

Papercheck

Version 0.4 (2022/11/15)

Papercheck is a Lua-based script that searches a \LaTeX file (tex) for typical errors.¹ It does not make any changes to the tex file; it just logs what it finds.

Papercheck is available at <https://github.com/ems-press/papercheck>.

For bug reports, comments and suggestions contact [Simon Winter](#).

1 Install Papercheck

1. Install Lua (version 5.1 or higher); see the Bibcheck manual.

2. Copy both Lua files into a Papercheck folder, e.g.

```
C:\tools\papercheck\{papercheck.lua, papercheckfunctions.lua}
```

The whole path must not contain any spaces!

2 How to use Papercheck

1. The main tex/aux file, the `\include` and `\input` tex/aux files², and the log file must all be in the same folder.

2. Open the command terminal, go to the directory of the tex file, and write

```
lua PATH\papercheck.lua MAINFILE.tex
```

e.g.

```
lua C:\tools\papercheck\papercheck.lua main.tex
```

The whole path must not contain any spaces!

3. The result of the analysis is displayed directly in the terminal.
4. Note that Papercheck just collects passages that *might* be wrong. If, for example, it is pointed out that both spellings “pull back” and “pullback” occur, this may well be correct (“If we pull back the bundle, we get a pullback bundle.”); however, it is worth examining the tex file for both spellings.
5. It is advisable to run Papercheck again after making changes to the tex file.

3 Use a bat file on Windows

Instead of using the command terminal, you can use a bat file:

1. Create, using any text editor, a file `papercheck.bat` containing the following four lines:

```
@echo off
chcp 65001
lua "C :...\papercheck.lua" %~f1
pause
```

Here `C :...\papercheck.lua` is the full path of `papercheck.lua`. Keep the quotation marks!

2. Create a desktop shortcut of that batch file.
3. Now drag and drop your tex file onto the desktop shortcut. Easy!

¹Comments (%), `\label`, `\ref`, `\eqref`, and `\cite` are excluded; the bibliography for most of the searches too.

²Papercheck can handle nested `\include`/`\input` structure, e.g. “`\input files`” that contain “`\input files`”.

4 Noteworthy

1. If you have `\usepackage{refcheck}` in your tex file, Papercheck will print all refcheck warnings.

5 Changelog

Version 0.3.3 (2022/10/19)

- Function searching for duplicate words fixed (M.duplicatewords).
- Search for ‘so[-]called’ fixed (M.hyphenatedsearch_standalone).
- Search for missing second ‘if’ in ‘if and only if’ fixed.
- Search for `\begin{aligned}`[removed.
- Search for ‘perform the’ removed.

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- The searches are now divided into four phases:
 1. Remove \LaTeX comments (%). First round of searches.
 2. Remove the complete bibliography, most label names (`\ref{euclidean}` \rightarrow `\ref{ _}`), and the names of most environments (`\begin{center}` \rightarrow `\begin{ _}`). Second round of searches.
 3. Remove most \LaTeX commands (`\euclidean` \rightarrow `_`). Third round of searches.
 4. Analyze log and aux files.