/118) Minor readme text improvements (#118) (@peteruithoven)
- [d2bc5ea](https://github.com/davglass/license-checker/commit/d2bc5ea91ab50becea91d5f0f050955fe9a6ac59) added license parsing info to README (@davglass)
- [3e9d320](https://github.com/davglass/license-checker/commit/3e9d320acb2e9f14297d6a4355680f34a9b0609d) changes (@davglass)

### v13.0.3 (2017/08/04 17:15 +00:00)

- [2caf76b](https://github.com/davglass/license-checker/commit/2caf76be7f2849e153ee28410f3b7a41df3283b5) 13.0.3 (@davglass)
- [faddc8](https://github.com/davglass/license-checker/commit/faddc895ef9c6f182e2283c5605a8c1d8fa8a25) [fixes #117] fixed minor URL parsing (@davglass)
- [e58a868](https://github.com/davglass/license-checker/commit/e58a868268aefd97d735b364bd87d03140d76482) changes (@davglass)

### v13.0.2 (2017/07/18 16:24 +00:00)

- [2c712b7](https://github.com/davglass/license-checker/commit/2c712b7c7e6efe916d60f3ef3125f7f019c46d59) 13.0.2 (@davglass)
- [ef812c1](https://github.com/davglass/license-checker/commit/ef812c1168901d08b97dbd450a64ca03bb7062ad) [fixes #114] - Custom URL/File parsing skipped if file found on disk (@davglass)

### v13.0.1 (2017/07/17 12:48 +00:00)

- [a1bf8f1](https://github.com/davglass/license-checker/commit/a1bf8f152b100d81b44757b3b7e141df6a971c44) 13.0.1 (@davglass)
- [e6d0c89](https://github.com/davglass/license-checker/commit/e6d0c893b8a86e12493f7a5c22fd74ef26267994) contrib & changes (@davglass)
- [#113](https://github.com/davglass/license-checker/pull/113) Use LICENSE file in preference to README (#113) (@ibeucaly)
- [6b7f79f](https://github.com/davglass/license-checker/commit/6b7f79f654e21903ea37e4391fba3601ece32e90) changes (@davglass)

### v13.0.0 (2017/07/14 12:49 +00:00)

- [dd9e880](https://github.com/davglass/license-checker/commit/dd9e880abd234d683d8c1e57e7a5f889c9156de4) 13.0.0 (@davglass)
- [051b20b](https://github.com/davglass/license-checker/commit/051b20b0c4b35f223f724705a0025dafc809373f) cleaned up some tests (@davglass)

- [#110](https://github.com/davglass/license-checker/pull/110) FEATURE: Recognise some custom licenses by file or url (#110) (@dancrumb)
- [#111](https://github.com/davglass/license-checker/pull/111) Resolves #60 (#111) Adding support for GPL and LGPL (@dancrumb)
- [#109](https://github.com/davglass/license-checker/pull/109) FEATURE: Improve license exclusion (#109) (@dancrumb)
- [#108](https://github.com/davglass/license-checker/pull/108) FEATURE: Detect private modules and report them as UNLICENSED (#108) (@dancrumb)

### v12.1.0 (2017/07/12 16:48 +00:00)

- [dc944e5](https://github.com/davglass/license-checker/commit/dc944e54d55d77b0ef6b6321d9abee847662ccb8) 12.1.0 (@davglass)
- [d415c58](https://github.com/davglass/license-checker/commit/d415c580b04bc5eefa592dc9f9a0a31b244c1bd3) updated contrib and changes (@davglass)
- [#107](https://github.com/davglass/license-checker/pull/107)  
Merge pull request #107 from dancrumb/feature/support-for-public-domain-licenses (@dancrumb)
- [0c55770](https://github.com/davglass/license-checker/commit/0c55770294167161c48b79cc82a15a6545154a87) FEATURE: Add support for Public Domain licenses (@dancrumb)

### v12.0.0 (2017/07/05 13:33 +00:00)

- [8b74fa1](https://github.com/davglass/license-checker/commit/8b74fa1fe3b5edb0d217aa3ce86f4662eb024621) 12.0.0 (@davglass)
- [4f3367c](https://github.com/davglass/license-checker/commit/4f3367c2bf2e9713a6cccd11341f7f4fa70ed400) changes & contrib (@davglass)
- [#106](https://github.com/davglass/license-checker/pull/106) Merge pull request #106 from helio-frota/licensefile-readme (@helio-frota)
- [a229507](https://github.com/davglass/license-checker/commit/a2295073d0178dca1b88e85ea8f52c21d35e52fc) src: the README is added as licenseFile (@helio-frota)
- [b59d90d](https://github.com/davglass/license-checker/commit/b59d90d8705f6f728c817b89936f95097d26857b) changes & contrib (@davglass)

### v11.0.0 (2017/05/30 13:33 +00:00)

- [258df10](https://github.com/davglass/license-checker/commit/258df102da484943088da8e0b6160b80c0e703cd) 11.0.0 (@davglass)
- [#102](https://github.com/davglass/license-checker/pull/102) Merge pull request #102 from xswordsx/multiple-licenses (@xswordsx)
- [c5c8b0f](https://github.com/davglass/license-checker/commit/c5c8b0f408f2a26259a7b1109f7cc135ed5bf9c4) Check for SPDX-compatible licenses (@xswordsx)

### v10.1.0 (2017/05/25 16:16 +00:00)

- [b52a16d](https://github.com/davglass/license-checker/commit/b52a16d0ba414e7287f82325dd65619cd76afdd1) 10.1.0 (@davglass)
- [f911a99](https://github.com/davglass/license-checker/commit/f911a9919033254945ecbbf69362cb171436688e) contrib & changes (@davglass)
- [#100](https://github.com/davglass/license-checker/pull/100) Suppress JSON properties with custom format (#100) (@tbbstny)
- [ed5b3ab](https://github.com/davglass/license-checker/commit/ed5b3ab50825f0be032958f8233dd3000ee98e85)



changelog (@davglass)

### v10.0.0 (2017/05/17 13:51 +00:00)

- [b2c2283](https://github.com/davglass/license-checker/commit/b2c2283cf5a937e64a07ab200ec2379e481903b6) 10.0.0 (@davglass)
- [a0406ac](https://github.com/davglass/license-checker/commit/a0406ac2c7a0b1037ca31b47e36d316b9c088938) [fixes #96] - do not replace newline, etc in licenses for exporting to json/markdown (@davglass)
- [98a03fa](https://github.com/davglass/license-checker/commit/98a03fa700ef6d038cc2f9104ea5cf17c82a10ad) [fixes #97] - Added a newline to the output file (@davglass)
- [#98](https://github.com/davglass/license-checker/pull/98) Merge pull request #98 from davglass/eslint (@davglass)
- [10fe441](https://github.com/davglass/license-checker/commit/10fe441a2e70e549e57f7da99d2287fc55355500) moved to eslint (@davglass)
- [f82b535](https://github.com/davglass/license-checker/commit/f82b535d3b7f152fa00bb4680e94af18d1c1421d) changelog (@davglass)

### v9.0.3 (2017/04/10 13:42 +00:00)

- [a0fd60f](https://github.com/davglass/license-checker/commit/a0fd60f972b7c84a32117b3dfc1f95bfa2282f27) 9.0.3 (@davglass)
- [#95](https://github.com/davglass/license-checker/pull/95) Merge pull request #95 from abtris/prefix-component (@abtris)
- [3b80272](https://github.com/davglass/license-checker/commit/3b80272a217687c2f0cd7a0c1e98775064d820ff) test: add test for csvComponentPrefix (@abtris)
- [d593554](https://github.com/davglass/license-checker/commit/d593554c1a6b4f7e004e4a23fca88cb7294f8351) feat: add support for csvComponentPrefix (@abtris)
- [5b2eea1](https://github.com/davglass/license-checker/commit/5b2eea12d8c54068a01a2cf1fd9bdeca8c1f0fa2) added contrib (@davglass)

### v9.0.2 (2017/04/05 14:55 +00:00)

- [f24833b](https://github.com/davglass/license-checker/commit/f24833bce846f608ec3d8c327d335da56c42b895) 9.0.2 (@davglass)
- [#94](https://github.com/davglass/license-checker/pull/94) Merge pull request #94 from timbru31/fix-command-exclude (@timbru31)
- [2d08a77](https://github.com/davglass/license-checker/commit/2d08a77030362c7ab03ac12358dd524c0be47eee) contrib & changelog (@davglass)

### v9.0.1 (2017/04/05 13:09 +00:00)

- [9f1a1f3](https://github.com/davglass/license-checker/commit/9f1a1f32194a9bb312858f624e303af1ad4f61ca) 9.0.1 (@davglass)
- [c99f612](https://github.com/davglass/license-checker/commit/c99f612fee22d9eb03db0ad41e7918fbaf6e8ed9) added test for licenseText (@davglass)
- [#93](https://github.com/davglass/license-checker/pull/93) Merge pull request #93 from abtris/licenseText-just-in-customFormat (@abtris)
- [8d7fb2f](https://github.com/davglass/license-checker/commit/8d7fb2f85fc585d8e75ab1459e0b0cef43993ba4) fix: allow escaped commas in exclude string (@timbru31)
- [da4d73c](https://github.com/davglass/license-checker/commit/da4d73c0feb22f50ddbce54364eef5b7bcc7f1a4) test: fix test, remove check from non custom format (@abtris)
- [dcd3b59](https://github.com/davglass/license-checker/commit/dcd3b59bb9457df354fa3095189235b6e030df1a)

feat: add licenseText  
only for customFormat  
- [4e02eca](https://github.com/davglass/license-checker/commit/4e02eca6e8bd332ff6d90e5039cacb50f0df1bf3)  
updated contribs and changelog (@davglass)

### v9.0.0 (2017/04/04 12:26 +00:00)  
- [267c80e](https://github.com/davglass/license-checker/commit/267c80efac89eef70c71a12b8f12b3dc8e6d58dd)  
9.0.0 (@davglass)  
- [057af47](https://github.com/davglass/license-checker/commit/057af47bc52ac526f646ba21496f338689801809)  
added licenseFile assertion to tests (@davglass)  
- [#92](https://github.com/davglass/license-checker/pull/92) Merge pull request #92 from abtris/includeFileContent  
(@abtris)  
- [1cda118](https://github.com/davglass/license-checker/commit/1cda118e1aa18cc391ba2765dcaae89172943a0f)  
fix: replace problematic chars for easy import to Excel (@abtris)  
- [dd6ecab](https://github.com/davglass/license-checker/commit/dd6ecab1a7b1354c4d1d001491f58dbe0f5e3e63)  
feat: add licenseText (@abtris)  
- [6395498](https://github.com/davglass/license-checker/commit/639549890c54a12043244579ad0c0d5972309fb2)  
changes and contrib (@davglass)

### v8.0.4 (2017/02/15 16:21 +00:00)  
- [28d379a](https://github.com/davglass/license-checker/commit/28d379aca51da7a47af324bc6feb63736ea02295)  
8.0.4 (@davglass)  
- [#89](https://github.com/davglass/license-checker/pull/89) Merge pull request #89 from Pawamoy/master  
(@Pawamoy)  
- [#90](https://github.com/davglass/license-checker/pull/90) Merge pull request #90 from drewfish/bsd-source-code  
(@drewfish)  
- [b704bc1](https://github.com/davglass/license-checker/commit/b704bc18a43de246302b8ff6933f8fe5f96ee3a6)  
guess BSD-Source-Code license (@drewfish)  
- [8d31eab](https://github.com/davglass/license-checker/commit/8d31eabfb671d32e6f3e63215d6530d7fb4acc59)  
Add docs about customFormat option (@pawamoy)  
- [2529d31](https://github.com/davglass/license-checker/commit/2529d3118dfae53f1e01056ec99f5c542cb8d63e)  
changes (@davglass)

### v8.0.3 (2016/11/10 17:04 +00:00)  
- [66fd7b5](https://github.com/davglass/license-checker/commit/66fd7b5ad5577cc2c85668a7c6607365c86a2c85)  
8.0.3 (@davglass)  
- [#87](https://github.com/davglass/license-checker/pull/87) Merge pull request #87 from drewfish/guess-cc0  
(@drewfish)  
- [668bbd3](https://github.com/davglass/license-checker/commit/668bbd38fd5148f99c5263f4e0506e04d5e3f8a0)  
guess CC0-1.0, upgraded jshint (@drewfish)

### v8.0.2 (2016/11/09 21:57 +00:00)  
- [0bdedd8](https://github.com/davglass/license-checker/commit/0bdedd8cb990e1f5ffacde1c12cc708185a5b866)  
8.0.2 (@davglass)  
- [ef67bb4](https://github.com/davglass/license-checker/commit/ef67bb454373352343faa49d4dc978a295bd1544)  
updated semver (@davglass)  
- [14b5c85](https://github.com/davglass/license-checker/commit/14b5c851ccbb5c5ce8aa76fb5367857c891d013)  
Changelog (@davglass)

### v8.0.1 (2016/11/09 21:51 +00:00)

- [594871d](https://github.com/davglass/license-checker/commit/594871d6197a030121f940500495e6ca7d82f02c) 8.0.1 (@davglass)
- [c243663](https://github.com/davglass/license-checker/commit/c243663b0ab8a0126251292a57b2c47369a51ebf) added contrib (@davglass)
- [#86](https://github.com/davglass/license-checker/pull/86) Merge pull request #86 from drewfish/copying (@drewfish)
- [380aa26](https://github.com/davglass/license-checker/commit/380aa26799cb527739907484e69c6dae26d5f17a) also support COPYING file (@drewfish)
- [329c367](https://github.com/davglass/license-checker/commit/329c3676d0cd5c5947a53fd205ff23b767b7f882) handling undefined@undefined error better (@davglass)
- [1f93a07](https://github.com/davglass/license-checker/commit/1f93a072632aad0660b63f61c56c3bd2fe109474) changelog (@davglass)

### v8.0.0 (2016/09/09 13:23 +00:00)

- [44c2c48](https://github.com/davglass/license-checker/commit/44c2c48ae177915523fdf89a74474fe0953408bf) 8.0.0 (@davglass)
- [b5f5c6a](https://github.com/davglass/license-checker/commit/b5f5c6ae03a8c60c52fdd308f1721744a4baaa99) [fixes #78] - include notice file if found (@davglass)
- [dfcb6d6](https://github.com/davglass/license-checker/commit/dfcb6d6f4966adc74e065f71e45cbd08ba8fe62ab) changelog (@davglass)
- [99976d0](https://github.com/davglass/license-checker/commit/99976d07980e241384be10341d0305d08de9cea5) 7.1.1 (@davglass)
- [ef857b7](https://github.com/davglass/license-checker/commit/ef857b7e9bab706299a1cc565ec5d144893af424) [fixes #77] fixed readme file name parsing, made it more strict (@davglass)

### v7.1.1 (2016/09/07 19:16 +00:00)

- [28be6d4](https://github.com/davglass/license-checker/commit/28be6d4128a3625cf8ed37ba149e79ed3a41b4fa) changelog (@davglass)

### v7.1.0 (2016/09/07 15:12 +00:00)

- [9f8b7f1](https://github.com/davglass/license-checker/commit/9f8b7f1c367dfe86342ee5f5cc97171bf97281aa) 7.1.0 (@davglass)
- [60fce1a](https://github.com/davglass/license-checker/commit/60fce1a24a4ef5add98a08dd8c8a85870db3f4a6) Fixed order of operations for parsing (@davglass)
- [9d4db11](https://github.com/davglass/license-checker/commit/9d4db112794b8110a1bfe0abfe2d3e63bc812299) Updated changelog (@davglass)

### v7.0.0 (2016/09/06 14:50 +00:00)

- [a3a08da](https://github.com/davglass/license-checker/commit/a3a08da70b680d724045f655e107f36b16b45fea) 7.0.0 (@davglass)
- [b993399](https://github.com/davglass/license-checker/commit/b9933994472162cc9c4292cb42f2900e17a5167f) added contrib (@davglass)
- [d783029](https://github.com/davglass/license-checker/commit/d7830297b053496e45b7145b3cfa5809ac8ab1d1) Fixes #76 - If readme data not found, look for it on disk (@davglass)

- [#75](https://github.com/davglass/license-checker/pull/75) Merge pull request #75 from revov/master (@revov)
- [6204a24](https://github.com/davglass/license-checker/commit/6204a244ee71ae0329b4f2c1ca6cf37713741f32) Fix incorrect example in README (@revov)
- [90e24ac](https://github.com/davglass/license-checker/commit/90e24ac9ad20591d5ac166cc2974034fb997b30a) Added changelog (@davglass)
- [dd768c6](https://github.com/davglass/license-checker/commit/dd768c6c8cbc39b596881a2eca582ad4bb816879) Added contributors (@davglass)

### v6.0.0 (2016/08/26 19:46 +00:00)

- [4bca140](https://github.com/davglass/license-checker/commit/4bca140db752b7b98ad1e261e5ee965d84995741) 6.0.0 (@davglass)
- [889ff17](https://github.com/davglass/license-checker/commit/889ff171aeb01a2180f4c9100ca9ea528a264d81) updating tests (@davglass)
- [ed18801](https://github.com/davglass/license-checker/commit/ed188010351c4afb44db0d32dfa1025de53bf10f) Merge branch 'nodeback' of git://github.com/bengl/license-checker into bengl-nodeback (@davglass)
- [34bb266](https://github.com/davglass/license-checker/commit/34bb26677cd0e25500fa545d4f1e8aef216b8cc7) dropping node 0.10 and adding node 6.0 to travis (@davglass)
- [1d30667](https://github.com/davglass/license-checker/commit/1d306674a7fface2cad31f2bd76d7584c7922bbc) updating tests (@davglass)
- [65d7c73](https://github.com/davglass/license-checker/commit/65d7c73f967111003fcc71ae24a4a5391bd48046) Cleaned up some code (@davglass)
- [f753998](https://github.com/davglass/license-checker/commit/f753998a06cbb5fd9fff6430b3588a3b3cf81339) Merge branch 'master' of git://github.com/amittkSharma/license-checker into amittkSharma-master (@davglass)
- [28e4462](https://github.com/davglass/license-checker/commit/28e4462543724685080c1623dc2dbd57cabb1c30) Added tests and cleaned up linting (@davglass)
- [153857a](https://github.com/davglass/license-checker/commit/153857a251a97d14c883f6479579844b2980b5aa) Publisher Information incorporated.
- [1265cb3](https://github.com/davglass/license-checker/commit/1265cb38d186ab1609dbdfa4124f237f8aa15846) Added ability to output individual license files (@aweber1)
- [49e11d0](https://github.com/davglass/license-checker/commit/49e11d049645d565b7ef6d3c778af54eb13af888) fix tests (@bengl)
- [26ffc6f](https://github.com/davglass/license-checker/commit/26ffc6f63d43c372c9a18f9c0c137608b3d5e4fa) use nodeback/errback (@bengl)

### v5.1.2 (2016/05/04 18:32 +00:00)

- [7101c77](https://github.com/davglass/license-checker/commit/7101c77667ad134fe01f02c298e7df2a4080e311) 5.1.2 (@davglass)
- [#67](https://github.com/davglass/license-checker/pull/67) Merge pull request #67 from graingert/patch-2 (@graingert)
- [a6ee290](https://github.com/davglass/license-checker/commit/a6ee2904eb7fcced220dcfe8548f80ec74fde3a2) Upgrade read-installed (@graingert)
- [42e29c6](https://github.com/davglass/license-checker/commit/42e29c637940959121842762d74921bece5e8d93) migrating tests from vows to mocha (@davglass)

### v5.1.1 (2016/04/14 13:20 +00:00)

- [6ae0334](https://github.com/davglass/license-checker/commit/6ae03348ca8e5835ac732028afdab664a381cfc4) 5.1.1 (@davglass)

- [0720a46](https://github.com/davglass/license-checker/commit/0720a46569f3e12eb398165526944f307e08aad6)  
Fixes #64 - Turn off color for --json/markdown/csv options (@davglass)

### v5.1.0 (2016/03/09 15:50 +00:00)

- [86772d2](https://github.com/davglass/license-checker/commit/86772d202b63d4a4c6729b9a774193ca6ef5cb3f)  
5.1.0 (@davglass)  
- [#61](https://github.com/davglass/license-checker/pull/61) Merge pull request #61 from sgt dck/master (@sgtdck)  
- [6547ac1](https://github.com/davglass/license-checker/commit/6547ac1ded58560c7c4abdfc68fa69d17b81fe1e)  
Removed obsolete d[key].name assignment from tests (@sgtdck)  
- [00b18a6](https://github.com/davglass/license-checker/commit/00b18a6012387e1a4a8284c07bf2d08740e03ddd)  
Added a --relativeLicensePath option to display the license file relatively to the current path. (@sgtdck)  
- [629da20](https://github.com/davglass/license-checker/commit/629da201e0d1170057fd9efe05efcb293d2f1bda)  
Added latest contributors (@davglass)

### v5.0.1 (2016/02/08 15:57 +00:00)

- [33731fc](https://github.com/davglass/license-checker/commit/33731fca482936a7a18fffe3fca2f3cd41e3a625)  
5.0.1 (@davglass)  
- [fe06eae](https://github.com/davglass/license-checker/commit/fe06eae8844d050ad0f80d576a221dd605131de)  
Fixed replace (@davglass)  
- [997914f](https://github.com/davglass/license-checker/commit/997914fd6f94030452d4d9bf549eb156ae8ef7c0) fix  
git+https URLs (@graingert)  
- [#57](https://github.com/davglass/license-checker/pull/57) Merge pull  
request #57 from Damien-Larmine/doc-license-asterisk (@Damien-Larmine)  
- [2adff2d](https://github.com/davglass/license-checker/commit/2adff2da98a5af79479a162e4998eb5892ab31c3)  
Explicit the asterisk in license report (@Damien-Larmine)  
- [b2fc9cf](https://github.com/davglass/license-checker/commit/b2fc9cf2a8eaa008c7593037d046f245a7ce7f25)  
5.0.0 (@davglass)  
- [7f71c53](https://github.com/davglass/license-checker/commit/7f71c53833cf1318ffe84215fcb1291f9ce4fbd5)  
updated contributors (@davglass)

### v5.0.0 (2016/01/22 15:31 +00:00)

- [#55](https://github.com/davglass/license-checker/pull/55) Merge pull request #55 from davglass/devflag  
(@davglass)  
- [ff1d8f2](https://github.com/davglass/license-checker/commit/ff1d8f20d5d7248a4f61e2fc9279fdfea91a6ec6)  
supporting --production and --development flags (@davglass)  
- [#53](https://github.com/davglass/license-checker/pull/53) Merge pull request #53 from  
swashcap/enhancement/#46-verbose-output (@swashcap)  
- [#54](https://github.com/davglass/license-checker/pull/54)  
Merge pull request #54 from davglass/travis-updates (@davglass)  
- [2c80d9d](https://github.com/davglass/license-checker/commit/2c80d9d2dcc59340698630144256096a91e23f22)  
fixing tests in other node versions (@davglass)  
- [78820ac](https://github.com/davglass/license-checker/commit/78820ac33ab8aed74809c8a5f8847705c8b2848e)  
travis config updates (@davglass)  
- [f94263b](https://github.com/davglass/license-checker/commit/f94263b203046e2f53d64997b0261498010eb38d)  
Update documentation for debug use. (@swashcap)  
- [429e44d](https://github.com/davglass/license-checker/commit/429e44d697527221ef22bb03af9d67820015446f)  
Change `console.error` call to use debug module. (@swashcap)  
- [7312daf](https://github.com/davglass/license-checker/commit/7312daf7af195a1b9d1b1f290fae15963fbb2ab4)

Add debug to project. (@swashcap)

### v4.2.0 (2015/10/20 13:44 +00:00)

- [3583d92](https://github.com/davglass/license-checker/commit/3583d925e96fc9f63b3bbf0110b11c8448aed0e7) 4.2.0 (@davglass)
- [981eeda](https://github.com/davglass/license-checker/commit/981eeda898084dea88d54ea29c5bda93c5313fb6) Fixes #49: Default to unknown if licenses null and added ISC support (@davglass)

### v4.1.2 (2015/09/29 13:46 +00:00)

- [ba946dd](https://github.com/davglass/license-checker/commit/ba946dd1065e762c36b27dceccdd9bb7389ad18d4) 4.1.2 (@davglass)
- [#48](https://github.com/davglass/license-checker/pull/48) Merge pull request #48 from CantemoInternal/master (@CantemoInternal)
- [e314a6d](https://github.com/davglass/license-checker/commit/e314a6d1f505d19478c33871640a763fabff6abd) Fix json, csv and markdown output for license-checker (@mattiasa)

### v4.1.1 (2015/09/12 14:39 +00:00)

- [c918314](https://github.com/davglass/license-checker/commit/c918314bfc687b647d1d288bb5857dd1caac1393) 4.1.1 (@davglass)
- [#47](https://github.com/davglass/license-checker/pull/47) Merge pull request #47 from tmpvar/ensure-bin-runs (@tmpvar)
- [a842eca](https://github.com/davglass/license-checker/commit/a842eca4f008c07df3039dcaacd4641d7273625) add missing } (@tmpvar)
- [1d513bb](https://github.com/davglass/license-checker/commit/1d513bb673d726f34286061446f965e46d96170e) ensure bin/license-checker works at a high-level (@tmpvar)

### v4.1.0 (2015/09/09 14:52 +00:00)

- [a4bb437](https://github.com/davglass/license-checker/commit/a4bb437ffa806c0832f877da2de7a107863d0a1f) 4.1.0 (@davglass)
- [ddd317a](https://github.com/davglass/license-checker/commit/ddd317a5a09344f0021812b8dee2f39bbbf07a0) fixed all of the windows line endings (@davglass)
- [11e6487](https://github.com/davglass/license-checker/commit/11e64870484435e1e6f8efb9b0f13e6b2f737a6b) Fix issues caused by merge (@ptusch)
- [313a7ed](https://github.com/davglass/license-checker/commit/313a7edc3dbdf8d50e43ba8da89306d3c89326bc) Merge remote-tracking branch 'remotes/upstream/master' into ft\_custom\_format (@ptusch)
- [1f5e326](https://github.com/davglass/license-checker/commit/1f5e326dbca91fc8a396b9e02efe3eac9fd82a82) added contributors to package.json (@davglass)
- [#45](https://github.com/davglass/license-checker/pull/45) Merge pull request #45 from hufsm/ft\_error\_handling (@hufsm)
- [c806034](https://github.com/davglass/license-checker/commit/c806034ab6feaecf297d0c23afb536b290ba8c81) Remove unused var statement (@ptusch)
- [778b1fa](https://github.com/davglass/license-checker/commit/778b1fa1a9c1be0c816545165020522d2dbf17ef) More tests to fulfill the required % (@ptusch)
- [22257d9](https://github.com/davglass/license-checker/commit/22257d95490765db816578cc48c2b5b62699f1aa) Add tests for licenses (WTFPL) (@ptusch)
- [0fe7561](https://github.com/davglass/license-checker/commit/0fe75611a73970fe9e9e0aab2d4bdee5250435b2) Remove unused filter option (never used) (@ptusch)

- [83caa10](https://github.com/davglass/license-checker/commit/83caa10493a5a05ffba6c0e80b5c03f9cd4f65d6)  
Change license shortcut for WTFPL (@ptusch)
- [3e348db](https://github.com/davglass/license-checker/commit/3e348dbe5feeb7bd356ebef3cd34e69329dbc8c1)  
More tests for the custom formatter (@ptusch)
- [96c2d6f](https://github.com/davglass/license-checker/commit/96c2d6f24c509df2bf3f6bd8b83a613fea8d9ecc)  
Add tests for customFormatter (@ptusch)
- [c9948c4](https://github.com/davglass/license-checker/commit/c9948c4b7b2cccdd053ba63f4fd2a6a6d0a46493)  
Add test configs (@ptusch)
- [4b2dea0](https://github.com/davglass/license-checker/commit/4b2dea0c124f6aba63abd2129625825c3b5a6570)  
Fix merge issues - semicolon slipped through (@ptusch)
- [cc7662a](https://github.com/davglass/license-checker/commit/cc7662a46719c97745410e3ac2b782f937dc54ef)  
Merge branch 'master' into ft\_error\_handling (@ptusch)
- [04a2294](https://github.com/davglass/license-checker/commit/04a2294b82a8227cccb83d76f73cbd7cf62af533)  
Add additional test (@ptusch)
- [52fa91c](https://github.com/davglass/license-checker/commit/52fa91c5cbc345736ebe6e97f400a27a773502d2)  
Add parseJson test (@ptusch)
- [d846c5e](https://github.com/davglass/license-checker/commit/d846c5e6970737dd3085688e7b601e9ea4546417)  
Fix tests after merge conflict (@ptusch)
- [7eac458](https://github.com/davglass/license-checker/commit/7eac458f8003b5bda4ef966768bbb457fe8dc44)  
Merge branch 'master' into ft\_custom\_format (@ptusch)
- [4aa7065](https://github.com/davglass/license-checker/commit/4aa7065c5eef88d49c3684369b2edd9802c3f374)  
Add tests for customFormat (@ptusch)

### v4.0.0 (2015/09/04 13:40 +00:00)

- [3fbba5b](https://github.com/davglass/license-checker/commit/3fbba5bd5a489ea8c17328eabf71c4d5e9beb17e)  
4.0.0 (@davglass)
- [ce8d661](https://github.com/davglass/license-checker/commit/ce8d66108a49af7855c16231ce675c567a2ffe7f)  
tests: added 100% coverage for license file (@davglass)
- [#42](https://github.com/davglass/license-checker/pull/42) Merge pull request #42 from ptusch/ft\_onlyunknown (@ptusch)
- [8929e90](https://github.com/davglass/license-checker/commit/8929e90413be0362f19e755048e9218c372abf68)  
Add tests for the error generation (@ptusch)
- [1a93a41](https://github.com/davglass/license-checker/commit/1a93a41569a53a1580c94c2c903a5bc127ad2692)  
Add error handling (@ptusch)
- [6b79145](https://github.com/davglass/license-checker/commit/6b791457463dca71b22b09eecff16bbf982db682)  
Add additional check to negate the test (@ptusch)
- [559e72c](https://github.com/davglass/license-checker/commit/559e72ccab2420bc42bf28b498702dad13ef967a)  
Add test for the first function call. (@ptusch)
- [faf8ffd](https://github.com/davglass/license-checker/commit/faf8ffd69fd8ae475484a9b47b57a7b6ea738856)  
Remove trivial UNKNOWN check (@ptusch)
- [6fa44ef](https://github.com/davglass/license-checker/commit/6fa44ef8c045ab2b0a1291b45990edf52adfc0e2)  
Merge branch 'master' into ft\_custom\_format (@ptusch)
- [efe23d9](https://github.com/davglass/license-checker/commit/efe23d991cfc40dc6980fbf13461408da822b1f)  
Merge branch 'master' into ft\_onlyunknown (@ptusch)
- [c287959](https://github.com/davglass/license-checker/commit/c2879592858805d7ecd0304a39c5cf079efe6a7c)  
Add option to only show unknown licenses (@ptusch)

[#43](https://github.com/davglass/license-checker/pull/43) Merge pull request #43 from senotrusov/master (@senotrusov)

- [d7a663f](https://github.com/davglass/license-checker/commit/d7a663f9deeb4d7a648a6d2cb9db84d5667ee540) Add test for exclude option. (@senotrusov)
- [45a27de](https://github.com/davglass/license-checker/commit/45a27de02a3c1d57a86e3f8e14b6e335788c23ba) Add option to exclude from the output modules which licenses are in the comma-separated list (@senotrusov)
- [#41](https://github.com/davglass/license-checker/pull/41) Merge pull request #41 from ptusch/ft\_path\_to\_unknown\_dependency (@ptusch)
- [1ff5f22](https://github.com/davglass/license-checker/commit/1ff5f225fd2ba97edfd3ef3f6462981832740c19) Add option to see the path of a dependency if unknown (@ptusch)
- [ea4d629](https://github.com/davglass/license-checker/commit/ea4d6297de32d94201bb4786da7ba824d928c8f2) Add additional 'undefined' checks (@ptusch)
- [af043a2](https://github.com/davglass/license-checker/commit/af043a2c11af45d28bfe71914cd10672855b3297) Merge branch 'master' into ft\_custom\_format (@ptusch)
- [2d94a19](https://github.com/davglass/license-checker/commit/2d94a19ece177836345a4227893a82d956141b2e) updating the docs for --unknown to make it clear (@davglass)
- [38a2bd2](https://github.com/davglass/license-checker/commit/38a2bd28a9597fdb06d844258f1070054b38bbcf) Fix codestyle and whitespaces (@ptusch)
- [dd173ba](https://github.com/davglass/license-checker/commit/dd173badc65368dc614047ffe5ae3768fbf9618) Add --customPath in README.md (@ptusch)
- [911fc1c](https://github.com/davglass/license-checker/commit/911fc1c6b5cc27a32aac60bb409c08be138bc707) Finalize the customFormat (markdown) (@ptusch)
- [8102091](https://github.com/davglass/license-checker/commit/8102091f7949fa8b73cfc803e4aead3624b81148) Add functionality to add a custom format (@ptusch)

### v3.1.0 (2015/06/29 14:25 +00:00)

- [59e1e58](https://github.com/davglass/license-checker/commit/59e1e58ca0bea1cd38e3da1712fe7ca624d860b0) 3.1.0 (@davglass)
- [0e33f7a](https://github.com/davglass/license-checker/commit/0e33f7a2cb9fa69d13d1e2b5c69f70f885e09e08) reformatted code, fixed lint issues and added tests (@davglass)
- [83a7f09](https://github.com/davglass/license-checker/commit/83a7f0933d1cc1f331279e53fcce13e4efface91) Merge branch 'asMarkdown' of git://github.com/ptusch/license-checker into ptusch-asMarkdown (@davglass)
- [703ad47](https://github.com/davglass/license-checker/commit/703ad4714173559e05267e8fd24c74e5b9d3aee0) fixing tests (@davglass)
- [2d9fffd](https://github.com/davglass/license-checker/commit/2d9fffd75192e9812692c9099481d23e265bb493) Added Markdown Option (@ptusch)
- [67dca36](https://github.com/davglass/license-checker/commit/67dca365b941a7265e4a98d2de533b22c761b169) Remove color tags (@ptusch)

### v3.0.3 (2015/06/03 13:35 +00:00)

- [7475c12](https://github.com/davglass/license-checker/commit/7475c129bf291289e4616d9692a962ae537401e8) 3.0.3 (@davglass)
- [c7dae0f](https://github.com/davglass/license-checker/commit/c7dae0fe5317a17b3aef61e8c118fafc6bb43a56) spdx license (@davglass)

### v3.0.2 (2015/05/12 20:29 +00:00)

- [01f3b53](https://github.com/davglass/license-checker/commit/01f3b5384998be6243d38e0d95a4478e5fe3cfa5) 3.0.2 (@davglass)



- [fc0c083](https://github.com/davglass/license-checker/commit/fc0c0832ee291c55e53efe6b37a7b9d89f191bc7)  
defensive code, fixes #34 (@davglass)

### v3.0.1 (2015/05/04 12:28 +00:00)

- [0479570](https://github.com/davglass/license-checker/commit/0479570faf87ecc9b37fbb25afae7faaec6636)  
3.0.1 (@davglass)  
- [d85e355](https://github.com/davglass/license-checker/commit/d85e355b55998952facf202eabf8d374fec69a7e)  
Checking for valid path first (@davglass)

### v3.0.0 (2015/04/24 14:38 +00:00)

- [e22b61d](https://github.com/davglass/license-checker/commit/e22b61d5d32fef7ffb18627f55a97e1863a78096)  
3.0.0 (@davglass)  
- [fde9635](https://github.com/davglass/license-checker/commit/fde963583dd207eca4badffb3e0d033a038f17b5)  
always try to find and log the  
license file (@davglass)

### v2.0.2 (2015/01/26 18:18 +00:00)

- [490f31d](https://github.com/davglass/license-checker/commit/490f31d6820f068814cfe27adf3af1ac6d58f733)  
2.0.2 (@davglass)  
- [a3fefdb](https://github.com/davglass/license-checker/commit/a3fefdb8fafd7ec64714defb793d757a9e8ad065)  
fixes #30 (@davglass)

### v2.0.1 (2015/01/12 18:34 +00:00)

- [898fbd5](https://github.com/davglass/license-checker/commit/898fbd53fa289338cf8a9a1735eea440c2a6c525)  
2.0.1 (@davglass)  
- [2da23db](https://github.com/davglass/license-checker/commit/2da23db2f240e7e73efdf93cc554e4d7783af225)  
cleaned up spacing and moved vars around (@davglass)  
- [d47dbe4](https://github.com/davglass/license-checker/commit/d47dbe45c992dbbdb15bfb45e8af7f18ee0ca737)  
fixes #29 (@davglass)

### v2.0.0 (2014/12/04 16:34 +00:00)

- [f94edfe](https://github.com/davglass/license-checker/commit/f94edfec7a9914b4a36f455e8bffc6230d6f7a5e)  
2.0.0 (@davglass)  
- [f4c7b1a](https://github.com/davglass/license-checker/commit/f4c7b1a3d4e9c0e4753a9b267e51714fe7f7051e)  
syntax cleanup (@davglass)  
- [d189623](https://github.com/davglass/license-checker/commit/d1896234a5649621ee57ff9a901877d769217194)  
Document CLI options in Readme. (@timoxley)  
- [11e204c](https://github.com/davglass/license-checker/commit/11e204c5c078eae1f165fa010da229d2a9fb4b5)  
Default to --no-colour for json, csv & file output. (@timoxley)  
- [7e80d50](https://github.com/davglass/license-checker/commit/7e80d50c733f8ee42c7b4a79dc3344b3dd330cff)  
Add --out flag for writing an output file. (@timoxley)  
- [47bffc9](https://github.com/davglass/license-checker/commit/47bffc9e0e249b2847c8ed4f3eaadb0dcdd731b9)  
Always print to stdout, don't write files. (@timoxley)  
- [b725080](https://github.com/davglass/license-checker/commit/b725080d2dbdfdbf0994867577d4c5e3dc0ee2a)  
Don't print info messages to stdout. (@timoxley)

### v1.0.1 (2014/11/27 15:23 +00:00)

- [e60f792](https://github.com/davglass/license-checker/commit/e60f792159351aa7ccff1f7af73e289afee261a5)

1.0.1 (@davglass)

-

[3f74178](https://github.com/davglass/license-checker/commit/3f7417822dc8804978d1bae4ed84190d327df15c)  
Merge branch 'fixinfiniterecursion' of github.com:yzapuchlak/license-checker into yzapuchlak-fixinfiniterecursion (@davglass)

- [dc78ea0](https://github.com/davglass/license-checker/commit/dc78ea0dca546283440c89fec2dc6818dc4cc1c1)  
sticking vows 0.8.0 for testing (@davglass)

- [bd549b3](https://github.com/davglass/license-checker/commit/bd549b3b68e74fddd0e08dac10d5f88a8bb51ca6)  
Fixed issue where circular dependencies in dependency tree would cause the flatten function to infinitely recurse. If the current key is found to be already in the data object (which means it was already processed), we stop processing that key and return the data object. (@yzapuchlak)

### v1.0.0 (2014/11/21 13:56 +00:00)

- [917193d](https://github.com/davglass/license-checker/commit/917193dab27147534976b71307a77f48198ca322)

1.0.0 (@davglass)

- [63e5f9c](https://github.com/davglass/license-checker/commit/63e5f9c77e348720b3867171bcc67541e846d088)  
added options.filter to checker.init (@davglass)

### v0.1.2 (2014/11/20 15:48 +00:00)

- [8e5f5f0](https://github.com/davglass/license-checker/commit/8e5f5f0e7f83252e4039f6c7d16cc266acc1a33a)

0.1.2 (@davglass)

- [3d7a74e](https://github.com/davglass/license-checker/commit/3d7a74e90122f908057b2008ab29d8bd49011291)  
fixed lint issue (@davglass)

### v0.1.1 (2014/11/20 15:47 +00:00)

- [750d507](https://github.com/davglass/license-checker/commit/750d5079d32b44ecc984ff7ed672498d1b197235)

0.1.1 (@davglass)

- [94522e0](https://github.com/davglass/license-checker/commit/94522e099434dfdf163c3f2c5cacb3e6aa196cf8)  
fixed merge issues (@davglass)

### v0.1.0 (2014/11/20 15:41 +00:00)

- [8127f5e](https://github.com/davglass/license-checker/commit/8127f5e79eeceb7dfd86cd5f694080e4183dcb11)

0.1.0 (@davglass)

- [76c71ac](https://github.com/davglass/license-checker/commit/76c71ac46baeca8c349fe5892dcb659e859b9608)  
Updated to newer read-installed (@davglass)

###

v0.0.10 (2014/08/12 12:48 +00:00)

- [807507d](https://github.com/davglass/license-checker/commit/807507df1a293bc0360adffd725a9f911331ff2b)

0.0.10 (@davglass)

- [e39ad9b](https://github.com/davglass/license-checker/commit/e39ad9bce6bcd545772c241e2e7aba8f40d5bbbb)  
Added checking that the license file is a normal file, because otherwise an appropriately named directory crashes the license-checker through EISDIR, illegal operation on a directory.

- [40ca4da](https://github.com/davglass/license-checker/commit/40ca4dadbc163ca774c87b1de249bd295952faa9)  
colorize (@couchand)

### v0.0.9 (2014/07/29 01:48 +00:00)

- [c14ef79](https://github.com/davglass/license-checker/commit/c14ef79f10f950ff0985e7e0b3138147b98ab1ec)

0.0.9 (@davglass)

- [ba1b66b](https://github.com/davglass/license-checker/commit/ba1b66b6172a2f9f8dbcd56f40206820bc0916b) Fixes #12 - Using some nicer regexes (@davglass)
- [bce94d5](https://github.com/davglass/license-checker/commit/bce94d5a8ab2f146356851776b2543df65fbf750) case insensitive check (@davglass)
- [87c3406](https://github.com/davglass/license-checker/commit/87c3406aee2507eaf1d00d592f6dcb59a16e7c48) Allow for LICENCE (@gdw2)

### v0.0.8 (2014/07/07 20:10 +00:00)

- [6ad6ee2](https://github.com/davglass/license-checker/commit/6ad6ee21813e698e7f995e98dcadafbd961f6a33) 0.0.8 (@davglass)
- [b8c5815](https://github.com/davglass/license-checker/commit/b8c58151135f57d91fb0d1cfb194d034c012073f) added tests and refactored the code a little (@davglass)
- [275f276](https://github.com/davglass/license-checker/commit/275f276dc6e6d5635f9cb5b7e9a978e286f2d174) Added --csv option to readme file
- [d91eb72](https://github.com/davglass/license-checker/commit/d91eb7289466853ae6e88448b953b4d3d98ebab5) Apparently abbrev is now at version 1.0.5 which caused the unit test to fail.
- [40b4a42](https://github.com/davglass/license-checker/commit/40b4a420e520c2008b9395d1a8fdf38b56f846f5) Modified changes based on lshint output during Travis build
- [54e2390](https://github.com/davglass/license-checker/commit/54e2390cefd1dc664a15cd3a84347227f889f48b) Added csv output option similar to the existing JSON output option. Requires an output filename.

