

NAME

WebQuiz: a LaTeX package for writing online quizzes –

WebQuiz makes it possible to use *LaTeX* to write interactive online quizzes. The quizzes are first written in *LaTeX* and then converted into HTML using *WebQuiz*, which is written in python. The conversion from *LaTeX* to HTML is done behind the scenes using *Tex4ht*. The idea is that you should be able to produce nice online quizzes using *WebQuiz* and basic knowledge of *LaTeX*.

WebQuiz is designed to be used from the command-line. For example, if *quiz1.tex* is a LaTeX file for a quiz then:

```
latex quiz1
produces a "readable" DVI file for the quiz

pdflatex quiz1
produces a "readable" PDF file for the quiz

webquiz quiz1
creates the web page quiz1.html
```

If you prefer to use *LaTeX* from a GUI for *LaTeX* then it should be possible to configure it to use *WebQuiz* directly. As an example, the manual provides some details about how to do this for TeXShop.

USAGE

```
usage: webquiz [-h] [-q] [-d] [-s] [--latex | -l | -x] [-r RCFILE]
               [-i | -e | --settings [SETTINGS]] [quiz_file [quiz_file ...]]
```

A LaTeX package for writing online quizzes

positional arguments:

quiz_file latex quiz files

optional arguments:

-h, --help	show this help message and exit
-q, --quiet	Suppress tex4ht messages (also -qq etc)
-d, --draft	Use make4ht draft mode
-s, --shell-escape	Shell escape for tex4ht/make4ht
--latex	Use latex to compile document with make4ht (default)
-l, --lua	Use lualatex to compile the quiz
-x, --xelatex	Use xelatex to compile the quiz

-r RCFILE, --rcfile RCFILE
 Specify location of the webquiz rc–file

-i, --initialise, --initialize
 Install web components of webquiz

-e, --edit-settings
 Edit default settings for webquiz

--settings <SETTINGS>
 List default settings for webquiz

INSTALLATION

To use *WebQuiz* you need to have a standard *LaTeX* distribution installed, such as *TeXLive*, that includes *TeX4ht*. In addition, you need to have *Python3* installed. As *WebQuiz* uses scalable vector graphics (SVG) you should check that all of the dependencies of *dvisvgm* are installed on your system, especially if you plan on using graphics or images.

Once the TeX components of *WebQuiz* package have been installed you can install the web components of *WebQuiz* using the following command, which needs to be run from the command line:

```
> webquiz --initialise
```

If you want to install the web components of *WebQuiz* into a system directory then you need to run this command from an administrators account, so using *sudo* on a unix–like system. For more details about the installation and configuration of *WebQuiz* please see Section 3.2 of the *WebQuiz* manual.

Please see the manual for more details about initialising and using *WebQuiz*.

INSTALLATION FROM THE CTAN ZIPFILE

On both unix–like systems (including macosx), and windows systems (using either *TeXLive* or *MiKTeX*), you can install *WebQuiz* by downloading the *WebQuiz* zip file from:

<http://mirrors.ctan.org/macros/latex/contrib/webquiz.zip>

To install the package, unzip this file and change directory to the *webquiz/scripts* subdirectory run:

```
> webquiz --tex-install
```

(or *webquiz.bat* --text–install on windows). This commands unpacks the *webquiz* files into their standard locations in the TeX install tree to it should be run from an administrators account, or using *sudo* on a unix–like system. Roughly what this command does is the following:

- It creates a symbolic link, or equivalent, to the main *WebQuiz* executable, which is the file *webquiz.py* in the *scripts* directory
- Copies the *latex* directory to somewhere in the TeX search path and then runs *mktexlsr* so that *LaTeX* and *WebQuiz* can find these files.
- Copies the python code into the TeX *scripts* subdirectory

- Copies the WebQuiz doc subdirectory into the TeX doc/latex subdirectory.

If you are using MiKTeX you may need to open the MiKTeX console, go to the Tasks menu and then rebuild the TeX filename database.

Once the files above are in place initialise WebQuiz by following the installation instructions above.

Mainly for development purposes, there is another undocumented command-line option for removing these files from TEXMFMAIN:

```
> sudo webquiz/scripts/webquiz --tex-uninstall
```

SYSTEM REQUIREMENTS

In order to work WebQuiz needs the following programs to be installed on your system:

- An up-to-date *LaTeX* distribution, such as that provided by *TeXLive*. In particular, you need to have *TeX4ht* and *make4ht* installed. Unfortunately, since *TeXLive* 2018 was released there have been a significant number of updates to a number of packages that *WebQuiz* uses, including updates to *TeX4ht*, *make4ht*, *tikz* and *pstricks*. For this reason, *it is strongly recommended that you all packages from ctan_ before using WebQuiz_*.
- *python3* As of writing python 3.7.2 is available.
- *Javascript*
- If you plan to use *pstricks* with *WebQuiz*, or if you want to compile the online manual for *WebQuiz*, then you need to ensure that *ghostscript* and *dvisvgm* are installed and properly configured on your system. See the *WebQuiz* manual and the *dvisvgm* documentation for more details
- A web server. To view online quizzes you of course need a web server. As described in the **Installation** section you will also need to copy of the *WebQuiz* components onto your web server using the command:

```
> webquiz --initialise
```

AUTHORS

The *LaTeX* component of *WebQuiz* was written by Andrew Mathas and the python, css and javascript code was written by Andrew Mathas (and Don Taylor), based on an initial prototype of Don Taylor's from 2001. Since 2004 the program has been maintained and developed by Andrew Mathas. Although the program has changed substantially since 2004 Don's idea of using *TeX4ht*, and some of his code, is still very much in use.

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