

NAME

luaotfload-tool – generate and query the Luaotfload font names database

SYNOPSIS

luaotfload-tool [-bDfFiInpquvVhw]

luaotfload-tool **--update** [**--force**] [**--quiet**] [**--verbose**]
 [**--prefer-texmf**] [**--dry-run**] [**--formats=[+|-]EXTENSIONS**] [**--no-compress**]
 [**--no-strip**]

luaotfload-tool **--find=FONTNAME** [**--fuzzy**] [**--info**] [**--inspect**]
 [**--no-reload**]

luaotfload-tool **--flush-lookups**

luaotfload-tool **--cache=DIRECTIVE**

luaotfload-tool **--list=CRITERION[:VALUE]** [**--fields=F1,F2,...,Fn**]

luaotfload-tool **--help**

luaotfload-tool **--version**

luaotfload-tool **--show-blacklist**

luaotfload-tool **--diagnose=CHECK**

DESCRIPTION

luaotfload-tool accesses the font names database that is required by the *Luaotfload* package. There are two general modes: **update** and **query**.

- **update**: update the database or rebuild it entirely;
- **query**: resolve a font name or display close matches.

Note that if the script is named **mkluatexfontdb** it will behave like earlier versions (≤ 1.3) and always update the database first. Also, the verbosity level will be set to 2.

OPTIONS**update mode**

--update, -u

Update the database; indexes new fonts.

--force, -f

Force rebuilding of the database; re-indexes all fonts.

--no-reload, -n

Suppress auto-updates to the database (e.g. when **--find** is passed an unknown name).

--no-strip

Do not strip redundant information after building the database. Warning: this will inflate the index to about two to three times the normal size.

--no-compress, -c

Do not filter the plain text version of the font index through gzip. Useful for debugging if your editor is built without zlib.

--prefer-texmf, -p

Organize the file name database in a way so that it prefer fonts in the *TEXMF* tree over system fonts if they are installed in both.

--max-fonts=N

Process at most *N* font files, including fonts already indexed in the count.

--formats=EXTENSIONS

Extensions of the font files to index. Where *EXTENSIONS* is a comma-separated list of supported file extensions (otf, ttf, ttc, dfont, pfa, and pfb). If the list is prefixed with a + sign, the given list is added to the currently active one; - subtracts. Default: *otf,ttf,ttc,dfont*. Examples:

1. **--formats=-ttc,ttf** would skip TrueType fonts and font collections;
2. **--formats=otf** would scan only OpenType files;
3. **--formats+=pfb** includes binary Postscript files. **Warning:** with a standard TeX Live installation this will grow the database considerably and slow down font indexing.

--dry-run, -D

Don't load fonts, scan directories only. (For debugging file system related issues.)

query mode**--find=NAME**

Resolve a font name; this looks up <name> in the database and prints the file name it is mapped to. **--find** also understands request syntax, i.e. **--find=file:foo.otf** checks whether **foo.otf** is indexed.

--fuzzy, -F

Show approximate matches to the file name if the lookup was unsuccessful (requires **--find**).

--info, -i

Display basic information to a resolved font file (requires **--find**).

--inspect, -I

Display detailed information by loading the font and analyzing the font table; very slow! For the meaning of the returned fields see the LuaTeX documentation. (requires **--find**).

--warnings, -w

Print the warnings generated by the fontloader library (assumes **-I**). Automatically enabled if the verbosity level exceeds 2.

--show-blacklist, -b

Show blacklisted files (not directories).

--list=CRITERION

Show entries, where *CRITERION* is one of the following:

1. the character *, selecting all entries;
2. a field of a database entry, for instance *version* or *format**, according to which the output will be sorted. Information in an unstripped database (see the option **--no-strip** above) is nested: Subfields of a record can be addressed using the **->** separator, e. g. **file->location**, **style->units_per_em**, or **names->sanitized->english->prefmodifiers**. NB: shell syntax requires that arguments containing **->** be properly quoted!
3. an expression of the form **field:value** to limit the output to entries whose **field** matches **value**.