### v0.0.7 (2014/02/26 04:52 +00:00)

- [1ce6d42](https://github.com/davglass/license-checker/commit/1ce6d42147b2d0237870818e8059003b331816cf) 0.0.7 (@davglass)
- [7d04195](https://github.com/davglass/license-checker/commit/7d041959450c68b3c5f427007c43cd6c73c6adfb) Added not check and a proper test (@davglass)
- [40d6e25](https://github.com/davglass/license-checker/commit/40d6e2580946c3cee1d408ebe28ff523852e8eb2) Undefined handling (@garrows)
- [90217d0](https://github.com/davglass/license-checker/commit/90217d070fd62cf76eb4e7b1610ed5eef6ae840d) travis Stuff (@davglass)
- [2bd76c8](https://github.com/davglass/license-checker/commit/2bd76c894f740cd83f6246e0e7341832c6432d8b) 0.0.6 (@davglass)
- [6f390ff](https://github.com/davglass/license-checker/commit/6f390fff60b31a07939e6d325796bdcfbefb5907) Added some better tests (@davglass)
- [2dbcac3](https://github.com/davglass/license-checker/commit/2dbcac37b5795ceb6db53452d0e41d1c4bc3153f) Looking for WTFPL as well as the string (@davglass)
- [5d91a07](https://github.com/davglass/license-checker/commit/5d91a073a8b76ec9a497c1e3b83198ce97e144fd) Flattened array of one (@davglass)
- [e95da82](https://github.com/davglass/license-checker/commit/e95da820c63e0d56c4567f1cfad07142d3110eca) Fixed extra var (@davglass)
- [fe8f2f7](https://github.com/davglass/license-checker/commit/fe8f2f7d39d520c0c4d87d34c9d4f55d59f4222d) Removing unnecessary log statement (@paulmand31)
- [72a6f24](https://github.com/davglass/license-checker/commit/72a6f2403de43ecf5ec07bb504cb931c0e53f6a3) Adding license checks in the LICENSE file (and variations) (@paulmand31)
- [#7](https://github.com/davglass/license-checker/pull/7) Merge pull request #7 from jamesbloomer/master

(@jamesbloomer)  
- [a81eee0](https://github.com/davglass/license-checker/commit/a81eee0a27f580688e371cc15015e848f591bb92)  
Fixed missing "install" in npm -g (@jamesbloomer)  
- [416b012](https://github.com/davglass/license-checker/commit/416b01219e07a8274e05cd883ec050376902adeb)  
Updated Version (@davglass)  
- [6d9bd1e](https://github.com/davglass/license-checker/commit/6d9bd1e195202c871693d4b1e9bac8c055683e8b)  
Fixed lint issue and added a test placeholder. Will add more tests soon (@davglass)  
- [655a316](https://github.com/davglass/license-checker/commit/655a316f6448daf3c449f8b88e8878a95a8b153e)  
Added Travis test file (@davglass)  
- [99895df](https://github.com/davglass/license-checker/commit/99895df6d3ac0f9ae4e8c935311fb1b3f88a688e)  
Version Bump (@davglass)  
- [#4](https://github.com/davglass/license-checker/pull/4) Merge pull request #4 from badunk/refactor (@badunk)  
- [1123a1b](https://github.com/davglass/license-checker/commit/1123a1baefc1975f8c36cb59952254cd66c31017)  
Merge branch 'master' of https://github.com/davglass/license-checker (@badunk)  
- [191612e](https://github.com/davglass/license-checker/commit/191612e5c21a01bd453368299a14cc5ff1c6fb13)  
Version Bump (@davglass)  
- [#2](https://github.com/davglass/license-checker/pull/2) Merge pull request #2 from badunk/circular (@badunk)  
- [9b5a117](https://github.com/davglass/license-checker/commit/9b5a1175892254e96d72f3d8dc793dcc4e2bde37)  
fixed special case when an empty array is passed to license/licenses (@badunk)  
- [025668b](https://github.com/davglass/license-checker/commit/025668b0a62b0d5b58662ce6aeed91de909a6fef)  
fixed bug with multiple licenses objects not showing (@badunk)  
- [e6bdf52](https://github.com/davglass/license-checker/commit/e6bdf52a8e5f9ebd29982014fa4d4586f63d06a)  
cleaned up the code (@badunk)  
- [efb62f2](https://github.com/davglass/license-checker/commit/efb62f2f52a29e9a37a7f387b280fc17ab0a5f19)  
added check for circular dependencies (@badunk)  
- [825b40c](https://github.com/davglass/license-checker/commit/825b40cb61fee36dd60751daa9d44e28853587ac)  
Version Bump (@davglass)  
- [#1](https://github.com/davglass/license-checker/pull/1)  
Merge pull request #1 from mwilliamson/master (@mwilliamson)  
- [2f24319](https://github.com/davglass/license-checker/commit/2f24319dd8dd212a1f78ad91af7fee21d50ab762)  
Don't ignore license field if it's a string (@mwilliamson)  
- [7b8c34f](https://github.com/davglass/license-checker/commit/7b8c34f75b04a7541bf23d596bbaae5447492c53)  
Initial Commit (@davglass)  
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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That's all there is to it!

/\*

\* SpanDSP - a series of DSP components for telephony

\*

\* g711.h - In line A-law and u-law conversion routines

\*

\* Written by Steve Underwood <steveu@coppice.org>

\*

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Contains code from <https://github.com/mozilla/language-mapping-list>

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Changes:

- Rings created from the reference rectangle file.
- `earthcloudmapcolortrans.png` was made from the `earthcloudmapspec.jpg` file

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\* SpanDSP - a series of DSP components for telephony

\*

\* g722\_decode.c - The ITU G.722 codec, decode part.

\*

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\*

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dynamic\_annotations

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Following

applies to:

- ./test/mapstaticmethods.cpp
- ./test/schur\_real.cpp
- ./test/prec\_inverse\_4x4.cpp
- ./test/smallvectors.cpp
- ./test/redux.cpp
- ./test/special\_numbers.cpp
- ./test/adjoint.cpp
- ./test/resize.cpp
- ./test/mixingtypes.cpp
- ./test/product\_trmv.cpp
- ./test/sparse\_solvers.cpp
- ./test/cholesky.cpp
- ./test/geo\_quaternion.cpp
- ./test/miscmatrices.cpp
- ./test/stddeque.cpp
- ./test/integer\_types.cpp
- ./test/product\_large.cpp
- ./test/eigensolver\_generic.cpp
- ./test/householder.cpp
- ./test/geo\_orthomethods.cpp
- ./test/array\_for\_matrix.cpp
- ./test/sparseLM.cpp
- ./test/upperbidiagonalization.cpp
- ./test/nomalloc.cpp
- ./test/packetmath.cpp
- ./test/jacobisvd.cpp
- ./test/geo\_transformations.cpp
- ./test/swap.cpp
- ./test/eigensolver\_selfadjoint.cpp

./test/inverse.cpp  
./test/product\_selfadjoint.cpp  
./test/product\_trsolve.cpp  
./test/product\_extra.cpp  
./test/sparse\_solver.h  
./test/mapstride.cpp  
./test/mapped\_matrix.cpp  
./test/geo\_eulerangles.cpp  
./test/eigen2support.cpp  
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./blas/level3\_impl.h  
./blas/single.cpp  
./blas/level2\_cplx\_impl.h  
./blas/PackedSelfadjointProduct.h  
./blas/Rank2Update.h  
./blas/complex\_single.cpp  
./blas/PackedTriangularSolverVector.h  
./blas/double.cpp  
./blas/common.h  
./blas/level2\_impl.h  
./blas/GeneralRank1Update.h

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./Eigen/src/Core/products/SelfadjointMatrixMatrix\_MKL.h  
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to:

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`./test/sparselu.cpp`

`./unsupported/test/mpreal/mpreal.h`

`./unsupported/Eigen/src/IterativeSolvers/IterationController.h`

`./unsupported/Eigen/src/IterativeSolvers/ConstrainedConjGrad.h`

`./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h`

`./Eigen/src/OrderingMethods/Amd.h`

`./Eigen/src/SparseCholesky/SimplicialCholesky_impl.h`

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`./unsupported/Eigen/src/LevenbergMarquardt/LMcovar.h`  
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| Ext headers      | include/GL/glxt.h<br>include/GL/glxt.h | SGI           | SGI Free B       |
| GLUT             | src/glut/                              | Mark Kilgard  | Mark's copyright |
| GLEW             | src/glew-1.13.0                        | Nigel Stewart | Modified BSD     |
| Mesa GLU library | src/glu/mesa/                          | Brian Paul    | GNU-LGPL         |
| SGI GLU library  | src/glu/sgi/                           | SGI           | SGI Free B       |
| demo programs    | progs/demos/                           | various       | see source files |
| X demos          | progs/xdemos/                          | Brian Paul    | see source files |
| SGI demos        | progs/samples/                         | SGI           | SGI copyright    |
| RedBook demos    | progs/redbook/                         | SGI           | SGI copyright    |

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Version 2, June 1991

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javascript/jquery/v2\_0\_1

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javascript/tracing\_framework

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java\_src/android\_libs/protobuf\_nano/v2

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jpeg

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(extracted from src/README)

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libogg

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libunwind

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libvorbis

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libxcb

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libxml

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Libxml2, an XML C Parser

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mongoose

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openctm



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utf

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xmpmeta

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jsoncpp

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"Devices" shall mean hardware devices or products that 1) are manufactured and/or distributed by the Licensee or its Affiliates or Contractors in connection with the Program, and (2)(i) incorporate or integrate the Redistributables or parts thereof; or (ii) do not incorporate or integrate the Redistributables at the time of distribution, but where, when used by a Customer, the main user interface or substantial functionality of such device is provided by Application(s) or otherwise depends on the Licensed Software.

"Distribution License(s)" shall mean the license required for distribution of Redistributables in accordance with the license grant described in Section 3.2(ii)-(iii) of this Agreement.



"Distribution License Packs" shall mean set of prepaid Distribution Licenses for distribution of Redistributables, as defined in The Qt Company's standard price list, quote, Purchase Order confirmation or in an appendix hereto, as the case may be.

"Initial Support Term" shall mean a time period of twelve (12) months, calculated from the effective date of this Agreement.

"Intellectual Property Rights" shall mean patents (including utility models), design patents, and designs (whether or not capable of registration), chip topography rights and other like protection, copyrights, trademarks, service marks, trade names, logos or other words or symbols and any other form of statutory protection of any kind and applications for any of the foregoing as well as any trade secrets.

"Licensee" shall mean the individual or legal entity that is party to this Agreement, as identified on the signature page hereof.

"License Certificate" shall mean a certificate accompanying the Licensed Software and generated for each Designated User respectively. License Certificate will specify the Designated User, the Development Platforms, Deployment Platforms, Program and the Term of this Agreement. The terms of the License Certificate are considered part of this Agreement and shall be updated from time to time to reflect any changes to the foregoing terms relating to Licensee's rights to the Licensed Software.

"Licensee's Records" shall mean books and records that are likely to contain information bearing on Licensee's compliance with this Agreement or the payments due to The Qt Company under this Agreement, including, but not limited to: assembly logs, sales records and distribution records.

"Licensees SDK Contractors" shall mean Contractors of Licensee, who have purchased or received SDK from the Licensee relating to the Program.

"License Fee" shall mean the fee charged to the Licensee for rights granted under the terms of this Agreement.

"Licensed Software" shall mean all versions of The Qt Company's computer software products, online or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation, licensed to the Licensee under this Agreement. Licensed Software does not include Third Party Software (as defined in Section 4) or Open Source Qt.

"Modified Software" shall mean bug-fixes, error corrections, patches or modifications made to the Licensed Software by Licensee, including documentation related thereto.

"Online Services" shall mean any services or access to systems made available by The Qt Company to the Licensee over the Internet relating to the Licensed Software or

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"Open Source Qt" shall mean all versions of The Qt Company's Qt computer software products, online or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation available under the terms of the GNU Lesser General Public License, version 2.1 or later ("LGPL") or the GNU General Public License, version 2.0 or later ("GPL").

"Party" or "Parties" shall mean Licensee and/or The Qt Company.

"Program" shall mean Licensee's business program for which purpose the Licensee is entitled to use the Licensed Software and grant the Licensee's SDK Contractors a right to use the Licensed Software as part of a SDK.

"Redistributables" shall mean the portions of the Licensed Software set forth in Appendix 1, Section 1 that may be distributed pursuant to the terms of this Agreement in object code form only, including any relevant documentation. Where relevant, any reference to Licensed Software in this Agreement shall include and refer also to Redistributables.

"SDK" or "Software Development Kit" shall mean a combination of software modules including Licensed Software intended to be utilized in connection with the Program.

"Submitted Modified Software" shall have the meaning as set forth in Section 2.3.

"Support" shall mean standard developer support that is provided by The Qt Company to assist Designated Users in using the Licensed Software in accordance with The Qt Company's standard support terms.

"Support Renewal Term" shall mean a time period of twelve (12) months, calculated from the end of the Initial Support Term or previous Support Renewal Term, as applicable.

"Support Term" shall mean the Initial Support Term and any possible Support Renewal Terms(s) during which time the Licensee is eligible to receive for Support for the Licensed Software.

"Taxes" shall have the meaning set forth in Section 10.5.

"Term" shall mean the validity period of this Agreement, as set forth in the License Certificate.

The Qt Company shall mean:

(i) in the event Licensee is an individual residing in the United States or a legal entity incorporated in the United States or having its headquarters in the United States, The Qt Company Inc., a Delaware corporation with its office at 2350 Mission College Blvd., Suite 1020, Santa Clara, CA 95054, USA.; or

(ii) in the event the Licensee is an individual residing outside of the United States or a legal entity incorporated outside of the United States or having its registered office outside of the United States, The Qt Company Ltd., a Finnish company with its registered office at Bertel Jungin aukio D3A, 02600 Espoo, Finland.

"Updates" shall mean a release or version of the Licensed Software containing bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for Support. Updates are generally depicted as a change to the digits following the decimal in the Licensed Software version number. The Qt Company shall make Updates available to the Licensee under the Support. Updates shall be considered as part of the Licensed Software hereunder.

"Upgrades" shall mean a release or version of the Licensed Software containing enhancements and new features and are generally depicted as a change to the first digit of the Licensed Software version number. In the event Upgrades are provided to the Licensee under this Agreement, they shall be considered as part of the Licensed Software hereunder.

## 2. OWNERSHIP 2.1

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All the Licensee's Intellectual Property Rights are and shall remain the

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### 2.3 Modified Software

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To the extent Licensee submits Modified Software to The Qt Company ("Submitted Modified Software"), Licensee hereby grants The Qt Company a sublicensable, assignable, irrevocable, perpetual, worldwide, non-exclusive, royalty-free and fully paid-up license, under all of Licensee's Intellectual Property Rights, to reproduce, adapt, translate, modify, and prepare derivative works of, publicly display, publicly perform, sublicense, make available and distribute such Submitted Modified Software as The Qt Company sees fit at its free and absolute discretion. For the sake of clarity, the Licensee shall have no obligation to provide Modified Software to The Qt Company.

## 3. LICENSES GRANTED

### 3.1 Development with Licensed Software

Subject to the terms of this Agreement, The Qt Company grants to Licensee a personal, worldwide, non-exclusive, non-transferable license, valid for the Term, to use, modify and copy the Licensed Software by Designated Users on the Development Platforms for the sole purposes of designing, developing, demonstrating and testing Application(s) and/or Devices, and to provide thereto related support and other services to end-user Customers.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that (i) only the Designated Users may use the Licensed Software, and (ii) all Designated Users must have a valid Development License to use Licensed Software.

Licensee may at any time designate another Designated User to replace a

then-current Designated User by notifying The Qt Company in writing, provided that any Designated User may be replaced only once during any six-month period.

### 3.2 Distribution of Redistributables

Subject to the terms of this Agreement, The Qt Company grants to Licensee a personal, worldwide, non-exclusive, non-transferable license, valid for the Term, to (i) distribute, by itself or through its Contractors, Redistributables as installed, incorporated or integrated into Applications for execution on the Deployment Platforms, and (ii) distribute, by itself or through one or more tiers of Contractors, Redistributables as installed, incorporated or integrated, or intended to be installed, incorporated or integrated into Devices for execution on the Deployment Platforms, and (iii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Applications and/or Devices for their respective intended purposes.

Right to distribute the Redistributables as provided herein is conditional upon the Licensee having purchased and paid the appropriate amount of Development and Distribution Licenses from The Qt Company before distributing any Redistributables to Customers.

For

the avoidance of any doubt it is specifically acknowledged and agreed that distribution of Redistributables solely as installed, incorporated or integrated into Applications for execution on the Deployment Platform(s), as specified in (i) of the first paragraph of Section 3.2 above, i.e. with no connection to Devices or intention to use in connection therewith, shall not require a Distribution License.

### 3.3 SDK License

The Qt Company grants to Licensee a personal, worldwide, non-exclusive, non-transferable license, valid for the Term, to (i) distribute Licensed Software as a part of the SDK to Licensees SDK Contractors in connection with the Program and (ii) in connection with the Program, by itself or by Licensee's SDK Contractors, combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt, provided, however, that:

(i) the Licensees SDK Contractors are only entitled to use the Licensed Software as part of SDK and for the sole purpose of developing software for Devices that are distributed under the Program; and

(ii) Licensees SDK Contractors shall not be entitled to distribute the SDK or any part thereof to any third parties.

For the avoidance of any doubt, the distribution of such software development tools that do not contain Licensed Software shall not be covered by this Agreement.

### 3.4 Further Requirements

The licenses granted above in this Section 3 by The Qt Company to Licensee are conditional and subject to Licensee's compliance with the following terms:

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- (iii) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);
- (iv) Applications and SDKs must not compete with the Licensed Software;
- (v) Licensee shall not use The Qt Company's or any of its suppliers' names, logos, or trademarks to market Applications or SDKs, except that Licensee may use "Built with Qt" logo to indicate that Application(s) was developed using the Licensed Software;
- (vi) Except as expressly provided in Section 3.3, Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that Licensee may appoint employee(s) of Contractors as Designated Users to use Licensed Software pursuant to this Agreement);
- (vii) Licensee shall not grant the Customers a right to (i) make copies of the Redistributables except when and to the extent required to use the Applications and/or Devices for their intended purpose, (ii) modify the Redistributables or create derivative works thereof, (iii) decompile, disassemble or otherwise reverse engineer Redistributables, or (iv) redistribute any copy or portion of the Redistributables to any third party, except as part of the onward sale of the Device on which the Redistributables are installed;
- (viii) Except as expressly provided in Section 3.3, Licensee shall not and shall cause that its Affiliates, Contractors and Licensee's SDK Contractors shall not a) in any way, combine, incorporate or integrate Licensed Software

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(ix) Licensee shall cause all of its Affiliates and Contractors entitled to make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);

(x) Except when and to the extent explicitly provided in this Section 3, Licensee shall not transfer, publish, disclose, display or otherwise make available the Licensed Software;

(xi) Licensee shall not take any action inconsistent with The Qt Company's Intellectual Property Rights; and

(xii) Attempt or enlist a third party to conduct or attempt to conduct any of the above.

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delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third Party Software is in all respects subject to applicable license terms of applicable third party right holders.

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The Licensed Software may contain pre-release code and functionality marked or otherwise stated as "Technology Preview", "Alpha", "Beta" or similar designation. Such pre-release code may be present in order to provide experimental support for new platforms or preliminary versions of one or more new functionalities. The pre-release code may not be at the level of performance and compatibility of a final, generally available, product offering of the Licensed Software.

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## 7. INDEMNIFICATION AND LIMITATION OF LIABILITY



## 7.1 Limitation of Liability

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, (II) LICENSEE'S DUTY TO PAY ALL APPLICABLE LICENSE FEES AND COMPENSATIONS, AND (III) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, (II) LICENSEE'S DUTY TO PAY ALL APPLICABLE LICENSE FEES AND COMPENSATIONS, AND (III) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES RECEIVED BY THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

## 7.2 Licensees Indemnification

Licensee shall indemnify and hold harmless The Qt Company from and against any claim, injury, judgment, settlement, loss or expense, including attorneys' fees related to: (a) Licensee's misrepresentation in connection with The Qt Company or the Licensed Software or breach of this Agreement, (b) the Application or Device (except where such cause of liability is solely attributable to the Licensed Software).

## 8. SUPPORT, UPDATES AND ONLINE SERVICES

Licensee will be eligible to receive Support and Updates and to use the Online Services during the Support Term. Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

Licenses granted under this Agreement shall include a prepaid Initial Support Term.

### Initial

Support Term shall be automatically extended to one or more Support Renewal Term(s), unless and until either Party notifies the other Party in writing that it does not wish to continue the Support, such notification to be

provided to the other Party no less than ninety (90) days before expiry of the Initial Support Term or respective Support Renewal Term. During any such Support Renewal Term Support shall be available subject to prices and terms agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard pricing applicable at the commencement date of any such Support Renewal Term. From time to time The Qt Company may change Support provided within each Support plan; provided that during the respective Initial Support Term or Support Renewal Term (as the case may be), the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to the Customers.

## 9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose,

in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

## 10. FEES, DELIVERY AND PAYMENT

### 10.1 License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be. The License

Fees shall not be refunded or claimed as a credit, even on the ground that Distribution Licenses are not used, i.e. Redistributables are not actually distributed corresponding to the Distribution Licenses purchased, or for any other reason.

### 10.2 Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

### 10.3 Distribution

License Packs Unless otherwise agreed, the Distribution Licenses are bought by way of Distribution License Packs.

Upon due payment of the ordered

Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for installing, bundling or integrating (all jointly "installing") the Redistributables with the Devices or for otherwise distributing the Redistributables in accordance with this Agreement.

Each time Licensee "installs" or distributes a copy of Redistributables, then

one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may "install" copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

Redistributables will be deemed to have been "installed" into a Device when one of the following circumstances shall have occurred: a) the Redistributables have been loaded onto the Device and used outside of the Licensee's premises or b) the Device has been fully tested and placed into Licensee's inventory (or sold) for the first time (i.e., Licensee will not be required to use (or pay for) more than one Distribution License for each individual Device, e.g. in a situation where a Device is returned to Licensee's inventory after delivery to a distributor or sale to a Customer). In addition, if Licensee includes a back-up copy of the Redistributables on a CD-ROM or other storage medium along with the product, that backup copy of the Redistributables will not be deemed to have been "installed" and will not require an additional Distribution License.

#### 10.4 Payment Terms

License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee. A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

The Qt Company shall have the right to suspend, terminate or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Developer License, Distribution License, and Support, should Licensee fail to make payment in a timely fashion.

#### 10.5 Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax and other taxes, duties or tariffs ("Taxes"). Such applicable Taxes shall be paid by Licensee, or, where applicable, in lieu of payment of such Taxes, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

### 11 RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

#### 11.1 Licensee's Record-keeping

Licensee shall at all times maintain accurate and up-to-date written records of Licensee's activities related to the use of Licensed Software and distribution of Redistributables. The records shall be adequate to determine Licensee's compliance

with the provisions of this Agreement and to demonstrate the number of Designated Users and Redistributables distributed by Licensee. The records shall conform to good accounting practices reasonably acceptable to The Qt Company.

Licensee shall, within thirty (30) days from the end of each calendar quarter, deliver to The Qt Company a report detailing the number of Designated Users and copies of Redistributables distributed by Licensee during that calendar quarter, and also detailing the number of undistributed copies of Redistributables made by Licensee and remaining in its account (i.e., undistributed copies for which Distribution Licenses have been or need to be obtained from The Qt Company). Such report shall contain such other information as The Qt Company shall reasonably require from time to time.

#### 11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its

expense, audit Licensee with respect to the use of the Redistributables, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to immediately pay The Qt Company any amounts owed for such unauthorized use.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (underpayment of more than 5% of License Fees shall always be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

## 12 TERM AND TERMINATION

### 12.1 Term

This Agreement shall enter into force upon due acceptance by both Parties and

remain in force for the Term, unless and until terminated pursuant to the terms of this Section 12.

#### 12.2 Termination by The Qt Company

The Qt Company shall have the right to terminate this Agreement upon thirty (30) days prior written notice if (i) the Licensee is in material breach of any obligation of this Agreement and fails to remedy such breach within such notice period; (ii) or Licensee or any of its Affiliates bring a suit before any court or administrative agency or otherwise assert a claim against The Qt Company's or any of its Affiliates' Intellectual Property Rights or validity thereof.

#### 12.3 Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

#### 12.4 Parties Rights and Duties upon Termination

Upon expiry or termination of the Agreement for any reason, Licensee shall, within 30 days after such termination, cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') and Licensee's SDK Contractors to cease using the Licensed Software and distribution of the Redistributables under this Agreement. Notwithstanding the above, in the event the Agreement expires or is terminated for reason other than by The Qt Company pursuant to Section 12.2, the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of

Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

### 13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude

parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted

in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

### 14. GENERAL PROVISIONS

#### 14.1 No Assignment Licensee

shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

#### 14.2 No Third Party Representations

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#### 14.3 Surviving Sections

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Mesa 3-D graphics library

Version: 7.0

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```

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# debug

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A tiny JavaScript debugging utility modelled after Node.js core's debugging technique. Works in Node.js and web browsers.

## ## Installation

```
```bash
$ npm install debug
```
```

## ## Usage

`debug`` exposes a function; simply pass this function the name of your module, and it will return a decorated version of `console.error`` for you to pass debug statements to. This will allow you to toggle the debug output for different parts of your module as well as the module as a whole.

Example [`_app.js_`](./examples/node/app.js):

```
```js
var debug = require('debug')('http')
, http = require('http')
, name = 'My App';

// fake app

debug('booting %o', name);

http.createServer(function(req, res){
  debug(req.method + ' ' + req.url);
  res.end('hello\n');
}).listen(3000, function(){
  debug('listening');
});

// fake worker of some kind

require('./worker');
```
```

Example [`_worker.js_`](./examples/node/worker.js):

```
```js
var a = require('debug')('worker:a')
, b = require('debug')('worker:b');
```

```

function work() {
  a('doing lots of uninteresting work');
  setTimeout(work, Math.random() * 1000);
}

work();

function workb() {
  b('doing some work');
  setTimeout(workb, Math.random() * 2000);
}

workb();
...

```

The `DEBUG` environment variable is then used to enable these based on space or comma-delimited names.

Here  
are some examples:

```





```

#### Windows command prompt notes

##### CMD

On Windows the environment variable is set using the `set` command.

```

``cmd
set DEBUG=*,-not_this
``

```

Example:

```

``cmd
set DEBUG=* & node app.js
``

```

##### PowerShell (VS Code default)

PowerShell uses different syntax to set environment variables.

```
```cmd
$env:DEBUG = "*,-not_this"
```
```

Example:

```
```cmd
$env:DEBUG='app';node app.js
```
```

Then, run the program to be debugged as usual.

npm script example:

```
```js
"windowsDebug":
"@powershell -Command $env:DEBUG='*';node app.js",
```
```

## ## Namespace Colors

Every debug instance has a color generated for it based on its namespace name. This helps when visually parsing the debug output to identify which debug instance a debug line belongs to.

### #### Node.js

In Node.js, colors are enabled when stderr is a TTY. You also should install the `[ supports-color ]`(<https://npmjs.org/supports-color>) module alongside debug, otherwise debug will only use a small handful of basic colors.



### #### Web Browser

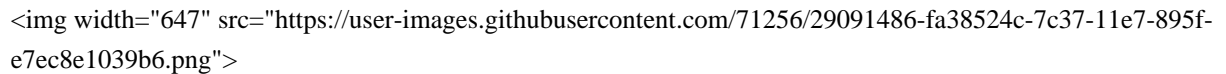
Colors are also enabled on "Web Inspectors" that understand the ``%c`` formatting option. These are WebKit web inspectors, Firefox ([since version 31](<https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/>)) and the Firebug plugin for Firefox (any version).



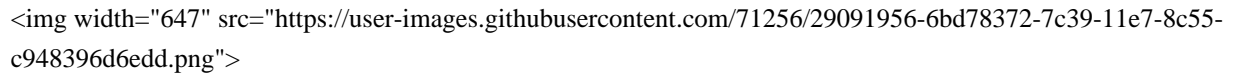
## ## Millisecond diff

When actively developing an application it can be useful to see when the time spent between one ``debug()`` call and

the next. Suppose for example you invoke ``debug()`` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.



When stdout is not a TTY, ``Date#toISOString()`` is used, making it more useful for logging the debug information as shown below:



## ## Conventions

If you're using this in one or more of your libraries, you should use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you should prefix them with your library name and use ":" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser". If you append a "\*" to the end of your name, it will always be enabled regardless of the setting of the DEBUG environment variable. You can then use it for normal output as well as debug output.

## ## Wildcards

The ``*`` character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with ``DEBUG=connect:bodyParser,connect:compress,connect:session``, you may simply do ``DEBUG=connect:*``, or to run everything using this module simply use ``DEBUG=*``.

You can also exclude specific debuggers by prefixing them with a "-" character. For example, ``DEBUG=*,-connect:*`` would include all debuggers except those starting with "connect:".

## ## Environment Variables

When running through Node.js, you can set a few environment variables that will change the behavior of the debug logging:

| Name                             | Purpose                                           |
|----------------------------------|---------------------------------------------------|
| <code>`DEBUG`</code>             | Enables/disables specific debugging namespaces.   |
| <code>`DEBUG_HIDE_DATE`</code>   | Hide date from debug output (non-TTY).            |
| <code>`DEBUG_COLORS`</code>      | Whether or not to use colors in the debug output. |
| <code>`DEBUG_DEPTH`</code>       | Object inspection depth.                          |
| <code>`DEBUG_SHOW_HIDDEN`</code> | Shows hidden properties on inspected objects.     |

\_\_Note:\_\_ The environment variables beginning with `DEBUG\_` end up being converted into an Options object that gets used with `%o`/`%O` formatters. See the Node.js documentation for [util.inspect()]([https://nodejs.org/api/util.html#util\\_util\\_inspect\\_object\\_options](https://nodejs.org/api/util.html#util_util_inspect_object_options)) for the complete list.

## ## Formatters

Debug uses [printf-style]([https://wikipedia.org/wiki/Printf\\_format\\_string](https://wikipedia.org/wiki/Printf_format_string)) formatting. Below are the officially supported formatters:

| Formatter | Representation                                                                            |
|-----------|-------------------------------------------------------------------------------------------|
| `%O`      | Pretty-print an Object on multiple lines.                                                 |
| `%o`      | Pretty-print an Object all on a single line.                                              |
| `%s`      | String.                                                                                   |
| `%d`      | Number (both integer and float).                                                          |
| `%j`      | JSON. Replaced with the string '[Circular]' if the argument contains circular references. |
| `%%`      | Single percent sign ('%'). This does not consume an argument.                             |

## ### Custom formatters

You can add custom formatters by extending the `debug.formatters` object. For example, if you wanted to add support for rendering a Buffer as hex with `%h`, you could do something like:

```
```js
const createDebug = require('debug')
createDebug.formatters.h = (v) => {
  return v.toString('hex')
}

// elsewhere
const debug = createDebug('foo')
debug('this is hex: %h', new Buffer('hello world'))
// foo this is hex: 68656c6c6f20776f726c6421 +0ms
```
```

## ## Browser Support

You can build a browser-ready script using [browserify](<https://github.com/substack/node-browserify>), or just use the [browserify-as-a-service](<https://wzrd.in/>) [build](<https://wzrd.in/standalone/debug@latest>), if you don't want to build it yourself.

Debug's enable state is currently persisted by `localStorage`.

Consider the situation shown below where you have `worker:a` and `worker:b`, and wish to debug both. You can enable this using `localStorage.debug`:

```
```js
localStorage.debug = 'worker:*'
```
```

And then refresh the page.

```
```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
  a('doing some work');
}, 1000);

setInterval(function(){
  b('doing some work');
}, 1200);
```
```

### ## Output streams

By default `debug` will log to stderr, however this can be configured per-namespace by overriding the `log` method:

Example `[_stdout.js_](./examples/node/stdout.js)`:

```
```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log
  = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
```
```

```
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
...

```

### ## Extend

You can simply extend debugger

```
```js
```

```
const log = require('debug')('auth');
```

```
//creates new debug instance with extended namespace
```

```
const logSign = log.extend('sign');
```

```
const logLogin = log.extend('login');
```

```
log('hello'); // auth hello
```

```
logSign('hello'); //auth:sign hello
```

```
logLogin('hello'); //auth:login hello
```

```
...

```

### ## Set dynamically

You can also enable debug dynamically by calling the `enable()` method :

```
```js
```

```
let debug = require('debug');
```

```
console.log(1, debug.enabled('test'));
```

```
debug.enable('test');
```

```
console.log(2, debug.enabled('test'));
```

```
debug.disable();
```

```
console.log(3, debug.enabled('test'));
```

```
...

```

```
print :
```

```
...

```

```
1
```

```
  false
```

```
2 true
```

```
3 false
```

```
...

```

Usage :

```
`enable(namespaces)`
```

`namespaces` can include modes separated by a colon and wildcards.



Note that calling `enable()` completely overrides previously set `DEBUG` variable :

```
...
$ DEBUG=foo node -e 'var dbg = require("debug"); dbg.enable("bar"); console.log(dbg.enabled("foo"))'
=> false
...
```

## Checking whether a debug target is enabled

After you've created a debug instance, you can determine whether or not it is enabled by checking the `enabled` property:

```
```javascript
const debug = require('debug')('http');

if (debug.enabled) {
  // do stuff...
}
```
```

You can also manually toggle this property to force the debug instance to be enabled or disabled.

## Authors

- TJ Holowaychuk
- Nathan Rajlich
- Andrew Rhyne

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`cssmin.py` - A Python port of the YUI CSS compressor.

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice



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```

language: node\_js

node\_js:

- '0.12'
- '4'
- '6'
- '7'

before\_install:

- npm install -g npm@latest

### v4.0.1 (2016-12-14)

#### WHOOPS

\* [[fb9b1ce`](https://github.com/npm/nopt/commit/fb9b1ce57b3c69b4f7819015be87719204f77ef6)](https://github.com/npm/nopt/commit/fb9b1ce57b3c69b4f7819015be87719204f77ef6)

Merged so many patches at once that the code fencing

([@adius](https://github.com/adius)) added got broken. Sorry,

([@adius](https://github.com/adius))!

([@othiym23](https://github.com/othiym23))

### v4.0.0 (2016-12-13)

#### #### BREAKING CHANGES

\* [651d447](https://github.com/npm/nopt/commit/651d4473946096d341a480bbe56793de3fc706aa)  
When parsing String-typed arguments, if the next value is `""`, don't simply swallow it. ([@samjonester](https://github.com/samjonester))

#### #### PERFORMANCE TWEAKS

\* [3370ce8](https://github.com/npm/nopt/commit/3370ce87a7618ba228883861db84ddbdcff252a9)  
Simplify initialization. ([@elidoran](https://github.com/elidoran))

\* [356e58e](https://github.com/npm/nopt/commit/356e58e3b3b431a4b1af7fd7bdee44c2c0526a09)  
Store `Array.isArray(types[arg])` for reuse.  
([@elidoran](https://github.com/elidoran))

\* [0d95e90](https://github.com/npm/nopt/commit/0d95e90515844f266015b56d2c80b94e5d14a07e)  
Interpret single-item type arrays as a single type.  
([@samjonester](https://github.com/samjonester))

\* [07c69d3](https://github.com/npm/nopt/commit/07c69d38b5186450941fbb505550becb78a0e925)  
Simplify key-value extraction. ([@elidoran](https://github.com/elidoran))

\* [39b6e5c](https://github.com/npm/nopt/commit/39b6e5c65ac47f60cd43a1fbeece5cd4c834c254)  
Only call `Date.parse(val)` once. ([@elidoran](https://github.com/elidoran))

\* [934943d](https://github.com/npm/nopt/commit/934943dffecb55123a2b15959fe2a359319a5dbd)  
Use `osenv.home()` to find a user's home directory instead of assuming it's always `\$HOME`. ([@othiym23](https://github.com/othiym23))

#### #### TEST & CI IMPROVEMENTS

\* [326ffff](https://github.com/npm/nopt/commit/326ffff7f78a00bcd316adecf69075f8a8093619)  
Fix `/tmp` test to work on Windows.  
([@elidoran](https://github.com/elidoran))

\* [c89d31a](https://github.com/npm/nopt/commit/c89d31a49d14f2238bc6672db08da697bbc57f1b)  
Only run Windows tests on Windows, only run Unix tests on a Unix.  
([@elidoran](https://github.com/elidoran))

\* [affd3d1](https://github.com/npm/nopt/commit/affd3d1d0addffa93006397b2013b18447339366)  
Refresh Travis to run the tests against the currently-supported batch of npm versions. ([@helio](https://github.com/helio)-frota)

\* [55f9449](https://github.com/npm/nopt/commit/55f94497d163ed4d16dd55fd6c4fb95cc440e66d)  
`tap@8.0.1` ([@othiym23](https://github.com/othiym23))

#### #### DOC TWEAKS

\* [5271229](https://github.com/npm/nopt/commit/5271229ee7c810217dd51616c086f5d9ab224581)  
Use JavaScript code block for syntax highlighting.  
([@adius](https://github.com/adius))

\* [c0d156f](https://github.com/npm/nopt/commit/c0d156f229f9994c5dfcec4a8886eceed7a07682)

```

The code sample in the README had `many2: [ oneThing ]`, and now it has
`many2: [ two, things ]`. ([@silkenrance](https://github.com/silkenrance))
## *-makefile*-
## Copyright (C) 2016 and later: Unicode, Inc. and others.
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and
## others. All Rights Reserved.

## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

```

```

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\'" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\'" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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Author : Angus Johnson

Version : 6.1.3a

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The

code in this library is an extension of Bala Vatti's clipping algorithm:

"A generic solution to polygon clipping"

Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.

<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

<http://books.google.com/books?q=vatti+clipping+agoston>

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

ASME 2005 International Design Engineering Technical Conferences  
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<https://github.com/deanm/css-color-parser-js>  
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src/base/md5.c

