# A MuseWiki

# Offline tools

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**amusewiki.org**

# Contents

Amusewiki stores its files in a plain text lightweight format called Emacs Muse (actually a dialect of it) and described in depth in the manual. Such files are always listed in the infobox with the downloads and are labelled as "plain text source" and have a `.muse` extension. The same file is also bundled in the `.zip`, which also gives you the eventual attachments.

The format is not couple with the web application, and you can produce PDF, EPUB, HTML files from Muse files locally.

# Installation

The tools are written in Perl. Every GNU/Linux operating system comes with Perl installed. They are supposed to work on Mac and Windows too, but you have to find your way to get Perl installed (together with a way to install modules from CPAN, the repository of Perl code, usually the program called `App::cpanminus`, which is invoked with the command `cpanm`).

Also, if you want (and you probably want) to produce PDF, you need the installation of a recent TeX Live distribution.

## Debian and Ubuntu

The parser, the compiler and the preprocessor are packaged for Debian. So you could do:

```
# add the key
wget -O - https://packages.amusewiki.org/amusewiki.gpg.key | apt-
# add a source list entry
echo 'deb http://packages.amusewiki.org/debian jessie main' > /e
# install the tools
apt-get install libtext-amuse-perl libtext-amuse-preprocessor-pe
```

TeX Live will be pulled in as dependency.

## Manually

Install TeX Live following the instructions in the TeX Live homepage.
Install the Perl modules from CPAN:

```
cpanm Text::Amuse::Compile Text::Amuse::Preprocessor
```

# Usage

One way or another, you should have the executable files `muse-compile.pl` and `muse-preprocessor.pl` installed.

```
which muse-preprocessor.pl
# /usr/bin/muse-preprocessor.pl
which muse-compile.pl
# /usr/bin/muse-compile.pl
```

Typical usage:

```
# download the manual to use as sample. Please note the .zip
# extension, so we get the attachments as well.
wget https://amusewiki.org/library/manual.zip
unzip manual.zip
cd manual
muse-compile.pl --help --verbose
muse-compile.pl --html --epub --pdf manual.muse
```

This command will produce HTML, EPUB and PDF files.

See `muse-compile.pl --help --verbose` for the full list.

The preprocessor is used if you need to cleanup your document. It has the same options present in the editing amusewiki page.

```
muse-preprocessor.pl --help
muse-preprocessor.pl --inplace --show-nbsp --typography \
                     --links --footnotes manual.muse
```

See also Working with footnotes for an in-depth explanation of the `--footnotes` switch.

The preprocessor can also convert HTML pages to muse.

```
html-to-muse.pl https://packages.amusewiki.org/
```

See also Pandoc for the same functionality. Additionally, with Pandoc you can import/export Muse files from and to a very wide range of formats.