For example, in order to output file names and corresponding versions, sorted by the font format:

```
./luaotfload-tool.lua --list="format" --fields="file->base,version"
```

This prints:

```
otf latinmodern-math.otf  Version 1.958
otf lmromancaps10-oblique.otf 2.004
otf lmmono8-regular.otf 2.004
otf lmmonoproplt10-bold.otf 2.004
otf lmsans10-oblique.otf 2.004
otf lmromanslant8-regular.otf 2.004
otf lmroman12-italic.otf 2.004
otf lmsansdemicond10-oblique.otf 2.004
...
```

--fields=FIELDS

Comma-separated list of fields that should be printed. Information in an unstripped database (see the option **--no-strip** above) is nested: Subfields of a record can be addressed using the **->** separator, e. g. **file->location**, **style->units_per_em**, or **names->sanitized->english->subfamily**. The default is *plainname,version**. (Only meaningful with **--list**.)

font and lookup caches

--flush-lookups

Clear font name lookup cache (experimental).

--cache=DIRECTIVE

Cache control, where *DIRECTIVE* is one of the following:

1. **purge** **->** delete Lua files from cache;
2. **erase** **->** delete Lua and Luc files from cache;
3. **show** **->** print stats.

miscellaneous

--verbose=N, -v

Set verbosity level to *n* or the number of repetitions of **-v**.

--quiet

No verbose output (log level set to zero).

--log=CHANNEL

Redirect log output (for database troubleshooting), where *CHANNEL* can be

1. **stdout** -> all output will be dumped to the terminal; or
2. **file** -> write to a file to the temporary directory (the name will be chosen automatically (**experimental!**)).

--version, -V

Show version number and exit.

--help, -h

Show help message and exit.

--diagnose=CHECK

Run the diagnostic procedure *CHECK*. Available procedures are:

1. **files** -> check *Luaotfload* files for modifications;
2. **permissions** -> check permissions of cache directories and files;
- 3.

environment -> print relevant

environment and kpse variables;

4. **repository** -> check the git repository for new releases,
5. **index** -> check database, display information about it.

Procedures can be chained by concatenating with commas, e.g. **--diagnose=files,permissions**. Specify **thorough** to run all checks.

FILES

The font name database is usually located in the directory **texmf-var/luatex-cache/generic/names/** (**\$TEXMFCACHE** as set in **texmf.cnf**) of your *TeX Live* distribution as a zlib-compressed file **luaotfload-names.lua.gz**. The experimental lookup cache will be created as **luaotfload-lookup-cache.lua** in the same directory. These Lua tables are not used directly by *Luaotfload*, though. Instead, they are compiled to Lua bytecode which is written to corresponding files with the extension **.luc** in the same directory. When modifying the files by hand keep in mind that only if the bytecode files are missing will *Luaotfload* use the plain version instead. Both kinds of files are safe to delete, at the cost of regenerating them with the next run of *LuaTeX*.

SEE ALSO

luatex (1), **lua** (1)

- **texdoc luaotfload** to display the manual for the *Luaotfload* package
- *Luaotfload* development <https://github.com/lualatex/luaotfload>
- LuaLaTeX mailing list <http://tug.org/pipermail/lualatex-dev/>
- LuaTeX <http://luatex.org/>
- ConTeXt <http://wiki.contextgarden.net>

- Luaotfload on CTAN <http://ctan.org/pkg/luaotfload>

BUGS

Tons, probably.

AUTHORS

Luaotfload is maintained by the LuaLaTeX dev team (<https://github.com/lualatex/>). The font-loader code is provided by Hans Hagen of Pragma ADE, Hasselt NL (<http://pragma-ade.com/>).

This manual page was written by Philipp Gesang <philipp.gesang@alumni.uni-heidelberg.de>.

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