src/base/md5.h

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src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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- topographic model from Elevation model 2 m (U4421B, U4421D, U4422A and U4422C) 08/2014
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^ expected errors | v input
```

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```
/*---
```

```
esid: sec-assignment-operators-static-semantics-early-errors
```

```
description: Minimal test
```

```
---*/
```

```
void 0;
```

```
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2006-Jan-27

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All

Intellectual Property Rights to the Modified Software, Applications and Devices shall remain with the Licensee and no rights thereto shall be granted by the Licensee to The Qt Company under this Agreement (except as set forth in Section 2.3 below).

### 2.3. Modified Software

Licensee may create bug-fixes, error corrections, patches or modifications to the Licensed Software ("Modified Software"). Such Modified Software may break the source or binary compatibility with the Licensed Software (including without limitation through changing the application programming interfaces ("API") or by adding, changing or deleting any variable, method, or class signature in the Licensed Software and/or any inter-process protocols, services or standards in the Licensed Software libraries). To the extent that Licensee's Modified Software so breaks source or binary compatibility with the Licensed Software, Licensee acknowledges that The Qt Company's ability to provide Support may be prevented or

limited and Licensee's ability to make use of Updates may be restricted.

Licensee may, at its sole and absolute discretion, choose to submit Modified Software to The Qt Company ("Submitted Modified Software") in connection with Licensee's Support request, service request or otherwise. In the event Licensee does so, then, Licensee hereby grants The Qt Company a sublicensable, assignable, irrevocable, perpetual, worldwide, non-exclusive, royalty-free and fully paid-up license, under all of Licensee's Intellectual Property Rights, to reproduce, adapt, translate, modify, and prepare derivative works of, publicly display, publicly perform, sublicense, make available and distribute such

Submitted Modified Software as The Qt Company sees fit at its free and absolute discretion.

### 3. LICENSES GRANTED

#### 3.1. Development with Licensed Software

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable license, valid for the License Term, to use, modify and copy the Licensed Software by Designated Users on the Development Platforms for the sole purposes of designing, developing, demonstrating and testing Application(s) and/or Devices, and to provide thereto related support and other related services to end-user Customers. Each Application and/or Device can only include, incorporate or integrate code generated under this Agreement by such Designated Users who are duly licensed for the applicable Development Platform(s) and Deployment Platform(s) (i.e have a valid license for the appropriate Licensed Software product).

Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software.

Licensee may at any time designate another Designated User to replace a then-current Designated User by notifying The Qt Company in writing, provided that any Designated User may be replaced only once during any six-month period.

Upon expiry of the initially agreed License Term, the respective License Terms shall be automatically extended to one or more Renewal Term(s), unless and until either Party notifies the other Party in writing, or any other method acceptable to The Qt Company, that it does not wish to continue the License Term, such notification to be provided to the other Party no less than thirty (30) days before expiry of the respective License Term.

Unless otherwise agreed between the Parties, Renewal Term shall be of equal length with the initial License Term.

Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard pricing applicable at the commencement date of any such Renewal Term.

Any price or other term specified for a Renewal Term shall be valid only for the specified time.

The Qt Company may either request the Licensee to place a purchase order corresponding to a quote by The Qt Company, or uses Licensees stored Credit Card information in the QtAccount to automatically charge the Licensee for the



relevant Renewal Term.

In the event Licensee does not prevent auto-renewal pursuant the above, but a Renewal Term is nevertheless not duly ordered within 30 days from the date of the respective notification from The Qt Company and/or the respective License Fee paid by due date specified in The Qt Company's respective invoice, The Qt Company shall apply a reinstatement fee equal to ten percent (10 %) of the total value of the License Fees of the Development Licenses for the expired term to be added to the License Fee of the respective Renewal Term.

In the event Licensee chooses not to renew a Development License for a Renewal Term by notifying The Qt Company thereof no less than thirty (30) days before expiry of the respective License Term, Licensee may still reinstate such expired Development Licenses for a Renewal Term subject to applicable renewal Term

License Fees until thirty (30) days from the expiry of the initially agreed License Term or preceding Renewal Term. After such thirty (30) day period a Development License shall be subject to applicable License Fees for a new Development License and not any Renewal Term License Fees.

### 3.2. Distribution of Applications

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement) right and license, valid for the Term, to

- (i) distribute, by itself or through its Contractors, Redistributables as installed, incorporated or integrated into Applications for execution on the Deployment Platforms, and
- (ii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Applications for their respective intended purposes.

#### Right

to distribute the Redistributables as part of an Application as provided herein is not royalty-bearing but is conditional upon the Licensee not having any unpaid License Fees for Development Licenses owed to The Qt Company at the time of distribution of any Redistributables to Customers.

### 3.3. Distribution of Devices

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement) right and license, valid for the Term, to

- (i) distribute, by itself or through one or more tiers of Contractors, Redistributables as installed, incorporated or integrated, or intended to be installed, incorporated or integrated into Devices for execution on the Deployment Platforms, and
- (ii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent

necessary in order for  
the Customers to use the Devices for their  
respective intended purposes.

Right to distribute the Redistributables with Devices as provided herein is conditional upon the Licensee (i) not having any unpaid License Fees for Development Licenses owed to The Qt Company, and (ii) having purchased and paid corresponding Distribution Licenses at the time of distribution of any Redistributables to Customers.

#### 3.4. Further Requirements

The licenses granted above in this Section 3 by The Qt Company to Licensee are conditional and subject to Licensee's compliance with the following terms:

- (i) Licensee shall not remove or alter any copyright, trademark or other proprietary rights notice(s) contained in any portion of the Licensed Software;
- (ii) Applications must add primary and substantial functionality to the Licensed Software so as not to compete with the Licensed Software;
- (iii) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);
- (iv) Licensee shall not use Licensed Software in any manner or for any purpose that infringes, misappropriates or otherwise violates any Intellectual property or right of any third party, or that violates any applicable law;
- (v) Licensee shall not use The Qt Company's or any of its suppliers' names, logos, or trademarks to market Applications, except that Licensee may use "Built with Qt" logo to indicate that Application(s) was developed using the Licensed Software;
- (vi) Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that Licensee may appoint employee(s) of Contractors as Designated Users to use Licensed Software pursuant to this Agreement). Such right may be available for the Licensee subject to a separate software development kit ("SDK") license agreement to be concluded with The Qt Company;
- (vii) Licensee shall not grant the Customers a right to (i) make copies of the Redistributables except when and to the extent required to use the Applications and/or Devices for their intended purpose, (ii) modify the Redistributables or create derivative works thereof, (iii) decompile, disassemble or otherwise reverse engineer Redistributables, or (iv) redistribute any copy or portion of the Redistributables to

any third party, except as part of the onward sale of the Device  
on

which the Redistributables are installed;

(viii) Licensee shall not and shall cause that its Affiliates or Contractors shall not use Licensed Software in any Prohibited Combination, unless Licensee has received an advance written permission from The Qt Company to do so. Absent such written permission, any and all distribution by the Licensee during the Term of a hardware device or product a) which incorporate or integrate any part of Licensed Software or Open Source Qt; or b) where the main user interface or substantial functionality is provided by software built with Licensed Software or Open Source Qt or otherwise depends on the Licensed Software or Open Source Qt, shall be considered to be Device distribution under this Agreement and shall be dependent on Licensee's compliance thereof (including but not limited to obligation to pay applicable License Fees for such distribution).

Notwithstanding what is provided above in this sub-section (viii), Licensee is entitled to use and combine Licensed Software with any Permitted Software;

- (ix) Licensee shall cause all of its Affiliates and Contractors entitled to make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);
- (x) Except when and to the extent explicitly provided in this Section 3, Licensee shall not transfer, publish, disclose, display or otherwise make available the Licensed Software; and
- (xi) Licensee shall not attempt or enlist a third party to conduct or attempt to conduct any of the above.

Above terms shall not be applicable if and to the extent they conflict with any mandatory provisions of any applicable laws.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company.

#### 4. THIRD-PARTY SOFTWARE

The Licensed Software may provide links to third party libraries or code (collectively "Third-Party Software") to implement various functions. Third-Party Software does not comprise part of the Licensed Software. In some cases, access to Third-Party Software may be included with the Licensed Software. Such Third-Party Software will be listed in the ".../src/3rdparty"

source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to applicable license terms of applicable third-party right holders.

## 5. PRE-RELEASE CODE

The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software, provided however that in the event Add-on Products are included and available as such Pre-Release Code, Licensee's right to use such Add-on Products is nevertheless subject to and conditional upon conclusion of separate agreement with The Qt Company.

## 6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

The Qt Company hereby represents and warrants that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability for errors in the Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

## 7. INDEMNIFICATION AND LIMITATION OF LIABILITY

### 7.1. Limitation of Liability

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN

THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

## 8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

## 9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10.

#### FEES, DELIVERY AND PAYMENT

##### 10.1. License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

##### 10.2. Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

##### 10.3. Distribution License Packs

Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

##### 10.4. Payment Terms

License Fees and any other charges under this Agreement shall be paid by

Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

#### 10.5. Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

### 11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

#### 11.1. Licensee's Record-keeping

Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

#### 11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's



use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses

Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

## 12. TERM AND TERMINATION

### 12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of this Section 12.

### 12.2. Termination and suspension of rights

Either

Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

### 12.3. Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

### 12.4. Parties' Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

- (i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, and where such decision of non-renewal is not due to any ongoing breach or alleged breach (as reasonably determined by The Qt Company) by Licensee of the terms of this Agreement or any applicable

license terms of Open Source Qt, then all valid

licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or

- (ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

### 12.5. Extension in case of bankruptcy

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

### 13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one  
(1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

## 14. GENERAL PROVISIONS

### 14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

### 14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

### 14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

### 14.4. Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

### 14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For

clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

#### 14.6.

##### Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

#### 14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing

or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

#### 14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

#### 14.9.

##### No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

#### 14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

#### 14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals.

The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

#### 14.12. Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

### APPENDICES

The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

### APPENDIX 1

The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table. The modules and tools are ported to Qt 6 in stages and are subject to availability.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

| Modules / Tools | QtAD | QtDC | QtMCU | Qt3DS | QtDS |
|-----------------|------|------|-------|-------|------|
|                 |      |      |       |       |      |

|                       |             |  |  |  |
|-----------------------|-------------|--|--|--|
| Qt Core               | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt GUI                | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Multimedia         | X,          |  |  |  |
| R   X, R              |             |  |  |  |
| +-----+               |             |  |  |  |
| Qt Multimedia Widgets | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Network            | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt PDF                | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt QML                | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Quick              | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Quick Controls 2   | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt                    |             |  |  |  |
| Quick Dialogs         | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Quick Layouts      | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Quick Test         | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt SQL                | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Test               | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Widgets            | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Active Qt             | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
|                       |             |  |  |  |
| Qt 3D                 | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Android Extras     | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Bluetooth          | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Canvas 3D          | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Concurrent         | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt D-Bus              | X, R   X, R |  |  |  |
| +-----+               |             |  |  |  |
| Qt Gamepad            | X, R   X, R |  |  |  |

|                          |             |      |  |  |
|--------------------------|-------------|------|--|--|
| Qt Graphical Effects     | X, R   X, R |      |  |  |
| Qt Help                  | X, R   X, R |      |  |  |
| Qt Image Formats         | X, R   X, R |      |  |  |
| Qt Location              | X, R   X, R |      |  |  |
| Qt Mac Extras            | X, R   X, R |      |  |  |
| Qt Network Authorization | X, R   X, R |      |  |  |
| Qt NFC                   | X, R        | X, R |  |  |
| Qt Platform Headers      | X, R   X, R |      |  |  |
| Qt Positioning           | X, R   X, R |      |  |  |
| Qt Print Support         | X, R   X, R |      |  |  |
| Qt Purchasing            | X, R   X, R |      |  |  |
| Qt for Python            | X, R   X, R |      |  |  |
| Qt Quick Controls        | X, R   X, R |      |  |  |
| Qt Quick Extras          | X, R   X, R |      |  |  |
| Qt Quick Widgets         | X, R   X, R |      |  |  |
| Qt SCXML                 | X, R   X, R |      |  |  |
| Qt Sensors               | X, R   X, R |      |  |  |
| Qt Serial Bus            | X, R   X, R |      |  |  |
| Qt Serial Port           | X, R   X, R |      |  |  |
| Qt Speech                | X, R   X, R |      |  |  |
| Qt SVG                   | X, R   X, R |      |  |  |
| Qt UI Tools              | X, R   X, R |      |  |  |



|                                       |      |      |      |  |  |
|---------------------------------------|------|------|------|--|--|
| Qt WebChannel                         | X, R | X, R |      |  |  |
| Qt WebEngine                          | X, R | X, R |      |  |  |
| Qt WebSockets                         | X, R | X, R |      |  |  |
| Qt WebView                            | X, R | X, R |      |  |  |
| Qt Windows Extras                     | X, R | X, R |      |  |  |
| Qt X11 Extras                         | X, R | X, R |      |  |  |
| Qt XML                                | X, R | X, R |      |  |  |
| Qt XML Patterns                       | X, R | X, R |      |  |  |
| Qt Wayland Compositor                 | X, R | X, R |      |  |  |
| Qt Charts                             | X, R | X, R |      |  |  |
| Qt Data Visualization                 | X, R | X, R |      |  |  |
| Qt Virtual Keyboard                   | X, R | X, R |      |  |  |
| Boot 2 Qt stack                       | X, R |      |      |  |  |
| Qt OTA                                | X, R |      |      |  |  |
| Device Utilities                      | X, R |      |      |  |  |
| Qt Debugging Bridge (QDB) Daemon      | X, R |      |      |  |  |
| Qt Quick Ultralite Controls           | X, R |      |      |  |  |
| Qt Quick Ultralite                    | X, R |      |      |  |  |
| Qt Creator                            | X    | X    | X    |  |  |
| Qt Designer (Qt Widget Designer)      | X    | X    |      |  |  |
| Qt Quick Designer (Qt Creator plugin) | X, R | X, R | X, R |  |  |
| Qt Linguist                           | X, R | X, R | X, R |  |  |

|                                |   |   |   |   |   |   |  |  |  |
|--------------------------------|---|---|---|---|---|---|--|--|--|
| Qt Assistant                   | X | R | X | R | X | R |  |  |  |
| Lupdate                        | X | R | X | R | X | R |  |  |  |
| Lrelease                       | X | R | X | R |   |   |  |  |  |
| Qmake                          | X |   | X |   |   |   |  |  |  |
| Uic                            | X |   | X |   |   |   |  |  |  |
| Rcc                            | X |   | X |   |   |   |  |  |  |
| Qlalr                          | X |   | X |   |   |   |  |  |  |
| Qdoc                           | X |   | X |   |   |   |  |  |  |
| Qmlscene                       | X |   | X |   |   |   |  |  |  |
| Qmlviewer                      | X |   | X |   |   |   |  |  |  |
| Target toolchains              |   |   | X |   | X |   |  |  |  |
| Qt Debugging Bridge (QDB) Host |   |   | X |   |   |   |  |  |  |
| Tools                          |   |   |   |   |   |   |  |  |  |
| qtconfig-gui                   |   |   | X |   |   |   |  |  |  |
| Qt Emulator                    |   |   | X |   |   |   |  |  |  |
| Qmlinterfacegenerator          |   |   |   |   | X |   |  |  |  |
| Qmltocpp                       | X |   |   |   |   |   |  |  |  |
| qulfontcompiler                |   |   |   |   | X |   |  |  |  |
| Qt53DStudioRuntime2            |   |   |   |   | X | R |  |  |  |
| Qt 3D Studio                   |   |   |   |   | X |   |  |  |  |
| Qt Design Studio               |   |   |   |   |   | X |  |  |  |

APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools

of the Licensed Software that are included with each Add-On Product respectively are marked with 'X' in the below table. The modules are ported to Qt 6 in stages and are subject to availability.

Parts of the respective Add-On Product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

| -----+             |            |            |         |             |          |            |    |
|--------------------|------------|------------|---------|-------------|----------|------------|----|
| Add-On Product(s)  |            |            |         |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |
| Modules / Tools of | Qt for     | Qt         | Qt      | Qt          | Qt       | Qt         | Qt |
| Licensed Software  | Automation | Automotive | Safe    | Application | GammaRay | Deployment |    |
| Qt M2M             | Suite      | Renderer   | Manager |             | Platform |            |    |
| Protocols          |            |            | Package |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |
| Qt MQTT            | X, R       |            |         |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |
| Qt KNX             | X, R       |            |         |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |
| Qt OPC UA          | X, R       |            |         |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |
| Qt CoAP            | X, R       |            |         |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |
| Qt Safe Renderer   |            | X, R       | X, R    |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |
| Qt Application     |            | X, R       |         | X, R        |          |            |    |
| Manager            |            |            |         |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |
| Qt IVI             |            | X, R       |         |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |
| Reference UI       |            | X, R       |         |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |
| Qt GENIVI Extras   |            | X, R       |         |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |
| QML Live           |            | X          |         |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |
| Qt Creator         |            | X          |         |             |          |            |    |
| -----+             |            |            |         |             |          |            |    |

|                            |  |   |  |   |   |   |  |  |
|----------------------------|--|---|--|---|---|---|--|--|
| Deployment                 |  |   |  |   |   |   |  |  |
| +-----+                    |  |   |  |   |   |   |  |  |
| Qt Creator Plugin          |  | X |  | X |   |   |  |  |
| for Qt Application Manager |  |   |  |   |   |   |  |  |
| +-----+                    |  |   |  |   |   |   |  |  |
| Qt Automotive Suite        |  | X |  |   |   |   |  |  |
| Deployment Server          |  |   |  |   |   |   |  |  |
|                            |  |   |  |   |   |   |  |  |
| +-----+                    |  |   |  |   |   |   |  |  |
| Qt Design Studio           |  | X |  |   |   |   |  |  |
| +-----+                    |  |   |  |   |   |   |  |  |
| Qt 3D Studio               |  | X |  |   |   |   |  |  |
| +-----+                    |  |   |  |   |   |   |  |  |
| GammaRay                   |  | X |  |   | X |   |  |  |
| +-----+                    |  |   |  |   |   |   |  |  |
| Platform adaptations       |  |   |  |   |   | X |  |  |
| for specified              |  |   |  |   |   |   |  |  |
| Deployment Platforms       |  |   |  |   |   |   |  |  |
|                            |  |   |  |   |   |   |  |  |
| +-----+                    |  |   |  |   |   |   |  |  |
| Qt for Device              |  | X |  |   |   |   |  |  |
| Creation                   |  |   |  |   |   |   |  |  |
| +-----+                    |  |   |  |   |   |   |  |  |

All the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

#### APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for companies with an annual revenue, including funding, equivalent to maximum of 250,000 USD (in applicable currency) during the latest full calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company ("Start-up Company").

Start-up Companies are qualified for a discounted License Fee for maximum of four

(4) Development Licenses ("Start-up Development License") unless otherwise agreed between the parties.

Start-up Development License entitles the respective Designated User for Support only for installation related issues.

Upon expiry of the respective License Term, the Start-up Development Licenses shall be automatically extended, pursuant to Section 3.1 of the Agreement, for a Renewal Term either as new Start-up Development Licenses

(if the Licensee still qualifies as a Start-up Company), or as normal Development Licenses (if the Licensee no longer qualifies as a Start-up company).

#### APPENDIX 5: NON-COMMERCIAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

- I. Recital (A) shall be replaced in its entirety to read as follows:  
"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."
- II. Section 3.1 shall be replaced in its entirety to read as follows:  
"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose.  
Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software.  
Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times."

For clarity, this Agreement does not (i) entitle Licensee to use Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

"Licensee shall not:

- remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;
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- in any way combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt;

Licensee shall cause all Designated Users who make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof. Licensee shall be

responsible for any and all actions and omissions of its Designated Users relating to the Licensed Software and use thereof.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company."

V. Section 12 shall be replaced in its entirety to read as follows:

"This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of Section 12.

Upon termination of the Agreement, Licensee shall cease using the Licensed Software. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must, upon request, promptly deliver to The Qt Company a written confirmation that this has occurred."

Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.  
validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
var valid = require('validate-npm-package-license');
```
```

SPDX license identifiers are valid license strings:

```
```javascript

var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```
```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
```
```

SPDX expressions are valid, too ...

```
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
```
```

```
);  
```
```

... except if they contain `LicenseRef`:

```
```javascript  
var warningAboutLicenseRef = {  
  validForOldPackages: false,  
  validForNewPackages: false,  
  spdx: true,  
  warnings: [  
    'license should be ' +  
    'a valid SPDX license expression (without "LicenseRef"), ' +  
    "'UNLICENSED', or ' +  
    "'SEE LICENSE IN <filename>'",  
  ]  
};
```

```
assert.deepEqual(  
  valid('LicenseRef-Made-Up'),  
  warningAboutLicenseRef  
);
```

```
assert.deepEqual(  
  valid('(MIT OR LicenseRef-Made-Up)'),  
  warningAboutLicenseRef  
);  
```
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```
```javascript  
assert.deepEqual(  
  valid('SEE  
  LICENSE IN LICENSE.txt'),  
  {  
    validForNewPackages: true,  
    validForOldPackages: true,  
    inFile: 'LICENSE.txt'  
  }  
);
```

```
assert.deepEqual(  
  valid('SEE LICENSE IN license.md'),  
  {  
    validForNewPackages: true,  
    validForOldPackages: true,  
  }  
);
```



```
    inFile: 'license.md'
  }
);
```
```

If there aren't any licensing terms, use `UNLICENSED`:

```
```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENSED'), unlicensed);
```
```

This is the GNU General Public License version 3, annotated with The Qt Company GPL Exception 1.0:

-----

The Qt Company GPL Exception 1.0

Exception 1:

As a special exception you may create a larger work which contains the output of this application and distribute that work under terms of your choice, so long as the work is not otherwise derived from or based on this application and so long as the work does not in itself generate output that contains the output from this application in its original or modified form.

Exception 2:

As a special exception, you have permission to combine this application with Plugins licensed under the terms of your choice, to produce an executable, and to copy and distribute the resulting executable under the terms of your choice. However, the executable must be accompanied by a prominent notice offering all users of the executable the entire source code to this application, excluding the source code of the independent modules, but including any changes you have made to this application, under the terms of this license.

-----

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to

authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

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A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for

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To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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License: MIT

By: Marijn Haverbeke, Ingvar Stepanyan, Adrian Heine

Repository: <https://github.com/acornjs/acorn.git>

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Repository: <https://github.com/acornjs/acorn-export-ns-from>

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Repository: <https://github.com/adrianheine/acorn-import-meta>

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    Miller, Elan Shanker  
Repository: git+https://github.com/paulmillr/chokidar.git

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By: Jon Schlinkert, Edo Rivai, Paul Miller, Rouven Weling

Repository: jonschlinkert/fill-range

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Repository: git@github.com:indutny/hash.js

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Repository: jonschlinkert/is-extglob

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## time-zone

License: MIT

By: Sindre Sorhus

Repository: [sindresorhus/time-zone](https://github.com/sindresorhus/time-zone)

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## to-regex-range

License: MIT

By: Jon Schlinkert, Rouven Weling

Repository: [micromatch/to-regex-range](https://github.com/micromatch/to-regex-range)

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## yargs-parser  
License: ISC  
By: Ben Coe  
Repository: <https://github.com/yargs/yargs-parser.git>

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C++ Big Integer Library  
(see ChangeLog for version)

<http://mattmccutchen.net/bigint/>

Written and maintained by Matt McCutchen <[matt@mattmccutchen.net](mailto:matt@mattmccutchen.net)>

You can use this library in a C++ program to do arithmetic on integers of size limited only by your computer's memory. The library provides BigUnsigned and BigInteger classes that represent nonnegative integers and signed integers,

respectively. Most of the C++ arithmetic operators are overloaded for these classes, so big-integer calculations are as easy as:

```
#include "BigIntegerLibrary.hh"

BigInteger a = 65536;
cout << (a * a * a * a * a * a * a * a * a);

(print 340282366920938463463374607431768211456)
```

The code in `sample.cc` demonstrates the most important features of the library. To get started quickly, read the code and explanations in that file and run it. If you want more detail or a feature not shown in `sample.cc`, consult the  
the  
consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed; some users will prefer GMP (<http://swox.com/gmp/>), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

#### Compiling programs that use the library

-----  
The library consists of a folder full of C++ header files (`.hh`) and source files (`.cc`). Your own programs should `#include` the necessary header files and link with the source files. A makefile that builds the sample program ( `sample.cc` ) is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked  
with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

#### Resources

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The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

#### Bugs and enhancements

-----

The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++).

I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

Legal

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I, Matt McCutchen, the sole author of the original Big Integer Library, waive my copyright to it, placing it in the public domain. The library comes with absolutely no warranty.

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@subheading END OF TERMS AND CONDITIONS

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```

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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```

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<signature of Ty Coon>, 1 April 1989
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.36 fmt 3.3

1.36.1 Available under license :

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```
// All rights reserved.
```

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Found in path(s):

* /opt/cola/permits/1314855462_1654502757.5758297/0/fmt-tar-gz/fmt/api/fmt/ranges.hpp

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/*

Formatting library for C++

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*/

// A public domain branchless UTF-8 decoder by Christopher Wellons:

Found in path(s):

* /opt/cola/permits/1314855462_1654502757.5758297/0/fmt-tar-gz/fmt/api/fmt/format.hpp

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Found in path(s):

* /opt/cola/permits/1314855462_1654502757.5758297/0/fmt-tar-gz/fmt/api/fmt/locale.hpp

```
* /opt/cola/permits/1314855462_1654502757.5758297/0/fmt-tar-gz/fmt/api/fmt/core.hpp
* /opt/cola/permits/1314855462_1654502757.5758297/0/fmt-tar-gz/fmt/api/fmt/format-inl.hpp
* /opt/cola/permits/1314855462_1654502757.5758297/0/fmt-tar-gz/fmt/api/fmt/chrono.hpp
* /opt/cola/permits/1314855462_1654502757.5758297/0/fmt-tar-gz/fmt/format.cpp
* /opt/cola/permits/1314855462_1654502757.5758297/0/fmt-tar-gz/fmt/api/fmt/compile.hpp
```

1.37 libsanitizer 8.3.0

1.37.1 Available under license :

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```
// Copyright 2014 The Chromium Authors. All rights reserved.
```

Found in path(s):

```
* /opt/cola/permits/1314856103_1670491969.4531121/0/sanitizers-tar-gz/sanitizer_options.cc
* /opt/cola/permits/1314856103_1670491969.4531121/0/sanitizers-tar-gz/tsan_suppressions.cc
```

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```
// Copyright 2015 The Chromium Authors. All rights reserved.
```

Found in path(s):

```
* /opt/cola/permits/1314856103_1670491969.4531121/0/sanitizers-tar-gz/lsan_suppressions.cc
* /opt/cola/permits/1314856103_1670491969.4531121/0/sanitizers-tar-gz/asan_suppressions.cc
```

1.38 effective-tld-names 2.4

1.38.1 Available under license :

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```
{
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// Use of this source code is governed by a BSD-style license that can be
// found in the LICENSE file.
```

```
// This file is generated by net/tools/tld_cleanup/.
```

```
// DO NOT MANUALLY EDIT!
```

```
}
struct DomainRule {
  int name_offset;
  int type; // flags: 1: exception, 2: wildcard, 4: private
};
%%
0.bg, 0
001www.com, 4
0e.vc, 4
0emm.com, 6
```


1.bg, 0
12hp.at, 4
12hp.ch, 4
12hp.de, 4
1337.pictures, 4
16-b.it, 4
1kapp.com, 4
2.bg, 0
2000.hu, 0
2038.io, 4
2ix.at, 4
2ix.ch, 4
2ix.de, 4
3.bg, 0
32-b.it, 4
3utilities.com, 4
4.bg, 0
4lima.at, 4
4lima.ch, 4
4lima.de, 4
4u.com, 4
5.bg, 0
6.bg, 0
611.to, 4
64-b.it, 4
7.bg, 0
8.bg, 0
9.bg, 0
9guacu.br, 0
a.bg, 0
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a.run.app, 4
a.se, 0
a.ssl.fastly.net, 4
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abc, 0
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abiko.chiba.jp,
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abira.hokkaido.jp, 0
abkhazia.su, 4
able, 0
abo.pa, 0
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abruzzo.it, 0
abu.yamaguchi.jp, 0
abudhabi, 0
ac, 0
ac.ae, 0
ac.at, 0
ac.be, 0
ac.ci, 0
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ac.zw, 0
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academy, 0
academy.museum, 0
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accesscam.org, 4
accident-investigation.aero, 0
accident-prevention.aero, 0
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acct.pro, 0
achi.nagano.jp, 0
aco, 0
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act.edu.au, 0
actor, 0
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adac, 0
adachi.tokyo.jp, 0
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adobeemcloud.com, 4
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adv.mz, 0
advisor.ws, 6
adygeya.ru, 4
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aichi.jp, 0
aid.pl, 0
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aip.ee, 0
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aizuwakamatsu.fukushima.jp, 0
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ak.us, 0
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akagi.shimane.jp, 0
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alces.network, 6
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azurestaticapps.net, 4
azurewebsites.net, 4
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b.ssl.fastly.net, 4
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Found in path(s):

* /opt/cola/permits/1314879430_1670490931.8770304/0/effective-tld-names-1-tar-gz/effective_tld_names.gperf

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*
* ***** END LICENSE BLOCK ***** */
```

Found in path(s):

```
* /opt/cola/permits/1314879430_1670490931.8770304/0/effective-tld-names-1-tar-gz/registry_controlled_domain.h
```

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*
* ***** END LICENSE BLOCK ***** */
// version.

Found in path(s):
* /opt/cola/permits/1314879430_1670490931.8770304/0/effective-tld-names-1-tar-
gz/registry_controlled_domain.cc
No license file was found, but licenses were detected in source scan.

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// file, You can obtain one at https://mozilla.org/MPL/2.0/.

// Please pull this list from, and only from https://publicsuffix.org/list/public\_suffix\_list.dat,
// rather than any other VCS sites. Pulling from any other URL is not guaranteed to be supported.

// Instructions on pulling and using this list can be found at https://publicsuffix.org/list/.

```

```
// Chromium note: this is based on Mozilla's file:
// https://publicsuffix.org/list/public_suffix_list.dat

// ===BEGIN ICANN DOMAINS===

// ac : https://en.wikipedia.org/wiki/.ac
ac
com.ac
edu.ac
gov.ac
net.ac
mil.ac
org.ac

// ad : https://en.wikipedia.org/wiki/.ad
ad
nom.ad

// ae : https://en.wikipedia.org/wiki/.ae
// see also: "Domain Name Eligibility Policy" at http://www.aeda.ae/eng/aepolicy.php
ae
co.ae
net.ae
org.ae
sch.ae
ac.ae
gov.ae
mil.ae

//
aero : see https://www.information.aero/index.php?id=66
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aerodrome.aero
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airline.aero
airport.aero
air-surveillance.aero
airtraffic.aero
air-traffic-control.aero
ambulance.aero
amusement.aero
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association.aero
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ballooning.aero
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cargo.aero
catering.aero
certification.aero
championship.aero
charter.aero
civilaviation.aero
club.aero
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design.aero
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educator.aero
emergency.aero
engine.aero
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recreation.aero
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rotorcraft.aero
safety.aero
scientist.aero
services.aero
show.aero
skydiving.aero
software.aero
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trader.aero
trading.aero
trainer.aero
union.aero
workinggroup.aero
works.aero

//

af : <http://www.nic.af/help.jsp>

af

gov.af

com.af

org.af

net.af

edu.af

// ag : <http://www.nic.ag/prices.htm>

ag

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org.ag

net.ag

co.ag

nom.ag

// ai : <http://nic.com.ai/>

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net.ai

org.ai

// al : http://www.ert.gov.al/ert_alb/faq_det.html?Id=31

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edu.al

gov.al

mil.al

net.al

org.al

// am : https://www.amnic.net/policy/en/Policy_EN.pdf

am

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com.am

commune.am

net.am

org.am

// ao : <https://en.wikipedia.org/wiki/.ao>

// <http://www.dns.ao/REGISTR.DOC>

ao

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gv.ao

og.ao

co.ao

pb.ao

it.ao

// aq : <https://en.wikipedia.org/wiki/.aq>

aq

// ar : <https://nic.ar/nic-argentina/normativa-vigente>

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mil.ar

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tur.ar

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arpa : <https://en.wikipedia.org/wiki/.arpa>

// Confirmed by registry <iana-questions@icann.org> 2008-06-18

arpa

e164.arpa
in-addr.arpa
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iris.arpa
uri.arpa
urn.arpa

// as : <https://en.wikipedia.org/wiki/.as>
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// at : <https://en.wikipedia.org/wiki/.at>
// Confirmed by registry <it@nic.at> 2008-06-17
at
ac.at
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// au : <https://en.wikipedia.org/wiki/.au>
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au
// 2LDs
com.au
net.au
org.au
edu.au
gov.au
asn.au
id.au
// Historic 2LDs (closed to new registration, but sites still exist)
info.au
conf.au
oz.au
// CGDNs - <http://www.cgdn.org.au/>
act.au
nsw.au
nt.au
qld.au
sa.au
tas.au
vic.au
wa.au
// 3LDs

act.edu.au
catholic.edu.au
// eq.edu.au - Removed at the request of the Queensland Department of Education
nsw.edu.au
nt.edu.au
qld.edu.au
sa.edu.au
tas.edu.au
vic.edu.au
wa.edu.au
// act.gov.au Bug 984824 - Removed at request
of Greg Tankard
// nsw.gov.au Bug 547985 - Removed at request of <Shae.Donelan@services.nsw.gov.au>
// nt.gov.au Bug 940478 - Removed at request of Greg Connors <Greg.Connors@nt.gov.au>
qld.gov.au
sa.gov.au
tas.gov.au
vic.gov.au
wa.gov.au
// 4LDs
// education.tas.edu.au - Removed at the request of the Department of Education Tasmania
schools.nsw.edu.au

// aw : <https://en.wikipedia.org/wiki/.aw>
aw
com.aw

// ax : <https://en.wikipedia.org/wiki/.ax>
ax

// az : <https://en.wikipedia.org/wiki/.az>
az
com.az
net.az
int.az
gov.az
org.az
edu.az
info.az
pp.az
mil.az
name.az
pro.az
biz.az

// ba : http://nic.ba/users_data/files/pravilnik_o_registraciji.pdf
ba
com.ba

edu.ba
gov.ba
mil.ba
net.ba
org.ba

// bb : <https://en.wikipedia.org/wiki/.bb>

bb
biz.bb
co.bb
com.bb
edu.bb
gov.bb
info.bb
net.bb
org.bb
store.bb
tv.bb

// bd : <https://en.wikipedia.org/wiki/.bd>

*.bd

// be : <https://en.wikipedia.org/wiki/.be>

// Confirmed by registry <tech@dns.be> 2008-06-08

be
ac.be

// bf : <https://en.wikipedia.org/wiki/.bf>

bf
gov.bf

//

bg : <https://en.wikipedia.org/wiki/.bg>

// <https://www.register.bg/user/static/rules/en/index.html>

bg
a.bg
b.bg
c.bg
d.bg
e.bg
f.bg
g.bg
h.bg
i.bg
j.bg
k.bg
l.bg
m.bg

n.bg
o.bg
p.bg
q.bg
r.bg
s.bg
t.bg
u.bg
v.bg
w.bg
x.bg
y.bg
z.bg
0.bg
1.bg
2.bg
3.bg
4.bg
5.bg
6.bg
7.bg
8.bg
9.bg

// bh : <https://en.wikipedia.org/wiki/.bh>

bh
com.bh
edu.bh
net.bh
org.bh
gov.bh

// bi : <https://en.wikipedia.org/wiki/.bi>

// <http://whois.nic.bi/>

bi
co.bi
com.bi
edu.bi
or.bi
org.bi

// biz : <https://en.wikipedia.org/wiki/.biz>

biz

// bj : <https://en.wikipedia.org/wiki/.bj>

bj
asso.bj
barreau.bj

`gouv.bj`

`// bm : http://www.bermudanic.bm/dnr-text.txt`

`bm`

`com.bm`

`edu.bm`

`gov.bm`

`net.bm`

`org.bm`

`// bn : http://www.bnnic.bn/faqs`

`bn`

`com.bn`

`edu.bn`

`gov.bn`

`net.bn`

`org.bn`

`// bo : https://nic.bo/delegacion2015.php#h-1.10`

`bo`

`com.bo`

`edu.bo`

`gob.bo`

`int.bo`

`org.bo`

`net.bo`

`mil.bo`

`tv.bo`

`web.bo`

`// Social Domains`

`academia.bo`

`agro.bo`

`arte.bo`

`blog.bo`

`bolivia.bo`

`ciencia.bo`

`cooperativa.bo`

`democracia.bo`

`deporte.bo`

`ecologia.bo`

`economia.bo`

`empresa.bo`

`indigena.bo`

`industria.bo`

`info.bo`

`medicina.bo`

`movimiento.bo`

`musica.bo`

natural.bo
nombre.bo
noticias.bo
patria.bo
politica.bo
profesional.bo
plurinacional.bo
pueblo.bo
revista.bo
salud.bo
tecnologia.bo
tksat.bo
transporte.bo
wiki.bo

//

br : <http://registro.br/dominio/categoria.html>
// Submitted by registry <fneves@registro.br>

br

9guacu.br

abc.br

adm.br

adv.br

agr.br

aju.br

am.br

anani.br

aparecida.br

app.br

arq.br

art.br

ato.br

b.br

barueri.br

belem.br

bhz.br

bib.br

bio.br

blog.br

bmd.br

boavista.br

bsb.br

campinagrande.br

campinas.br

caxias.br

cim.br

cng.br

cnt.br

com.br
contagem.br
coop.br
coz.br
cri.br
cuiaba.br
curitiba.br
def.br
des.br
det.br
dev.br
ecn.br
eco.br
edu.br
emp.br
enf.br
eng.br
esp.br
etc.br
eti.br
far.br
feira.br
flog.br
floripa.br
fm.br
fnd.br
fortal.br
fot.br
foz.br
fst.br
g12.br
geo.br
ggf.br
goiania.br
gov.br
// gov.br 26 states + df https://en.wikipedia.org/wiki/States_of_Brazil
ac.gov.br
al.gov.br
am.gov.br
ap.gov.br
ba.gov.br
ce.gov.br
df.gov.br
es.gov.br
go.gov.br
ma.gov.br
mg.gov.br
ms.gov.br

mt.gov.br
pa.gov.br
pb.gov.br
pe.gov.br
pi.gov.br
pr.gov.br
rj.gov.br
rn.gov.br
ro.gov.br
rr.gov.br
rs.gov.br
sc.gov.br
se.gov.br
sp.gov.br
to.gov.br
gru.br
imb.br
ind.br
inf.br
jab.br
jampa.br
jdf.br
joinville.br
jor.br
jus.br
leg.br
lel.br
log.br
londrina.br
macapa.br
maceio.br
manaus.br
maringa.br
mat.br
med.br
mil.br
morena.br
mp.br
mus.br
natal.br
net.br
niteroi.br
*.nom.br
not.br
ntr.br
odo.br
ong.br
org.br

osasco.br
palmas.br
poa.br
ppg.br
pro.br
psc.br
psi.br
pvh.br
qsl.br
radio.br
rec.br
recife.br
rep.br
ribeirao.br
rio.br
riobranco.br
riopreto.br
salvador.br
sampa.br
santamaria.br
santoandre.br
saobernardo.br
saogonca.br
seg.br
sjc.br
slg.br
slz.br
sorocaba.br
srv.br
taxi.br
tc.br
tec.br
teo.br
the.br
tmp.br
trd.br
tur.br
tv.br
udi.br
vet.br
vix.br
vlog.br
wiki.br
zlg.br

//

bs : <http://www.nic.bs/rules.html>

bs

com.bs
net.bs
org.bs
edu.bs
gov.bs

// bt : <https://en.wikipedia.org/wiki/.bt>

bt
com.bt
edu.bt
gov.bt
net.bt
org.bt

//

bv : No registrations at this time.

// Submitted by registry <jarle@uninett.no>

bv

// bw : <https://en.wikipedia.org/wiki/.bw>

// <http://www.gobin.info/domainname/bw.doc>

// list of other 2nd level tlds ?

bw
co.bw
org.bw

// by : <https://en.wikipedia.org/wiki/.by>

// http://tld.by/rules_2006_en.html

// list of other 2nd level tlds ?

by
gov.by
mil.by

// Official information does not indicate that com.by is a reserved

// second-level domain, but it's being used as one (see www.google.com.by and

// www.yahoo.com.by, for example), so we list it here for safety's sake.

com.by

// <http://hoster.by/>

of.by

// bz : <https://en.wikipedia.org/wiki/.bz>

// <http://www.belizenic.bz/>

bz
com.bz
net.bz
org.bz
edu.bz
gov.bz

// ca : <https://en.wikipedia.org/wiki/ca>
ca
// ca geographical names
ab.ca
bc.ca
mb.ca
nb.ca
nf.ca
nl.ca
ns.ca
nt.ca
nu.ca
on.ca
pe.ca
qc.ca
sk.ca
yk.ca
// gc.ca: <https://en.wikipedia.org/wiki/gc.ca>
// see also: <http://registry.gc.ca/en/SubdomainFAQ>
gc.ca

//
cat : <https://en.wikipedia.org/wiki/cat>
cat

// cc : <https://en.wikipedia.org/wiki/cc>
cc

// cd : <https://en.wikipedia.org/wiki/cd>
// see also: https://www.nic.cd/domain/insertDomain_2.jsp?act=1
cd
gov.cd

// cf : <https://en.wikipedia.org/wiki/cf>
cf

// cg : <https://en.wikipedia.org/wiki/cg>
cg

// ch : <https://en.wikipedia.org/wiki/ch>
ch

// ci : <https://en.wikipedia.org/wiki/ci>
// <http://www.nic.ci/index.php?page=charte>
ci
org.ci
or.ci

com.ci
co.ci
edu.ci
ed.ci
ac.ci
net.ci
go.ci
asso.ci
aéroport.ci
int.ci
presse.ci
md.ci
gouv.ci

// ck : <https://en.wikipedia.org/wiki/.ck>

*.ck

!www.ck

// cl : <https://www.nic.cl>

// Confirmed by .CL registry <hsalgado@nic.cl>

cl

aprendemas.cl

co.cl

gob.cl

gov.cl

mil.cl

// cm : <https://en.wikipedia.org/wiki/.cm> plus bug 981927

cm

co.cm

com.cm

gov.cm

net.cm

// cn : <https://en.wikipedia.org/wiki/.cn>

// Submitted by registry <tanyaling@cnnic.cn>

cn

ac.cn

com.cn

edu.cn

gov.cn

net.cn

org.cn

mil.cn

.cn

.cn

.cn

// cn geographic names

ah.cn
bj.cn
cq.cn
fj.cn
gd.cn
gs.cn
gz.cn
gx.cn
ha.cn
hb.cn
he.cn
hi.cn
hl.cn
hn.cn
jl.cn
js.cn
jx.cn
ln.cn
nm.cn
nx.cn
qh.cn
sc.cn
sd.cn
sh.cn
sn.cn
sx.cn
tj.cn
xj.cn
xz.cn
yn.cn
zj.cn
hk.cn
mo.cn
tw.cn

//

co : <https://en.wikipedia.org/wiki/.co>
// Submitted by registry <tecnico@uniandes.edu.co>

co

arts.co

com.co

edu.co

firm.co

gov.co

info.co

int.co

mil.co

net.co

nom.co
org.co
rec.co
web.co

// com : <https://en.wikipedia.org/wiki/.com>
com

// coop : <https://en.wikipedia.org/wiki/.coop>
coop

// cr : http://www.nic.cr/niccr_publico/showRegistroDominiosScreen.do
cr
ac.cr
co.cr
ed.cr
fi.cr
go.cr
or.cr
sa.cr

// cu : <https://en.wikipedia.org/wiki/.cu>
cu
com.cu
edu.cu
org.cu
net.cu
gov.cu
inf.cu

// cv : <https://en.wikipedia.org/wiki/.cv>
cv

// cw : http://www.una.cw/cw_registry/
// Confirmed by registry <registry@una.net> 2013-03-26
cw
com.cw
edu.cw
net.cw
org.cw

// cx : <https://en.wikipedia.org/wiki/.cx>
// list of other 2nd level tlds ?
cx
gov.cx

// cy : <http://www.nic.cy/>
// Submitted by registry

Panayiotou Fotia <cydns@ucy.ac.cy>

cy

ac.cy

biz.cy

com.cy

ekloges.cy

gov.cy

ltd.cy

name.cy

net.cy

org.cy

parliament.cy

press.cy

pro.cy

tm.cy

// cz : <https://en.wikipedia.org/wiki/cz>

cz

// de : <https://en.wikipedia.org/wiki/de>

// Confirmed by registry <ops@denic.de> (with technical
// reservations) 2008-07-01

de

// dj : <https://en.wikipedia.org/wiki/dj>

dj

// dk : <https://en.wikipedia.org/wiki/dk>

// Confirmed by registry <robert@dk-hostmaster.dk> 2008-06-17

dk

// dm : <https://en.wikipedia.org/wiki/dm>

dm

com.dm

net.dm

org.dm

edu.dm

gov.dm

// do : <https://en.wikipedia.org/wiki/do>

do

art.do

com.do

edu.do

gob.do

gov.do

mil.do

net.do

org.do
sld.do
web.do

// dz : http://www.nic.dz/images/pdf_nic/charte.pdf

dz
art.dz
asso.dz
com.dz
edu.dz
gov.dz
org.dz
net.dz
pol.dz
soc.dz
tm.dz

// ec : <http://www.nic.ec/reg/paso1.asp>

// Submitted by registry <vabboud@nic.ec>

ec
com.ec
info.ec
net.ec
fin.ec
k12.ec
med.ec
pro.ec
org.ec
edu.ec
gov.ec
gob.ec
mil.ec

// edu : <https://en.wikipedia.org/wiki/edu>

edu

//

ee : http://www.eenet.ee/EENet/dom_reeglid.html#lisa_B

ee
edu.ee
gov.ee
riik.ee
lib.ee
med.ee
com.ee
pri.ee
aip.ee
org.ee

fi.ee

// eg : <https://en.wikipedia.org/wiki/eg>

eg

com.eg

edu.eg

eun.eg

gov.eg

mil.eg

name.eg

net.eg

org.eg

sci.eg

// er : <https://en.wikipedia.org/wiki/er>

*.er

// es : https://www.nic.es/site_ingles/ingles/dominios/index.html

es

com.es

nom.es

org.es

gob.es

edu.es

// et : <https://en.wikipedia.org/wiki/et>

et

com.et

gov.et

org.et

edu.et

biz.et

name.et

info.et

net.et

// eu : <https://en.wikipedia.org/wiki/eu>

eu

// fi : <https://en.wikipedia.org/wiki/fi>

fi

// aland.fi : <https://en.wikipedia.org/wiki/ax>

// This domain is being phased out in favor of .ax. As there are still many

// domains under aland.fi, we still keep it on the list until aland.fi is

// completely removed.

// TODO: Check for updates (expected to be phased out around Q1/2009)

aland.fi

```
// fj : http://domains.fj/
// Submitted by registry <garth.miller@cocca.org.nz> 2020-02-11
fj
ac.fj
biz.fj
com.fj
gov.fj
info.fj
mil.fj
name.fj
net.fj
org.fj
pro.fj

