NAME

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

SYNOPSIS

luaotfload−tool [−bDfFiIlnpquvVhw]

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**
: Donât 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 info of components 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*>.

COPYRIGHT