NAME

l3build

SYNOPSIS

Usage l3build <target> [<options>] [<names>]

DESCRIPTION

The "l3build" module is designed to support the development of high-quality LaTeX code by providing:

* A unit testing system

* Automated typesetting of code sources

* A reliable packaging system for CTAN releases

The bundle consists of a Lua script to run the tasks and a ".tex" file which provides the testing environment. These were originally developed for supporting LaTeX development but are designed such that they can be readily used by others. Full documentation is provided.

COMMANDS

Valid targets are:
```
check       Runs all automated tests
clean       Cleans out directory tree
ctan        Creates CTAN-ready archive
doc         Typesets all documentation files
install     Installs files into the local texmf tree
manifest    Creates a manifest file
save        Saves test validation log
tag         Updates release tags in files
uninstall   Uninstalls files from the local texmf tree
unpack      Unpacks the source files into the build tree
upload      Sends archive to CTAN for public release
```

OPTIONS

Valid options are:
```
--config|-c    Sets the config(s) used for running tests
--date|-d      Sets the date to insert into sources
--debug        Runs target in debug mode
--dev          Use the development LaTeX format
--dirty        Skips cleaning up the test area
--dry-run      Dry run for install or upload
--email        Email address of CTAN uploader
--engine|-e    Sets the engine(s) to use for running test
--epoch        Sets the epoch for tests and typesetting
--file|-F      Takes the upload announcement from the given file
--first        Name of first test to run
```

```
--full             Installs all files
--halt-on-error|-H    Stops running tests after the first failure
--help|-h          Prints this message and exits
--last             Name of last test to run
--message|-m        Text for upload announcement message
--quiet|-q          Suppresses TeX output when unpacking
--rerun            Skips setup: simply reruns tests
--show-log-on-error    Shows the full log of the failure with 'halt-on-error'
--show-saves|-S       Shows the invocation to update failing .tlg files
--shuffle           Shuffles order of tests
--stdengine|-s       Run tests with the std engine (config dependent)
--texmfhome          Location of user texmf tree
--version           Prints version information and exits
```

SEE ALSO

Full manual available via 'texdoc l3build'.

Repository : https://github.com/latex3/l3build

Bug tracker : https://github.com/latex3/l3build/issues

AUTHORS

Copyright (C) 2014-2025 The LaTeX Project