//
fk : https://en.wikipedia.org/wiki/.fk
*.fk

// fm : https://en.wikipedia.org/wiki/.fm
com.fm
edu.fm
net.fm
org.fm
fm

// fo : https://en.wikipedia.org/wiki/.fo
fo

// fr : http://www.afnic.fr/
// domaines descriptifs :
https://www.afnic.fr/medias/documents/Cadre_legal/Afnic_Naming_Policy_12122016_VEN.pdf
fr
asso.fr
com.fr
gouv.fr
nom.fr
prd.fr
tm.fr
// domaines sectoriels : https://www.afnic.fr/en/products-and-services/the-fr-tld/sector-based-fr-domains-4.html
aeroport.fr
avocat.fr
avoues.fr
cci.fr
chambagri.fr
chirurgiens-dentistes.fr
experts-comptables.fr
geometre-expert.fr
greta.fr
```


huissier-justice.fr
medecin.fr
notaires.fr
pharmacien.fr
port.fr
veterinaire.fr

// ga : <https://en.wikipedia.org/wiki/.ga>
ga

// gb : This registry is effectively dormant
// Submitted by registry <Damien.Shaw@ja.net>
gb

// gd : <https://en.wikipedia.org/wiki/.gd>
edu.gd
gov.gd
gd

// ge : http://www.nic.net.ge/policy_en.pdf
ge
com.ge
edu.ge
gov.ge
org.ge
mil.ge
net.ge
pvt.ge

//
gf : <https://en.wikipedia.org/wiki/.gf>
gf

// gg : <http://www.channelisles.net/register-domains/>
// Confirmed by registry <nigel@channelisles.net> 2013-11-28
gg
co.gg
net.gg
org.gg

// gh : <https://en.wikipedia.org/wiki/.gh>
// see also: http://www.nic.gh/reg_now.php
// Although domains directly at second level are not possible at the moment,
// they have been possible for some time and may come back.
gh
com.gh
edu.gh
gov.gh

org.gh
mil.gh

// gi : <http://www.nic.gi/rules.html>

gi
com.gi
ltd.gi
gov.gi
mod.gi
edu.gi
org.gi

// gl : <https://en.wikipedia.org/wiki/.gl>

// <http://nic.gl>

gl
co.gl
com.gl
edu.gl
net.gl
org.gl

// gm : <http://www.nic.gm/htmlpages%5Cgm-policy.htm>

gm

// gn : <http://psg.com/dns/gn/gn.txt>

// Submitted by registry <randy@psg.com>

gn
ac.gn
com.gn
edu.gn
gov.gn
org.gn
net.gn

// gov : <https://en.wikipedia.org/wiki/.gov>

gov

// gp : <http://www.nic.gp/index.php?lang=en>

gp
com.gp
net.gp
mobi.gp
edu.gp
org.gp
asso.gp

//

gq : <https://en.wikipedia.org/wiki/.gq>

gq

// gr : <https://grweb.ics.forth.gr/english/1617-B-2005.html>

// Submitted by registry <segred@ics.forth.gr>

gr

com.gr

edu.gr

net.gr

org.gr

gov.gr

// gs : <https://en.wikipedia.org/wiki/.gs>

gs

// gt : https://www.gt/sitio/registration_policy.php?lang=en

gt

com.gt

edu.gt

gob.gt

ind.gt

mil.gt

net.gt

org.gt

// gu : <http://gadao.gov.gu/register.html>

// University of Guam : <https://www.uog.edu>

// Submitted by uognoc@triton.uog.edu

gu

com.gu

edu.gu

gov.gu

guam.gu

info.gu

net.gu

org.gu

web.gu

// gw : <https://en.wikipedia.org/wiki/.gw>

gw

// gy : <https://en.wikipedia.org/wiki/.gy>

// <http://registry.gy/>

gy

co.gy

com.gy

edu.gy

gov.gy

net.gy
org.gy

// hk : <https://www.hkirc.hk>
// Submitted by registry <hk.tech@hkirc.hk>

hk
com.hk
edu.hk
gov.hk
idv.hk
net.hk
org.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk

// hm : <https://en.wikipedia.org/wiki/.hm>
hm

// hn : <http://www.nic.hn/politicaps02,,05.html>
hn
com.hn
edu.hn
org.hn
net.hn
mil.hn
gob.hn

//
hr : <http://www.dns.hr/documents/pdf/HRTLD-regulations.pdf>
hr
iz.hr
from.hr
name.hr
com.hr

// ht : <http://www.nic.ht/info/charte.cfm>

ht
com.ht
shop.ht
firm.ht
info.ht
adult.ht
net.ht
pro.ht
org.ht
med.ht
art.ht
coop.ht
pol.ht
asso.ht
edu.ht
rel.ht
gouv.ht
perso.ht

// hu : <http://www.domain.hu/domain/English/sld.html>

// Confirmed by registry <pasztor@iszt.hu> 2008-06-12

hu
co.hu
info.hu
org.hu
priv.hu
sport.hu
tm.hu
2000.hu
agrar.hu
bolt.hu
casino.hu
city.hu
erotica.hu
erotika.hu
film.hu
forum.hu
games.hu
hotel.hu
ingatlan.hu
jogasz.hu
konyvelo.hu
lakas.hu
media.hu
news.hu
reklam.hu
sex.hu

shop.hu
suli.hu
szex.hu
tozsde.hu
utazas.hu
video.hu

// id : <https://pandi.id/en/domain/registration-requirements/>

id
ac.id
biz.id
co.id
desa.id
go.id
mil.id
my.id
net.id
or.id
ponpes.id
sch.id
web.id

// ie : <https://en.wikipedia.org/wiki/.ie>

ie
gov.ie

// il : <http://www.isoc.org.il/domains/>

il
ac.il
co.il
gov.il
idf.il
k12.il
muni.il
net.il
org.il

//

im : <https://www.nic.im/>

// Submitted by registry <info@nic.im>

im
ac.im
co.im
com.im
ltd.co.im
net.im
org.im
plc.co.im

tt.im

tv.im

// in : <https://en.wikipedia.org/wiki/.in>

// see also: <https://registry.in/Policies>

// Please note, that nic.in is not an official eTLD, but used by most

// government institutions.

in

co.in

firm.in

net.in

org.in

gen.in

ind.in

nic.in

ac.in

edu.in

res.in

gov.in

mil.in

// info : <https://en.wikipedia.org/wiki/.info>

info

// int : <https://en.wikipedia.org/wiki/.int>

// Confirmed by registry <iana-questions@icann.org> 2008-06-18

int

eu.int

// io : <http://www.nic.io/rules.html>

// list of other 2nd level tlds ?

io

com.io

// iq : <http://www.cmc.iq/english/iq/iqregister1.htm>

iq

gov.iq

edu.iq

mil.iq

com.iq

org.iq

net.iq

// ir : http://www.nic.ir/Terms_and_Conditions_ir_Appendix_1_Domain_Rules

// Also see http://www.nic.ir/Internationalized_Domain_Names

// Two <iran>.ir entries added at request of <tech-team@nic.ir>, 2010-04-16

ir

ac.ir

```
co.ir
gov.ir
id.ir
net.ir
org.ir
sch.ir
//
xn--mgb3a4f16a.ir (<iran>.ir, Persian YEH)
.ir
// xn--mgb3a4fra.ir (<iran>.ir, Arabic YEH)
.ir

// is : http://www.isnic.is/domain/rules.php
// Confirmed by registry <marius@isgate.is> 2008-12-06
is
net.is
com.is
edu.is
gov.is
org.is
int.is

