

Script runDoc

—

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Herbert Voß

hvoss@tug.org

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Thanks to:

1 Introduction

The Lua program runDoc parses an \LaTeX -document for lines starting with `%! HV`. The «HV» has no meaning, it should only be a significant marker for the command lines. Such lines can define commands which will be executed by runDoc. These lines must be at the beginning of the document. Only empty lines before will be ignored. runDoc will stop parsing for commands if a line without a preceding `%! HV` is found.

1.1 Syntax

The syntax is `runDoc [...] <file>` where [...] are optional arguments, either in short or long form which, of course, can be mixed:

```
runDoc [-h,--help] [-v,--verbose] [-V,--version] filename
```

Every executed command gets an own logfile `runDoc-?.log` in which the question mark is the number of the corresponding command lines in the document. This allows to locate any problem in the several external runs. With the option `-v` (verbose) a short logfile which lists more or less only the important steps from within the script is `runDoc.log`.

All \LaTeX commands are startet with the option

```
--interaction=nonstopmode
```

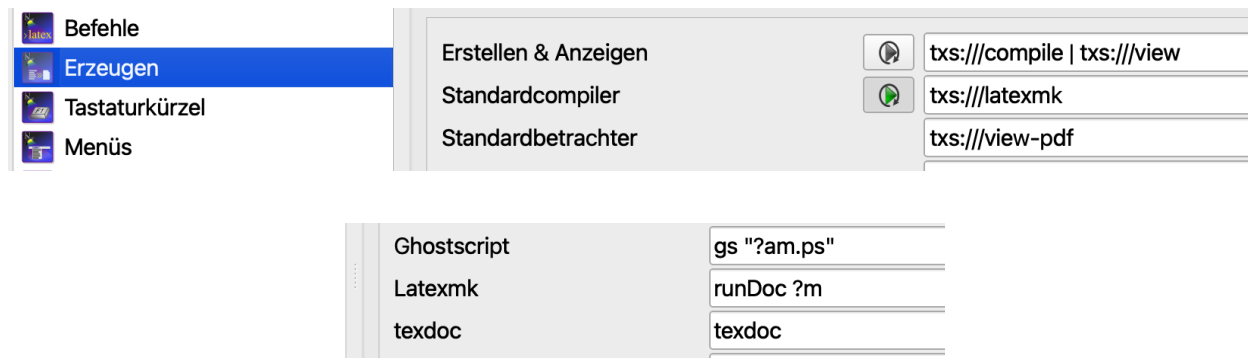
The supported \LaTeX -commands are

```
local commands = {"lualatex", "luatex", "luahbtex", "latex", "pdflatex",
                  "xelatex", "xetex" }
```

This is not really of interest, because it is only needed for the decision to use the option `--interaction=nonstopmode` or not. The optional filename `<file>` must always be used if the current command expects another filename (see example for multiple index files).

1.2 T \TeX studio

For T \TeX studio use as compiler `latexmk` and simply replace the name by `runDoc`:



2 examples

2.1 This document

The header looks like

Command lines for this document

```
%! HV lualatex
%! HV biber
%! HV lualatex
%! HV lualatex

%% .11402025 07 1810 39 09
%
\listfiles\setcounter{errorcontextlines}{100}
\documentclass[paper=a4,fontsize=11pt,DIV=14,parskip=half-,
               captions=tableabove,twoside=on]{scrartcl}
\usepackage{fontspec}
[...]
```

In this case no extra filename is needed, running `runDoc runDoc-doc` is sufficient. More complex is the header of example test2:

2.2 Document test

This document uses package `imakeidx` which itself runs the index commands.

Example test

```
%! HV lualatex --shell-escape
%! HV biber <test.aux>
%! HV lualatex --shell-escape
%! HV lualatex --shell-escape

%% The index files are run by imakeidx
[...]
```

The filename for `biber` is not really needed, because it also works with the main filename.

2.3 Document test2

A more complex example:

Example test2

```
%! HV lualatex --shell-escape
%! HV biber
%! HV lualatex --shell-escape
%! HV xindex
%! HV xindex --config DIN2 -l DE -o test2.vwd <test2.vwx>
%! HV xindex --config DIN2 -l DE -o test2.dbd <test2.dbx>
%! HV lualatex --shell-escape
%! HV lualatex --shell-escape
```

There is an optional argument for `lualatex` and options with another filename for two of the three `xindex` runs.