// it : https://en.wikipedia.org/wiki/.it
it
gov.it
edu.it
// Reserved geo-names (regions and provinces):
// https://www.nic.it/sites/default/files/archivio/docs/Regulation_assignment_v7.1.pdf
// Regions
abr.it
abruzzo.it
aosta-valley.it
aostavalley.it
bas.it
basilicata.it
cal.it
calabria.it
cam.it
campania.it
emilia-romagna.it
emiliaromagna.it
emr.it
friuli-v-giulia.it
friuli-ve-giulia.it
friuli-vegiulia.it
friuli-venezia-giulia.it
friuli-veneziagiulia.it
friuli-vgiulia.it
```


fruliv-giulia.it
friulive-giulia.it
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Provinces

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agrigento.it
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campobasso.it
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carrara-massa.it
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catania.it
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mediocampidano.it
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olbiatempio.it
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padova.it
padua.it
palermo.it
parma.it
pavia.it
pc.it
pd.it
pe.it

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pesarourbino.it
pescara.it
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pisa.it
pistoia.it
pn.it
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pt.it
pu.it
pv.it
pz.it
ra.it
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ravenna.it
rc.it
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savona.it
si.it
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siracusa.it
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sondrio.it
sp.it

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sv.it
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tp.it
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trani-barletta-andria.it
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tranibarlettaandria.it
trapani.it
trento.it
treviso.it
trieste.it
ts.it
turin.it
tv.it
ud.it
udine.it
urbino-pesaro.it
urbinopesaro.it
va.it
varese.it
vb.it
vc.it
ve.it
venezia.it
venice.it
verbania.it
vercelli.it
verona.it
vi.it
vibo-valentia.it
vibovalentia.it
vicenza.it
viterbo.it
vr.it

vs.it
vt.it
vv.it

//
je : <http://www.channelisles.net/register-domains/>
// Confirmed by registry <nigel@channelisles.net> 2013-11-28
je
co.je
net.je
org.je

// jm : <http://www.com.jm/register.html>
*.jm

// jo : http://www.dns.jo/Registration_policy.aspx
jo
com.jo
org.jo
net.jo
edu.jo
sch.jo
gov.jo
mil.jo
name.jo

// jobs : <https://en.wikipedia.org/wiki/.jobs>
jobs

// jp : <https://en.wikipedia.org/wiki/.jp>
// <http://jprs.co.jp/en/jpdomain.html>
// Submitted by registry <info@jprs.jp>
jp
// jp organizational type names
ac.jp
ad.jp
co.jp
ed.jp
go.jp
gr.jp
lg.jp
ne.jp
or.jp
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akita.jp
aomori.jp
chiba.jp

ehime.jp
fukui.jp
fukuoka.jp
fukushima.jp
gifu.jp
gunma.jp
hiroshima.jp
hokkaido.jp
hyogo.jp
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*.nagoya.jp
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abeno.osaka.jp
chihayaakasaka.osaka.jp
chuo.osaka.jp
daito.osaka.jp
fujiidera.osaka.jp
habikino.osaka.jp
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hamatama.saga.jp
hizen.saga.jp
imari.saga.jp
kamimine.saga.jp
kanzaki.saga.jp
karatsu.saga.jp
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moroyama.saitama.jp
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namegawa.saitama.jp
niiza.saitama.jp
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okegawa.saitama.jp
omiya.saitama.jp
otaki.saitama.jp
ranzan.saitama.jp
ryokami.saitama.jp
saitama.saitama.jp
sakado.saitama.jp
satte.saitama.jp
sayama.saitama.jp
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shiraoka.saitama.jp
soka.saitama.jp
sugito.saitama.jp
toda.saitama.jp
tokigawa.saitama.jp
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tsurugashima.saitama.jp
urawa.saitama.jp
warabi.saitama.jp
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yono.saitama.jp
yorii.saitama.jp
yoshida.saitama.jp
yoshikawa.saitama.jp
yoshimi.saitama.jp
aisho.shiga.jp
gamo.shiga.jp
higashiomi.shiga.jp
hikone.shiga.jp
koka.shiga.jp
konan.shiga.jp
kosei.shiga.jp
koto.shiga.jp
kusatsu.shiga.jp
maibara.shiga.jp
moriyama.shiga.jp
nagahama.shiga.jp
nishiazai.shiga.jp
notogawa.shiga.jp
omihachiman.shiga.jp
otsu.shiga.jp
ritto.shiga.jp
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takatsuki.shiga.jp
torahime.shiga.jp
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yasu.shiga.jp
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hamada.shimane.jp
higashiizumo.shimane.jp
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izumo.shimane.jp
kakinoki.shimane.jp
masuda.shimane.jp
matsue.shimane.jp
misato.shimane.jp
nishinoshima.shimane.jp
ohda.shimane.jp
okinoshima.shimane.jp

okuizumo.shimane.jp
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yatsuka.shimane.jp
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atami.shizuoka.jp
fuji.shizuoka.jp
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fukuroi.shizuoka.jp
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haibara.shizuoka.jp
hamamatsu.shizuoka.jp
higashiizu.shizuoka.jp
ito.shizuoka.jp
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kakegawa.shizuoka.jp
kannami.shizuoka.jp
kawanehon.shizuoka.jp
kawazu.shizuoka.jp
kikugawa.shizuoka.jp
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morimachi.shizuoka.jp
nishiizu.shizuoka.jp
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yoshida.shizuoka.jp
ashikaga.tochigi.jp
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haga.tochigi.jp
ichikai.tochigi.jp

iwafune.tochigi.jp
kaminokawa.tochigi.jp
kanuma.tochigi.jp
karasuyama.tochigi.jp
kuroiso.tochigi.jp
mashiko.tochigi.jp
mibu.tochigi.jp
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motegi.tochigi.jp
nasu.tochigi.jp
nasushiobara.tochigi.jp
nikko.tochigi.jp
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takanezawa.tochigi.jp
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utsunomiya.tochigi.jp
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aizumi.tokushima.jp
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ichiba.tokushima.jp
itano.tokushima.jp
kainan.tokushima.jp
komatsushima.tokushima.jp
matsushige.tokushima.jp
mima.tokushima.jp
minami.tokushima.jp
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shishikui.tokushima.jp
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adachi.tokyo.jp
akiruno.tokyo.jp
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aogashima.tokyo.jp

arakawa.tokyo.jp
bunkyo.tokyo.jp
chiyoda.tokyo.jp
chofu.tokyo.jp
chuo.tokyo.jp
edogawa.tokyo.jp
fuchu.tokyo.jp
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hamura.tokyo.jp
higashikurume.tokyo.jp
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hino.tokyo.jp
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katsushika.tokyo.jp
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yuu.yamaguchi.jp
chuo.yamanashi.jp
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fujiyoshida.yamanashi.jp
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kosuge.yamanashi.jp
minami-alps.yamanashi.jp
minobu.yamanashi.jp
nakamichi.yamanashi.jp
nanbu.yamanashi.jp
narusawa.yamanashi.jp
nirasaki.yamanashi.jp
nishikatsura.yamanashi.jp
oshino.yamanashi.jp
otsuki.yamanashi.jp
showa.yamanashi.jp

tabayama.yamanashi.jp
tsuru.yamanashi.jp
uenohara.yamanashi.jp
yamanakako.yamanashi.jp
yamanashi.yamanashi.jp

//

ke : <http://www.kenic.or.ke/index.php/en/ke-domains/ke-domains>

ke

ac.ke

co.ke

go.ke

info.ke

me.ke

mobi.ke

ne.ke

or.ke

sc.ke

// kg : http://www.domain.kg/dmn_n.html

kg

org.kg

net.kg

com.kg

edu.kg

gov.kg

mil.kg

// kh : http://www.mptc.gov.kh/dns_registration.htm

*.kh

// ki : <http://www.ki/dns/index.html>

ki

edu.ki

biz.ki

net.ki

org.ki

gov.ki

info.ki

com.ki

// km : <https://en.wikipedia.org/wiki/.km>

// <http://www.domaine.km/documents/charte.doc>

km

org.km

nom.km

gov.km

prd.km

tm.km
edu.km
mil.km
ass.km
com.km

//

These are only mentioned as proposed suggestions at domaine.km, but
// <https://en.wikipedia.org/wiki/.km> says they're available for registration:

coop.km
asso.km
presse.km
medecin.km
notaires.km
pharmaciens.km
veterinaire.km
gouv.km

// kn : <https://en.wikipedia.org/wiki/.kn>

// <http://www.dot.kn/domainRules.html>

kn
net.kn
org.kn
edu.kn
gov.kn

// kp : http://www.kcce.kp/en_index.php

kp
com.kp
edu.kp
gov.kp
org.kp
rep.kp
tra.kp

// kr : <https://en.wikipedia.org/wiki/.kr>

// see also: <http://domain.nida.or.kr/eng/registration.jsp>

kr
ac.kr
co.kr
es.kr
go.kr
hs.kr
kg.kr
mil.kr
ms.kr
ne.kr
or.kr
pe.kr

re.kr
sc.kr
// kr geographical names
busan.kr
chungbuk.kr
chungnam.kr
daegu.kr
daejeon.kr
gangwon.kr
gwangju.kr
gyeongbuk.kr
gyeonggi.kr
gyeongnam.kr
incheon.kr
jeju.kr
jeonbuk.kr
jeonnam.kr
seoul.kr
ulsan.kr

// kw : <https://www.nic.kw/policies/>
// Confirmed by registry <nic.tech@citra.gov.kw>
kw
com.kw
edu.kw
emb.kw
gov.kw
ind.kw
net.kw
org.kw

// ky : http://www.icta.ky/da_ky_reg_dom.php
//
Confirmed by registry <kysupport@perimeterusa.com> 2008-06-17
ky
edu.ky
gov.ky
com.ky
org.ky
net.ky

// kz : <https://en.wikipedia.org/wiki/kz>
// see also: <http://www.nic.kz/rules/index.jsp>
kz
org.kz
edu.kz
net.kz
gov.kz

mil.kz
com.kz

// la : <https://en.wikipedia.org/wiki/.la>
// Submitted by registry <gavin.brown@nic.la>

la
int.la
net.la
info.la
edu.la
gov.la
per.la
com.la
org.la

// lb : <https://en.wikipedia.org/wiki/.lb>
// Submitted by registry <randy@psg.com>

lb
com.lb
edu.lb
gov.lb
net.lb
org.lb

// lc : <https://en.wikipedia.org/wiki/.lc>
// see also: <http://www.nic.lc/rules.htm>

lc
com.lc
net.lc
co.lc
org.lc
edu.lc
gov.lc

// li : <https://en.wikipedia.org/wiki/.li>
li

// lk : <https://www.nic.lk/index.php/domain-registration/lk-domain-naming-structure>

lk
gov.lk
sch.lk
net.lk
int.lk
com.lk
org.lk
edu.lk
ngo.lk
soc.lk

web.lk
ltd.lk
assn.lk
grp.lk
hotel.lk
ac.lk

// lr : <http://psg.com/dns/lr/lr.txt>
// Submitted by registry <randy@psg.com>

lr
com.lr
edu.lr
gov.lr
org.lr
net.lr

//
ls : <http://www.nic.ls/>
// Confirmed by registry <lsadmin@nic.ls>

ls
ac.ls
biz.ls
co.ls
edu.ls
gov.ls
info.ls
net.ls
org.ls
sc.ls

// lt : <https://en.wikipedia.org/wiki/.lt>
lt
// gov.lt : http://www.gov.lt/index_en.php
gov.lt

// lu : <http://www.dns.lu/en/>
lu

// lv : <http://www.nic.lv/DNS/En/generic.php>
lv
com.lv
edu.lv
gov.lv
org.lv
mil.lv
id.lv
net.lv
asn.lv

conf.lv

// ly : <http://www.nic.ly/regulations.php>

ly

com.ly

net.ly

gov.ly

plc.ly

edu.ly

sch.ly

med.ly

org.ly

id.ly

// ma : <https://en.wikipedia.org/wiki/.ma>

// http://www.anrt.ma/fr/admin/download/upload/file_fr782.pdf

ma

co.ma

net.ma

gov.ma

org.ma

ac.ma

press.ma

// mc : <http://www.nic.mc/>

mc

tm.mc

asso.mc

// md : <https://en.wikipedia.org/wiki/.md>

md

// me : <https://en.wikipedia.org/wiki/.me>

me

co.me

net.me

org.me

edu.me

ac.me

gov.me

its.me

priv.me

// mg : http://nic.mg/nicmg/?page_id=39

mg

org.mg

nom.mg

gov.mg

prd.mg
tm.mg
edu.mg
mil.mg
com.mg
co.mg

// mh : <https://en.wikipedia.org/wiki/.mh>
mh

// mil : <https://en.wikipedia.org/wiki/.mil>
mil

//
mk : <https://en.wikipedia.org/wiki/.mk>
// see also: <http://dns.marnet.net.mk/postapka.php>
mk
com.mk
org.mk
net.mk
edu.mk
gov.mk
inf.mk
name.mk

// ml : <http://www.gobin.info/domainname/ml-template.doc>
// see also: <https://en.wikipedia.org/wiki/.ml>
ml
com.ml
edu.ml
gouv.ml
gov.ml
net.ml
org.ml
presse.ml

// mm : <https://en.wikipedia.org/wiki/.mm>
*.mm

// mn : <https://en.wikipedia.org/wiki/.mn>
mn
gov.mn
edu.mn
org.mn

// mo : <http://www.monic.net.mo/>
mo
com.mo

net.mo
org.mo
edu.mo
gov.mo

// mobi : <https://en.wikipedia.org/wiki/.mobi>
mobi

// mp : <http://www.dot.mp/>
// Confirmed by registry <dcamacho@saipan.com> 2008-06-17
mp

// mq : <https://en.wikipedia.org/wiki/.mq>
mq

// mr : <https://en.wikipedia.org/wiki/.mr>
mr
gov.mr

// ms : http://www.nic.ms/pdf/MS_Domain_Name_Rules.pdf
ms
com.ms
edu.ms
gov.ms
net.ms
org.ms

// mt : <https://www.nic.org.mt/go/policy>
// Submitted by registry <help@nic.org.mt>
mt
com.mt
edu.mt
net.mt
org.mt

// mu : <https://en.wikipedia.org/wiki/.mu>
mu
com.mu
net.mu
org.mu
gov.mu
ac.mu
co.mu
or.mu

//
museum : <http://about.museum/naming/>
// <http://index.museum/>

museum
academy.museum
agriculture.museum
air.museum
airguard.museum
alabama.museum
alaska.museum
amber.museum
ambulance.museum
american.museum
americana.museum
americanantiques.museum
americanart.museum
amsterdam.museum
and.museum
annefrank.museum
anthro.museum
anthropology.museum
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archaeological.museum
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artcenter.museum
artdeco.museum
arteducation.museum
artgallery.museum
arts.museum
artsandcrafts.museum
asmatart.museum
assassination.museum
assisi.museum
association.museum
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australia.museum
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aviation.museum
axis.museum
badajoz.museum
baghdad.museum
bahn.museum
bale.museum
baltimore.museum

barcelona.museum
baseball.museum
basel.museum
baths.museum
bauern.museum
beauxarts.museum
beeldengeluid.museum
bellevue.museum
bergbau.museum
berkeley.museum
berlin.museum
bern.museum
bible.museum
bilbao.museum
bill.museum
birdart.museum
birthplace.museum
bonn.museum
boston.museum
botanical.museum
botanicalgarden.museum
botanicgarden.museum
botany.museum
brandywinevalley.museum
brasil.museum
bristol.museum
british.museum
britishcolumbia.museum
broadcast.museum
brunel.museum
brussel.museum
brussels.museum
bruxelles.museum
building.museum
burghof.museum
bus.museum
bushey.museum
cadaques.museum
california.museum
cambridge.museum
can.museum
canada.museum
capebreton.museum
carrier.museum
cartoonart.museum
casadelamoneda.museum
castle.museum
castres.museum

celtic.museum
center.museum
chattanooga.museum
cheltenham.museum
chesapeakebay.museum
chicago.museum
children.museum
childrens.museum
childrensgarden.museum
chiropractic.museum
chocolate.museum
christiansburg.museum
cincinnati.museum
cinema.museum
circus.museum
civilisation.museum
civilization.museum
civilwar.museum
clinton.museum
clock.museum
coal.museum
coastaldefence.museum
cody.museum
coldwar.museum
collection.museum
colonialwilliamsburg.museum
coloradoplateau.museum
columbia.museum
columbus.museum
communication.museum
communications.museum
community.museum
computer.museum
computerhistory.museum
comunicações.museum
contemporary.museum
contemporaryart.museum
convent.museum
copenhagen.museum
corporation.museum
correios-e-telecomunicações.museum
corvette.museum
costume.museum
countryestate.museum
county.museum
crafts.museum
cranbrook.museum
creation.museum

cultural.museum
culturalcenter.museum
culture.museum
cyber.museum
cymru.museum
dali.museum
dallas.museum
database.museum
ddr.museum
decorativearts.museum
delaware.museum
delmenhorst.museum
denmark.museum
depot.museum
design.museum
detroit.museum
dinosaur.museum
discovery.museum
dolls.museum
donostia.museum
durham.museum
eastafrica.museum
eastcoast.museum
education.museum
educational.museum
egyptian.museum
eisenbahn.museum
elburg.museum
elvendrell.museum
embroidery.museum
encyclopedic.museum
england.museum
entomology.museum
environment.museum
environmentalconservation.museum
epilepsy.museum
essex.museum
estate.museum
ethnology.museum
exeter.museum
exhibition.museum
family.museum
farm.museum
farmequipment.museum
farmers.museum
farmstead.museum
field.museum
figueres.museum

filatelia.museum
film.museum
fineart.museum
finearts.museum
finland.museum
flanders.museum
florida.museum
force.museum
fortmissoula.museum
fortworth.museum
foundation.museum
francaise.museum
frankfurt.museum
franziskaner.museum
freemasonry.museum
freiburg.museum
fribourg.museum
frog.museum
fundacio.museum
furniture.museum
gallery.museum
garden.museum
gateway.museum
geelvinck.museum
gemological.museum
geology.museum
georgia.museum
giessen.museum
glas.museum
glass.museum
gorge.museum
grandrapids.museum
graz.museum
guernsey.museum
halloffame.museum
hamburg.museum
handson.museum
harvestcelebration.museum
hawaii.museum
health.museum
heimatundhren.museum
hellas.museum
helsinki.museum
hembygdsforbund.museum
heritage.museum
histoire.museum
historical.museum
historicalsociety.museum

historichouses.museum
historisch.museum
historisches.museum
history.museum
historyofscience.museum
horology.museum
house.museum
humanities.museum
illustration.museum
imageandsound.museum
indian.museum
indiana.museum
indianapolis.museum
indianmarket.museum
intelligence.museum
interactive.museum
iraq.museum
iron.museum
isleofman.museum
jamison.museum
jefferson.museum
jerusalem.museum
jewelry.museum
jewish.museum
jewishart.museum
jfk.museum
journalism.museum
judaica.museum
judygarland.museum
juedisches.museum
juif.museum
karate.museum
karikatur.museum
kids.museum
koebenhavn.museum
koeln.museum
kunst.museum
kunstsammlung.museum
kunstunddesign.museum
labor.museum
labour.museum
lajolla.museum
lancashire.museum
landes.museum
lans.museum
läns.museum
larsson.museum
lewismiller.museum

lincoln.museum
linz.museum
living.museum
livinghistory.museum
localhistory.museum
london.museum
losangeles.museum
louvre.museum
loyalist.museum
lucerne.museum
luxembourg.museum
luzern.museum
mad.museum
madrid.museum
mallorca.museum
manchester.museum
mansion.museum
mansions.museum
manx.museum
marburg.museum
maritime.museum
maritimo.museum
maryland.museum
marylhurst.museum
media.museum
medical.museum
medizinhistorisches.museum
meeres.museum
memorial.museum
mesaverde.museum
michigan.museum
midatlantic.museum
military.museum
mill.museum
miners.museum
mining.museum
minnesota.museum
missile.museum
missoula.museum
modern.museum
moma.museum
money.museum
monmouth.museum
monticello.museum
montreal.museum
moscow.museum
motorcycle.museum
muenchen.museum

muenster.museum
mulhouse.museum
muncie.museum
museet.museum
museumcenter.museum
museumvereniging.museum
music.museum
national.museum
nationalfirearms.museum
nationalheritage.museum
nativeamerican.museum
naturalhistory.museum
naturalhistorymuseum.museum
naturalsciences.museum
nature.museum
naturhistorisches.museum
natuurwetenschappen.museum
naumburg.museum
naval.museum
nebraska.museum
neues.museum
newhampshire.museum
newjersey.museum
newmexico.museum
newport.museum
newspaper.museum
newyork.museum
niepce.museum
norfolk.museum
north.museum
nrw.museum
nyc.museum
nyny.museum
oceanographic.museum
oceanographique.museum
omaha.museum
online.museum
ontario.museum
openair.museum
oregon.museum
oregontrail.museum
otago.museum
oxford.museum
pacific.museum
paderborn.museum
palace.museum
paleo.museum
palmsprings.museum

panama.museum
paris.museum
pasadena.museum
pharmacy.museum
philadelphia.museum
philadelphiaarea.museum
philately.museum
phoenix.museum
photography.museum
pilots.museum
pittsburgh.museum
planetarium.museum
plantation.museum
plants.museum
plaza.museum
portal.museum
portland.museum
portlligat.museum
posts-and-telecommunications.museum
preservation.museum
presidio.museum
press.museum
project.museum
public.museum
pubol.museum
quebec.museum
railroad.museum
railway.museum
research.museum
resistance.museum
riodejaneiro.museum
rochester.museum
rockart.museum
roma.museum
russia.museum
saintlouis.museum
salem.museum
salvadorali.museum
salzburg.museum
sandiego.museum
sanfrancisco.museum
santabarbara.museum
santacruz.museum
santafe.museum
saskatchewan.museum
satx.museum
savannahga.museum
schlesisches.museum

schoenbrunn.museum
schokoladen.museum
school.museum
schweiz.museum
science.museum
scienceandhistory.museum
scienceandindustry.museum
sciencecenter.museum
sciencecenters.museum
science-fiction.museum
sciencehistory.museum
sciences.museum
sciencesnaturelles.museum
scotland.museum
seaport.museum
settlement.museum
settlers.museum
shell.museum
sherbrooke.museum
sibenik.museum
silk.museum
ski.museum
skole.museum
society.museum
sologne.museum
soundandvision.museum
southcarolina.museum
southwest.museum
space.museum
spy.museum
square.museum
stadt.museum
stalbans.museum
starnberg.museum
state.museum
stateofdelaware.museum
station.museum
steam.museum
steiermark.museum
stjohn.museum
stockholm.museum
stpetersburg.museum
stuttgart.museum
suisse.museum
surgeonshall.museum
surrey.museum
svizzera.museum
sweden.museum

sydney.museum
tank.museum
tcm.museum
technology.museum
telekommunikation.museum
television.museum
texas.museum
textile.museum
theater.museum
time.museum
timekeeping.museum
topology.museum
torino.museum
touch.museum
town.museum
transport.museum
tree.museum
trolley.museum
trust.museum
trustee.museum
uhren.museum
ulm.museum
undersea.museum
university.museum
usa.museum
usantiques.museum
usarts.museum
uscountrystate.museum
usculture.museum
usdecorativearts.museum
usgarden.museum
ushistory.museum
ushuaia.museum
uslivinghistory.museum
utah.museum
uvic.museum
valley.museum
vantaa.museum
versailles.museum
viking.museum
village.museum
virginia.museum
virtual.museum
virtuel.museum
vlaanderen.museum
volkenkunde.museum
wales.museum
wallonie.museum

war.museum
washingtondc.museum
watchandclock.museum
watch-and-clock.museum
western.museum
westfalen.museum
whaling.museum
wildlife.museum
williamsburg.museum
windmill.museum
workshop.museum
york.museum
yorkshire.museum
yosemite.museum
youth.museum
zoological.museum
zoology.museum
.museum
.museum

//

mv : <https://en.wikipedia.org/wiki/.mv>

// "mv" included because, contra Wikipedia, google.mv exists.

mv

aero.mv

biz.mv

com.mv

coop.mv

edu.mv

gov.mv

info.mv

int.mv

mil.mv

museum.mv

name.mv

net.mv

org.mv

pro.mv

// mw : <http://www.registrar.mw/>

mw

ac.mw

biz.mw

co.mw

com.mw

coop.mw

edu.mw

gov.mw

int.mw
museum.mw
net.mw
org.mw

// mx : <http://www.nic.mx/>
// Submitted by registry <farias@nic.mx>

mx
com.mx
org.mx
gob.mx
edu.mx
net.mx

// my : <http://www.mynic.net.my/>

my
com.my
net.my
org.my
gov.my
edu.my
mil.my
name.my

// mz : <http://www.uem.mz/>
// Submitted by registry <antonio@uem.mz>

mz
ac.mz
adv.mz
co.mz
edu.mz
gov.mz
mil.mz
net.mz
org.mz

// na : <http://www.na-nic.com.na/>

// <http://www.info.na/domain/>

na
info.na
pro.na
name.na
school.na
or.na
dr.na
us.na
mx.na
ca.na

in.na
cc.na
tv.na
ws.na
mobi.na
co.na
com.na
org.na

// name : has 2nd-level tlds,
but there's no list of them
name

// nc : <http://www.cctld.nc/>
nc
asso.nc
nom.nc

// ne : <https://en.wikipedia.org/wiki/.ne>
ne

// net : <https://en.wikipedia.org/wiki/.net>
net

// nf : <https://en.wikipedia.org/wiki/.nf>
nf
com.nf
net.nf
per.nf
rec.nf
web.nf
arts.nf
firm.nf
info.nf
other.nf
store.nf

// ng : <http://www.nira.org.ng/index.php/join-us/register-ng-domain/189-nira-slds>
ng
com.ng
edu.ng
gov.ng
i.ng
mil.ng
mobi.ng
name.ng
net.ng
org.ng

sch.ng

// ni : <http://www.nic.ni/>

ni

ac.ni

biz.ni

co.ni

com.ni

edu.ni

gob.ni

in.ni

info.ni

int.ni

mil.ni

net.ni

nom.ni

org.ni

web.ni

// nl : <https://en.wikipedia.org/wiki/.nl>

// <https://www.sidn.nl/>

// ccTLD for the Netherlands

nl

// no : <https://www.norid.no/en/om-domenenavn/regelverk-for-no/>

// Norid geographical second level domains : <https://www.norid.no/en/om-domenenavn/regelverk-for-no/vedlegg-b/>

// Norid category second level domains : <https://www.norid.no/en/om-domenenavn/regelverk-for-no/vedlegg-c/>

// Norid category second-level

domains managed by parties other than Norid : <https://www.norid.no/en/om-domenenavn/regelverk-for-no/vedlegg-d/>

no

// Norid category second level domains : <https://www.norid.no/en/om-domenenavn/regelverk-for-no/vedlegg-c/>

fhs.no

vgs.no

fylkesbibl.no

folkebibl.no

museum.no

idrett.no

priv.no

// Norid category second-level domains managed by parties other than Norid : <https://www.norid.no/en/om-domenenavn/regelverk-for-no/vedlegg-d/>

mil.no

stat.no

dep.no

kommune.no

herad.no

// Norid geographical second level domains : <https://www.norid.no/en/om-domenenavn/regelverk-for-no/vedlegg-b/>

// counties

aa.no
ah.no
bu.no
fm.no
hl.no
hm.no
jan-mayen.no
mr.no
nl.no
nt.no
of.no
ol.no
oslo.no
rl.no
sf.no
st.no
svalbard.no
tm.no
tr.no
va.no
vf.no
// primary and lower secondary schools per county
gs.aa.no
gs.ah.no
gs.bu.no
gs.fm.no
gs.hl.no
gs.hm.no
gs.jan-mayen.no
gs.mr.no
gs.nl.no
gs.nt.no
gs.of.no
gs.ol.no
gs.oslo.no
gs.rl.no
gs.sf.no
gs.st.no
gs.svalbard.no
gs.tm.no
gs.tr.no
gs.va.no
gs.vf.no
//
cities
akrehamn.no
åkrehamn.no
algard.no

ålgård.no
arna.no
brumunddal.no
bryne.no
bronnoysund.no
brønnøysund.no
drobak.no
drøbak.no
egersund.no
fetsund.no
floro.no
florø.no
fredrikstad.no
hokksund.no
honefoss.no
hønefoss.no
jessheim.no
jorpeland.no
jørpeland.no
kirkenes.no
kopervik.no
krokstadelva.no
langevag.no
langevåg.no
leirvik.no
mjondalen.no
mjøndalen.no
mo-i-rana.no
mosjoen.no
mosjøen.no
nesoddtangen.no
orkanger.no
osoyro.no
osøyro.no
raholt.no
råholt.no
sandnessjoen.no
sandnessjøen.no
skedsmokorset.no
slattum.no
spjelkavik.no
stathelle.no
stavern.no
stjordalshalsen.no
stjørdalshalsen.no
tananger.no
tranby.no
vossevangen.no

// communities

afjord.no
åfjord.no
agdenes.no
al.no
ål.no
alesund.no
ålesund.no
alstahaug.no
alta.no
áltá.no
alaheadju.no
álahheadju.no
alvdal.no
amli.no
åmli.no
amot.no
åmot.no
andebu.no
andoy.no
andøy.no
andasuolo.no
ardal.no
årdal.no
aremark.no
arendal.no
ås.no
aseral.no
åseral.no
asker.no
askim.no
askvoll.no
askoy.no
askøy.no
asnes.no
åsnes.no
audnedaln.no
aukra.no
aure.no
aurland.no
aurskog-holand.no
aurskog-høland.no
austevoll.no
austrheim.no
averoy.no
averøy.no
balestrand.no
ballangen.no

balat.no
bálát.no
balsfjord.no
bahccavuotna.no
báhccavuotna.no
bamble.no
bardu.no
beardu.no
beiarn.no
bajddar.no
bájddar.no
baidar.no
báidár.no
berg.no
bergen.no
berlevag.no
berlevåg.no
bearalvahki.no
bearalváhki.no
bindal.no
birkenes.no
bjarkoy.no
bjarkøy.no
bjerkreim.no
bjugn.no
bodo.no
bodø.no
badaddja.no
bådåddjá.no
budejju.no
bokn.no
bremanger.no
bronnøy.no
brønnøy.no
bygland.no
bykle.no
barum.no
bærum.no
bo.telemark.no
bø.telemark.no
bo.nordland.no
bø.nordland.no
bievat.no
bievát.no
bomlo.no
bømlo.no
batsfjord.no
båtsfjord.no

bahcavuotna.no
báhavuotna.no
dovre.no
drammen.no
drangedal.no
dyroy.no
dyrøy.no
donna.no
dønna.no
eid.no
eidfjord.no
eidsberg.no
eidskog.no
eidsvoll.no
eigersund.no
elverum.no
enebakk.no
engerdal.no
etne.no
etnedal.no
evenes.no
evenassi.no
evenášši.no
evje-og-hornnes.no
farsund.no
fauske.no
fuosko.no
fuoisku.no
fedje.no
fet.no
finnoy.no
finnøy.no
fitjar.no
fjaler.no
fjell.no
flakstad.no
flatanger.no
flekkefjord.no
flesberg.no
flora.no
fla.no
flå.no
folldal.no
forsand.no
fosnes.no
frei.no
frogn.no
froland.no

frosta.no
frana.no
fræna.no
froya.no
frøya.no
fusa.no
fyresdal.no
forde.no
førde.no
gamvik.no
gangaviika.no
gágaviika.no
gaular.no
gausdal.no
gildeskal.no
gildeskål.no
giske.no
gjemnes.no
gjerdrum.no
gjerstad.no
gjesdal.no
gjovik.no
gjøvik.no
gloppen.no
gol.no
gran.no
grane.no
granvin.no
gratangen.no
grimstad.no
grong.no
kraanghke.no
kråanghke.no
grue.no
gulen.no
hadsel.no
halden.no
halsa.no
hamar.no
hamaroy.no
habmer.no
hábmer.no
hapmir.no
hápmir.no
hammerfest.no
hammarfeasta.no
hámmárfeasta.no
haram.no

hareid.no
harstad.no
hasvik.no
aknoluokta.no
ákoluokta.no
hattfjeldal.no
aarborte.no
haugesund.no
hemne.no
hemnes.no
hemsedal.no
heroy.more-og-romsdal.no
herøy.møre-og-romsdal.no
heroy.nordland.no
herøy.nordland.no
hitra.no
hjartdal.no
hjelmeland.no
hobol.no
hobøl.no
hof.no
hol.no
hole.no
holmestrand.no
holtalen.no
holtålen.no
hornindal.no
horten.no
hurdal.no
hurum.no
hvaler.no
hyllestad.no
hagebostad.no
hægebostad.no
hoyanger.no
høyanger.no
hoylandet.no
høylandet.no
ha.no
hå.no
ibestad.no
inderoy.no
inderøy.no
iveland.no
jevnaker.no
jondal.no
jolster.no
jølster.no

karasjok.no
karasjohka.no
kárášjohka.no
karlsoy.no
galsa.no
gálsá.no
karmoy.no
karmøy.no
kautokeino.no
guovdageaidnu.no
klepp.no
klabu.no
klæbu.no
kongsberg.no
kongsvinger.no
kragero.no
kragerø.no
kristiansand.no
kristiansund.no
krodsherad.no
krødsherad.no
kvalsund.no
rahkkeravju.no
ráhkkerávju.no
kvam.no
kvinesdal.no
kvinnherad.no
kviteseid.no
kvitsoy.no
kvitsøy.no
kvafjord.no
kvæfjord.no
giehtavuoatna.no
kvanangen.no
kvænangen.no
navuotna.no
návuotna.no
kafjord.no
kåfjord.no
gaivuotna.no
gáivuotna.no
larvik.no
lavangen.no
lavagis.no
loabat.no
loabát.no
lebesby.no
davvesiida.no

leikanger.no
leirfjord.no
leka.no
leksvik.no
lenvik.no
leangaviika.no
leagaviika.no
lesja.no
levanger.no
lier.no
lierne.no
lillehammer.no
lillesand.no
lindesnes.no
lindas.no
lindås.no
lom.no
loppa.no
lahppi.no
láhppi.no
lund.no
lunner.no
luroy.no
lurøy.no
luster.no
lyngdal.no
lyngen.no
ivgu.no
lardal.no
lerdal.no
lærdal.no
lodingen.no
lødingen.no
lorenskog.no
lørenskog.no
loten.no
løten.no
malvik.no
masoy.no
måsøy.no
muosat.no
muosát.no
mandal.no
marker.no
marnardal.no
masfjorden.no
meland.no
meldal.no

melhus.no
meloy.no
meløy.no
meraker.no
meråker.no
moareke.no
moåreke.no
midsund.no
midtre-gauldal.no
modalen.no
modum.no
molde.no
moskenes.no
moss.no
mosvik.no
malselv.no
målselv.no
malatvuopmi.no
málatvuopmi.no
namdalseid.no
aejrie.no
namsos.no
namsskogan.no
naamesjevuemie.no
nååmesjevuemie.no
laakesvuemie.no
nannestad.no
narvik.no
narviika.no
naustdal.no
nedre-eiker.no
nes.akershus.no
nes.buskerud.no
nesna.no
nesodden.no
nesseby.no
unjarga.no
unjárga.no
nesset.no
nissedal.no
nittedal.no
nord-aurdal.no
nord-fron.no
nord-odal.no
norddal.no
nordkapp.no
davvenjarga.no
davvenjárga.no

nordre-land.no
nordreisa.no
raisa.no
ráisa.no
nore-og-uvdal.no
notodden.no
naroy.no
nærøy.no
notteroy.no
nøtterøy.no
odda.no
oksnes.no
øksnes.no
oppdal.no
oppegard.no
oppegård.no
orkdal.no
orland.no
ørland.no
orskog.no
ørskog.no
orsta.no
ørsta.no
os.hedmark.no
os.hordaland.no
osen.no
osteroy.no
osterøy.no
ostre-toten.no
østre-toten.no
overhalla.no
ovre-eiker.no
øvre-eiker.no
oyer.no
øyer.no
oygarden.no
øygarden.no
oystre-slidre.no
øystre-slidre.no
porsanger.no
porsangu.no
porságu.no
porsgrunn.no
radoy.no
radøy.no
rakkestad.no
rana.no
ruovat.no

randaberg.no
rauma.no
rendalen.no
rennebu.no
rennesoy.no
rennesøy.no
rindal.no
ringeby.no
ringerike.no
ringsaker.no
rissa.no
risor.no
risør.no
roan.no
rollag.no
rygge.no
ralingen.no
rælingen.no
rodoy.no
rødøy.no
romskog.no
rømskog.no
roros.no
røros.no
rost.no
røst.no
royken.no
røyken.no
royrvik.no
røyrvik.no
rade.no
råde.no
salangen.no
siellak.no
saldal.no
salat.no
sálát.no
sálat.no
samnanger.no
sande.more-og-romsdal.no
sande.møre-og-romsdal.no
sande.vestfold.no
sandefjord.no
sandnes.no
sandoy.no
sandøy.no
sarpsborg.no
sauda.no

sauherad.no
sel.no
selbu.no
selje.no
seljord.no
sigdal.no
siljan.no
sirdal.no
skaun.no
skedsmo.no
ski.no
skien.no
skiptvet.no
skjervoy.no
skjervøy.no
skierva.no
skiervá.no
skjak.no
skjåk.no
skodje.no
skanland.no
skånland.no
skanit.no
skánit.no
smola.no
smøla.no
snillfjord.no
snasa.no
snåsa.no
snoasa.no
snaase.no
snåase.no
sogndal.no
sokndal.no
sola.no
solund.no
songdalen.no
sortland.no
spydeberg.no
stange.no
stavanger.no
steigen.no
steinkjer.no
stjordal.no
stjørdal.no
stokke.no
stor-elvdal.no
stord.no

stordal.no
storfjord.no
omasvuotna.no
strand.no
stranda.no
stryn.no
sula.no
suldal.no
sund.no
sunddal.no
surnadal.no
sveio.no
svelvik.no
sykkylven.no
sogne.no
søgne.no
somna.no
sømna.no
sondre-land.no
søndre-land.no
sor-aurdal.no
sør-aurdal.no
sor-fron.no
sør-fron.no
sor-odal.no
sør-odal.no
sor-varanger.no
sør-varanger.no
matta-varjvat.no
mátta-várjvat.no
sorfold.no
sørfold.no
sorreisa.no
sørreisa.no
sorum.no
sørum.no
tana.no
deatnu.no
time.no
tingvoll.no
tinn.no
tjeldsund.no
dieiddanuorri.no
tjome.no
tjøme.no
tokke.no
tolga.no
torsken.no

tranoy.no
tranøy.no
tromso.no
tromsø.no
tromsa.no
romsa.no
trondheim.no
troandin.no
trysil.no
trana.no
træna.no
trogstad.no
trøgstad.no
tvedestrand.no
tydal.no
tynset.no
tysfjord.no
divtasvuodna.no
divttasvuotna.no
tysnes.no
tysvar.no
tysvær.no
tonsberg.no
tønsberg.no
ullensaker.no
ullensvang.no
ulvik.no
utsira.no
vadso.no
vadsø.no
cahcesuolo.no
áhcesuolo.no
vaksdal.no
valle.no
vang.no
vanylven.no
vardo.no
vardø.no
varggat.no
várggát.no
vefsn.no
vaapste.no
vega.no
vegarshei.no
vegårshei.no
vennesla.no
verdal.no
verran.no

vestby.no
vestnes.no
vestre-slidre.no
vestre-toten.no
vestvagoy.no
vestvågøy.no
vevelstad.no
vik.no
vikna.no
vindafjord.no
volda.no
voss.no
varoy.no
værøy.no
vagan.no
vågan.no
voagat.no
vagsoy.no
vågsøy.no
vaga.no
vågå.no
valer.ostfold.no
våler.østfold.no
valer.hedmark.no
våler.hedmark.no

//

np : <http://www.mos.com.np/register.html>

*.np

// nr : <http://cenpac.net.nr/dns/index.html>

//

Submitted by registry <technician@cenpac.net.nr>

nr

biz.nr

info.nr

gov.nr

edu.nr

org.nr

net.nr

com.nr

// nu : <https://en.wikipedia.org/wiki/nu>

nu

// nz : <https://en.wikipedia.org/wiki/nz>

// Submitted by registry <jay@nzrs.net.nz>

nz

ac.nz
co.nz
cri.nz
geek.nz
gen.nz
govt.nz
health.nz
iwi.nz
kiwi.nz
maori.nz
mil.nz
mori.nz
net.nz
org.nz
parliament.nz
school.nz

// om : <https://en.wikipedia.org/wiki/.om>

om
co.om
com.om
edu.om
gov.om
med.om
museum.om
net.om
org.om
pro.om

// onion : <https://tools.ietf.org/html/rfc7686>

onion

// org : <https://en.wikipedia.org/wiki/.org>

org

// pa : <http://www.nic.pa/>

// Some additional second level "domains" resolve directly as hostnames, such as

// pannet.pa, so we add a rule for "pa".

pa
ac.pa
gob.pa
com.pa
org.pa
sld.pa
edu.pa
net.pa
ing.pa
abo.pa

med.pa
nom.pa

// pe : <https://www.nic.pe/InformeFinalComision.pdf>

pe
edu.pe
gob.pe
nom.pe
mil.pe
org.pe
com.pe
net.pe

// pf : <http://www.gobin.info/domainname/formulaire-pf.pdf>

pf
com.pf
org.pf
edu.pf

//

pg : <https://en.wikipedia.org/wiki/.pg>
*.pg

// ph : <http://www.domains.ph/FAQ2.asp>

// Submitted by registry <jed@email.com.ph>

ph
com.ph
net.ph
org.ph
gov.ph
edu.ph
ngo.ph
mil.ph
i.ph

// pk : <http://pk5.pknic.net.pk/pk5/msgNamepk.PK>

pk
com.pk
net.pk
edu.pk
org.pk
fam.pk
biz.pk
web.pk
gov.pk
gob.pk
gok.pk
gon.pk

gop.pk
gos.pk
info.pk

// pl <http://www.dns.pl/english/index.html>

// Submitted by registry

pl

com.pl

net.pl

org.pl

// pl functional domains (<http://www.dns.pl/english/index.html>)

aid.pl

agro.pl

atm.pl

auto.pl

biz.pl

edu.pl

gmina.pl

gsm.pl

info.pl

mail.pl

miasta.pl

media.pl

mil.pl

nieruchomosci.pl

nom.pl

pc.pl

powiat.pl

priv.pl

realestate.pl

rel.pl

sex.pl

shop.pl

sklep.pl

sos.pl

szkola.pl

targi.pl

tm.pl

tourism.pl

travel.pl

turystyka.pl

// Government domains

gov.pl

ap.gov.pl

ic.gov.pl

is.gov.pl

us.gov.pl

kmpsp.gov.pl

kppsp.gov.pl
kwpsp.gov.pl
psp.gov.pl
wskr.gov.pl
kwp.gov.pl
mw.gov.pl
ug.gov.pl
um.gov.pl
umig.gov.pl
ugim.gov.pl
upow.gov.pl
uw.gov.pl
starostwo.gov.pl
pa.gov.pl
po.gov.pl
psse.gov.pl
pup.gov.pl
rzgw.gov.pl
sa.gov.pl
so.gov.pl
sr.gov.pl
wsa.gov.pl
sko.gov.pl
uzs.gov.pl
wiih.gov.pl
winb.gov.pl
pinb.gov.pl
wios.gov.pl
witd.gov.pl
wzmiuw.gov.pl
piw.gov.pl
wiw.gov.pl
griw.gov.pl
wif.gov.pl
oum.gov.pl
sdn.gov.pl
zp.gov.pl
uppo.gov.pl
mup.gov.pl
wuoż.gov.pl
konsulat.gov.pl
oirm.gov.pl
//
pl regional domains (<http://www.dns.pl/english/index.html>)
augustow.pl
babia-gora.pl
bedzin.pl
beskidy.pl

bialowieza.pl
bialystok.pl
bielawa.pl
bieszczady.pl
boleslawiec.pl
bydgoszcz.pl
bytom.pl
cieszyn.pl
czeladz.pl
czest.pl
dlugoleka.pl
elblag.pl
elk.pl
glogow.pl
gniezno.pl
gorlice.pl
grajewo.pl
ilawa.pl
jaworzno.pl
jelenia-gora.pl
jgora.pl
kalisz.pl
kazimierz-dolny.pl
karpacz.pl
kartuzy.pl
kaszuby.pl
katowice.pl
kepno.pl
ketrzyn.pl
klodzko.pl
kobierzyce.pl
kolobrzeg.pl
konin.pl
konskowola.pl
kutno.pl
lapy.pl
lebork.pl
legnica.pl
lezajsk.pl
limanowa.pl
lomza.pl
lowicz.pl
lubin.pl
lukow.pl
malbork.pl
malopolska.pl
mazowsze.pl
mazury.pl

mielec.pl
mielno.pl
mragowo.pl
naklo.pl
nowaruda.pl
nysa.pl
olawa.pl
olecko.pl
olkusz.pl
olsztyn.pl
opoczno.pl
opole.pl
ostroda.pl
ostroleka.pl
ostrowiec.pl
ostrowwlkp.pl
pila.pl
pisz.pl
podhale.pl
podlasie.pl
polkowice.pl
pomorze.pl
pomorskie.pl
prochowice.pl
pruszkow.pl
przeworsk.pl
pulawy.pl
radom.pl
rawa-maz.pl
rybnik.pl
rzeszow.pl
sanok.pl
sejny.pl
slask.pl
slupsk.pl
sosnowiec.pl
stalowa-wola.pl
skoczow.pl
starachowice.pl
stargard.pl
suwalki.pl
swidnica.pl
swiebodzin.pl
swinoujscie.pl
szczecin.pl
szczytno.pl
tarnobrzeg.pl
tgory.pl

turek.pl
tychy.pl
ustka.pl
walbrzych.pl
warmia.pl
warszawa.pl
waw.pl
wegrow.pl
wielun.pl
wlocl.pl
wloclawek.pl
wodzislaw.pl
wolomin.pl
wroclaw.pl
zachpomor.pl
zagan.pl
zarow.pl
zgora.pl
zgorzelec.pl

//

pm : <http://www.afnic.fr/medias/documents/AFNIC-naming-policy2012.pdf>
pm

// pn : <http://www.government.pn/PnRegistry/policies.htm>

pn
gov.pn
co.pn
org.pn
edu.pn
net.pn

// post : <https://en.wikipedia.org/wiki/.post>
post

// pr : <http://www.nic.pr/index.asp?f=1>

pr
com.pr
net.pr
org.pr
gov.pr
edu.pr
isla.pr
pro.pr
biz.pr
info.pr
name.pr

//

these aren't mentioned on nic.pr, but on <https://en.wikipedia.org/wiki/.pr>

est.pr

prof.pr

ac.pr

// pro : <http://registry.pro/get-pro>

pro

aaa.pro

aca.pro

acct.pro

avocat.pro

bar.pro

cpa.pro

eng.pro

jur.pro

law.pro

med.pro

recht.pro

// ps : <https://en.wikipedia.org/wiki/.ps>

// <http://www.nic.ps/registration/policy.html#reg>

ps

edu.ps

gov.ps

sec.ps

plo.ps

com.ps

org.ps

net.ps

// pt : http://online.dns.pt/dns/start_dns

pt

net.pt

gov.pt

org.pt

edu.pt

int.pt

publ.pt

com.pt

nome.pt

// pw : <https://en.wikipedia.org/wiki/.pw>

pw

co.pw

ne.pw

or.pw

ed.pw

go.pw

belau.pw

// py : http://www.nic.py/pautas.html#seccion_9

// Submitted by registry

py

com.py

coop.py

edu.py

gov.py

mil.py

net.py

org.py

// qa : <http://domains.qa/en/>

qa

com.qa

edu.qa

gov.qa

mil.qa

name.qa

net.qa

org.qa

sch.qa

// re : <http://www.afnic.re/obtenir/chartes/nommage-re/annexe-descriptifs>

re

asso.re

com.re

nom.re

// ro : <http://www.rotld.ro/>

ro

arts.ro

com.ro

firm.ro

info.ro

nom.ro

nt.ro

org.ro

rec.ro

store.ro

tm.ro

www.ro

//

rs : <https://www.rnids.rs/en/domains/national-domains>

rs

ac.rs

co.rs
edu.rs
gov.rs
in.rs
org.rs

// ru : https://cctld.ru/files/pdf/docs/en/rules_ru-rf.pdf
// Submitted by George Georgievsky <gug@cctld.ru>
ru

// rw : https://www.ricta.org.rw/sites/default/files/resources/registry_registrar_contract_0.pdf
rw
ac.rw
co.rw
coop.rw
gov.rw
mil.rw
net.rw
org.rw

// sa : <http://www.nic.net.sa/>
sa
com.sa
net.sa
org.sa
gov.sa
med.sa
pub.sa
edu.sa
sch.sa

// sb : <http://www.sbnic.net.sb/>
// Submitted by registry <lee.humphries@telekom.com.sb>
sb
com.sb
edu.sb
gov.sb
net.sb
org.sb

// sc : <http://www.nic.sc/>
sc
com.sc
gov.sc
net.sc
org.sc
edu.sc

// sd : http://www.isoc.sd/sudanic.isoc.sd/billing_pricing.htm

// Submitted by registry <admin@isoc.sd>

sd

com.sd

net.sd

org.sd

edu.sd

med.sd

tv.sd

gov.sd

info.sd

// se : <https://en.wikipedia.org/wiki/.se>

// Submitted by registry <patrik.wallstrom@iis.se>

se

a.se

ac.se

b.se

bd.se

brand.se

c.se

d.se

e.se

f.se

fh.se

fhs.se

fhv.se

g.se

h.se

i.se

k.se

komforb.se

kommunalforbund.se

komvux.se

l.se

lanbib.se

m.se

n.se

naturbruksgymn.se

o.se

org.se

p.se

parti.se

pp.se

press.se

r.se

s.se

t.se

tm.se
u.se
w.se
x.se
y.se
z.se

//

sg : <http://www.nic.net.sg/page/registration-policies-procedures-and-guidelines>

sg

com.sg

net.sg

org.sg

gov.sg

edu.sg

per.sg

// sh : <http://www.nic.sh/registrar.html>

sh

com.sh

net.sh

gov.sh

org.sh

mil.sh

// si : <https://en.wikipedia.org/wiki/.si>

si

// sj : No registrations at this time.

// Submitted by registry <jarle@uninett.no>

sj

// sk : <https://en.wikipedia.org/wiki/.sk>

// list of 2nd level domains ?

sk

// sl : <http://www.nic.sl>

// Submitted by registry <adam@neoip.com>

sl

com.sl

net.sl

edu.sl

gov.sl

org.sl

// sm : <https://en.wikipedia.org/wiki/.sm>

sm

// sn : <https://en.wikipedia.org/wiki/.sn>

sn

art.sn

com.sn

edu.sn

gouv.sn

org.sn

perso.sn

univ.sn

// so : <http://sonic.so/policies/>

so

com.so

edu.so

gov.so

me.so

net.so

org.so

// sr

: <https://en.wikipedia.org/wiki/.sr>

sr

// ss : <https://registry.nic.ss/>

// Submitted by registry <technical@nic.ss>

ss

biz.ss

com.ss

edu.ss

gov.ss

net.ss

org.ss

// st : <http://www.nic.st/html/policyrules/>

st

co.st

com.st

consulado.st

edu.st

embaixada.st

gov.st

mil.st

net.st

org.st

principe.st

saotome.st

store.st

// su : <https://en.wikipedia.org/wiki/.su>

su

// sv : <http://www.svnet.org/sv/niveldos.pdf>

sv

com.sv

edu.sv

gob.sv

org.sv

red.sv

// sx : <https://en.wikipedia.org/wiki/.sx>

// Submitted by registry <jcvignes@openregistry.com>

sx

gov.sx

// sy : <https://en.wikipedia.org/wiki/.sy>

// see also: <http://www.gobin.info/domainname/sy.doc>

sy

edu.sy

gov.sy

net.sy

mil.sy

com.sy

org.sy

// sz : <https://en.wikipedia.org/wiki/.sz>

// <http://www.sispa.org.sz/>

sz

co.sz

ac.sz

org.sz

// tc : <https://en.wikipedia.org/wiki/.tc>

tc

// td : <https://en.wikipedia.org/wiki/.td>

td

// tel: <https://en.wikipedia.org/wiki/.tel>

// <http://www.telnic.org/>

tel

// tf : <https://en.wikipedia.org/wiki/.tf>

tf

//

tg : <https://en.wikipedia.org/wiki/tg>

// <http://www.nic.tg/>

tg

// th : <https://en.wikipedia.org/wiki/th>

// Submitted by registry <krit@thains.co.th>

th

ac.th

co.th

go.th

in.th

mi.th

net.th

or.th

// tj : <http://www.nic.tj/policy.html>

tj

ac.tj

biz.tj

co.tj

com.tj

edu.tj

go.tj

gov.tj

int.tj

mil.tj

name.tj

net.tj

nic.tj

org.tj

test.tj

web.tj

// tk : <https://en.wikipedia.org/wiki/tk>

tk

// tl : <https://en.wikipedia.org/wiki/tl>

tl

gov.tl

// tm : <http://www.nic.tm/local.html>

tm

com.tm

co.tm

org.tm

net.tm

nom.tm

gov.tm

mil.tm

edu.tm

// tn : <https://en.wikipedia.org/wiki/.tn>

// <http://whois.ati.tn/>

tn

com.tn

ens.tn

fin.tn

gov.tn

ind.tn

intl.tn

nat.tn

net.tn

org.tn

info.tn

perso.tn

tourism.tn

edunet.tn

rnrt.tn

rns.tn

rnu.tn

mincom.tn

agrinet.tn

defense.tn

turen.tn

// to : <https://en.wikipedia.org/wiki/.to>

// Submitted by registry <egullich@colo.to>

to

com.to

gov.to

net.to

org.to

edu.to

mil.to

// tr : <https://nic.tr/>

// <https://nic.tr/forms/eng/policies.pdf>

// <https://nic.tr/index.php?USRACTN=PRICELST>

tr

av.tr

bbs.tr

bel.tr

biz.tr

com.tr

dr.tr

edu.tr

gen.tr
gov.tr
info.tr
mil.tr
k12.tr
kep.tr
name.tr
net.tr
org.tr
pol.tr
tel.tr
tsk.tr
tv.tr
web.tr

//

Used by Northern Cyprus

nc.tr

// Used by government agencies of Northern Cyprus

gov.nc.tr

// tt : <http://www.nic.tt/>

tt

co.tt

com.tt

org.tt

net.tt

biz.tt

info.tt

pro.tt

int.tt

coop.tt

jobs.tt

mobi.tt

travel.tt

museum.tt

aero.tt

name.tt

gov.tt

edu.tt

// tv : <https://en.wikipedia.org/wiki/.tv>

// Not listing any 2LDs as reserved since none seem to exist in practice,

// Wikipedia notwithstanding.

tv

// tw : <https://en.wikipedia.org/wiki/.tw>

tw

edu.tw

gov.tw
mil.tw
com.tw
net.tw
org.tw
idv.tw
game.tw
ebiz.tw
club.tw
.tw
.tw
.tw

// tz : <http://www.tznic.or.tz/index.php/domains>
// Submitted by registry <manager@tznic.or.tz>
tz
ac.tz
co.tz
go.tz
hotel.tz
info.tz
me.tz
mil.tz
mobi.tz
ne.tz
or.tz
sc.tz
tv.tz

// ua : <https://hostmaster.ua/policy/?ua>
// Submitted by registry <dk@cctld.ua>
ua
// ua 2LD
com.ua
edu.ua
gov.ua
in.ua
net.ua
org.ua
//
ua geographic names
// <https://hostmaster.ua/2ld/>
cherkassy.ua
cherkasy.ua
chernigov.ua
chernihiv.ua
chernivtsi.ua
chernovtsy.ua

ck.ua
cn.ua
cr.ua
crimea.ua
cv.ua
dn.ua
dnepropetrovsk.ua
dnipropetrovsk.ua
donetsk.ua
dp.ua
if.ua
ivano-frankivsk.ua
kh.ua
kharkiv.ua
kharkov.ua
kherson.ua
khmelnitskiy.ua
khmelnyskyi.ua
kiev.ua
kirovograd.ua
km.ua
kr.ua
krym.ua
ks.ua
kv.ua
kyiv.ua
lg.ua
lt.ua
lugansk.ua
lutsk.ua
lv.ua
lviv.ua
mk.ua
mykolaiv.ua
nikolaev.ua
od.ua
odesa.ua
odessa.ua
pl.ua
poltava.ua
rivne.ua
rovno.ua
rv.ua
sb.ua
sebastopol.ua
sevastopol.ua
sm.ua
sumy.ua

te.ua
ternopil.ua
uz.ua
uzhgorod.ua
vinnica.ua
vinnytsia.ua
vn.ua
volyn.ua
yalta.ua
zaporizhzhhe.ua
zaporizhzhia.ua
zhitomir.ua
zhytomyr.ua
zp.ua
zt.ua

// ug : <https://www.registry.co.ug/>

ug
co.ug
or.ug
ac.ug
sc.ug
go.ug
ne.ug
com.ug
org.ug

// uk : <https://en.wikipedia.org/wiki/.uk>

// Submitted by registry <Michael.Daly@nominet.org.uk>

uk
ac.uk
co.uk
gov.uk
ltd.uk
me.uk
net.uk
nhs.uk
org.uk
plc.uk
police.uk
*.sch.uk

//

us : <https://en.wikipedia.org/wiki/.us>

us
dni.us
fed.us
isa.us

kids.us
nsn.us
// us geographic names
ak.us
al.us
ar.us
as.us
az.us
ca.us
co.us
ct.us
dc.us
de.us
fl.us
ga.us
gu.us
hi.us
ia.us
id.us
il.us
in.us
ks.us
ky.us
la.us
ma.us
md.us
me.us
mi.us
mn.us
mo.us
ms.us
mt.us
nc.us
nd.us
ne.us
nh.us
nj.us
nm.us
nv.us
ny.us
oh.us
ok.us
or.us
pa.us
pr.us
ri.us
sc.us
sd.us

tn.us

tx.us

ut.us

vi.us

vt.us

va.us

wa.us

wi.us

wv.us

wy.us

// The registrar notes several more specific domains available in each state,

// such as state.*.us, dst.*.us, etc., but resolution of these is somewhat

// haphazard; in some states these domains resolve as addresses, while in others

// only subdomains are available, or even nothing at all. We include the

// most common ones where it's clear that different sites are different

// entities.

k12.ak.us

k12.al.us

k12.ar.us

k12.as.us

k12.az.us

k12.ca.us

k12.co.us

k12.ct.us

k12.dc.us

k12.de.us

k12.fl.us

k12.ga.us

k12.gu.us

// k12.hi.us Bug 614565

- Hawaii has a state-wide DOE login

k12.ia.us

k12.id.us

k12.il.us

k12.in.us

k12.ks.us

k12.ky.us

k12.la.us

k12.ma.us

k12.md.us

k12.me.us

k12.mi.us

k12.mn.us

k12.mo.us

k12.ms.us

k12.mt.us

k12.nc.us

// k12.nd.us Bug 1028347 - Removed at request of Travis Rosso <trossow@nd.gov>

k12.ne.us
k12.nh.us
k12.nj.us
k12.nm.us
k12.nv.us
k12.ny.us
k12.oh.us
k12.ok.us
k12.or.us
k12.pa.us
k12.pr.us
// k12.ri.us Removed at request of Kim Cournoyer <netsupport@staff.ri.net>
k12.sc.us
// k12.sd.us Bug 934131 - Removed at request of James Booze <James.Booze@k12.sd.us>
k12.tn.us
k12.tx.us
k12.ut.us
k12.vi.us
k12.vt.us
k12.va.us
k12.wa.us
k12.wi.us
// k12.wv.us Bug 947705 - Removed at request of Verne Britton <verne@wvnet.edu>
k12.wy.us
cc.ak.us
cc.al.us
cc.ar.us
cc.as.us
cc.az.us
cc.ca.us
cc.co.us
cc.ct.us
cc.dc.us
cc.de.us
cc.fl.us
cc.ga.us
cc.gu.us
cc.hi.us
cc.ia.us
cc.id.us
cc.il.us
cc.in.us
cc.ks.us
cc.ky.us
cc.la.us
cc.ma.us
cc.md.us
cc.me.us

cc.mi.us
cc.mn.us
cc.mo.us
cc.ms.us
cc.mt.us
cc.nc.us
cc.nd.us
cc.ne.us
cc.nh.us
cc.nj.us
cc.nm.us
cc.nv.us
cc.ny.us
cc.oh.us
cc.ok.us
cc.or.us
cc.pa.us
cc.pr.us
cc.ri.us
cc.sc.us
cc.sd.us
cc.tn.us
cc.tx.us
cc.ut.us
cc.vi.us
cc.vt.us
cc.va.us
cc.wa.us
cc.wi.us
cc.wv.us
cc.wy.us
lib.ak.us
lib.al.us
lib.ar.us
lib.as.us
lib.az.us
lib.ca.us
lib.co.us
lib.ct.us
lib.dc.us
//
lib.de.us Issue #243 - Moved to Private section at request of Ed Moore <Ed.Moore@lib.de.us>
lib.fl.us
lib.ga.us
lib.gu.us
lib.hi.us
lib.ia.us
lib.id.us

lib.il.us
lib.in.us
lib.ks.us
lib.ky.us
lib.la.us
lib.ma.us
lib.md.us
lib.me.us
lib.mi.us
lib.mn.us
lib.mo.us
lib.ms.us
lib.mt.us
lib.nc.us
lib.nd.us
lib.ne.us
lib.nh.us
lib.nj.us
lib.nm.us
lib.nv.us
lib.ny.us
lib.oh.us
lib.ok.us
lib.or.us
lib.pa.us
lib.pr.us
lib.ri.us
lib.sc.us
lib.sd.us
lib.tn.us
lib.tx.us
lib.ut.us
lib.vi.us
lib.vt.us
lib.va.us
lib.wa.us
lib.wi.us
// lib.wv.us Bug 941670 - Removed at request of Larry W Arnold <arnold@wvlc.lib.wv.us>
lib.wy.us
// k12.ma.us contains school districts in Massachusetts. The 4LDs
are
// managed independently except for private (PVT), charter (CHTR) and
// parochial (PAROCH) schools. Those are delegated directly to the
// 5LD operators. <k12-ma-hostmaster _ at _ rsuc.gweep.net>
pvt.k12.ma.us
chtr.k12.ma.us
paroch.k12.ma.us
// Merit Network, Inc. maintains the registry for =~/(k12|cc|lib).mi.us/ and the following

// see also: <http://domreg.merit.edu>
// see also: `whois -h whois.domreg.merit.edu help`
ann-arbor.mi.us
cog.mi.us
dst.mi.us
eaton.mi.us
gen.mi.us
mus.mi.us
tec.mi.us
washtenaw.mi.us

// uy : <http://www.nic.org.uy/>
uy
com.uy
edu.uy
gub.uy
mil.uy
net.uy
org.uy

// uz : <http://www.reg.uz/>
uz
co.uz
com.uz
net.uz
org.uz

// va : <https://en.wikipedia.org/wiki/.va>
va

// vc : <https://en.wikipedia.org/wiki/.vc>
// Submitted by registry <kshah@ca.afilias.info>
vc
com.vc
net.vc
org.vc
gov.vc
mil.vc
edu.vc

// ve : <https://registro.nic.ve/>
// Submitted by registry
ve
arts.ve
co.ve
com.ve
e12.ve
edu.ve

firm.ve
gob.ve
gov.ve
info.ve
int.ve
mil.ve
net.ve
org.ve
rec.ve
store.ve
tec.ve
web.ve

//

vg : <https://en.wikipedia.org/wiki/.vg>

vg

// vi : <http://www.nic.vi/newdomainform.htm>

// http://www.nic.vi/Domain_Rules/body_domain_rules.html indicates some other

// TLDs are "reserved", such as edu.vi and gov.vi, but doesn't actually say they

// are available for registration (which they do not seem to be).

vi

co.vi

com.vi

k12.vi

net.vi

org.vi

// vn : <https://www.dot.vn/vnnic/vnnic/domainregistration.jsp>

vn

com.vn

net.vn

org.vn

edu.vn

gov.vn

int.vn

ac.vn

biz.vn

info.vn

name.vn

pro.vn

health.vn

// vu : <https://en.wikipedia.org/wiki/.vu>

// <http://www.vunic.vu/>

vu

com.vu

edu.vu

net.vu

org.vu

// wf : <http://www.afnic.fr/medias/documents/AFNIC-naming-policy2012.pdf>
wf

// ws : <https://en.wikipedia.org/wiki/.ws>

// <http://samoanic.ws/index.dhtml>

ws

com.ws

net.ws

org.ws

gov.ws

edu.ws

// yt : <http://www.afnic.fr/medias/documents/AFNIC-naming-policy2012.pdf>
yt

// IDN ccTLDs

// When submitting patches, please maintain a sort by ISO 3166 ccTLD, then

//

U-label, and follow this format:

// // A-Label ("[Latin renderings](#)", [language name](#)[, [variant info](#)]) : [ISO 3166 ccTLD](#)

// // [[sponsoring org](#)]

// U-Label

// xn--mgbam7a8h ("Emerat", Arabic) : AE

// <http://nic.ae/english/arabicdomain/rules.jsp>

// xn--y9a3aq ("hye", Armenian) : AM

// ISOC AM (operated by .am Registry)

// xn--54b7fta0cc ("Bangla", Bangla) : BD

// xn--90ae ("bg", Bulgarian) : BG

// xn--90ais ("bel", Belarusian/Russian Cyrillic) : BY

// Operated by .by registry

// xn--fiqs8s ("Zhongguo/China", Chinese, Simplified) : CN

// CNNIC

// <http://cnnic.cn/html/Dir/2005/10/11/3218.htm>

// xn--fiqz9s ("Zhongguo/China", Chinese, Traditional) : CN
// CNNIC
// <http://cnnic.cn/html/Dir/2005/10/11/3218.htm>

// xn--lgbbat1ad8j ("Algeria/Al Jazair", Arabic) : DZ

// xn--wgbh1c ("Egypt/Masr", Arabic) : EG
// <http://www.dotmasr.eg/>

// xn--e1a4c ("eu", Cyrillic) : EU
// <https://eurid.eu>

// xn--qxa6a ("eu", Greek) : EU
// <https://eurid.eu>

//
xn--mgbah1a3hjkrd ("Mauritania", Arabic) : MR

// xn--node ("ge", Georgian Mkhedruli) : GE

// xn--qxam ("el", Greek) : GR
// Hellenic Ministry of Infrastructure, Transport, and Networks

// xn--j6w193g ("Hong Kong", Chinese) : HK
// <https://www.hkirc.hk>
// Submitted by registry <hk.tech@hkirc.hk>
// <https://www.hkirc.hk/content.jsp?id=30#!/34>

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. .
. .
. .
. .
. .

// xn--2scrj9c ("Bharat", Kannada) : IN
// India

// xn--3hcrj9c ("Bharat", Oriya) : IN
// India

// xn--45br5cyl ("Bharatam", Assamese) : IN
// India

// xn--h2breg3eve ("Bharatam", Sanskrit) : IN
// India

// xn--h2brj9c8c ("Bharot", Santali) : IN
// India

// xn--mgbgu82a ("Bharat", Sindhi) : IN
// India

// xn--rvc1e0am3e ("Bharatam", Malayalam) : IN
// India

// xn--h2brj9c ("Bharat", Devanagari) : IN
// India

// xn--mgbbh1a ("Bharat", Kashmiri) : IN
// India

// xn--mgbbh1a71e ("Bharat", Arabic) : IN
// India

// xn--fpcrj9c3d
("Bharat", Telugu) : IN
// India

// xn--gecrj9c ("Bharat", Gujarati) : IN
// India

// xn--s9brj9c ("Bharat", Gurmukhi) : IN
// India

// xn--45brj9c ("Bharat", Bengali) : IN

// India

// xn--xkc2dl3a5ee0h ("India", Tamil) : IN

// India

// xn--mgb3a4f16a ("Iran", Persian) : IR

// xn--mgb3a4fra ("Iran", Arabic) : IR

// xn--mgbtx2b ("Iraq", Arabic) : IQ

// Communications and Media Commission

// xn--mgbayh7gpa ("al-Ordon", Arabic) : JO

// National Information Technology Center (NITC)

// Royal Scientific Society, Al-Jubeiha

// xn--3e0b707e ("Republic of Korea", Hangul) : KR

// xn--80ao21a ("Kaz", Kazakh) : KZ

// xn--fzc2c9e2c ("Lanka", Sinhalese-Sinhala) : LK

// <https://nic.lk>

// xn--xkc2al3hye2a ("Ilangai", Tamil) : LK

// <https://nic.lk>

// xn--mgb0a9azcg ("Morocco/al-Maghrib", Arabic) : MA

// xn--d1alf ("mkd", Macedonian) : MK

// MARnet

// xn--l1acc ("mon", Mongolian) : MN

// xn--mix891f
("Macao", Chinese, Traditional) : MO
// MONIC / HNET Asia (Registry Operator for .mo)

// xn--mix082f ("Macao", Chinese, Simplified) : MO

// xn--mgbx4cd0ab ("Malaysia", Malay) : MY

// xn--mgb9awbf ("Oman", Arabic) : OM

// xn--mgbai9azgqp6j ("Pakistan", Urdu/Arabic) : PK

// xn--mgbai9a5eva00b ("Pakistan", Urdu/Arabic, variant) : PK

// xn--ygbi2ammx ("Falasteen", Arabic) : PS
// The Palestinian National Internet Naming Authority (PNINA)
// <http://www.pnina.ps>

// xn--90a3ac ("srb", Cyrillic) : RS
// <https://www.rnids.rs/en/domains/national-domains>

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// xn--p1ai ("rf", Russian-Cyrillic) : RU
// https://cctld.ru/files/pdf/docs/en/rules_ru-rf.pdf
// Submitted by George Georgievsky <gug@cctld.ru>

// xn--wgb16a ("Qatar", Arabic) : QA
// <http://www.ict.gov.qa/>

// xn--mgberp4a5d4ar ("AlSaudiah", Arabic) : SA
// <http://www.nic.net.sa/>

// xn--mgberp4a5d4a87g ("AlSaudiah", Arabic,
variant) : SA

// xn--mgbqly7c0a67fbc ("AlSaudiah", Arabic, variant) : SA

// xn--mgbqly7cvafr ("AlSaudiah", Arabic, variant) : SA

// xn--mgbpl2fh ("sudan", Arabic) : SD

// Operated by .sd registry

// xn--yfro4i67o Singapore ("Singapore", Chinese) : SG

// xn--clchc0ea0b2g2a9gcd ("Singapore", Tamil) : SG

// xn--ogbpf8fl ("Syria", Arabic) : SY

// xn--mgbtf8fl ("Syria", Arabic, variant) : SY

// xn--o3cw4h ("Thai", Thai) : TH

// <http://www.thnic.co.th>

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. .
. .
. .
. .
. .

// xn--pgbs0dh ("Tunisia", Arabic) : TN

// <http://nic.tn>

// xn--kpry57d ("Taiwan", Chinese, Traditional) : TW

// http://www.twonic.net/english/dn/dn_07a.htm

// xn--kprw13d ("Taiwan", Chinese, Simplified) : TW

// http://www.twonic.net/english/dn/dn_07a.htm

// xn--nnx388a ("Taiwan", Chinese, variant) : TW

// xn--j1amh ("ukr", Cyrillic) : UA

// xn--mgb2ddes ("AlYemen", Arabic) : YE

//

xxx : <http://icmregistry.com>

xxx

// ye : http://www.y.net.ye/services/domain_name.htm

*.ye

// za : <https://www.zadna.org.za/content/page/domain-information/>

ac.za

agric.za

alt.za

co.za

edu.za

gov.za

grondar.za

law.za

mil.za

net.za

ngo.za

nic.za

nis.za

nom.za

org.za

school.za

tm.za

web.za

// zm : <https://zicta.zm/>

// Submitted by registry <info@zicta.zm>

zm

ac.zm

biz.zm

co.zm

com.zm

edu.zm

gov.zm

info.zm

mil.zm

net.zm

org.zm
sch.zm

// zw : <https://www.potraz.gov.zw/>
// Confirmed by registry <bmtengwa@potraz.gov.zw> 2017-01-25

zw
ac.zw
co.zw
gov.zw
mil.zw
org.zw

// newGTLDs

// List of new gTLDs imported from <https://www.icann.org/resources/registries/gtlds/v2/gtlds.json> on 2020-10-28T17:55:28Z

// This list is auto-generated, don't edit it manually.
// aaa : 2015-02-26 American Automobile Association, Inc.
aaa

// aarp : 2015-05-21 AARP
aarp

// abarth : 2015-07-30 Fiat Chrysler Automobiles N.V.
abarth

// abb : 2014-10-24 ABB Ltd
abb

// abbott : 2014-07-24 Abbott Laboratories,
Inc.
abbott

// abbvie : 2015-07-30 AbbVie Inc.
abbvie

// abc : 2015-07-30 Disney Enterprises, Inc.
abc

// able : 2015-06-25 Able Inc.
able

// abogado : 2014-04-24 Minds + Machines Group Limited
abogado

// abudhabi : 2015-07-30 Abu Dhabi Systems and Information Centre
abudhabi

// academy : 2013-11-07 Binky Moon, LLC
academy

// accenture : 2014-08-15 Accenture plc
accenture

// accountant : 2014-11-20 dot Accountant Limited
accountant

// accountants : 2014-03-20 Binky Moon, LLC
accountants

// aco : 2015-01-08 ACO Severin Ahlmann GmbH & Co. KG
aco

// actor : 2013-12-12 Dog Beach, LLC
actor

// adac : 2015-07-16 Allgemeiner Deutscher Automobil-Club e.V. (ADAC)
adac

// ads : 2014-12-04 Charleston Road Registry Inc.
ads

// adult : 2014-10-16 ICM Registry AD LLC
adult

// aeg : 2015-03-19 Aktiebolaget Electrolux
aeg

// aetna : 2015-05-21 Aetna Life Insurance Company
aetna

// afamilycompany : 2015-07-23 Johnson Shareholdings, Inc.
afamilycompany

// afl : 2014-10-02 Australian
Football League
afl

// africa : 2014-03-24 ZA Central Registry NPC trading as Registry.Africa
africa

// agakhan : 2015-04-23 Fondation Aga Khan (Aga Khan Foundation)
agakhan

// agency : 2013-11-14 Binky Moon, LLC

agency

// aig : 2014-12-18 American International Group, Inc.
aig

// airbus : 2015-07-30 Airbus S.A.S.
airbus

// airforce : 2014-03-06 Dog Beach, LLC
airforce

// airtel : 2014-10-24 Bharti Airtel Limited
airtel

// akdn : 2015-04-23 Fondation Aga Khan (Aga Khan Foundation)
akdn

// alfaromeo : 2015-07-31 Fiat Chrysler Automobiles N.V.
alfaromeo

// alibaba : 2015-01-15 Alibaba Group Holding Limited
alibaba

// alipay : 2015-01-15 Alibaba Group Holding Limited
alipay

// allfinanz : 2014-07-03 Allfinanz Deutsche Vermögensberatung Aktiengesellschaft
allfinanz

// allstate : 2015-07-31 Allstate Fire and Casualty Insurance Company
allstate

// ally : 2015-06-18 Ally Financial Inc.
ally

// alsace : 2014-07-02 Region Grand Est
alsace

// alstom : 2015-07-30 ALSTOM
alstom

//
amazon : 2019-12-19 Amazon Registry Services, Inc.
amazon

// americanexpress : 2015-07-31 American Express Travel Related Services Company, Inc.
americanexpress

// americanfamily : 2015-07-23 AmFam, Inc.
americanfamily

// amex : 2015-07-31 American Express Travel Related Services Company, Inc.
amex

// amfam : 2015-07-23 AmFam, Inc.
amfam

// amica : 2015-05-28 Amica Mutual Insurance Company
amica

// amsterdam : 2014-07-24 Gemeente Amsterdam
amsterdam

// analytics : 2014-12-18 Campus IP LLC
analytics

// android : 2014-08-07 Charleston Road Registry Inc.
android

// anquan : 2015-01-08 Beijing Qihu Keji Co., Ltd.
anquan

// anz : 2015-07-31 Australia and New Zealand Banking Group Limited
anz

// aol : 2015-09-17 Oath Inc.
aol

// apartments : 2014-12-11 Binky Moon, LLC
apartments

// app : 2015-05-14 Charleston Road Registry Inc.
app

// apple : 2015-05-14 Apple Inc.
apple

// aquarelle : 2014-07-24 Aquarelle.com
aquarelle

// arab : 2015-11-12 League of Arab States
arab

// aramco
: 2014-11-20 Aramco Services Company
aramco

// archi : 2014-02-06 Afiliias Limited

archi

// army : 2014-03-06 Dog Beach, LLC

army

// art : 2016-03-24 UK Creative Ideas Limited

art

// arte : 2014-12-11 Association Relative à la Télévision Européenne G.E.I.E.

arte

// asda : 2015-07-31 Wal-Mart Stores, Inc.

asda

// associates : 2014-03-06 Binky Moon, LLC

associates

// athleta : 2015-07-30 The Gap, Inc.

athleta

// attorney : 2014-03-20 Dog Beach, LLC

attorney

// auction : 2014-03-20 Dog Beach, LLC

auction

// audi : 2015-05-21 AUDI Aktiengesellschaft

audi

// audible : 2015-06-25 Amazon Registry Services, Inc.

audible

// audio : 2014-03-20 UNR Corp.

audio

// auspost : 2015-08-13 Australian Postal Corporation

auspost

// author : 2014-12-18 Amazon Registry Services, Inc.

author

// auto : 2014-11-13 XYZ.COM LLC

auto

// autos : 2014-01-09 XYZ.COM LLC

autos

// avianca : 2015-01-08 Avianca Holdings S.A.

avianca

// aws : 2015-06-25 Amazon Registry Services, Inc.

aws

// axa : 2013-12-19

AXA SA

axa

// azure : 2014-12-18 Microsoft Corporation

azure

// baby : 2015-04-09 XYZ.COM LLC

baby

// baidu : 2015-01-08 Baidu, Inc.

baidu

// banamex : 2015-07-30 Citigroup Inc.

banamex

// bananarepublic : 2015-07-31 The Gap, Inc.

bananarepublic

// band : 2014-06-12 Dog Beach, LLC

band

// bank : 2014-09-25 fTLD Registry Services LLC

bank

// bar : 2013-12-12 Punto 2012 Sociedad Anonima Promotora de Inversion de Capital Variable

bar

// barcelona : 2014-07-24 Municipi de Barcelona

barcelona

// barclaycard : 2014-11-20 Barclays Bank PLC

barclaycard

// barclays : 2014-11-20 Barclays Bank PLC

barclays

// barefoot : 2015-06-11 Gallo Vineyards, Inc.

barefoot

// bargains : 2013-11-14 Binky Moon, LLC

bargains

// baseball : 2015-10-29 MLB Advanced Media DH, LLC
baseball

// basketball : 2015-08-20 Fédération Internationale de Basketball (FIBA)
basketball

// bauhaus : 2014-04-17 Werkhaus GmbH
bauhaus

// bayern : 2014-01-23 Bayern Connect GmbH
bayern

// bbc : 2014-12-18 British
Broadcasting Corporation
bbc

// bbt : 2015-07-23 BB&T Corporation
bbt

// bbva : 2014-10-02 BANCO BILBAO VIZCAYA ARGENTARIA, S.A.
bbva

// bcg : 2015-04-02 The Boston Consulting Group, Inc.
bcg

// bcn : 2014-07-24 Municipi de Barcelona
bcn

// beats : 2015-05-14 Beats Electronics, LLC
beats

// beauty : 2015-12-03 XYZ.COM LLC
beauty

// beer : 2014-01-09 Minds + Machines Group Limited
beer

// bentley : 2014-12-18 Bentley Motors Limited
bentley

// berlin : 2013-10-31 dotBERLIN GmbH & Co. KG
berlin

// best : 2013-12-19 BestTLD Pty Ltd
best

// bestbuy : 2015-07-31 BBY Solutions, Inc.
bestbuy

// bet : 2015-05-07 Afiliias Limited
bet

// bharti : 2014-01-09 Bharti Enterprises (Holding) Private Limited
bharti

// bible : 2014-06-19 American Bible Society
bible

// bid : 2013-12-19 dot Bid Limited
bid

// bike : 2013-08-27 Binky Moon, LLC
bike

// bing : 2014-12-18 Microsoft Corporation
bing

// bingo : 2014-12-04 Binky Moon, LLC
bingo

// bio : 2014-03-06 Afiliias Limited
bio

//
black : 2014-01-16 Afiliias Limited
black

// blackfriday : 2014-01-16 UNR Corp.
blackfriday

// blockbuster : 2015-07-30 Dish DBS Corporation
blockbuster

// blog : 2015-05-14 Knock Knock WHOIS There, LLC
blog

// bloomberg : 2014-07-17 Bloomberg IP Holdings LLC
bloomberg

// blue : 2013-11-07 Afiliias Limited
blue

// bms : 2014-10-30 Bristol-Myers Squibb Company
bms

// bmw : 2014-01-09 Bayerische Motoren Werke Aktiengesellschaft

bmw

// bnpparibas : 2014-05-29 BNP Paribas

bnpparibas

// boats : 2014-12-04 XYZ.COM LLC

boats

// boehringer : 2015-07-09 Boehringer Ingelheim International GmbH

boehringer

// bofa : 2015-07-31 Bank of America Corporation

bofa

// bom : 2014-10-16 Núcleo de Informação e Coordenação do Ponto BR - NIC.br

bom

// bond : 2014-06-05 ShortDot SA

bond

// boo : 2014-01-30 Charleston Road Registry Inc.

boo

// book : 2015-08-27 Amazon Registry Services, Inc.

book

// booking : 2015-07-16 Booking.com B.V.

booking

// bosch : 2015-06-18 Robert Bosch GMBH

bosch

// bostik

: 2015-05-28 Bostik SA

bostik

// boston : 2015-12-10 Boston TLD Management, LLC

boston

// bot : 2014-12-18 Amazon Registry Services, Inc.

bot

// boutique : 2013-11-14 Binky Moon, LLC

boutique

// box : 2015-11-12 Intercap Registry Inc.

box

// bradesco : 2014-12-18 Banco Bradesco S.A.
bradesco

// bridgestone : 2014-12-18 Bridgestone Corporation
bridgestone

// broadway : 2014-12-22 Celebrate Broadway, Inc.
broadway

// broker : 2014-12-11 Dotbroker Registry Limited
broker

// brother : 2015-01-29 Brother Industries, Ltd.
brother

// brussels : 2014-02-06 DNS.be vzw
brussels

// budapest : 2013-11-21 Minds + Machines Group Limited
budapest

// bugatti : 2015-07-23 Bugatti International SA
bugatti

// build : 2013-11-07 Plan Bee LLC
build

// builders : 2013-11-07 Binky Moon, LLC
builders

// business : 2013-11-07 Binky Moon, LLC
business

// buy : 2014-12-18 Amazon Registry Services, Inc.
buy

// buzz : 2013-10-02 DOTSTRATEGY CO.
buzz

// bzh : 2014-02-27 Association www.bzh
bzh

//
cab : 2013-10-24 Binky Moon, LLC
cab

// cafe : 2015-02-11 Binky Moon, LLC
cafe

// cal : 2014-07-24 Charleston Road Registry Inc.
cal

// call : 2014-12-18 Amazon Registry Services, Inc.
call

// calvinklein : 2015-07-30 PVH gTLD Holdings LLC
calvinklein

// cam : 2016-04-21 AC Webconnecting Holding B.V.
cam

// camera : 2013-08-27 Binky Moon, LLC
camera

// camp : 2013-11-07 Binky Moon, LLC
camp

// cancerresearch : 2014-05-15 Australian Cancer Research Foundation
cancerresearch

// canon : 2014-09-12 Canon Inc.
canon

// capetown : 2014-03-24 ZA Central Registry NPC trading as ZA Central Registry
capetown

// capital : 2014-03-06 Binky Moon, LLC
capital

// capitalone : 2015-08-06 Capital One Financial Corporation
capitalone

// car : 2015-01-22 XYZ.COM LLC
car

// caravan : 2013-12-12 Caravan International, Inc.
caravan

// cards : 2013-12-05 Binky Moon, LLC
cards

// care : 2014-03-06 Binky Moon, LLC
care

// career : 2013-10-09 dotCareer LLC

career

// careers : 2013-10-02

Binky Moon, LLC

careers

// cars : 2014-11-13 XYZ.COM LLC

cars

// casa : 2013-11-21 Minds + Machines Group Limited

casa

// case : 2015-09-03 CNH Industrial N.V.

case

// caseih : 2015-09-03 CNH Industrial N.V.

caseih

// cash : 2014-03-06 Binky Moon, LLC

cash

// casino : 2014-12-18 Binky Moon, LLC

casino

// catering : 2013-12-05 Binky Moon, LLC

catering

// catholic : 2015-10-21 Pontificium Consilium de Communicationibus Socialibus (PCCS) (Pontifical Council for Social Communication)

catholic

// cba : 2014-06-26 COMMONWEALTH BANK OF AUSTRALIA

cba

// cbn : 2014-08-22 The Christian Broadcasting Network, Inc.

cbn

// cbre : 2015-07-02 CBRE, Inc.

cbre

// cbs : 2015-08-06 CBS Domains Inc.

cbs

// ceb : 2015-04-09 The Corporate Executive Board Company

ceb

// center : 2013-11-07 Binky Moon, LLC

center

// ceo : 2013-11-07 CEOTLD Pty Ltd
ceo

// cern : 2014-06-05 European Organization for Nuclear Research ("CERN")
cern

// cfa : 2014-08-28 CFA Institute
cfa

// cfd : 2014-12-11 DotCFD
Registry Limited
cfd

// chanel : 2015-04-09 Chanel International B.V.
chanel

// channel : 2014-05-08 Charleston Road Registry Inc.
channel

// charity : 2018-04-11 Binky Moon, LLC
charity

// chase : 2015-04-30 JPMorgan Chase Bank, National Association
chase

// chat : 2014-12-04 Binky Moon, LLC
chat

// cheap : 2013-11-14 Binky Moon, LLC
cheap

// chintai : 2015-06-11 CHINTAI Corporation
chintai

// christmas : 2013-11-21 UNR Corp.
christmas

// chrome : 2014-07-24 Charleston Road Registry Inc.
chrome

// church : 2014-02-06 Binky Moon, LLC
church

// cipriani : 2015-02-19 Hotel Cipriani Srl
cipriani

// circle : 2014-12-18 Amazon Registry Services, Inc.
circle

// cisco : 2014-12-22 Cisco Technology, Inc.
cisco

// citadel : 2015-07-23 Citadel Domain LLC
citadel

// citi : 2015-07-30 Citigroup Inc.
citi

// citic : 2014-01-09 CITIC Group Corporation
citic

// city : 2014-05-29 Binky Moon, LLC
city

// cityeats : 2014-12-11 Lifestyle Domain Holdings, Inc.
cityeats

// claims : 2014-03-20
Binky Moon, LLC
claims

// cleaning : 2013-12-05 Binky Moon, LLC
cleaning

// click : 2014-06-05 UNR Corp.
click

// clinic : 2014-03-20 Binky Moon, LLC
clinic

// clinique : 2015-10-01 The Estée Lauder Companies Inc.
clinique

// clothing : 2013-08-27 Binky Moon, LLC
clothing

// cloud : 2015-04-16 Aruba PEC S.p.A.
cloud

// club : 2013-11-08 .CLUB DOMAINS, LLC
club

// clubmed : 2015-06-25 Club Méditerranée S.A.
clubmed

// coach : 2014-10-09 Binky Moon, LLC
coach

// codes : 2013-10-31 Binky Moon, LLC
codes

// coffee : 2013-10-17 Binky Moon, LLC
coffee

// college : 2014-01-16 XYZ.COM LLC
college

// cologne : 2014-02-05 dotKoeln GmbH
cologne

// comcast : 2015-07-23 Comcast IP Holdings I, LLC
comcast

// commbank : 2014-06-26 COMMONWEALTH BANK OF AUSTRALIA
commbank

// community : 2013-12-05 Binky Moon, LLC
community

// company : 2013-11-07 Binky Moon, LLC
company

// compare : 2015-10-08 Registry Services, LLC
compare

// computer : 2013-10-24 Binky Moon, LLC
computer

//
comsec : 2015-01-08 VeriSign, Inc.
comsec

// condos : 2013-12-05 Binky Moon, LLC
condos

// construction : 2013-09-16 Binky Moon, LLC
construction

// consulting : 2013-12-05 Dog Beach, LLC
consulting

// contact : 2015-01-08 Dog Beach, LLC

contact

// contractors : 2013-09-10 Binky Moon, LLC

contractors

// cooking : 2013-11-21 Minds + Machines Group Limited

cooking

// cookingchannel : 2015-07-02 Lifestyle Domain Holdings, Inc.

cookingchannel

// cool : 2013-11-14 Binky Moon, LLC

cool

// corsica : 2014-09-25 Collectivité de Corse

corsica

// country : 2013-12-19 DotCountry LLC

country

// coupon : 2015-02-26 Amazon Registry Services, Inc.

coupon

// coupons : 2015-03-26 Binky Moon, LLC

coupons

// courses : 2014-12-04 OPEN UNIVERSITIES AUSTRALIA PTY LTD

courses

// cpa : 2019-06-10 American Institute of Certified Public Accountants

cpa

// credit : 2014-03-20 Binky Moon, LLC

credit

// creditcard : 2014-03-20 Binky Moon, LLC

creditcard

// creditunion : 2015-01-22 CUNA Performance
Resources, LLC

creditunion

// cricket : 2014-10-09 dot Cricket Limited

cricket

// crown : 2014-10-24 Crown Equipment Corporation

crown

// crs : 2014-04-03 Federated Co-operatives Limited
crs

// cruise : 2015-12-10 Viking River Cruises (Bermuda) Ltd.
cruise

// cruises : 2013-12-05 Binky Moon, LLC
cruises

// csc : 2014-09-25 Alliance-One Services, Inc.
csc

// cuisinella : 2014-04-03 SCHMIDT GROUPE S.A.S.
cuisinella

// cymru : 2014-05-08 Nominet UK
cymru

// cyou : 2015-01-22 ShortDot SA
cyou

// dabur : 2014-02-06 Dabur India Limited
dabur

// dad : 2014-01-23 Charleston Road Registry Inc.
dad

// dance : 2013-10-24 Dog Beach, LLC
dance

// data : 2016-06-02 Dish DBS Corporation
data

// date : 2014-11-20 dot Date Limited
date

// dating : 2013-12-05 Binky Moon, LLC
dating

// datsun : 2014-03-27 NISSAN MOTOR CO., LTD.
datsun

// day : 2014-01-30 Charleston Road Registry Inc.
day

// dclk : 2014-11-20 Charleston Road Registry Inc.
dclk

// dds : 2015-05-07 Minds + Machines Group
Limited
dds

// deal : 2015-06-25 Amazon Registry Services, Inc.
deal

// dealer : 2014-12-22 Intercap Registry Inc.
dealer

// deals : 2014-05-22 Binky Moon, LLC
deals

// degree : 2014-03-06 Dog Beach, LLC
degree

// delivery : 2014-09-11 Binky Moon, LLC
delivery

// dell : 2014-10-24 Dell Inc.
dell

// deloitte : 2015-07-31 Deloitte Touche Tohmatsu
deloitte

// delta : 2015-02-19 Delta Air Lines, Inc.
delta

// democrat : 2013-10-24 Dog Beach, LLC
democrat

// dental : 2014-03-20 Binky Moon, LLC
dental

// dentist : 2014-03-20 Dog Beach, LLC
dentist

// desi : 2013-11-14 Desi Networks LLC
desi

// design : 2014-11-07 Top Level Design, LLC
design

// dev : 2014-10-16 Charleston Road Registry Inc.
dev

// dhl : 2015-07-23 Deutsche Post AG
dhl

// diamonds : 2013-09-22 Binky Moon, LLC
diamonds

// diet : 2014-06-26 UNR Corp.
diet

// digital : 2014-03-06 Binky Moon, LLC
digital

// direct : 2014-04-10 Binky Moon, LLC
direct

// directory : 2013-09-20 Binky Moon, LLC
directory

// discount
: 2014-03-06 Binky Moon, LLC
discount

// discover : 2015-07-23 Discover Financial Services
discover

// dish : 2015-07-30 Dish DBS Corporation
dish

// diy : 2015-11-05 Lifestyle Domain Holdings, Inc.
diy

// dnp : 2013-12-13 Dai Nippon Printing Co., Ltd.
dnp

// docs : 2014-10-16 Charleston Road Registry Inc.
docs

// doctor : 2016-06-02 Binky Moon, LLC
doctor

// dog : 2014-12-04 Binky Moon, LLC
dog

// domains : 2013-10-17 Binky Moon, LLC
domains

// dot : 2015-05-21 Dish DBS Corporation
dot

// download : 2014-11-20 dot Support Limited

download

// drive : 2015-03-05 Charleston Road Registry Inc.
drive

// dtv : 2015-06-04 Dish DBS Corporation
dtv

// dubai : 2015-01-01 Dubai Smart Government Department
dubai

// duck : 2015-07-23 Johnson Shareholdings, Inc.
duck

// dunlop : 2015-07-02 The Goodyear Tire & Rubber Company
dunlop

// dupont : 2015-06-25 E. I. du Pont de Nemours and Company
dupont

// durban : 2014-03-24 ZA Central Registry NPC trading as ZA Central Registry
durban

//
dvag : 2014-06-23 Deutsche Vermögensberatung Aktiengesellschaft DVAG
dvag

// dvr : 2016-05-26 DISH Technologies L.L.C.
dvr

// earth : 2014-12-04 Interlink Co., Ltd.
earth

// eat : 2014-01-23 Charleston Road Registry Inc.
eat

// eco : 2016-07-08 Big Room Inc.
eco

// edeka : 2014-12-18 EDEKA Verband kaufmännischer Genossenschaften e.V.
edeka

// education : 2013-11-07 Binky Moon, LLC
education

// email : 2013-10-31 Binky Moon, LLC
email

// emerck : 2014-04-03 Merck KGaA
emerck

// energy : 2014-09-11 Binky Moon, LLC
energy

// engineer : 2014-03-06 Dog Beach, LLC
engineer

// engineering : 2014-03-06 Binky Moon, LLC
engineering

// enterprises : 2013-09-20 Binky Moon, LLC
enterprises

// epson : 2014-12-04 Seiko Epson Corporation
epson

// equipment : 2013-08-27 Binky Moon, LLC
equipment

// ericsson : 2015-07-09 Telefonaktiebolaget L M Ericsson
ericsson

// erni : 2014-04-03 ERNI Group Holding AG
erni

// esq : 2014-05-08 Charleston Road Registry Inc.
esq

// estate : 2013-08-27
Binky Moon, LLC
estate

// etisalat : 2015-09-03 Emirates Telecommunications Corporation (trading as Etisalat)
etisalat

// eurovision : 2014-04-24 European Broadcasting Union (EBU)
eurovision

// eus : 2013-12-12 Puntueus Fundazioa
eus

// events : 2013-12-05 Binky Moon, LLC
events

// exchange : 2014-03-06 Binky Moon, LLC
exchange

// expert : 2013-11-21 Binky Moon, LLC
expert

// exposed : 2013-12-05 Binky Moon, LLC
exposed

// express : 2015-02-11 Binky Moon, LLC
express

// extraspace : 2015-05-14 Extra Space Storage LLC
extraspace

// fage : 2014-12-18 Fage International S.A.
fage

// fail : 2014-03-06 Binky Moon, LLC
fail

// fairwinds : 2014-11-13 FairWinds Partners, LLC
fairwinds

// faith : 2014-11-20 dot Faith Limited
faith

// family : 2015-04-02 Dog Beach, LLC
family

// fan : 2014-03-06 Dog Beach, LLC
fan

// fans : 2014-11-07 ZDNS International Limited
fans

// farm : 2013-11-07 Binky Moon, LLC
farm

// farmers : 2015-07-09 Farmers Insurance Exchange
farmers

// fashion
: 2014-07-03 Minds + Machines Group Limited
fashion

// fast : 2014-12-18 Amazon Registry Services, Inc.
fast

// fedex : 2015-08-06 Federal Express Corporation

fedex

// feedback : 2013-12-19 Top Level Spectrum, Inc.
feedback

// ferrari : 2015-07-31 Fiat Chrysler Automobiles N.V.
ferrari

// ferrero : 2014-12-18 Ferrero Trading Lux S.A.
ferrero

// fiat : 2015-07-31 Fiat Chrysler Automobiles N.V.
fiat

// fidelity : 2015-07-30 Fidelity Brokerage Services LLC
fidelity

// fido : 2015-08-06 Rogers Communications Canada Inc.
fido

// film : 2015-01-08 Motion Picture Domain Registry Pty Ltd
film

// final : 2014-10-16 Núcleo de Informação e Coordenação do Ponto BR - NIC.br
final

// finance : 2014-03-20 Binky Moon, LLC
finance

// financial : 2014-03-06 Binky Moon, LLC
financial

// fire : 2015-06-25 Amazon Registry Services, Inc.
fire

// firestone : 2014-12-18 Bridgestone Licensing Services, Inc
firestone

// firmdale : 2014-03-27 Firmdale Holdings Limited
firmdale

// fish : 2013-12-12
Binky Moon, LLC
fish

// fishing : 2013-11-21 Minds + Machines Group Limited
fishing

// fit : 2014-11-07 Minds + Machines Group Limited

fit

// fitness : 2014-03-06 Binky Moon, LLC

fitness

// flickr : 2015-04-02 Flickr, Inc.

flickr

// flights : 2013-12-05 Binky Moon, LLC

flights

// flir : 2015-07-23 FLIR Systems, Inc.

flir

// florist : 2013-11-07 Binky Moon, LLC

florist

// flowers : 2014-10-09 UNR Corp.

flowers

// fly : 2014-05-08 Charleston Road Registry Inc.

fly

// foo : 2014-01-23 Charleston Road Registry Inc.

foo

// food : 2016-04-21 Lifestyle Domain Holdings, Inc.

food

// foodnetwork : 2015-07-02 Lifestyle Domain Holdings, Inc.

foodnetwork

// football : 2014-12-18 Binky Moon, LLC

football

// ford : 2014-11-13 Ford Motor Company

ford

// forex : 2014-12-11 Dotforex Registry Limited

forex

// forsale : 2014-05-22 Dog Beach, LLC

forsale

// forum : 2015-04-02 Fegistry, LLC

forum

// foundation : 2013-12-05 Binky Moon, LLC

foundation

// fox : 2015-09-11 FOX Registry,

LLC

fox

// free : 2015-12-10 Amazon Registry Services, Inc.

free

// fresenius : 2015-07-30 Fresenius Immobilien-Verwaltungs-GmbH

fresenius

// frl : 2014-05-15 FRLregistry B.V.

frl

// frogans : 2013-12-19 OP3FT

frogans

// frontdoor : 2015-07-02 Lifestyle Domain Holdings, Inc.

frontdoor

// frontier : 2015-02-05 Frontier Communications Corporation

frontier

// ftr : 2015-07-16 Frontier Communications Corporation

ftr

// fujitsu : 2015-07-30 Fujitsu Limited

fujitsu

// fujixerox : 2015-07-23 Xerox DNHC LLC

fujixerox

// fun : 2016-01-14 DotSpace Inc.

fun

// fund : 2014-03-20 Binky Moon, LLC

fund

// furniture : 2014-03-20 Binky Moon, LLC

furniture

// futbol : 2013-09-20 Dog Beach, LLC

futbol

// fyi : 2015-04-02 Binky Moon, LLC

fyi

// gal : 2013-11-07 Asociación puntoGAL
gal

// gallery : 2013-09-13 Binky Moon, LLC
gallery

// gallo : 2015-06-11 Gallo Vineyards, Inc.
gallo

// gallup : 2015-02-19 Gallup, Inc.
gallup

// game : 2015-05-28 UNR Corp.
game

// games : 2015-05-28
Dog Beach, LLC
games

// gap : 2015-07-31 The Gap, Inc.
gap

// garden : 2014-06-26 Minds + Machines Group Limited
garden

// gay : 2019-05-23 Top Level Design, LLC
gay

// gbiz : 2014-07-17 Charleston Road Registry Inc.
gbiz

// gdn : 2014-07-31 Joint Stock Company "Navigation-information systems"
gdn

// gea : 2014-12-04 GEA Group Aktiengesellschaft
gea

// gent : 2014-01-23 COMBELL NV
gent

// genting : 2015-03-12 Resorts World Inc Pte. Ltd.
genting

// george : 2015-07-31 Wal-Mart Stores, Inc.
george

// ggee : 2014-01-09 GMO Internet, Inc.

ggee

// gift : 2013-10-17 DotGift, LLC

gift

// gifts : 2014-07-03 Binky Moon, LLC

gifts

// gives : 2014-03-06 Dog Beach, LLC

gives

// giving : 2014-11-13 Giving Limited

giving

// glade : 2015-07-23 Johnson Shareholdings, Inc.

glade

// glass : 2013-11-07 Binky Moon, LLC

glass

// gle : 2014-07-24 Charleston Road Registry Inc.

gle

// global : 2014-04-17 Dot Global Domain Registry Limited

global

// globo : 2013-12-19 Globo Comunicação e Participações

S.A

globo

// gmail : 2014-05-01 Charleston Road Registry Inc.

gmail

// gmbh : 2016-01-29 Binky Moon, LLC

gmbh

// gmo : 2014-01-09 GMO Internet, Inc.

gmo

// gmx : 2014-04-24 1&1 Mail & Media GmbH

gmx

// godaddy : 2015-07-23 Go Daddy East, LLC

godaddy

// gold : 2015-01-22 Binky Moon, LLC

gold

// goldpoint : 2014-11-20 YODOBASHI CAMERA CO.,LTD.
goldpoint

// golf : 2014-12-18 Binky Moon, LLC
golf

// goo : 2014-12-18 NTT Resonant Inc.
goo

// goodyear : 2015-07-02 The Goodyear Tire & Rubber Company
goodyear

// goog : 2014-11-20 Charleston Road Registry Inc.
goog

// google : 2014-07-24 Charleston Road Registry Inc.
google

// gop : 2014-01-16 Republican State Leadership Committee, Inc.
gop

// got : 2014-12-18 Amazon Registry Services, Inc.
got

// grainger : 2015-05-07 Grainger Registry Services, LLC
grainger

// graphics : 2013-09-13 Binky Moon, LLC
graphics

// gratis : 2014-03-20 Binky Moon, LLC
gratis

// green : 2014-05-08 Afilias Limited
green

// gripe : 2014-03-06
Binky Moon, LLC
gripe

// grocery : 2016-06-16 Wal-Mart Stores, Inc.
grocery

// group : 2014-08-15 Binky Moon, LLC
group

// guardian : 2015-07-30 The Guardian Life Insurance Company of America
guardian

// gucci : 2014-11-13 Guccio Gucci S.p.a.
gucci

// guge : 2014-08-28 Charleston Road Registry Inc.
guge

// guide : 2013-09-13 Binky Moon, LLC
guide

// guitars : 2013-11-14 UNR Corp.
guitars

// guru : 2013-08-27 Binky Moon, LLC
guru

// hair : 2015-12-03 XYZ.COM LLC
hair

// hamburg : 2014-02-20 Hamburg Top-Level-Domain GmbH
hamburg

// hangout : 2014-11-13 Charleston Road Registry Inc.
hangout

// haus : 2013-12-05 Dog Beach, LLC
haus

// hbo : 2015-07-30 HBO Registry Services, Inc.
hbo

// hdfc : 2015-07-30 HOUSING DEVELOPMENT FINANCE CORPORATION LIMITED
hdfc

// hdfcbank : 2015-02-12 HDFC Bank Limited
hdfcbank

// health : 2015-02-11 DotHealth, LLC
health

// healthcare : 2014-06-12 Binky Moon, LLC
healthcare

// help : 2014-06-26 UNR Corp.
help

// helsinki : 2015-02-05 City

of Helsinki
helsinki

// here : 2014-02-06 Charleston Road Registry Inc.
here

// hermes : 2014-07-10 HERMES INTERNATIONAL
hermes

// hgtv : 2015-07-02 Lifestyle Domain Holdings, Inc.
hgtv

// hiphop : 2014-03-06 UNR Corp.
hiphop

// hisamitsu : 2015-07-16 Hisamitsu Pharmaceutical Co.,Inc.
hisamitsu

// hitachi : 2014-10-31 Hitachi, Ltd.
hitachi

// hiv : 2014-03-13 UNR Corp.
hiv

// hkt : 2015-05-14 PCCW-HKT DataCom Services Limited
hkt

// hockey : 2015-03-19 Binky Moon, LLC
hockey

// holdings : 2013-08-27 Binky Moon, LLC
holdings

// holiday : 2013-11-07 Binky Moon, LLC
holiday

// homedepot : 2015-04-02 Home Depot Product Authority, LLC
homedepot

// homegoods : 2015-07-16 The TJX Companies, Inc.
homegoods

// homes : 2014-01-09 XYZ.COM LLC
homes

// homesense : 2015-07-16 The TJX Companies, Inc.
homesense

// honda : 2014-12-18 Honda Motor Co., Ltd.
honda

// horse : 2013-11-21 Minds + Machines Group Limited
horse

// hospital : 2016-10-20 Binky Moon, LLC
hospital

// host : 2014-04-17
DotHost Inc.
host

// hosting : 2014-05-29 UNR Corp.
hosting

// hot : 2015-08-27 Amazon Registry Services, Inc.
hot

// hoteles : 2015-03-05 Travel Reservations SRL
hoteles

// hotels : 2016-04-07 Booking.com B.V.
hotels

// hotmail : 2014-12-18 Microsoft Corporation
hotmail

// house : 2013-11-07 Binky Moon, LLC
house

// how : 2014-01-23 Charleston Road Registry Inc.
how

// hsbc : 2014-10-24 HSBC Global Services (UK) Limited
hsbc

// hughes : 2015-07-30 Hughes Satellite Systems Corporation
hughes

// hyatt : 2015-07-30 Hyatt GTLD, L.L.C.
hyatt

// hyundai : 2015-07-09 Hyundai Motor Company
hyundai

// ibm : 2014-07-31 International Business Machines Corporation
ibm

// icbc : 2015-02-19 Industrial and Commercial Bank of China Limited
icbc

// ice : 2014-10-30 IntercontinentalExchange, Inc.
ice

// icu : 2015-01-08 ShortDot SA
icu

// ieee : 2015-07-23 IEEE Global LLC
ieee

// ifm : 2014-01-30 ifm electronic gmbh
ifm

// ikano : 2015-07-09 Ikano S.A.
ikano

// imamat : 2015-08-06
Fondation Aga Khan (Aga Khan Foundation)
imamat

// imdb : 2015-06-25 Amazon Registry Services, Inc.
imdb

// immo : 2014-07-10 Binky Moon, LLC
immo

// immobilien : 2013-11-07 Dog Beach, LLC
immobilien

// inc : 2018-03-10 Intercap Registry Inc.
inc

// industries : 2013-12-05 Binky Moon, LLC
industries

// infiniti : 2014-03-27 NISSAN MOTOR CO., LTD.
infiniti

// ing : 2014-01-23 Charleston Road Registry Inc.
ing

// ink : 2013-12-05 Top Level Design, LLC
ink

// institute : 2013-11-07 Binky Moon, LLC

institute

// insurance : 2015-02-19 fTLD Registry Services LLC
insurance

// insure : 2014-03-20 Binky Moon, LLC
insure

// international : 2013-11-07 Binky Moon, LLC
international

// intuit : 2015-07-30 Intuit Administrative Services, Inc.
intuit

// investments : 2014-03-20 Binky Moon, LLC
investments

// ipiranga : 2014-08-28 Ipiranga Produtos de Petroleo S.A.
ipiranga

// irish : 2014-08-07 Binky Moon, LLC
irish

// ismaili : 2015-08-06 Fondation Aga Khan (Aga Khan Foundation)
ismaili

//
ist : 2014-08-28 Istanbul Metropolitan Municipality
ist

// istanbul : 2014-08-28 Istanbul Metropolitan Municipality
istanbul

// itau : 2014-10-02 Itau Unibanco Holding S.A.
itau

// itv : 2015-07-09 ITV Services Limited
itv

// iveco : 2015-09-03 CNH Industrial N.V.
iveco

// jaguar : 2014-11-13 Jaguar Land Rover Ltd
jaguar

// java : 2014-06-19 Oracle Corporation
java

// jcb : 2014-11-20 JCB Co., Ltd.

jcb

// jcp : 2015-04-23 JCP Media, Inc.

jcp

// jeep : 2015-07-30 FCA US LLC.

jeep

// jetzt : 2014-01-09 Binky Moon, LLC

jetzt

// jewelry : 2015-03-05 Binky Moon, LLC

jewelry

// jio : 2015-04-02 Reliance Industries Limited

jio

// jll : 2015-04-02 Jones Lang LaSalle Incorporated

jll

// jmp : 2015-03-26 Matrix IP LLC

jmp

// jnj : 2015-06-18 Johnson & Johnson Services, Inc.

jnj

// joburg : 2014-03-24 ZA Central Registry NPC trading as ZA Central Registry

joburg

// jot : 2014-12-18 Amazon Registry Services, Inc.

jot

// joy : 2014-12-18 Amazon Registry Services, Inc.

joy

//

jpmorgan : 2015-04-30 JPMorgan Chase Bank, National Association

jpmorgan

// jprs : 2014-09-18 Japan Registry Services Co., Ltd.

jprs

// juegos : 2014-03-20 UNR Corp.

juegos

// juniper : 2015-07-30 JUNIPER NETWORKS, INC.

juniper

// kaufen : 2013-11-07 Dog Beach, LLC

kaufen

// kddi : 2014-09-12 KDDI CORPORATION

kddi

// kerryhotels : 2015-04-30 Kerry Trading Co. Limited

kerryhotels

// kerrylogistics : 2015-04-09 Kerry Trading Co. Limited

kerrylogistics

// kerryproperties : 2015-04-09 Kerry Trading Co. Limited

kerryproperties

// kfh : 2014-12-04 Kuwait Finance House

kfh

// kia : 2015-07-09 KIA MOTORS CORPORATION

kia

// kim : 2013-09-23 Afilias Limited

kim

// kinder : 2014-11-07 Ferrero Trading Lux S.A.

kinder

// kindle : 2015-06-25 Amazon Registry Services, Inc.

kindle

// kitchen : 2013-09-20 Binky Moon, LLC

kitchen

// kiwi : 2013-09-20 DOT KIWI LIMITED

kiwi

// koeln : 2014-01-09 dotKoeln GmbH

koeln

// komatsu : 2015-01-08 Komatsu Ltd.

komatsu

// kosher : 2015-08-20

Kosher Marketing Assets LLC

kosher

// kpmg : 2015-04-23 KPMG International Cooperative (KPMG International Genossenschaft)

kpmg

// kpn : 2015-01-08 Koninklijke KPN N.V.

kpn

// krd : 2013-12-05 KRG Department of Information Technology

krd

// kred : 2013-12-19 KredTLD Pty Ltd

kred

// kuokgroup : 2015-04-09 Kerry Trading Co. Limited

kuokgroup

// kyoto : 2014-11-07 Academic Institution: Kyoto Jyoho Gakuen

kyoto

// lacaixa : 2014-01-09 Fundació Bancaria Caixa d'Estalvis i Pensions de Barcelona, "la Caixa"

lacaixa

// lamborghini : 2015-06-04 Automobili Lamborghini S.p.A.

lamborghini

// lamer : 2015-10-01 The Estée Lauder Companies Inc.

lamer

// lancaster : 2015-02-12 LANCASTER

lancaster

// lancia : 2015-07-31 Fiat Chrysler Automobiles N.V.

lancia

// land : 2013-09-10 Binky Moon, LLC

land

// landrover : 2014-11-13 Jaguar Land Rover Ltd

landrover

// lanxess : 2015-07-30 LANXESS Corporation

lanxess

// lasalle : 2015-04-02 Jones Lang LaSalle Incorporated

lasalle

// lat :

2014-10-16 ECOM-LAC Federació de Latinoamèrica y el Caribe para Internet y el Comercio Electrónico

lat

// latino : 2015-07-30 Dish DBS Corporation
latino

// latrobe : 2014-06-16 La Trobe University
latrobe

// law : 2015-01-22 LW TLD Limited
law

// lawyer : 2014-03-20 Dog Beach, LLC
lawyer

// lds : 2014-03-20 IRI Domain Management, LLC
lds

// lease : 2014-03-06 Binky Moon, LLC
lease

// leclerc : 2014-08-07 A.C.D. LEC Association des Centres Distributeurs Edouard Leclerc
leclerc

// lefrak : 2015-07-16 LeFrak Organization, Inc.
lefrak

// legal : 2014-10-16 Binky Moon, LLC
legal

// lego : 2015-07-16 LEGO Juris A/S
lego

// lexus : 2015-04-23 TOYOTA MOTOR CORPORATION
lexus

// lgbt : 2014-05-08 Afilias Limited
lgbt

// lidl : 2014-09-18 Schwarz Domains und Services GmbH & Co. KG
lidl

// life : 2014-02-06 Binky Moon, LLC
life

// lifeinsurance : 2015-01-15 American Council of Life Insurers
lifeinsurance

// lifestyle : 2014-12-11 Lifestyle Domain Holdings, Inc.
lifestyle

// lighting
: 2013-08-27 Binky Moon, LLC
lighting

// like : 2014-12-18 Amazon Registry Services, Inc.
like

// lilly : 2015-07-31 Eli Lilly and Company
lilly

// limited : 2014-03-06 Binky Moon, LLC
limited

// limo : 2013-10-17 Binky Moon, LLC
limo

// lincoln : 2014-11-13 Ford Motor Company
lincoln

// linde : 2014-12-04 Linde Aktiengesellschaft
linde

// link : 2013-11-14 UNR Corp.
link

// lippy : 2015-06-25 Lippy Ltd
lippy

// live : 2014-12-04 Dog Beach, LLC
live

// living : 2015-07-30 Lifestyle Domain Holdings, Inc.
living

// lixil : 2015-03-19 LIXIL Group Corporation
lixil

// llc : 2017-12-14 Afilias Limited
llc

// llp : 2019-08-26 UNR Corp.
llp

// loan : 2014-11-20 dot Loan Limited
loan

// loans : 2014-03-20 Binky Moon, LLC
loans

// locker : 2015-06-04 Dish DBS Corporation
locker

// locus : 2015-06-25 Locus Analytics LLC
locus

// loft : 2015-07-30 Annco, Inc.
loft

// lol : 2015-01-30 UNR Corp.
lol

// london : 2013-11-14 Dot London Domains Limited
london

// lotte : 2014-11-07
Lotte Holdings Co., Ltd.
lotte

// lotto : 2014-04-10 Afiliias Limited
lotto

// love : 2014-12-22 Merchant Law Group LLP
love

// lpl : 2015-07-30 LPL Holdings, Inc.
lpl

// lplfinancial : 2015-07-30 LPL Holdings, Inc.
lplfinancial

// ltd : 2014-09-25 Binky Moon, LLC
ltd

// ltda : 2014-04-17 InterNetX, Corp
ltda

// lundbeck : 2015-08-06 H. Lundbeck A/S
lundbeck

// lupin : 2014-11-07 LUPIN LIMITED
lupin

// luxe : 2014-01-09 Minds + Machines Group Limited
luxe

// luxury : 2013-10-17 Luxury Partners, LLC

luxury

// macys : 2015-07-31 Macys, Inc.

macys

// madrid : 2014-05-01 Comunidad de Madrid

madrid

// maif : 2014-10-02 Mutuelle Assurance Instituteur France (MAIF)

maif

// maison : 2013-12-05 Binky Moon, LLC

maison

// makeup : 2015-01-15 XYZ.COM LLC

makeup

// man : 2014-12-04 MAN SE

man

// management : 2013-11-07 Binky Moon, LLC

management

// mango : 2013-10-24 PUNTO FA S.L.

mango

// map : 2016-06-09 Charleston Road Registry Inc.

map

// market : 2014-03-06 Dog Beach, LLC

market

//

marketing : 2013-11-07 Binky Moon, LLC

marketing

// markets : 2014-12-11 Dotmarkets Registry Limited

markets

// marriott : 2014-10-09 Marriott Worldwide Corporation

marriott

// marshalls : 2015-07-16 The TJX Companies, Inc.

marshalls

// maserati : 2015-07-31 Fiat Chrysler Automobiles N.V.

maserati

// mattel : 2015-08-06 Mattel Sites, Inc.

mattel

// mba : 2015-04-02 Binky Moon, LLC

mba

// mckinsey : 2015-07-31 McKinsey Holdings, Inc.

mckinsey

// med : 2015-08-06 Medistry LLC

med

// media : 2014-03-06 Binky Moon, LLC

media

// meet : 2014-01-16 Charleston Road Registry Inc.

meet

// melbourne : 2014-05-29 The Crown in right of the State of Victoria, represented by its Department of State Development, Business and Innovation

melbourne

// meme : 2014-01-30 Charleston Road Registry Inc.

meme

// memorial : 2014-10-16 Dog Beach, LLC

memorial

// men : 2015-02-26 Exclusive Registry Limited

men

// menu : 2013-09-11 Dot Menu Registry, LLC

menu

// merckmsd : 2016-07-14

MSD Registry Holdings, Inc.

merckmsd

// miami : 2013-12-19 Minds + Machines Group Limited

miami

// microsoft : 2014-12-18 Microsoft Corporation

microsoft

// mini : 2014-01-09 Bayerische Motoren Werke Aktiengesellschaft

mini

// mint : 2015-07-30 Intuit Administrative Services, Inc.

mint

// mit : 2015-07-02 Massachusetts Institute of Technology
mit

// mitsubishi : 2015-07-23 Mitsubishi Corporation
mitsubishi

// mlb : 2015-05-21 MLB Advanced Media DH, LLC
mlb

// mls : 2015-04-23 The Canadian Real Estate Association
mls

// mma : 2014-11-07 MMA IARD
mma

// mobile : 2016-06-02 Dish DBS Corporation
mobile

// moda : 2013-11-07 Dog Beach, LLC
moda

// moe : 2013-11-13 Interlink Co., Ltd.
moe

// moi : 2014-12-18 Amazon Registry Services, Inc.
moi

// mom : 2015-04-16 UNR Corp.
mom

// monash : 2013-09-30 Monash University
monash

// money : 2014-10-16 Binky Moon, LLC
money

// monster : 2015-09-11 XYZ.COM LLC
monster

// mormon : 2013-12-05 IRI Domain Management, LLC
mormon

// mortgage
: 2014-03-20 Dog Beach, LLC
mortgage

// moscow : 2013-12-19 Foundation for Assistance for Internet Technologies and Infrastructure Development
(FAITID)
moscow

// moto : 2015-06-04 Motorola Trademark Holdings, LLC
moto

// motorcycles : 2014-01-09 XYZ.COM LLC
motorcycles

// mov : 2014-01-30 Charleston Road Registry Inc.
mov

// movie : 2015-02-05 Binky Moon, LLC
movie

// msd : 2015-07-23 MSD Registry Holdings, Inc.
msd

// mtn : 2014-12-04 MTN Dubai Limited
mtn

// mtr : 2015-03-12 MTR Corporation Limited
mtr

// mutual : 2015-04-02 Northwestern Mutual MU TLD Registry, LLC
mutual

// nab : 2015-08-20 National Australia Bank Limited
nab

// nagoya : 2013-10-24 GMO Registry, Inc.
nagoya

// nationwide : 2015-07-23 Nationwide Mutual Insurance Company
nationwide

// natura : 2015-03-12 NATURA COSMÉTICOS S.A.
natura

// navy : 2014-03-06 Dog Beach, LLC
navy

// nba : 2015-07-31 NBA REGISTRY, LLC
nba

// nec : 2015-01-08 NEC Corporation
nec

// netbank : 2014-06-26 COMMONWEALTH BANK OF
AUSTRALIA
netbank

// netflix : 2015-06-18 Netflix, Inc.
netflix

// network : 2013-11-14 Binky Moon, LLC
network

// neustar : 2013-12-05 NeuStar, Inc.
neustar

// new : 2014-01-30 Charleston Road Registry Inc.
new

// newholland : 2015-09-03 CNH Industrial N.V.
newholland

// news : 2014-12-18 Dog Beach, LLC
news

// next : 2015-06-18 Next plc
next

// nextdirect : 2015-06-18 Next plc
nextdirect

// nexus : 2014-07-24 Charleston Road Registry Inc.
nexus

// nfl : 2015-07-23 NFL Reg Ops LLC
nfl

// ngo : 2014-03-06 Public Interest Registry
ngo

// nhk : 2014-02-13 Japan Broadcasting Corporation (NHK)
nhk

// nico : 2014-12-04 DWANGO Co., Ltd.
nico

// nike : 2015-07-23 NIKE, Inc.
nike

// nikon : 2015-05-21 NIKON CORPORATION

nikon

// ninja : 2013-11-07 Dog Beach, LLC
ninja

// nissan : 2014-03-27 NISSAN MOTOR CO., LTD.
nissan

// nissay : 2015-10-29 Nippon Life Insurance Company
nissay

// nokia : 2015-01-08 Nokia Corporation
nokia

// northwesternmutual : 2015-06-18 Northwestern Mutual
Registry, LLC
northwesternmutual

// norton : 2014-12-04 NortonLifeLock Inc.
norton

// now : 2015-06-25 Amazon Registry Services, Inc.
now

// nowruz : 2014-09-04 Asia Green IT System Bilgisayar San. ve Tic. Ltd. Sti.
nowruz

// nowtv : 2015-05-14 Starbucks (HK) Limited
nowtv

// nra : 2014-05-22 NRA Holdings Company, INC.
nra

// nrw : 2013-11-21 Minds + Machines GmbH
nrw

// ntt : 2014-10-31 NIPPON TELEGRAPH AND TELEPHONE CORPORATION
ntt

// nyc : 2014-01-23 The City of New York by and through the New York City Department of Information
Technology & Telecommunications
nyc

// obi : 2014-09-25 OBI Group Holding SE & Co. KGaA
obi

// observer : 2015-04-30 Top Level Spectrum, Inc.
observer

// off : 2015-07-23 Johnson Shareholdings, Inc.

off

// office : 2015-03-12 Microsoft Corporation

office

// okinawa : 2013-12-05 BRregistry, Inc.

okinawa

// olayan : 2015-05-14 Crescent Holding GmbH

olayan

// olayangroup : 2015-05-14 Crescent Holding GmbH

olayangroup

// oldnavy : 2015-07-31

The Gap, Inc.

oldnavy

// ollo : 2015-06-04 Dish DBS Corporation

ollo

// omega : 2015-01-08 The Swatch Group Ltd

omega

// one : 2014-11-07 One.com A/S

one

// ong : 2014-03-06 Public Interest Registry

ong

// onl : 2013-09-16 iRegistry GmbH

onl

// online : 2015-01-15 DotOnline Inc.

online

// onyourside : 2015-07-23 Nationwide Mutual Insurance Company

onyourside

// ooo : 2014-01-09 INFIBEAM AVENUES LIMITED

ooo

// open : 2015-07-31 American Express Travel Related Services Company, Inc.

open

// oracle : 2014-06-19 Oracle Corporation

oracle

// orange : 2015-03-12 Orange Brand Services Limited
orange

// organic : 2014-03-27 Afiliias Limited
organic

// origins : 2015-10-01 The Estée Lauder Companies Inc.
origins

// osaka : 2014-09-04 Osaka Registry Co., Ltd.
osaka

// otsuka : 2013-10-11 Otsuka Holdings Co., Ltd.
otsuka

// ott : 2015-06-04 Dish DBS Corporation
ott

// ovh : 2014-01-16 MédiaBC
ovh

// page : 2014-12-04 Charleston Road Registry Inc.
page

// panasonic : 2015-07-30
Panasonic Corporation
panasonic

// paris : 2014-01-30 City of Paris
paris

// pars : 2014-09-04 Asia Green IT System Bilgisayar San. ve Tic. Ltd. Sti.
pars

// partners : 2013-12-05 Binky Moon, LLC
partners

// parts : 2013-12-05 Binky Moon, LLC
parts

// party : 2014-09-11 Blue Sky Registry Limited
party

// passagens : 2015-03-05 Travel Reservations SRL
passagens

// pay : 2015-08-27 Amazon Registry Services, Inc.
pay

// pccw : 2015-05-14 PCCW Enterprises Limited
pccw

// pet : 2015-05-07 Afiliias Limited
pet

// pfizer : 2015-09-11 Pfizer Inc.
pfizer

// pharmacy : 2014-06-19 National Association of Boards of Pharmacy
pharmacy

// phd : 2016-07-28 Charleston Road Registry Inc.
phd

// philips : 2014-11-07 Koninklijke Philips N.V.
philips

// phone : 2016-06-02 Dish DBS Corporation
phone

// photo : 2013-11-14 UNR Corp.
photo

// photography : 2013-09-20 Binky Moon, LLC
photography

// photos : 2013-10-17 Binky Moon, LLC
photos

// physio : 2014-05-01 PhysBiz Pty Ltd
physio

// pics
: 2013-11-14 UNR Corp.
pics

// pictet : 2014-06-26 Pictet Europe S.A.
pictet

// pictures : 2014-03-06 Binky Moon, LLC
pictures

// pid : 2015-01-08 Top Level Spectrum, Inc.
pid

// pin : 2014-12-18 Amazon Registry Services, Inc.
pin

// ping : 2015-06-11 Ping Registry Provider, Inc.
ping

// pink : 2013-10-01 Afiliias Limited
pink

// pioneer : 2015-07-16 Pioneer Corporation
pioneer

// pizza : 2014-06-26 Binky Moon, LLC
pizza

// place : 2014-04-24 Binky Moon, LLC
place

// play : 2015-03-05 Charleston Road Registry Inc.
play

// playstation : 2015-07-02 Sony Interactive Entertainment Inc.
playstation

// plumbing : 2013-09-10 Binky Moon, LLC
plumbing

// plus : 2015-02-05 Binky Moon, LLC
plus

// pnc : 2015-07-02 PNC Domain Co., LLC
pnc

// pohl : 2014-06-23 Deutsche Vermögensberatung Aktiengesellschaft DVAG
pohl

// poker : 2014-07-03 Afiliias Limited
poker

// politie : 2015-08-20 Politie Nederland
politie

// porn : 2014-10-16 ICM Registry PN LLC
porn

// pramerica : 2015-07-30

Prudential Financial, Inc.

pramerica

// praxi : 2013-12-05 Praxi S.p.A.

praxi

// press : 2014-04-03 DotPress Inc.

press

// prime : 2015-06-25 Amazon Registry Services, Inc.

prime

// prod : 2014-01-23 Charleston Road Registry Inc.

prod

// productions : 2013-12-05 Binky Moon, LLC

productions

// prof : 2014-07-24 Charleston Road Registry Inc.

prof

// progressive : 2015-07-23 Progressive Casualty Insurance Company

progressive

// promo : 2014-12-18 Afiliias Limited

promo

// properties : 2013-12-05 Binky Moon, LLC

properties

// property : 2014-05-22 UNR Corp.

property

// protection : 2015-04-23 XYZ.COM LLC

protection

// pru : 2015-07-30 Prudential Financial, Inc.

pru

// prudential : 2015-07-30 Prudential Financial, Inc.

prudential

// pub : 2013-12-12 Dog Beach, LLC

pub

// pwc : 2015-10-29 PricewaterhouseCoopers LLP

pwc

// qpon : 2013-11-14 dotCOOL, Inc.
qpon

// quebec : 2013-12-19 PointQuébec Inc
quebec

// quest : 2015-03-26 XYZ.COM LLC
quest

// qvc : 2015-07-30 QVC, Inc.
qvc

//
racing : 2014-12-04 Premier Registry Limited
racing

// radio : 2016-07-21 European Broadcasting Union (EBU)
radio

// raid : 2015-07-23 Johnson Shareholdings, Inc.
raid

// read : 2014-12-18 Amazon Registry Services, Inc.
read

// realestate : 2015-09-11 dotRealEstate LLC
realestate

// realtor : 2014-05-29 Real Estate Domains LLC
realtor

// realty : 2015-03-19 Fegistry, LLC
realty

// recipes : 2013-10-17 Binky Moon, LLC
recipes

// red : 2013-11-07 Afiliias Limited
red

// redstone : 2014-10-31 Redstone Haute Couture Co., Ltd.
redstone

// redumbrella : 2015-03-26 Travelers TLD, LLC
redumbrella

// rehab : 2014-03-06 Dog Beach, LLC
rehab

// reise : 2014-03-13 Binky Moon, LLC

reise

// reisen : 2014-03-06 Binky Moon, LLC

reisen

// reit : 2014-09-04 National Association of Real Estate Investment Trusts, Inc.

reit

// reliance : 2015-04-02 Reliance Industries Limited

reliance

// ren : 2013-12-12 ZDNS International Limited

ren

// rent : 2014-12-04 XYZ.COM LLC

rent

// rentals

: 2013-12-05 Binky Moon, LLC

rentals

// repair : 2013-11-07 Binky Moon, LLC

repair

// report : 2013-12-05 Binky Moon, LLC

report

// republican : 2014-03-20 Dog Beach, LLC

republican

// rest : 2013-12-19 Punto 2012 Sociedad Anonima Promotora de Inversion de Capital Variable

rest

// restaurant : 2014-07-03 Binky Moon, LLC

restaurant

// review : 2014-11-20 dot Review Limited

review

// reviews : 2013-09-13 Dog Beach, LLC

reviews

// rexroth : 2015-06-18 Robert Bosch GMBH

rexroth

// rich : 2013-11-21 iRegistry GmbH

rich

// richardli : 2015-05-14 Pacific Century Asset Management (HK) Limited
richardli

// ricoh : 2014-11-20 Ricoh Company, Ltd.
ricoh

// ril : 2015-04-02 Reliance Industries Limited
ril

// rio : 2014-02-27 Empresa Municipal de Informática SA - IPLANRIO
rio

// rip : 2014-07-10 Dog Beach, LLC
rip

// rmit : 2015-11-19 Royal Melbourne Institute of Technology
rmit

// rocher : 2014-12-18 Ferrero Trading Lux S.A.
rocher

// rocks : 2013-11-14 Dog Beach, LLC
rocks

// rodeo
: 2013-12-19 Minds + Machines Group Limited
rodeo

// rogers : 2015-08-06 Rogers Communications Canada Inc.
rogers

// room : 2014-12-18 Amazon Registry Services, Inc.
room

// rsvp : 2014-05-08 Charleston Road Registry Inc.
rsvp

// rugby : 2016-12-15 World Rugby Strategic Developments Limited
rugby

// ruhr : 2013-10-02 regiodot GmbH & Co. KG
ruhr

// run : 2015-03-19 Binky Moon, LLC
run

// rwe : 2015-04-02 RWE AG
rwe

// ryukyu : 2014-01-09 BRregistry, Inc.
ryukyu

// saarland : 2013-12-12 dotSaarland GmbH
saarland

// safe : 2014-12-18 Amazon Registry Services, Inc.
safe

// safety : 2015-01-08 Safety Registry Services, LLC.
safety

// sakura : 2014-12-18 SAKURA Internet Inc.
sakura

// sale : 2014-10-16 Dog Beach, LLC
sale

// salon : 2014-12-11 Binky Moon, LLC
salon

// samsclub : 2015-07-31 Wal-Mart Stores, Inc.
samsclub

// samsung : 2014-04-03 SAMSUNG SDS CO., LTD
samsung

// sandvik : 2014-11-13 Sandvik AB
sandvik

// sandvikcoromant : 2014-11-07 Sandvik AB
sandvikcoromant

//
sanofi : 2014-10-09 Sanofi
sanofi

// sap : 2014-03-27 SAP AG
sap

// sarl : 2014-07-03 Binky Moon, LLC
sarl

// sas : 2015-04-02 Research IP LLC
sas

// save : 2015-06-25 Amazon Registry Services, Inc.
save

// saxo : 2014-10-31 Saxo Bank A/S
saxo

// sbi : 2015-03-12 STATE BANK OF INDIA
sbi

// sbs : 2014-11-07 SPECIAL BROADCASTING SERVICE CORPORATION
sbs

// sca : 2014-03-13 SVENSKA CELLULOSA AKTIEBOLAGET SCA (publ)
sca

// scb : 2014-02-20 The Siam Commercial Bank Public Company Limited ("SCB")
scb

// schaeffler : 2015-08-06 Schaeffler Technologies AG & Co. KG
schaeffler

// schmidt : 2014-04-03 SCHMIDT GROUPE S.A.S.
schmidt

// scholarships : 2014-04-24 Scholarships.com, LLC
scholarships

// school : 2014-12-18 Binky Moon, LLC
school

// schule : 2014-03-06 Binky Moon, LLC
schule

// schwarz : 2014-09-18 Schwarz Domains und Services GmbH & Co. KG
schwarz

// science : 2014-09-11 dot Science Limited
science

// scjohnson : 2015-07-23 Johnson Shareholdings, Inc.
scjohnson

//
scot : 2014-01-23 Dot Scot Registry Limited
scot

// search : 2016-06-09 Charleston Road Registry Inc.

search

// seat : 2014-05-22 SEAT, S.A. (Sociedad Unipersonal)
seat

// secure : 2015-08-27 Amazon Registry Services, Inc.
secure

// security : 2015-05-14 XYZ.COM LLC
security

// seek : 2014-12-04 Seek Limited
seek

// select : 2015-10-08 Registry Services, LLC
select

// sener : 2014-10-24 Sener Ingeniería y Sistemas, S.A.
sener

// services : 2014-02-27 Binky Moon, LLC
services

// ses : 2015-07-23 SES
ses

// seven : 2015-08-06 Seven West Media Ltd
seven

// sew : 2014-07-17 SEW-EURODRIVE GmbH & Co KG
sew

// sex : 2014-11-13 ICM Registry SX LLC
sex

// sexy : 2013-09-11 UNR Corp.
sexy

// sfr : 2015-08-13 Societe Francaise du Radiotelephone - SFR
sfr

// shangrila : 2015-09-03 ShangriLa International Hotel Management Limited
shangrila

// sharp : 2014-05-01 Sharp Corporation
sharp

// shaw : 2015-04-23 Shaw Cablesystems G.P.

shaw

// shell : 2015-07-30 Shell Information Technology
International Inc
shell

// shia : 2014-09-04 Asia Green IT System Bilgisayar San. ve Tic. Ltd. Sti.
shia

// shiksha : 2013-11-14 Afiliias Limited
shiksha

// shoes : 2013-10-02 Binky Moon, LLC
shoes

// shop : 2016-04-08 GMO Registry, Inc.
shop

// shopping : 2016-03-31 Binky Moon, LLC
shopping

// shouji : 2015-01-08 Beijing Qihu Keji Co., Ltd.
shouji

// show : 2015-03-05 Binky Moon, LLC
show

// showtime : 2015-08-06 CBS Domains Inc.
showtime

// shriram : 2014-01-23 Shriram Capital Ltd.
shriram

// silk : 2015-06-25 Amazon Registry Services, Inc.
silk

// sina : 2015-03-12 Sina Corporation
sina

// singles : 2013-08-27 Binky Moon, LLC
singles

// site : 2015-01-15 DotSite Inc.
site

// ski : 2015-04-09 Afiliias Limited
ski

// skin : 2015-01-15 XYZ.COM LLC

skin

// sky : 2014-06-19 Sky International AG

sky

// skype : 2014-12-18 Microsoft Corporation

skype

// sling : 2015-07-30 DISH Technologies L.L.C.

sling

// smart : 2015-07-09 Smart Communications, Inc. (SMART)

smart

//

smile : 2014-12-18 Amazon Registry Services, Inc.

smile

// sncf : 2015-02-19 Société Nationale des Chemins de fer Francais S N C F

sncf

// soccer : 2015-03-26 Binky Moon, LLC

soccer

// social : 2013-11-07 Dog Beach, LLC

social

// softbank : 2015-07-02 SoftBank Group Corp.

softbank

// software : 2014-03-20 Dog Beach, LLC

software

// sohu : 2013-12-19 Sohu.com Limited

sohu

// solar : 2013-11-07 Binky Moon, LLC

solar

// solutions : 2013-11-07 Binky Moon, LLC

solutions

// song : 2015-02-26 Amazon Registry Services, Inc.

song

// sony : 2015-01-08 Sony Corporation

sony

// soy : 2014-01-23 Charleston Road Registry Inc.
soy

// spa : 2019-09-19 Asia Spa and Wellness Promotion Council Limited
spa

// space : 2014-04-03 DotSpace Inc.
space

// sport : 2017-11-16 Global Association of International Sports Federations (GAISF)
sport

// spot : 2015-02-26 Amazon Registry Services, Inc.
spot

// spreadbetting : 2014-12-11 Dotspreadbetting Registry Limited
spreadbetting

// srl : 2015-05-07
InterNetX, Corp
srl

// stada : 2014-11-13 STADA Arzneimittel AG
stada

// staples : 2015-07-30 Staples, Inc.
staples

// star : 2015-01-08 Star India Private Limited
star

// statebank : 2015-03-12 STATE BANK OF INDIA
statebank

// statefarm : 2015-07-30 State Farm Mutual Automobile Insurance Company
statefarm

// stc : 2014-10-09 Saudi Telecom Company
stc

// stcgroup : 2014-10-09 Saudi Telecom Company
stcgroup

// stockholm : 2014-12-18 Stockholms kommun
stockholm

// storage : 2014-12-22 XYZ.COM LLC

storage

// store : 2015-04-09 DotStore Inc.

store

// stream : 2016-01-08 dot Stream Limited

stream

// studio : 2015-02-11 Dog Beach, LLC

studio

// study : 2014-12-11 OPEN UNIVERSITIES AUSTRALIA PTY LTD

study

// style : 2014-12-04 Binky Moon, LLC

style

// sucks : 2014-12-22 Vox Populi Registry Ltd.

sucks

// supplies : 2013-12-19 Binky Moon, LLC

supplies

// supply : 2013-12-19 Binky Moon, LLC

supply

// support : 2013-10-24 Binky Moon, LLC

support

// surf : 2014-01-09 Minds + Machines

Group Limited

surf

// surgery : 2014-03-20 Binky Moon, LLC

surgery

// suzuki : 2014-02-20 SUZUKI MOTOR CORPORATION

suzuki

// swatch : 2015-01-08 The Swatch Group Ltd

swatch

// swiftcover : 2015-07-23 Swiftcover Insurance Services Limited

swiftcover

// swiss : 2014-10-16 Swiss Confederation

swiss

// sydney : 2014-09-18 State of New South Wales, Department of Premier and Cabinet
sydney

// systems : 2013-11-07 Binky Moon, LLC
systems

// tab : 2014-12-04 Tabcorp Holdings Limited
tab

// taipei : 2014-07-10 Taipei City Government
taipei

// talk : 2015-04-09 Amazon Registry Services, Inc.
talk

// taobao : 2015-01-15 Alibaba Group Holding Limited
taobao

// target : 2015-07-31 Target Domain Holdings, LLC
target

// tatamotors : 2015-03-12 Tata Motors Ltd
tatamotors

// tatar : 2014-04-24 Limited Liability Company "Coordination Center of Regional Domain of Tatarstan Republic"
tatar

// tattoo : 2013-08-30 UNR Corp.
tattoo

// tax : 2014-03-20 Binky Moon, LLC
tax

// taxi : 2015-03-19
Binky Moon, LLC
taxi

// tci : 2014-09-12 Asia Green IT System Bilgisayar San. ve Tic. Ltd. Sti.
tci

// tdk : 2015-06-11 TDK Corporation
tdk

// team : 2015-03-05 Binky Moon, LLC
team

// tech : 2015-01-30 Personals TLD Inc.
tech

// technology : 2013-09-13 Binky Moon, LLC
technology

// temasek : 2014-08-07 Temasek Holdings (Private) Limited
temasek

// tennis : 2014-12-04 Binky Moon, LLC
tennis

// teva : 2015-07-02 Teva Pharmaceutical Industries Limited
teva

// thd : 2015-04-02 Home Depot Product Authority, LLC
thd

// theater : 2015-03-19 Binky Moon, LLC
theater

// theatre : 2015-05-07 XYZ.COM LLC
theatre

// tiaa : 2015-07-23 Teachers Insurance and Annuity Association of America
tiaa

// tickets : 2015-02-05 Accent Media Limited
tickets

// tienda : 2013-11-14 Binky Moon, LLC
tienda

// tiffany : 2015-01-30 Tiffany and Company
tiffany

// tips : 2013-09-20 Binky Moon, LLC
tips

// tires : 2014-11-07 Binky Moon, LLC
tires

// tirol : 2014-04-24 punkt Tirol GmbH
tirol

//
tjmaxx : 2015-07-16 The TJX Companies, Inc.
tjmaxx

// tjx : 2015-07-16 The TJX Companies, Inc.

tjx

// tkmaxx : 2015-07-16 The TJX Companies, Inc.
tkmaxx

// tmall : 2015-01-15 Alibaba Group Holding Limited
tmall

// today : 2013-09-20 Binky Moon, LLC
today

// tokyo : 2013-11-13 GMO Registry, Inc.
tokyo

// tools : 2013-11-21 Binky Moon, LLC
tools

// top : 2014-03-20 .TOP Registry
top

// toray : 2014-12-18 Toray Industries, Inc.
toray

// toshiba : 2014-04-10 TOSHIBA Corporation
toshiba

// total : 2015-08-06 Total SA
total

// tours : 2015-01-22 Binky Moon, LLC
tours

// town : 2014-03-06 Binky Moon, LLC
town

// toyota : 2015-04-23 TOYOTA MOTOR CORPORATION
toyota

// toys : 2014-03-06 Binky Moon, LLC
toys

// trade : 2014-01-23 Elite Registry Limited
trade

// trading : 2014-12-11 Dottrading Registry Limited
trading

// training : 2013-11-07 Binky Moon, LLC

training

// travel : 2015-10-09 Dog Beach, LLC
travel

// travelchannel : 2015-07-02 Lifestyle Domain Holdings, Inc.
travelchannel

//
travelers : 2015-03-26 Travelers TLD, LLC
travelers

// travelersinsurance : 2015-03-26 Travelers TLD, LLC
travelersinsurance

// trust : 2014-10-16 NCC Group Domain Services, Inc.
trust

// trv : 2015-03-26 Travelers TLD, LLC
trv

// tube : 2015-06-11 Latin American Telecom LLC
tube

// tui : 2014-07-03 TUI AG
tui

// tunes : 2015-02-26 Amazon Registry Services, Inc.
tunes

// tushu : 2014-12-18 Amazon Registry Services, Inc.
tushu

// tvs : 2015-02-19 T V SUNDRAM IYENGAR & SONS LIMITED
tvs

// ubank : 2015-08-20 National Australia Bank Limited
ubank

// ubs : 2014-12-11 UBS AG
ubs

// unicom : 2015-10-15 China United Network Communications Corporation Limited
unicom

// university : 2014-03-06 Binky Moon, LLC
university

// uno : 2013-09-11 DotSite Inc.

uno

// uol : 2014-05-01 UBN INTERNET LTDA.

uol

// ups : 2015-06-25 UPS Market Driver, Inc.

ups

// vacations : 2013-12-05 Binky Moon, LLC

vacations

// vana : 2014-12-11 Lifestyle Domain Holdings, Inc.

vana

// vanguard

: 2015-09-03 The Vanguard Group, Inc.

vanguard

// vegas : 2014-01-16 Dot Vegas, Inc.

vegas

// ventures : 2013-08-27 Binky Moon, LLC

ventures

// verisign : 2015-08-13 VeriSign, Inc.

verisign

// versicherung : 2014-03-20 tldbox GmbH

versicherung

// vet : 2014-03-06 Dog Beach, LLC

vet

// viajes : 2013-10-17 Binky Moon, LLC

viajes

// video : 2014-10-16 Dog Beach, LLC

video

// vig : 2015-05-14 VIENNA INSURANCE GROUP AG Wiener Versicherung Gruppe

vig

// viking : 2015-04-02 Viking River Cruises (Bermuda) Ltd.

viking

// villas : 2013-12-05 Binky Moon, LLC

villas

// vin : 2015-06-18 Binky Moon, LLC
vin

// vip : 2015-01-22 Minds + Machines Group Limited
vip

// virgin : 2014-09-25 Virgin Enterprises Limited
virgin

// visa : 2015-07-30 Visa Worldwide Pte. Limited
visa

// vision : 2013-12-05 Binky Moon, LLC
vision

// viva : 2014-11-07 Saudi Telecom Company
viva

// vivo : 2015-07-31 Telefonica Brasil S.A.
vivo

// vlaanderen : 2014-02-06 DNS.be vzw
vlaanderen

// vodka : 2013-12-19
Minds + Machines Group Limited
vodka

// volkswagen : 2015-05-14 Volkswagen Group of America Inc.
volkswagen

// volvo : 2015-11-12 Volvo Holding Sverige Aktiebolag
volvo

// vote : 2013-11-21 Monolith Registry LLC
vote

// voting : 2013-11-13 Valuetainment Corp.
voting

// voto : 2013-11-21 Monolith Registry LLC
voto

// voyage : 2013-08-27 Binky Moon, LLC
voyage

// vuelos : 2015-03-05 Travel Reservations SRL

vuelos

// wales : 2014-05-08 Nominet UK
wales

// walmart : 2015-07-31 Wal-Mart Stores, Inc.
walmart

// walter : 2014-11-13 Sandvik AB
walter

// wang : 2013-10-24 Zodiac Wang Limited
wang

// wanggou : 2014-12-18 Amazon Registry Services, Inc.
wanggou

// watch : 2013-11-14 Binky Moon, LLC
watch

// watches : 2014-12-22 Richemont DNS Inc.
watches

// weather : 2015-01-08 International Business Machines Corporation
weather

// weatherchannel : 2015-03-12 International Business Machines Corporation
weatherchannel

// webcam : 2014-01-23 dot Webcam Limited
webcam

// weber :
2015-06-04 Saint-Gobain Weber SA
weber

// website : 2014-04-03 DotWebsite Inc.
website

// wedding : 2014-04-24 Minds + Machines Group Limited
wedding

// weibo : 2015-03-05 Sina Corporation
weibo

// weir : 2015-01-29 Weir Group IP Limited
weir

// whoswho : 2014-02-20 Who's Who Registry
whoswho

// wien : 2013-10-28 punkt.wien GmbH
wien

// wiki : 2013-11-07 Top Level Design, LLC
wiki

// williamhill : 2014-03-13 William Hill Organization Limited
williamhill

// win : 2014-11-20 First Registry Limited
win

// windows : 2014-12-18 Microsoft Corporation
windows

// wine : 2015-06-18 Binky Moon, LLC
wine

// winners : 2015-07-16 The TJX Companies, Inc.
winners

// wme : 2014-02-13 William Morris Endeavor Entertainment, LLC
wme

// wolterskluwer : 2015-08-06 Wolters Kluwer N.V.
wolterskluwer

// woodside : 2015-07-09 Woodside Petroleum Limited
woodside

// work : 2013-12-19 Minds + Machines Group Limited
work

// works : 2013-11-14 Binky Moon, LLC
works

// world : 2014-06-12 Binky Moon,
LLC
world

// wow : 2015-10-08 Amazon Registry Services, Inc.
wow

// wtc : 2013-12-19 World Trade Centers Association, Inc.
wtc

// wtf : 2014-03-06 Binky Moon, LLC

wtf

// xbox : 2014-12-18 Microsoft Corporation

xbox

// xerox : 2014-10-24 Xerox DNHC LLC

xerox

// xfinity : 2015-07-09 Comcast IP Holdings I, LLC

xfinity

// xihuan : 2015-01-08 Beijing Qihu Keji Co., Ltd.

xihuan

// xin : 2014-12-11 Elegant Leader Limited

xin

// xn--11b4c3d : 2015-01-15 VeriSign Sarl

// xn--1ck2e1b : 2015-02-26 Amazon Registry Services, Inc.

// xn--1qqw23a : 2014-01-09 Guangzhou YU Wei Information Technology Co., Ltd.

// xn--30rr7y : 2014-06-12 Excellent First Limited

// xn--3bst00m : 2013-09-13 Eagle Horizon Limited

// xn--3ds443g : 2013-09-08 TLD REGISTRY LIMITED OY

// xn--3oq18v18pn36a : 2015-07-02 Volkswagen (China) Investment Co., Ltd.

// xn--3pxu8k : 2015-01-15 VeriSign Sarl

// xn--42c2d9a : 2015-01-15 VeriSign Sarl

// xn--45q11c : 2013-11-21 Zodiac Gemini

Ltd

// xn--4gbrim : 2013-10-04 Fans TLD Limited

// xn--55qw42g : 2013-11-08 China Organizational Name Administration Center

// xn--55qx5d : 2013-11-14 China Internet Network Information Center (CNNIC)

// xn--5su34j936bgsg : 2015-09-03 ShangriLa International Hotel Management Limited

// xn--5tzm5g : 2014-12-22 Global Website TLD Asia Limited

// xn--6frz82g : 2013-09-23 Afiliias Limited

// xn--6qq986b3xl : 2013-09-13 Tycoon Treasure Limited

// xn--80adxhks : 2013-12-19 Foundation for Assistance for Internet Technologies and Infrastructure Development (FAITID)

// xn--80aqecdr1a : 2015-10-21 Pontificium Consilium de Communicationibus Socialibus (PCCS) (Pontifical Council for Social Communication)

// xn--80asehdb : 2013-07-14 CORE Association

// xn--80aswg : 2013-07-14 CORE Association

// xn--8y0a063a : 2015-03-26 China United Network Communications Corporation Limited

// xn--9dbq2a : 2015-01-15 VeriSign Sarl

//

xn--9et52u : 2014-06-12 RISE VICTORY LIMITED

// xn--9krt00a : 2015-03-12 Sina Corporation

// xn--b4w605ferd : 2014-08-07 Temasek Holdings (Private) Limited

// xn--bck1b9a5dre4c : 2015-02-26 Amazon Registry Services, Inc.

// xn--c1avg : 2013-11-14 Public Interest Registry

// xn--c2br7g : 2015-01-15 VeriSign Sarl

// xn--cck2b3b : 2015-02-26 Amazon Registry Services, Inc.

// xn--cckwxcetd : 2019-12-19 Amazon Registry Services, Inc.

// xn--cg4bki : 2013-09-27 SAMSUNG SDS CO., LTD

// xn--czr694b : 2014-01-16 Internet DotTrademark Organisation Limited

// xn--czrs0t : 2013-12-19 Binky Moon, LLC

// xn--czru2d : 2013-11-21 Zodiac Aquarius Limited

// xn--d1acj3b : 2013-11-20 The Foundation for Network Initiatives “The Smart Internet”

// xn--eckvdtc9d : 2014-12-18 Amazon Registry Services, Inc.

// xn--efvy88h : 2014-08-22 Guangzhou YU Wei Information Technology Co., Ltd.

// xn--fct429k : 2015-04-09 Amazon Registry Services,
Inc.

// xn--fhbei : 2015-01-15 VeriSign Sarl

// xn--fiq228c5hs : 2013-09-08 TLD REGISTRY LIMITED OY

// xn--fiq64b : 2013-10-14 CITIC Group Corporation

// xn--fq720a : 2014-05-22 Binky Moon, LLC

// xn--flw351e : 2014-07-31 Charleston Road Registry Inc.

// xn--fzys8d69uvgm : 2015-05-14 PCCW Enterprises Limited

// xn--g2xx48c : 2015-01-30 Nawang Heli(Xiamen) Network Service Co., LTD.

// xn--gckr3f0f : 2015-02-26 Amazon Registry Services, Inc.

// xn--gk3at1e : 2015-10-08 Amazon Registry Services, Inc.

// xn--hxt814e : 2014-05-15 Zodiac Taurus Limited

// xn--i1b6b1a6a2e : 2013-11-14 Public Interest Registry

// xn--imr513n : 2014-12-11 Internet DotTrademark Organisation Limited

// xn--io0a7i : 2013-11-14 China Internet Network Information Center (CNNIC)

// xn--j1aef : 2015-01-15 VeriSign Sarl

// xn--jlq480n2rg : 2019-12-19 Amazon Registry Services, Inc.

// xn--jlq61u9w7b : 2015-01-08 Nokia Corporation

// xn--jvr189m

: 2015-02-26 Amazon Registry Services, Inc.

// xn--kcrx77d1x4a : 2014-11-07 Koninklijke Philips N.V.

// xn--kput3i : 2014-02-13 Beijing RITT-Net Technology Development Co., Ltd

// xn--mgba3a3ejt : 2014-11-20 Aramco Services Company

// xn--mgba7c0bbn0a : 2015-05-14 Crescent Holding GmbH

// xn--mgbaakc7dvh : 2015-09-03 Emirates Telecommunications Corporation (trading as Etisalat)

// xn--mgbab2bd : 2013-10-31 CORE Association

// xn--mgbca7dzdo : 2015-07-30 Abu Dhabi Systems and Information Centre

// xn--mgbi4ecexp : 2015-10-21 Pontificium Consilium de Communicationibus Socialibus (PCCS) (Pontifical Council for Social Communication)

// xn--mgbt3dhd : 2014-09-04 Asia Green IT System Bilgisayar San. ve Tic. Ltd. Sti.

// xn--mk1bu44c : 2015-01-15 VeriSign Sarl

// xn--mxtq1m : 2014-03-06 Net-Chinese Co., Ltd.

// xn--ngbc5azd : 2013-07-13 International Domain Registry Pty. Ltd.

// xn--ngbe9e0a : 2014-12-04
Kuwait Finance House

// xn--ngbrx : 2015-11-12 League of Arab States

// xn--nqv7f : 2013-11-14 Public Interest Registry

// xn--nqv7fs00ema : 2013-11-14 Public Interest Registry

// xn--nyqy26a : 2014-11-07 Stable Tone Limited

// xn--otu796d : 2017-08-06 Jiang Yu Liang Cai Technology Company Limited

// xn--p1acf : 2013-12-12 Rusnames Limited

// xn--pssy2u : 2015-01-15 VeriSign Sarl

// xn--q9jyb4c : 2013-09-17 Charleston Road Registry Inc.

// xn--qcka1pmc : 2014-07-31 Charleston Road Registry Inc.

// xn--rhqv96g : 2013-09-11 Stable Tone Limited

// xn--rovu88b : 2015-02-26 Amazon Registry Services, Inc.

// xn--ses554g : 2014-01-16 KNET Co., Ltd.

// xn--t60b56a : 2015-01-15 VeriSign Sarl

// xn--tckwe : 2015-01-15 VeriSign Sarl

// xn--tiq49xqyj : 2015-10-21 Pontificium Consilium de Communicationibus Socialibus (PCCS) (Pontifical Council for Social Communication)

// xn--unup4y : 2013-07-14 Binky Moon, LLC

// xn--vermogensberater-ctb
: 2014-06-23 Deutsche Vermögensberatung Aktiengesellschaft DVAG
vermogensberater

// xn--vermogensberatung-pwb : 2014-06-23 Deutsche Vermögensberatung Aktiengesellschaft DVAG
vermogensberatung

// xn--vhquv : 2013-08-27 Binky Moon, LLC

// xn--vuq861b : 2014-10-16 Beijing Tele-info Network Technology Co., Ltd.

// xn--w4r85el8fhu5dnra : 2015-04-30 Kerry Trading Co. Limited

// xn--w4rs40l : 2015-07-30 Kerry Trading Co. Limited

// xn--xhq521b : 2013-11-14 Guangzhou YU Wei Information Technology Co., Ltd.

// xn--zfr164b : 2013-11-08 China Organizational Name Administration Center

// xyz : 2013-12-05 XYZ.COM LLC
xyz

// yachts : 2014-01-09 XYZ.COM LLC
yachts

// yahoo : 2015-04-02 Yahoo! Domain Services Inc.
yahoo

// yamaxun : 2014-12-18 Amazon Registry Services, Inc.
yamaxun

// yandex : 2014-04-10 Yandex Europe B.V.
yandex

// yodobashi : 2014-11-20 YODOBASHI CAMERA CO.,LTD.
yodobashi

// yoga : 2014-05-29 Minds + Machines Group Limited
yoga

//
yokohama : 2013-12-12 GMO Registry, Inc.
yokohama

// you : 2015-04-09 Amazon Registry Services, Inc.

you

// youtube : 2014-05-01 Charleston Road Registry Inc.
youtube

// yun : 2015-01-08 Beijing Qihu Keji Co., Ltd.
yun

// zappos : 2015-06-25 Amazon Registry Services, Inc.
zappos

// zara : 2014-11-07 Industria de Diseño Textil, S.A. (INDITEX, S.A.)
zara

// zero : 2014-12-18 Amazon Registry Services, Inc.
zero

// zip : 2014-05-08 Charleston Road Registry Inc.
zip

// zone : 2013-11-14 Binky Moon, LLC
zone

// zuerich : 2014-11-07 Kanton Zürich (Canton of Zurich)
zuerich

// ===END ICANN DOMAINS===
// ===BEGIN PRIVATE DOMAINS===
// (Note: these are in alphabetical order by company name)

// 1GB LLC : <https://www.1gb.ua/>
// Submitted by 1GB LLC <noc@1gb.com.ua>
cc.ua
inf.ua
ltd.ua

// 611coin : <https://611project.org/>
611.to

// Adobe : <https://www.adobe.com/>
// Submitted by Ian Boston <boston@adobe.com>
adobeaecloud.com
adobeaecloud.net
*.dev.adobeaecloud.com

// Agnat sp. z o.o.

: <https://domena.pl>
// Submitted by Przemyslaw Plewa <it-admin@domena.pl>
beep.pl

// alboto.ca : <http://alboto.ca>
// Submitted by Anton Avramov <avramov@alboto.ca>
barsy.ca

// Alces Software Ltd : <http://alces-software.com>
// Submitted by Mark J. Titorenko <mark.titorenko@alces-software.com>
*.compute.estate
*.alces.network

// all-inkl.com : <https://all-inkl.com>
// Submitted by Werner Kaltofen <wk@all-inkl.com>
kasserver.com

// Altervista: <https://www.altervista.org>
// Submitted by Carlo Cannas <tech_staff@altervista.it>
altervista.org

// alwaysdata : <https://www.alwaysdata.com>
// Submitted by Cyril <admin@alwaysdata.com>
alwaysdata.net

// Amazon CloudFront : <https://aws.amazon.com/cloudfront/>
// Submitted by Donovan Miller <donavanm@amazon.com>
cloudfront.net

// Amazon Elastic Compute Cloud : <https://aws.amazon.com/ec2/>
// Submitted by Luke Wells <psl-maintainers@amazon.com>
*.compute.amazonaws.com
*.compute-1.amazonaws.com
*.compute.amazonaws.com.cn
us-east-1.amazonaws.com

//
Amazon Elastic Beanstalk : <https://aws.amazon.com/elasticbeanstalk/>
// Submitted by Luke Wells <psl-maintainers@amazon.com>
cn-north-1.eb.amazonaws.com.cn
cn-northwest-1.eb.amazonaws.com.cn
elasticbeanstalk.com
ap-northeast-1.elasticbeanstalk.com
ap-northeast-2.elasticbeanstalk.com
ap-northeast-3.elasticbeanstalk.com
ap-south-1.elasticbeanstalk.com
ap-southeast-1.elasticbeanstalk.com
ap-southeast-2.elasticbeanstalk.com

ca-central-1.elasticbeanstalk.com
eu-central-1.elasticbeanstalk.com
eu-west-1.elasticbeanstalk.com
eu-west-2.elasticbeanstalk.com
eu-west-3.elasticbeanstalk.com
sa-east-1.elasticbeanstalk.com
us-east-1.elasticbeanstalk.com
us-east-2.elasticbeanstalk.com
us-gov-west-1.elasticbeanstalk.com
us-west-1.elasticbeanstalk.com
us-west-2.elasticbeanstalk.com

// Amazon Elastic Load Balancing : <https://aws.amazon.com/elasticloadbalancing/>
// Submitted by Luke Wells <psl-maintainers@amazon.com>
*.elb.amazonaws.com
*.elb.amazonaws.com.cn

// Amazon S3 : <https://aws.amazon.com/s3/>
//
Submitted by Luke Wells <psl-maintainers@amazon.com>
s3.amazonaws.com
s3-ap-northeast-1.amazonaws.com
s3-ap-northeast-2.amazonaws.com
s3-ap-south-1.amazonaws.com
s3-ap-southeast-1.amazonaws.com
s3-ap-southeast-2.amazonaws.com
s3-ca-central-1.amazonaws.com
s3-eu-central-1.amazonaws.com
s3-eu-west-1.amazonaws.com
s3-eu-west-2.amazonaws.com
s3-eu-west-3.amazonaws.com
s3-external-1.amazonaws.com
s3-fips-us-gov-west-1.amazonaws.com
s3-sa-east-1.amazonaws.com
s3-us-gov-west-1.amazonaws.com
s3-us-east-2.amazonaws.com
s3-us-west-1.amazonaws.com
s3-us-west-2.amazonaws.com
s3.ap-northeast-2.amazonaws.com
s3.ap-south-1.amazonaws.com
s3.cn-north-1.amazonaws.com.cn
s3.ca-central-1.amazonaws.com
s3.eu-central-1.amazonaws.com
s3.eu-west-2.amazonaws.com
s3.eu-west-3.amazonaws.com
s3.us-east-2.amazonaws.com
s3.dualstack.ap-northeast-1.amazonaws.com
s3.dualstack.ap-northeast-2.amazonaws.com

s3.dualstack.ap-south-1.amazonaws.com
s3.dualstack.ap-southeast-1.amazonaws.com
s3.dualstack.ap-southeast-2.amazonaws.com
s3.dualstack.ca-central-1.amazonaws.com
s3.dualstack.eu-central-1.amazonaws.com
s3.dualstack.eu-west-1.amazonaws.com
s3.dualstack.eu-west-2.amazonaws.com
s3.dualstack.eu-west-3.amazonaws.com
s3.dualstack.sa-east-1.amazonaws.com
s3.dualstack.us-east-1.amazonaws.com
s3.dualstack.us-east-2.amazonaws.com
s3-website-us-east-1.amazonaws.com
s3-website-us-west-1.amazonaws.com
s3-website-us-west-2.amazonaws.com
s3-website-ap-northeast-1.amazonaws.com
s3-website-ap-southeast-1.amazonaws.com
s3-website-ap-southeast-2.amazonaws.com
s3-website-eu-west-1.amazonaws.com
s3-website-sa-east-1.amazonaws.com
s3-website.ap-northeast-2.amazonaws.com
s3-website.ap-south-1.amazonaws.com
s3-website.ca-central-1.amazonaws.com
s3-website.eu-central-1.amazonaws.com
s3-website.eu-west-2.amazonaws.com
s3-website.eu-west-3.amazonaws.com
s3-website.us-east-2.amazonaws.com

//

Amsterdam Wireless: <https://www.amsterdamwireless.nl/>
// Submitted by Imre Jonk <hostmaster@amsterdamwireless.nl>
amsw.nl

// Amune

: <https://amune.org/>
// Submitted by Team Amune <cert@amune.org>
t3l3p0rt.net
tele.amune.org

// Apigee : <https://apigee.com/>

// Submitted by Apigee Security Team <security@apigee.com>
apigee.io

// Aptible : <https://www.aptible.com/>

// Submitted by Thomas Orozco <thomas@aptible.com>
on-aptible.com

// ASEINet : <https://www.aseinet.com/>

// Submitted by Asei SEKIGUCHI <mail@aseinet.com>

user.aseinet.ne.jp

gv.vc

d.gv.vc

// Asociación Amigos de la Informática "Euskalamiga" : <http://encounter.eus/>

// Submitted by Hector Martin <marcan@euskalencounter.org>

user.party.eus

// Association potager.org : <https://potager.org/>

// Submitted by Lunar <jardiniers@potager.org>

pimienta.org

poivron.org

potager.org

sweetpepper.org

// ASUSTOR Inc. : <http://www.asustor.com>

// Submitted by Vincent Tseng <vincenttseng@asustor.com>

myasustor.com

// AVM : <https://avm.de>

// Submitted by Andreas Weise <a.weise@avm.de>

myfritz.net

// AW AdvisorWebsites.com Software Inc : <https://advisorwebsites.com>

// Submitted

by James Kennedy <domains@advisorwebsites.com>

*.awdev.ca

*.advisor.ws

// b-data GmbH : <https://www.b-data.io>

// Submitted by Olivier Benz <olivier.benz@b-data.ch>

b-data.io

// backplane : <https://www.backplane.io>

// Submitted by Anthony Voutas <anthony@backplane.io>

backplaneapp.io

// Balena : <https://www.balena.io>

// Submitted by Petros Angelatos <petrosagg@balena.io>

balena-devices.com

// Banzai Cloud

// Submitted by Janos Matyas <info@banzaicloud.com>

*.banzai.cloud

app.banzaicloud.io

*.backyards.banzaicloud.io

// BetaInABox
// Submitted by Adrian <adrian@betainabox.com>
betainabox.com

// BinaryLane : <http://www.binarylane.com>
// Submitted by Nathan O'Sullivan <nathan@mammoth.com.au>
bnr.la

// Blackbaud, Inc. : <https://www.blackbaud.com>
// Submitted by Paul Crowder <paul.crowder@blackbaud.com>
blackbaudcdn.net

// Boomla : <https://boomla.com>
// Submitted by Tibor Halter <thalter@boomla.com>
boomla.net

// Boxfuse : <https://boxfuse.com>
// Submitted by Axel Fontaine <axel@boxfuse.com>
boxfuse.io

//
bplaced : <https://www.bplaced.net/>
// Submitted by Miroslav Bozic <security@bplaced.net>
square7.ch
bplaced.com
bplaced.de
square7.de
bplaced.net
square7.net

// BrowserSafetyMark
// Submitted by Dave Tharp <browsersafetymark.io@quicinc.com>
browsersafetymark.io

// Bytemark Hosting : <https://www.bytemark.co.uk>
// Submitted by Paul Cammish <paul.cammish@bytemark.co.uk>
uk0.bigv.io
dh.bytemark.co.uk
vm.bytemark.co.uk

// callidomus : <https://www.callidomus.com/>
// Submitted by Marcus Popp <admin@callidomus.com>
mycd.eu

// Carrd : <https://carrd.co>
// Submitted by AJ <aj@carrd.co>
carrd.co
crd.co

uwu.ai

// CentralNic : <http://www.centralnic.com/names/domains>

// Submitted by registry <gavin.brown@centralnic.com>

ae.org
br.com
cn.com
com.de
com.se
de.com
eu.com
gb.net
hu.net
jp.net
jpn.com
mex.com
ru.com
sa.com
se.net
uk.com
uk.net
us.com
za.bz
za.com

// No longer operated by CentralNic, these entries should be adopted and/or removed by current operators

//

Submitted by Gavin Brown <gavin.brown@centralnic.com>

ar.com
gb.com
hu.com
kr.com
no.com
qc.com
uy.com

// Africa.com Web Solutions Ltd : <https://registry.africa.com>

// Submitted by Gavin Brown <gavin.brown@centralnic.com>

africa.com

// iDOT Services Limited : <http://www.domain.gr.com>

// Submitted by Gavin Brown <gavin.brown@centralnic.com>

gr.com

// Radix FZC : <http://domains.in.net>

// Submitted by Gavin Brown <gavin.brown@centralnic.com>

in.net
web.in

// US REGISTRY LLC : <http://us.org>
// Submitted by Gavin Brown <gavin.brown@centralnic.com>
us.org

// co.com Registry, LLC : <https://registry.co.com>
// Submitted by Gavin Brown <gavin.brown@centralnic.com>
co.com

// Roar Domains LLC : <https://roar.basketball/>
// Submitted by Gavin Brown <gavin.brown@centralnic.com>
aus.basketball
nz.basketball

// BRS Media : <https://brsmedia.com/>
// Submitted by Gavin Brown <gavin.brown@centralnic.com>
radio.am
radio.fm

// Globe Hosting SRL : <https://www.globehosting.com/>
// Submitted by Gavin
Brown <gavin.brown@centralnic.com>
co.ro
shop.ro

// c.la : <http://www.c.la/>
c.la

// certmgr.org : <https://certmgr.org>
// Submitted by B. Blechschmidt <hostmaster@certmgr.org>
certmgr.org

// Citrix : <https://citrix.com>
// Submitted by Alex Stoddard <alex.stoddard@citrix.com>
xenapponazure.com

// Civilized Discourse Construction Kit, Inc. : <https://www.discourse.org/>
// Submitted by Rishabh Nambiar & Michael Brown <team@discourse.org>
discourse.group
discourse.team

// ClearVox : <http://www.clearvox.nl/>
// Submitted by Leon Rowland <leon@clearvox.nl>
virtueeldomein.nl

// Clever Cloud : <https://www.clever-cloud.com/>
// Submitted by Quentin Adam <noc@clever-cloud.com>
cleverapps.io

// Clerk : <https://www.clerk.dev>
// Submitted by Colin Sidoti <colin@clerk.dev>
*.lcl.dev
*.stg.dev

// Clic2000 : <https://clic2000.fr>
// Submitted by Mathilde Blanchemanche <mathilde@clic2000.fr>
clic2000.net

// Cloud66 : <https://www.cloud66.com/>
// Submitted by Khash Sajadi <khash@cloud66.com>
c66.me
cloud66.ws
cloud66.zone

//
CloudAccess.net : <https://www.cloudaccess.net/>
// Submitted by Pawel Panek <noc@cloudaccess.net>
jdevcloud.com
wpdevcloud.com
cloudaccess.host
freesite.host
cloudaccess.net

// cloudControl : <https://www.cloudcontrol.com/>
// Submitted by Tobias Wilken <tw@cloudcontrol.com>
cloudcontrolled.com
cloudcontrolapp.com

// Cloudera, Inc. : <https://www.cloudera.com/>
// Submitted by Philip Langdale <security@cloudera.com>
cloudera.site

// Cloudflare, Inc. : <https://www.cloudflare.com/>
// Submitted by Cloudflare Team <publicsuffixlist@cloudflare.com>
pages.dev
trycloudflare.com
workers.dev

// Clovyr : <https://clovyr.io>
// Submitted by Patrick Nielsen <patrick@clovyr.io>
wnext.app

// co.ca : <http://registry.co.ca/>
co.ca

// Co & Co : <https://co-co.nl/>

// Submitted by Govert Versluis <govert@co-co.nl>

*.otap.co

// i-registry s.r.o. : <http://www.i-registry.cz/>

// Submitted by Martin Semrad <semrad@i-registry.cz>

co.cz

// CDN77.com : <http://www.cdn77.com>

// Submitted by

Jan Krpes <jan.krpes@cdn77.com>

c.cdn77.org

cdn77-ssl.net

r.cdn77.net

rsc.cdn77.org

ssl.origin.cdn77-secure.org

// Cloud DNS Ltd : <http://www.cloudns.net>

// Submitted by Aleksander Hristov <noc@cloudns.net>

cloudns.asia

cloudns.biz

cloudns.club

cloudns.cc

cloudns.eu

cloudns.in

cloudns.info

cloudns.org

cloudns.pro

cloudns.pw

cloudns.us

// Cloudeity Inc : <https://cloudeity.com>

// Submitted by Stefan Dimitrov <contact@cloudeity.com>

cloudeity.net

// CNPY : <https://cnpny.gdn>

// Submitted by Angelo Gladding <angelo@lahacker.net>

cnpny.gdn

// CoDNS B.V.

co.nl

co.no

// Combell.com : <https://www.combell.com>

// Submitted by Thomas Wouters <thomas.wouters@combellgroup.com>

webhosting.be

hosting-cluster.nl

// Coordination Center for TLD RU and XN--P1AI : https://cctld.ru/en/domains/domens_ru/reserved/

// Submitted by George Georgievsky <gug@cctld.ru>

ac.ru

edu.ru

gov.ru

int.ru

mil.ru

test.ru

// COSIMO GmbH : <http://www.cosimo.de>

// Submitted by Rene Marticke <rmarticke@cosimo.de>

dyn.cosidns.de

dynamisches-dns.de

dnsupdater.de

internet-dns.de

l-o-g-i-n.de

dynamic-dns.info

feste-ip.net

knx-server.net

static-access.net

//

Craynic, s.r.o. : <http://www.craynic.com/>

// Submitted by Ales Krajnik <ales.krajnik@craynic.com>

realm.cz

// Cryptonomic : <https://cryptonomic.net/>

// Submitted by Andrew Cady <public-suffix-list@cryptonomic.net>

*.cryptonomic.net

// Cupcake : <https://cupcake.io/>

// Submitted by Jonathan Rudenberg <jonathan@cupcake.io>

cupcake.is

// Curv UG : <https://curv-labs.de/>

// Submitted by Marvin Wiesner <Marvin@curv-labs.de>

curv.dev

// Customer OCI - Oracle Dyn <https://cloud.oracle.com/home> <https://dyn.com/dns/>

// Submitted by Gregory Drake <support@dyn.com>

// Note: This is intended to also include customer-oci.com due to wildcards implicitly including the current label

*.customer-oci.com

*.oci.customer-oci.com

*.ocp.customer-oci.com

*.ocs.customer-oci.com

// cyon GmbH : <https://www.cyon.ch/>

// Submitted by Dominic Luechinger <dol@cyon.ch>

cyon.link

cyon.site

//

Danger Science Group: <https://dangerscience.com/>

// Submitted by Skylar MacDonald <skylar@dangerscience.com>

fnwk.site

folionetwork.site

platform0.app

// Daplie, Inc : <https://daplie.com>

// Submitted by AJ O'Neal <aj@daplie.com>

daplie.me

localhost.daplie.me

// Datto, Inc. : <https://www.datto.com/>

// Submitted by Philipp Heckel <ph@datto.com>

dattolocal.com

dattorelay.com

dattoweb.com

mydatto.com

dattolocal.net

mydatto.net

// Dansk.net : <http://www.dansk.net/>

// Submitted by Anani Voule <digital@digital.co.dk>

biz.dk

co.dk

firm.dk

reg.dk

store.dk

// dappnode.io : <https://dappnode.io/>

// Submitted by Abel Boldu / DAppNode Team <community@dappnode.io>

dyndns.dappnode.io

// dapps.earth : <https://dapps.earth/>

// Submitted by Daniil Burdakov <icqkill@gmail.com>

*.dapps.earth

*.bzz.dapps.earth

// Dark, Inc. : <https://darklang.com>

// Submitted by Paul Biggar <ops@darklang.com>

builtwithdark.com

// Datawire, Inc : <https://www.datawire.io>

// Submitted by Richard Li <secalert@datawire.io>

edgestack.me

//
Debian : <https://www.debian.org/>
// Submitted by Peter Palfrader / Debian Sysadmin Team <dsa-publicsuffixlist@debian.org>
debian.net

// deSEC : <https://desec.io/>
// Submitted by Peter Thomassen <peter@desec.io>
dedyn.io

// DNS Africa Ltd <https://dns.business>
// Submitted by Calvin Browne <calvin@dns.business>
jozi.biz

// DNSHome : <https://www.dnshome.de/>
// Submitted by Norbert Auler <mail@dnshome.de>
dnshome.de

// DotArai : <https://www.dotarai.com/>
// Submitted by Atsadawat Netcharadsang <atsadawat@dotarai.co.th>
online.th
shop.th

// DrayTek Corp. : <https://www.draytek.com/>
// Submitted by Paul Fang <mis@draytek.com>
drayddns.com

// DreamHost : <http://www.dreamhost.com/>
// Submitted by Andrew Farmer <andrew.farmer@dreamhost.com>
dreamhosters.com

// Drobo : <http://www.drobo.com/>
// Submitted by Ricardo Padilha <rpadilha@drobo.com>
mydrobo.com

// Drud Holdings, LLC. : <https://www.drud.com/>
// Submitted by Kevin Bridges <kevin@drud.com>
drud.io
drud.us

//
DuckDNS : <http://www.duckdns.org/>
// Submitted by Richard Harper <richard@duckdns.org>
duckdns.org

// Bip : <https://bip.sh>
// Submitted by Joel Kennedy <joel@bip.sh>
bip.sh

// bitbridge.net : Submitted by Craig Welch, abeliidev@gmail.com

bitbridge.net

// dy.fi : http://dy.fi/

// Submitted by Heikki Hannikainen <hessu@hes.iki.fi>

dy.fi

tunk.org

// DynDNS.com : http://www.dyndns.com/services/dns/dyndns/

dyndns-at-home.com

dyndns-at-work.com

dyndns-blog.com

dyndns-free.com

dyndns-home.com

dyndns-ip.com

dyndns-mail.com

dyndns-office.com

dyndns-pics.com

dyndns-remote.com

dyndns-server.com

dyndns-web.com

dyndns-wiki.com

dyndns-work.com

dyndns.biz

dyndns.info

dyndns.org

dyndns.tv

at-band-camp.net

ath.cx

barrel-of-knowledge.info

barrell-of-knowledge.info

better-than.tv

blogdns.com

blogdns.net

blogdns.org

blogsite.org

boldlygoingnowhere.org

broke-it.net

buyshouses.net

cechire.com

dnsalias.com

dnsalias.net

dnsalias.org

dnsdojo.com

dnsdojo.net

dnsdojo.org

does-it.net

doestexist.com

doesntexist.org
dontexist.com
dontexist.net
dontexist.org
doomdns.com
doomdns.org
dvrdns.org
dyn-o-saur.com
dynalias.com
dynalias.net
dynalias.org
dynathome.net
dyndns.ws
endofinternet.net
endofinternet.org
endoftheinternet.org
est-a-la-maison.com
est-a-la-masion.com
est-le-patron.com
est-mon-blogueur.com
for-better.biz
for-more.biz
for-our.info
for-some.biz
for-the.biz
forgot.her.name
forgot.his.name
from-ak.com
from-al.com
from-ar.com
from-az.net
from-ca.com
from-co.net
from-ct.com
from-dc.com
from-de.com
from-fl.com
from-ga.com
from-hi.com
from-ia.com
from-id.com
from-il.com
from-in.com
from-ks.com
from-ky.com
from-la.net
from-ma.com
from-md.com

from-me.org
from-mi.com
from-mn.com
from-mo.com
from-ms.com
from-mt.com
from-nc.com
from-nd.com
from-ne.com
from-nh.com
from-nj.com
from-nm.com
from-nv.com
from-ny.net
from-oh.com
from-ok.com
from-or.com
from-pa.com
from-pr.com
from-ri.com
from-sc.com
from-sd.com
from-tn.com
from-tx.com
from-ut.com
from-va.com
from-vt.com
from-wa.com
from-wi.com
from-wv.com
from-wy.com
ftpaccess.cc
fuettertdasnetz.de
game-host.org
game-server.cc
getmyip.com
gets-it.net
go.dyndns.org
gotdns.com
gotdns.org
groks-the.info
groks-this.info
ham-radio-op.net
here-for-more.info
hobby-site.com
hobby-site.org
home.dyndns.org
homedns.org

homeftp.net
homeftp.org
homeip.net
homelinux.com
homelinux.net
homelinux.org
homeunix.com
homeunix.net
homeunix.org
iamallama.com
in-the-band.net
is-a-anarchist.com
is-a-blogger.com
is-a-bookkeeper.com
is-a-bruinsfan.org
is-a-bulls-fan.com
is-a-candidate.org
is-a-caterer.com
is-a-celticsfan.org
is-a-chef.com
is-a-chef.net
is-a-chef.org
is-a-conservative.com
is-a-cpa.com
is-a-cubicle-slave.com
is-a-democrat.com
is-a-designer.com
is-a-doctor.com
is-a-financialadvisor.com
is-a-geek.com
is-a-geek.net
is-a-geek.org
is-a-green.com
is-a-guru.com
is-a-hard-worker.com
is-a-hunter.com
is-a-knight.org
is-a-landscaper.com
is-a-lawyer.com
is-a-liberal.com
is-a-libertarian.com
is-a-linux-user.org
is-a-llama.com
is-a-musician.com
is-a-nascarfan.com
is-a-nurse.com
is-a-painter.com
is-a-patsfan.org

is-a-personaltrainer.com
is-a-photographer.com
is-a-player.com
is-a-republican.com
is-a-rockstar.com
is-a-socialist.com
is-a-soxfan.org
is-a-student.com
is-a-teacher.com
is-a-techie.com
is-a-therapist.com
is-an-accountant.com
is-an-actor.com
is-an-actress.com
is-an-anarchist.com
is-an-artist.com
is-an-engineer.com
is-an-entertainer.com
is-by.us
is-certified.com
is-found.org
is-gone.com
is-into-anime.com
is-into-cars.com
is-into-cartoons.com
is-into-games.com
is-leet.com
is-lost.org
is-not-certified.com
is-saved.org
is-slick.com
is-uberleet.com
is-very-bad.org
is-very-evil.org
is-very-good.org
is-very-nice.org
is-very-sweet.org
is-with-theband.com
isa-geek.com
isa-geek.net
isa-geek.org
isa-hockeynut.com
issmarterthanyou.com
isteingeek.de
istmein.de
kicks-ass.net
kicks-ass.org
knowsitall.info

land-4-sale.us
lebtimnetz.de
leitungsen.de
likes-pie.com
likescandy.com
merseine.nu
mine.nu
misconfused.org
mypets.ws
myphotos.cc
neat-url.com
office-on-the.net
on-the-web.tv
podzone.net
podzone.org
readmyblog.org
saves-the-whales.com
scraper-site.net
scrapping.cc
selfip.biz
selfip.com
selfip.info
selfip.net
selfip.org
sells-for-less.com
sells-for-u.com
sells-it.net
sellsyourhome.org
servebbs.com
servebbs.net
servebbs.org
serveftp.net
serveftp.org
servegame.org
shacknet.nu
simple-url.com
space-to-rent.com
stuff-4-sale.org
stuff-4-sale.us
teaches-yoga.com
thruhere.net
traeumtgerade.de
webhop.biz
webhop.info
webhop.net
webhop.org
worse-than.tv
writesthisblog.com

```
//  
ddnss.de : https://www.ddnss.de/  
// Submitted by Robert Niedziela <webmaster@ddnss.de>  
ddnss.de  
dyn.ddnss.de  
dyndns.ddnss.de  
dyndns1.de  
dyn-ip24.de  
home-webserver.de  
dyn.home-webserver.de  
myhome-server.de  
ddnss.org  
  
// Definima : http://www.definima.com/  
// Submitted by Maxence Bitterli <maxence@definima.com>  
definima.net  
definima.io  
  
// dnstrace.pro : https://dnstrace.pro/  
// Submitted by Chris Partridge <chris@partridge.tech>  
bci.dnstrace.pro  
  
// Dynu.com  
: https://www.dynu.com/  
// Submitted by Sue Ye <sue@dynu.com>  
ddnsfree.com  
ddnsgeek.com  
giize.com  
gleeze.com  
kozow.com  
loseyourip.com  
ooguy.com  
theworkpc.com  
casacam.net  
dynu.net  
accesscam.org  
camdvr.org  
freedns.org  
mywire.org  
webredirect.org  
myddns.rocks  
blogsite.xyz  
  
// dynv6 : https://dynv6.com  
// Submitted by Dominik Menke <dom@digineo.de>  
dynv6.net
```

// E4YOU spol. s.r.o. : <https://e4you.cz/>
// Submitted by Vladimir Dudr <info@e4you.cz>
e4.cz

// En root : <https://en-root.org>
// Submitted by Emmanuel Raviart <emmanuel@raviart.com>
en-root.fr

// Enalean SAS: <https://www.enalean.com>
// Submitted by Thomas Cottier <thomas.cottier@enalean.com>
mytuleap.com

// ECG Robotics, Inc: <https://ecgrobotics.org>
// Submitted by <frc1533@ecgrobotics.org>
onred.one
staging.onred.one

// One.com: <https://www.one.com/>
// Submitted by Jacob Bunk Nielsen <jbn@one.com>
service.one

// Enonic : <http://enonic.com/>
// Submitted by Erik Kaareng-Sunde <esu@enonic.com>
enonic.io
customer.enonic.io

// EU.org
<https://eu.org/>
// Submitted by Pierre Beyssac <hostmaster@eu.org>
eu.org
al.eu.org
asso.eu.org
at.eu.org
au.eu.org
be.eu.org
bg.eu.org
ca.eu.org
cd.eu.org
ch.eu.org
cn.eu.org
cy.eu.org
cz.eu.org
de.eu.org
dk.eu.org
edu.eu.org
ee.eu.org
es.eu.org
fi.eu.org

fr.eu.org
gr.eu.org
hr.eu.org
hu.eu.org
ie.eu.org
il.eu.org
in.eu.org
int.eu.org
is.eu.org
it.eu.org
jp.eu.org
kr.eu.org
lt.eu.org
lu.eu.org
lv.eu.org
mc.eu.org
me.eu.org
mk.eu.org
mt.eu.org
my.eu.org
net.eu.org
ng.eu.org
nl.eu.org
no.eu.org
nz.eu.org
paris.eu.org
pl.eu.org
pt.eu.org
q-a.eu.org
ro.eu.org
ru.eu.org
se.eu.org
si.eu.org
sk.eu.org
tr.eu.org
uk.eu.org
us.eu.org

// Evennode : <http://www.evennode.com/>

// Submitted by Michal Kralik <support@evennode.com>

eu-1.evennode.com
eu-2.evennode.com
eu-3.evennode.com
eu-4.evennode.com
us-1.evennode.com
us-2.evennode.com
us-3.evennode.com
us-4.evennode.com

// eDirect Corp. : <https://hosting.url.com.tw/>
// Submitted by C.S. chang <cschang@corp.url.com.tw>
twmail.cc
twmail.net
twmail.org
mymailer.com.tw
url.tw

//
Fabrica Technologies, Inc. : <https://www.fabrica.dev/>
// Submitted by Eric Jiang <eric@fabrica.dev>
onfabrica.com

// Facebook, Inc.
// Submitted by Peter Ruibal <public-suffix@fb.com>
apps.fbsbx.com

// FAITID : <https://faitid.org/>
// Submitted by Maxim Alzoba <tech.contact@faitid.org>
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// Submitted by Thomas Waldmann <info@nsupdate.info>
nsupdate.info
nerdpol.ovh

// No-IP.com : <https://noip.com/>
// Submitted by Deven Reza <publicsuffixlist@noip.com>
blogsyste.com
brasil.me
cable-modem.org
cisconfreak.com
collegefan.org
couchpotatofries.org
damnservers.com
ddns.me
ditchyourip.com
dnsfor.me
dnsiskinky.com
dvrcam.info
dynns.com
eating-organic.net
fantasyleague.cc
geekgalaxy.com
golffan.us
health-carereform.com
homesecuritymac.com
homesecuritypc.com
hopto.me
ilovecollege.info
loginto.me
mlbfan.org
mmafan.biz
myactivedirectory.com
mydissent.net

myeffect.net
mymediapc.net
myspx.net
mysecuritycamera.com
mysecuritycamera.net
mysecuritycamera.org
net-freaks.com
nflfan.org
nhlfan.net
no-ip.ca
no-ip.co.uk
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noip.us
onthewifi.com
pgafan.net
point2this.com
pointto.us
privatizehealthinsurance.net
quicksytes.com
read-books.org
securitytactics.com
serveexchange.com
servehumour.com
servep2p.com
servesarcasm.com
stufftoread.com
ufcfan.org
unusualperson.com
workisboring.com
3utilities.com
bounceme.net
ddns.net
ddnsking.com
gotdns.ch
hopto.org
myftp.biz
myftp.org
myvnc.com
no-ip.biz
no-ip.info
no-ip.org
noip.me
redirectme.net
servebeer.com
serveblog.net
servecounterstrike.com
serveftp.com
servegame.com

servehalflife.com
servehttp.com
serveirc.com
serveminecraft.net
servemp3.com
servepics.com
servequake.com
sytes.net
webhop.me
zapto.org

//

NodeArt : <https://nodeart.io>
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stage.nodeart.io

// Nodum B.V. : <https://nodum.io/>

// Submitted by Wietse Wind <hello+publicsuffixlist@nodum.io>
nodum.co
nodum.io

// Nucleos Inc. : <https://nucleos.com>

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pcloud.host

// NYC.mn : <http://www.information.nyc.mn>

// Submitted by Matthew Brown <mattbrown@nyc.mn>
nyc.mn

// NymNom : <https://nymnom.com/>

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nom.ae

nom.af

nom.ai

nom.al

nym.by

nom.bz

nym.bz

nom.cl

nym.ec

nom.gd

nom.ge

nom.gl

nym.gr

nom.gt

nym.gy

nym.hk

nom.hn

nym.ie
nom.im
nom.ke
nym.kz
nym.la
nym.lc
nom.li
nym.li
nym.lt
nym.lu
nom.lv
nym.me
nom.mk
nym.mn
nym.mx
nom.nu
nym.nz
nym.pe
nym.pt
nom.pw
nom.qa
nym.ro
nom.rs
nom.si
nym.sk
nom.st
nym.su
nym.sx
nom.tj
nym.tw
nom.ug
nom.uy
nom.vc
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//

Observable, Inc. : <https://observablehq.com>
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static.observableusercontent.com

// Octopodal Solutions, LLC. : <https://ulterius.io/>
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cya.gg

// OMG.LOL : <<https://omg.lol>>
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omg.lol

// Omnibond Systems, LLC. : <https://www.omnibond.com>
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cloudycluster.net

// OmniWe Limited: <https://omniwe.com>
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omniwe.site

// One Fold Media : <http://www.onefoldmedia.com/>
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nid.io

// Open Social : <https://www.getopensocial.com/>
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opensocial.site

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OpenCraft GmbH : <http://opencraft.com/>
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opencraft.hosting

// Opera Software, A.S.A.
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// Oursky Limited : <https://skygear.io/>
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skygearapp.com

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// OwnProvider GmbH: <http://www.ownprovider.com>
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ownprovider.com
own.pm

// OwO : <https://whats-th.is/>
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// OX : <http://www.ox.rs>
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// oy.lc
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oy.lc

// Pagefog : <https://pagefog.com/>
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pgfog.com

// Pagefront : <https://www.pagefronthq.com/>
// Submitted by Jason Kriss <jason@pagefronthq.com>
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//
PageXL : <https://pagexl.com>
// Submitted by Yann Guichard <yann@pagexl.com>
pagexl.com

// pcarrier.ca Software Inc: <https://pcarrier.ca/>
// Submitted by Pierre Carrier <pc@rrier.ca>
bar0.net
bar1.net
bar2.net
rdv.to

// .pl domains (grandfathered)
art.pl
gliwice.pl
krakow.pl
poznan.pl
wroc.pl
zakopane.pl

// Pantheon Systems, Inc. : <https://pantheon.io/>
// Submitted by Gary Dylina <gary@pantheon.io>
pantheonsite.io
gotpantheon.com

// Peplink | Pepwave : <http://peplink.com/>
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mypep.link

// Perspecta : <https://perspecta.com/>
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// Planet-Work : <https://www.planet-work.com/>
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on-web.fr

// Platform.sh : <https://platform.sh>

// Submitted by Nikola Kotur <nikola@platform.sh>
bc.platform.sh
ent.platform.sh
eu.platform.sh
us.platform.sh
*.platformsh.site

// Platter:
<https://platter.dev>
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platter-app.com
platter-app.dev
platterp.us

// Plesk : <https://www.plesk.com/>
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pdns.page
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pleskns.com

// Port53 : <https://port53.io/>
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dyn53.io

// Positive Codes Technology Company : <http://co.bn/faq.html>
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co.bn

// prgmr.com : <https://prgmr.com/>
// Submitted by Sarah Newman <owner@prgmr.com>
xen.prgmr.com

// priv.at : <http://www.nic.priv.at/>
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priv.at

// privacytools.io : <https://www.privacytools.io/>
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prvcy.page

// Protocol Labs : <https://protocol.ai/>
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// QuickBackend: <https://www.quickbackend.com>
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// Redstar Consultants : <https://www.redstarconsultants.com/>
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instantcloud.cn

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// QA2
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qa2.com

// QCX
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qcx.io
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// QNAP System Inc : <https://www.qnap.com>
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// Quip : <https://quip.com>
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vapor.cloud
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// Rackmaze LLC : <https://www.rackmaze.com>
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rackmaze.net

// Rakuten Games, Inc : <https://dev.viberplay.io>
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g.vbrplsbox.io

// Rancher Labs, Inc : <https://rancher.com>
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*.on-k3s.io
*.on-rancher.cloud
*.on-rio.io

// Read The Docs, Inc : <https://www.readthedocs.org>
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readthedocs.io

// Red Hat, Inc. OpenShift : <https://openshift.redhat.com/>
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app.render.com
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// Repl.it : <https://repl.it>
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repl.co
repl.run

// Resin.io
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resindevice.io
devices.resinstaging.io

// RethinkDB : <https://www.rethinkdb.com/>
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hzc.io

// Revitalised Limited : <http://www.revitalised.co.uk>
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wellbeingzone.eu
ptplus.fit
wellbeingzone.co.uk

// Rochester Institute of Technology : <http://www.rit.edu/>
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// Sandstorm Development Group, Inc. : <https://sandcats.io/>
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// SBE network solutions GmbH : <https://www.sbe.de/>
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logoip.de
logoip.com

// schokokeks.org GbR : <https://schokokeks.org/>
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schokokeks.net

// Scottish Government: <https://www.gov.scot>
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gov.scot

// Scry Security : <http://www.scrysec.com>
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Submitted by Shante Adam <shante@skyhat.io>
scrysec.com

// Securepoint GmbH : <https://www.securepoint.de>
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firewall-gateway.com
firewall-gateway.de
my-gateway.de
my-router.de
spdns.de
spdns.eu
firewall-gateway.net
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myfirewall.org
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seidat.net

// Senseering GmbH : <https://www.senseering.de>

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// Service Online LLC : http://drs.ua/
// Submitted by Serhii Bulakh <support@drs.ua>
biz.ua
co.ua
pp.ua

// ShiftEdit : https://shiftedit.net/
// Submitted by Adam Jimenez <adam@shiftcreate.com>
shiftedit.io

// Shopblocks : http://www.shopblocks.com/
// Submitted by Alex Bowers <alex@shopblocks.com>
myshopblocks.com

// Shopit : https://www.shopitcommerce.com/
// Submitted by Craig McMahon <craig@shopitcommerce.com>
shopitsite.com

// shopware AG : https://shopware.com
//
Submitted by Jens Küper <cloud@shopware.com>
shopware.store

// Siemens Mobility GmbH
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mo-siemens.io

// SinaAppEngine : http://sae.sina.com.cn/
// Submitted by SinaAppEngine <saesupport@sinacloud.com>
lkapp.com
appchizi.com
applinzi.com
sinaapp.com
vipsinaapp.com

// Siteleaf : https://www.siteleaf.com/
// Submitted by Skylar Challand <support@siteleaf.com>
siteleaf.net

// Skyhat : http://www.skyhat.io
// Submitted by Shante Adam <shante@skyhat.io>
bounty-full.com
alpha.bounty-full.com
beta.bounty-full.com

// Small Technology Foundation : <https://small-tech.org>
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small-web.org

// Stackhero : <https://www.stackhero.io>
// Submitted by Adrien Gillon <adrien+public-suffix-list@stackhero.io>
stackhero-network.com

// staticland : <https://static.land>
// Submitted by Seth Vincent <sethvincent@gmail.com>
static.land
dev.static.land
sites.static.land

// Sony Interactive
Entertainment LLC : <https://sie.com/>
// Submitted by David Coles <david.coles@sony.com>
playstation-cloud.com

// SourceLair PC : <https://www.sourcelair.com>
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apps.lair.io
*.stolos.io

// SpaceKit : <https://www.spacekit.io/>
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spacekit.io

// SpeedPartner GmbH: <https://www.speedpartner.de/>
// Submitted by Stefan Neufeind <info@speedpartner.de>
customer.speedpartner.de

// Standard Library : <https://stdlib.com>
// Submitted by Jacob Lee <jacob@stdlib.com>
api.stdlib.com

// Storj Labs Inc. : <https://storj.io/>
// Submitted by Philip Hutchins <hostmaster@storj.io>
storj.farm

// Studenten Net Twente : <http://www.snt.utwente.nl/>
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utwente.io

// Student-Run Computing Facility : <https://www.srcf.net/>
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soc.srcf.net
user.srcf.net

// Sub 6 Limited: <http://www.sub6.com>

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temp-dns.com

// Swisscom Application Cloud: <https://developer.swisscom.com>

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applicationcloud.io

scapp.io

// Symfony, SAS : <https://symfony.com/>

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*.s5y.io

*.sensiosite.cloud

// Syncloud : <https://syncloud.org>

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syncloud.it

// Synology, Inc. : <https://www.synology.com/>

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dscloud.biz

dscloud.me

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dsmynas.net

dsmynas.org

familyds.com

familyds.net

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i234.me

myds.me

synology.me

vpnplus.to

direct.quickconnect.to

// TAIFUN Software AG : <http://taifun-software.de>

// Submitted by Bjoern Henke <dev-server@taifun-software.de>

taifun-dns.de

// TASK geographical domains (www.task.gda.pl/uslugi/dns)

gda.pl

gdansk.pl

gdynia.pl

med.pl

sopot.pl

// Teckids e.V. : <https://www.teckids.org>
// Submitted by Dominik
George <dominik.george@teckids.org>
edugit.org

// Telebit : <https://telebit.cloud>
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telebit.app
telebit.io
*.telebit.xyz

// The Gwiddle Foundation : <https://gwiddlefoundation.org.uk>
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gwiddle.co.uk

// Thingdust AG : <https://thingdust.com/>
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thingdustdata.com
cust.dev.thingdust.io
cust.disrec.thingdust.io
cust.prod.thingdust.io
cust.testing.thingdust.io
*.firenet.ch
*.svc.firenet.ch

// Tlon.io : <https://tlon.io>
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arvo.network
azimuth.network
tlon.network

// TownNews.com : <http://www.townnews.com>
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bloxcms.com
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// TrafficPlex GmbH : <https://www.trafficplex.de/>
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12hp.at
2ix.at
4lima.at
lima-city.at
12hp.ch
2ix.ch
4lima.ch
lima-city.ch
trafficplex.cloud

de.cool
12hp.de
2ix.de
4lima.de
lima-city.de
1337.pictures
clan.rip
lima-city.rocks
webspaces.rocks
lima.zone

//
TransIP : <https://www.transip.nl>
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*.transurl.be
*.transurl.eu
*.transurl.nl

// TuxFamily : <http://tuxfamily.org>
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tuxfamily.org

// TwoDNS : <https://www.twodns.de/>
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dd-dns.de
diskstation.eu
diskstation.org
dray-dns.de
draydns.de
dyn-vpn.de
dynvpn.de
mein-vigor.de
my-vigor.de
my-wan.de
syno-ds.de
synology-diskstation.de
synology-ds.de

// Uberspace : <https://uberspace.de>
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uber.space
*.uberspace.de

// UDR Limited : <http://www.udr.hk.com>
// Submitted by registry <hostmaster@udr.hk.com>
hk.com
hk.org
ltd.hk

inc.hk

// United Gameserver GmbH : <https://united-gameserver.de>
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virtualuser.de
virtual-user.de

//
urown.net : <https://urown.net>
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urown.cloud
dnsupdate.info

// .US
// Submitted by Ed Moore <Ed.Moore@lib.de.us>
lib.de.us

// VeryPositive SIA : <http://very.lv>
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2038.io

// Vercel, Inc : <https://vercel.com/>
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vercel.app
vercel.dev
now.sh

// Viprinet Europe GmbH : <http://www.viprinet.com>
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router.management

// Virtual-Info : <https://www.virtual-info.info/>
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// Voorloper.com: <https://voorloper.com>
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// Voxel.sh DNS : <https://voxel.sh/dns/>
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neko.am
nyaa.am
be.ax
cat.ax
es.ax
eu.ax
gg.ax

mc.ax
us.ax
xy.ax
nl.ci
xx.gl
app.gp
blog.gt
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be.gy
cc.hn
blog.kg
io.kg
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de.ls
at.md
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jp.md
to.md
uwu.nu
indie.porn
vxl.sh
ch.tc
me.tc
we.tc
nyan.to
at.vg
blog.vu
dev.vu
me.vu

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V.UA Domain Administrator : <https://domain.v.ua/>
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// Waffle Computer Inc., Ltd. : <https://docs.waffleinfo.com>
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// WapBlog.ID : <https://www.wapblog.id>
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indowapblog.com
bloghp.id

wblog.id
wbq.me
fastblog.net

// WebHare bv: <https://www.webhare.com/>
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// WeDeploy by Liferay, Inc. : <https://www.wedeploy.com>
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wedeploy.io
wedeploy.me
wedeploy.sh

// Western Digital Technologies, Inc : <https://www.wdc.com>
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remotewd.com

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toolforge.org
wmcloud.org

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daemon.panel.gg

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myforum.community
community-pro.de
diskussionsbereich.de
community-pro.net
meinforum.net

// www.com.vc : <http://www.com.vc>
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cn.vu

// XenonCloud GbR: <https://xenoncloud.net>
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xnbay.com

u2.xnbay.com

u2-local.xnbay.com

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cistron.nl

demon.nl

xs4all.space

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yandexcloud.net

storage.yandexcloud.net

website.yandexcloud.net

// YesCourse Pty Ltd : <https://yescourse.com>

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ybo.faith

yombo.me

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ybo.party

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ybo.science

ybo.trade

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nohost.me

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// Submitted by registry <hostmaster@nic.za.net>

za.net

za.org

```
// Zine EOOD : https://zine.bg/  
// Submitted by Martin Angelov <martin@zine.bg>  
bss.design
```

```
// Zitcom A/S : https://www.zitcom.dk  
// Submitted by Emil Stahl <esp@zitcom.dk>  
basicserver.io  
virtualserver.io  
enterprisecloud.nu
```

```
// Mintere : https://mintere.com/  
// Submitted by Ben Aubin <security@mintere.com>  
mintere.site
```

```
//  
Cityhost LLC : https://cityhost.ua  
// Submitted by Maksym Rivtin <support@cityhost.net.ua>  
cx.ua
```

```
// WP Engine : https://wpengine.com/  
// Submitted by Michael Smith <michael.smith@wpengine.com>  
// Submitted by Brandon DuRette <brandon.durette@wpengine.com>  
wpenginepowered.com  
js.wpenginepowered.com
```

```
// Impertrix Solutions : <https://impertrixcdn.com>  
// Submitted by Zhixiang Zhao <csuite@impertrix.com>  
impertrixcdn.com  
impertrix.com
```

```
// GignoSystemJapan: http://gsj.bz  
// Submitted by GignoSystemJapan <kakutou-ec@gsj.bz>  
gsj.bz  
// ===END PRIVATE DOMAINS===
```

Found in path(s):

```
* /opt/cola/permits/1314879430_1670490931.8770304/0/effective-tld-names-1-tar-gz/effective_tld_names.dat  
No license file was found, but licenses were detected in source scan.
```

```
{
```

```
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```

```
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```

```
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```

```
// Test file used by registry_controlled_domain_unittest.
```

```
// We edit this file manually, then run
```

```
// gperf -a -L "C++" -C -c -o -t -k '*' -NFindDomain -ZPerfect_Hash_Test2 -P -K name_offset -Q stringpool2 -D -T  
effective_tld_names_unittest2.gperf > effective_tld_names_unittest2.cc
```

```
// to generate the perfect hashmap.
% }
struct DomainRule {
    int name_offset;
    int type; // 1: exception, 2: wildcard, 4: private
};
%%
jp, 0
bar.jp, 0
%%
```

Found in path(s):

```
* /opt/cola/permits/1314879430_1670490931.8770304/0/effective-tld-names-1-tar-gz/effective_tld_names_unittest2.gperf
```

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```
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```

```
action_foreach("registry_controlled_domains") {
    script = "//net/tools/dafsa/make_dafsa.py"
    sources = [
        "effective_tld_names.gperf",
        "effective_tld_names_unittest1.gperf",
        "effective_tld_names_unittest2.gperf",
        "effective_tld_names_unittest3.gperf",
        "effective_tld_names_unittest4.gperf",
        "effective_tld_names_unittest5.gperf",
        "effective_tld_names_unittest6.gperf",
    ]
    outputs = [ "${target_gen_dir}/${source_name_part}-reversed-inc.cc" ]
    args = [
        "--reverse",
        "${source}",
        rebase_path("${target_gen_dir}/${source_name_part}-reversed-inc.cc",
            root_build_dir),
    ]
}
```

```
action_foreach("lookup_strings_test_sets") {
    script = "//net/tools/dafsa/make_dafsa.py"
    sources = [
        "effective_tld_names.gperf",
        "effective_tld_names_unittest1.gperf",
        "effective_tld_names_unittest2.gperf",
        "effective_tld_names_unittest3.gperf",
        "effective_tld_names_unittest4.gperf",
    ]
}
```



```

    "effective_tld_names_unittest5.gperf",
    "effective_tld_names_unittest6.gperf",
]
outputs = [ "${target_gen_dir}/${source_name_part}-inc.cc" ]
args = [
    "${source}",
    rebase_path("${target_gen_dir}/${source_name_part}-inc.cc",
        root_build_dir),
]
}

```

Found in path(s):

* /opt/cola/permits/1314879430_1670490931.8770304/0/effective-tld-names-1-tar-gz/BUILD.gn

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Found in path(s):

* /opt/cola/permits/1314879430_1670490931.8770304/0/effective-tld-names-1-tar-gz/registry_controlled_domain_unittest.cc

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```
%{
```

```
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```

```
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```

```
// found in the LICENSE file.
```

```
// Test file used by registry_controlled_domain_unittest.
```

```
// We edit this file manually, then run
```

```
// gperf -a -L "C++" -C -c -o -t -k '*' -NFindDomain -ZPerfect_Hash_Test1 -P -K name_offset -Q stringpool1 -D
effective_tld_names_unittest1.gperf > effective_tld_names_unittest1.cc
```

```
// to generate the perfect hashmap.
```

```
%}
```

```
struct DomainRule {
```

```
    int name_offset;
```

```
    int type; // 1: exception, 2: wildcard, 4: private
```

```
};
```

```
%%
```

```
jp, 0
```

```
ac.jp, 0
```

```
bar.jp, 2
```

```
baz.bar.jp, 2
```

```
pref.bar.jp, 1
```

```
bar.baz.com, 0
```

```
c, 2
```

```
b.c, 1
```

```
no, 0
```

```
priv.no, 4
```

```
private, 4
```

xn--fiqs8s, 0

%%

Found in path(s):

* /opt/cola/permits/1314879430_1670490931.8770304/0/effective-tld-names-1-tar-gz/effective_tld_names_unittest1.gperf

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Found in path(s):

* /opt/cola/permits/1314879430_1670490931.8770304/0/effective-tld-names-1-tar-gz/get_domain_and_registry_fuzzer.cc

1.39 safeclib 4.1.3

1.39.1 Available under license :

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Version 2.1, February 1999

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```
<one line to give the library's name and a brief idea of what it does.>  
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```

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Ty Coon, President of Vice

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1.40 libdouble-conversion 3.2.0

1.40.1 Available under license :

```
## JRuby Joni v2.1.16
```

```
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<pre>
```

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</pre>

```
## Double-conversion v1.1.5
```

```
### Double-conversion License
```

```
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```

<pre>

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1.41 libnsI 2.0.0

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Version 2.1, February 1999

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1.43 protobuf-c 1.2.1

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1.44 mtd-utils 2.1.4

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1.46 ductape 2.2.0

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1.47 libjpeg-turbo 2.1.4

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=====

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1.48 libtirpc 1.3.3

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1.49 linux-kernel 5.10.149

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

- * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
- * interrupts us (except possibly for removal/insertion of the cable?)
- * 10/4/97 - began heavy inline documentation of the code. Corrected typos
- * and spelling mistakes.
- * 10/5/97 - added code to handle PHY interrupts, disable PHY on
- * loss of link, and correctly re-enable PHY when link is
- * re-established. (put back CFG_PHYIE)
- *
- * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
- *
- * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- *
- * Linux driver for the IDT77201 NICStAR PCI ATM controller.
- * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- * see init_nicstar() for PHY initialization to change this. This driver
- * expects the Linux ATM stack to support scatter-gather
- lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *
- * Implementing minimal-copy of received data:
- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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*
* M. Welsh, 6 July 1996
*
*
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1.51 wolfssl 2.5.29

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trusted {

};

untrusted {

/* define OCALLs here. */

};

};

1.52 pcre 10.42

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1.53 ncurses 6.4

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-- vile: txtmode file-encoding=utf-8

1.54 systemd v247

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1.58 libmatthew 0.8.1

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1.59 java-utils 1.0.2

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1.61 libsepol 3.3

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.62 libusb-compat 0.1.8

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.63 free-type 2.13.1

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#
# All lines in this file are patterns (relative to the top-level directory),
# including the comment lines; this means that e.g. `FTL.TXT' matches all
# files that have this string in the file name (including the path relative
# to the current directory, always starting with `./').
#
# Don't put empty lines into this file!
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
```



```
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/ftzconf.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
EOF
```

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```
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1.64 direct-fb 1.7.7

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Any executables

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Comment:

flux is taken from <https://github.com/deniskropp/flux> and is used to generate some .cpp and .h files from .flux files.

Files: gfxdrivers/cle266/vidregs.h

gfxdrivers/radeon/r300_program.h

gfxdrivers/radeon/radeon_regs.h
gfxdrivers/unichrome/vidregs.h
gfxdrivers/unichrome/regs2d.h
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Files: gfxdrivers/omap/omapfb.h

interfaces/IDirectFBVideoProvider/xine-lib-1.2-vidpau-hooks.patch

interfaces/IFusionSoundMusicProvider/ifusionsoundmusicprovider_mad.c

gfxdrivers/sh772x/kernel-module/*

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Files: build-android/Android/*

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Files: gfxdrivers/nsc/include/gfx_regs.h

gfxdrivers/nsc/include/gfx_type.h

gfxdrivers/nsc/include/nsc_galproto.h

gfxdrivers/nsc/include/pnl_defs.h

gfxdrivers/nsc/nsc.c

gfxdrivers/nsc/nsc_galfns.c

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like this

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```
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```

```
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```

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```

```
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1.72 tcpdump 4.99.1

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```
# -*- perl -*-
```

```
$testlist = [
```

```
# This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
```

```
# which OpenBSD treats as DLT_LOOP. The macro is set on all three BSDs.
```

```
{
    config_unset => 'HAVE_NET_IF_PFLOG_H',
    name => 'heap-overflow-1',
    input => 'heap-overflow-1.pcap',
    output => 'heap-overflow-1.out',
    args => '-v'
},
];

1;
License: BSD
```

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1.73 c-ares 1.19.1

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1.74 tpm2-tss-tcti 4.0.1

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1.75 curl 7.86.0-DEV

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1.76 libpng 1.2.22rc1

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1.77 libcap 2.47

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e
```

```
calculate_md5_sum() {
  local FILE="$1"

  # Read the contents of the file into a variable
  local raw_license_text=$(<"$FILE")

  # Convert to lowercase
  local lowercase_license_text="{raw_license_text,}"

  # Remove anything before the beginning of the license
  local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

  # Replace line breaks (Windows or Linux) with a single space
  local replaced_linebreaks=$(tr "\r\n" ' ' <<< "$stripped_license_text")

  # Replace multiple spaces with a single space
```



```

local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

# Strip away any non-printable, non-whitespace characters
local clean_unprintable_license_text=$(tr
-cd '[:print:][:space:]' <<< "$normalized_license_text")

# Remove punctuation and special characters
local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

# Calculate the MD5 sum of the cleaned license text
local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

# Output the MD5 sum
echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
echo "Please provide a FILE as an argument."
exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
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1.79 busybox 1.36.0

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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Ty Coon, President of
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1.81 jre 11.0.12u12

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```
## zlib v1.2.11
```

```
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The Unicode Standard, Unicode Character Database, Version 10.0.0

Unicode Character Database

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here. Please keep the list sorted by first names.

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include/GL/gl.h :

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```
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include/GL/glxext.h
include/GL/wglxext.h :
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include/KHR/khrplatform.h :

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```
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mode:
```

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*/

```
/*  
*  
* This file is based on code from bdf.c,v 1.22 2000/03/16 20:08:50  
*  
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*  
*/
```

#####

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Little Color Management System (LCMS) v2.12

LCMS License

<pre>

Little Color Management System

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ASM Bytecode Manipulation Framework v6.0

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1.82 fribidi 1.0.10

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Any

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1.84 e2fsprogs 1.47.0

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
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-
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Upstream-Name: e2fsprogs

Upstream-Contact: Theodore Ts'o <tytso@mit.edu>

Source: <http://sourceforge.net/projects/e2fsprogs>

Comment:

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```

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```
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for details type `show w'.
```

```
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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<signature of Ty Coon>, 1 April 1989
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Theodore Ts'o
23-June-2007

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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
```

```
@echo " MKDIR pic"
```

```
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip:: install-shlibs
```

```
uninstall-shlibs uninstall::
```

```
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
```


\$(RM)

-rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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1.85 pam 1.3.1

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1.86 dnsmasq 2.89

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1.87 libwebp 1.3.2

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1.88 util-linux 2.37.4

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| NR | START | END | SECTORS | SIZE | NAME | UUID |
|----|-------|-------|---------|------|------|-------------|
| 1 | 32 | 7679 | 7648 | 3.7M | | 8f8378c0-01 |
| 2 | 7680 | 16383 | 8704 | 4.3M | | 8f8378c0-02 |
| 5 | 7936 | 12799 | 4864 | 2.4M | | |
| 6 | 12544 | 16127 | 3584 | 1.8M | | |

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e
```

```
calculate_md5_sum() {
  local FILE="$1"
```

```
# Read the contents of the file into a variable
```

```

local raw_license_text=$(<"$FILE")

# Convert to lowercase
local lowercase_license_text="{raw_license_text,}"

# Remove anything before the beginning of the license
local stripped_license_text=$(awk '/permission is hereby granted/{p=1} p' <<< "$lowercase_license_text")

# Replace line breaks (Windows or Linux) with a single space
local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

# Replace multiple spaces with a single space
local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

# Strip away any non-printable, non-whitespace characters
local clean_unprintable_license_text=$(tr
-cd '[:print:][:space:]' <<< "$normalized_license_text")

# Remove punctuation and special characters
local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

# Calculate the MD5 sum of the cleaned license text
local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

# Output the MD5 sum
echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
echo "Please provide a FILE as an argument."
exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1uE
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-

```


./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()*+,-

./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()*+,-

./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1

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```

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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-- Tom St Denis

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trusted {

};

untrusted {

/* define OCALLs here. */

};

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1.94 mongoose 3.0.1

1.95 zlib 1.2.13

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1.96 breakpad v2020

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.98 libcap-ng 0.8.4

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