Publishing with Amusewiki

Oslo, Nordic Perl Workshop 2018

Marco Pessotto (melmothX)

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About me: Marco Pessotto

PAUSE id `MELMOTHX`

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E-mail `melmothx@gmail.com`

Homepage `https://amusewiki.org`

IRC channel `irc://irc.libera.chat/#amusewiki`

GitHub `https://github.com/melmothx`

Background Humanities (history and translations)

Main features

Flat file storage, under Git

Each text is stored in a single, self-contained, text file

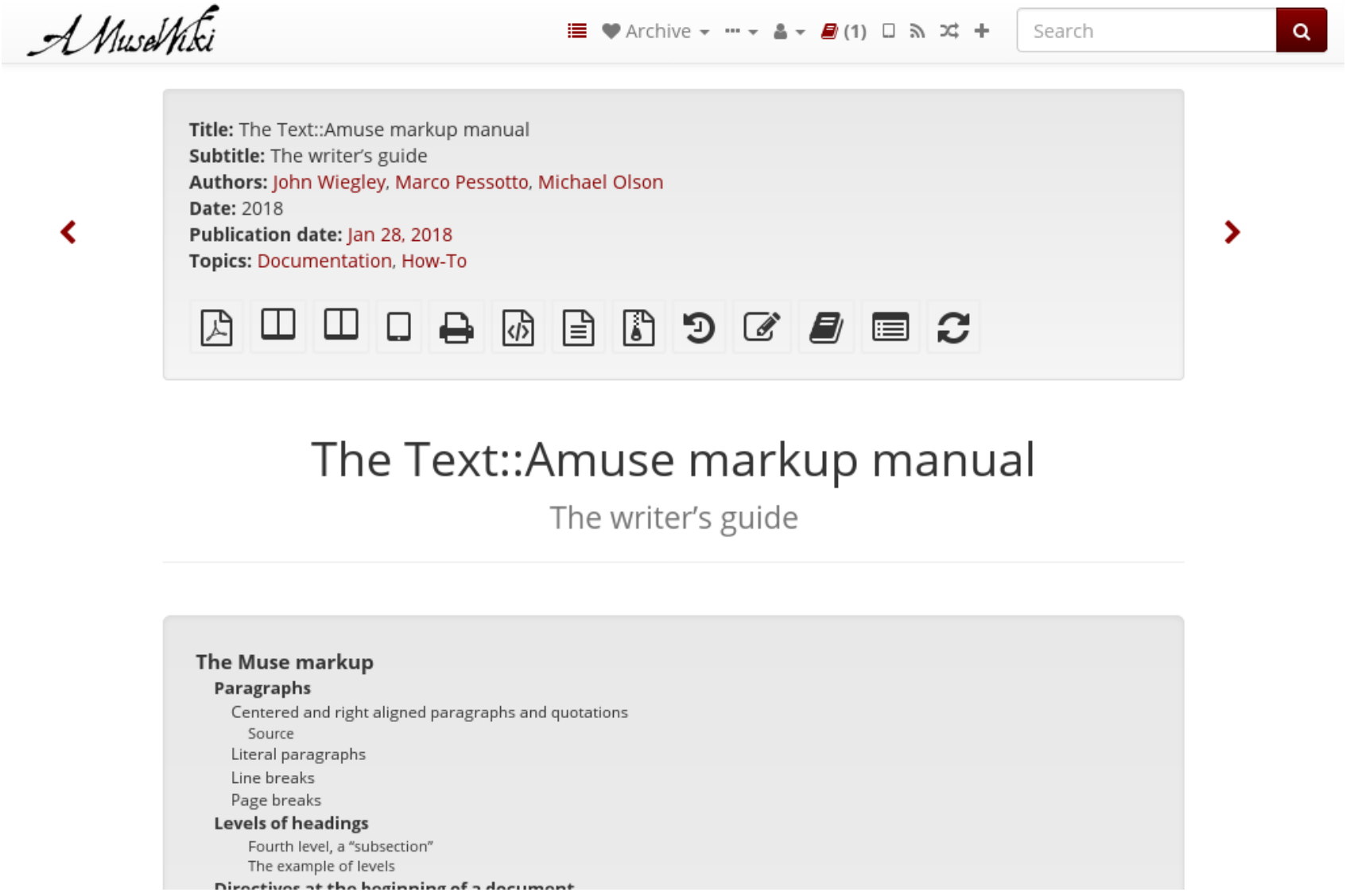
Rich range of output formats (PDF, Epub, HTML)

Don't lock the users in: high decoupling (single text / archive / application)

A comprehensive test suite

Packaged for Debian: `http://packages.amusewiki.org`

Sample page


Archive
(1)
Search
Title: The Text::Amuse markup manual
Subtitle: The writer's guide
Authors: John Wiegley, Marco Pessotto, Michael Olson
Date: 2018
Publication date: Jan 28, 2018
Topics: Documentation, How-To
The Text::Amuse markup manual
The writer's guide
The Muse markup
Paragraphs
Centered and right aligned paragraphs and quotations
Source
Literal paragraphs
Line breaks
Page breaks
Levels of headings
Fourth level, a "subsection"
The example of levels

Sample imposed PDF (more schemas available)

Normal text.

- Level 1, bullet item one
  1. Level 2, enum item one
  2. Level 2, enum item two
- Level 1, bullet item two
  1. Level 2, enum item one
  2. Level 2, enum item two
     i. Level 3, enum item i
     ii. Level 3, enum item ii
  3. Level 2, enum item three
- Back to Level 1, third bullet
  a. Level 2, enum item “a”
  b. Level 2, enum item “b”
     I. Level 3, enum item “I”

     One term description

     Another term description
- Back to the bullets

Breaking list items

If you want to break up a line within any list type, just put one blank line between the end of the previous line and the beginning of the next line, using the same amount of initial indentation.

Keep in mind that if you put random indentation you’ll get random and probably unexpected results (but it should not crash — if it does, please contact me).

Also, you can be lazy with numbered list. The parser actually doesn’t care if you number them properly, or just do something like that.

```
1. first
```


Named anchors

If you start a line (regardless of the indentation) with a word prefixed by an hash, e.g. `#anchor` – where `anchor` can be any (ASCII) word that starts with a letter and contains only ASCII letters, digits and dashes – it defines an anchor at that point into the document. This point can be referenced using “#anchor” as the target in a Muse link.

If you need to start a line with an hash, wrap it in `<verbatim>` E.g.

```
<verbatim>#hashtag</verbatim> verbatim.
=#hashtag= verbatim as code.
```

Yielding:

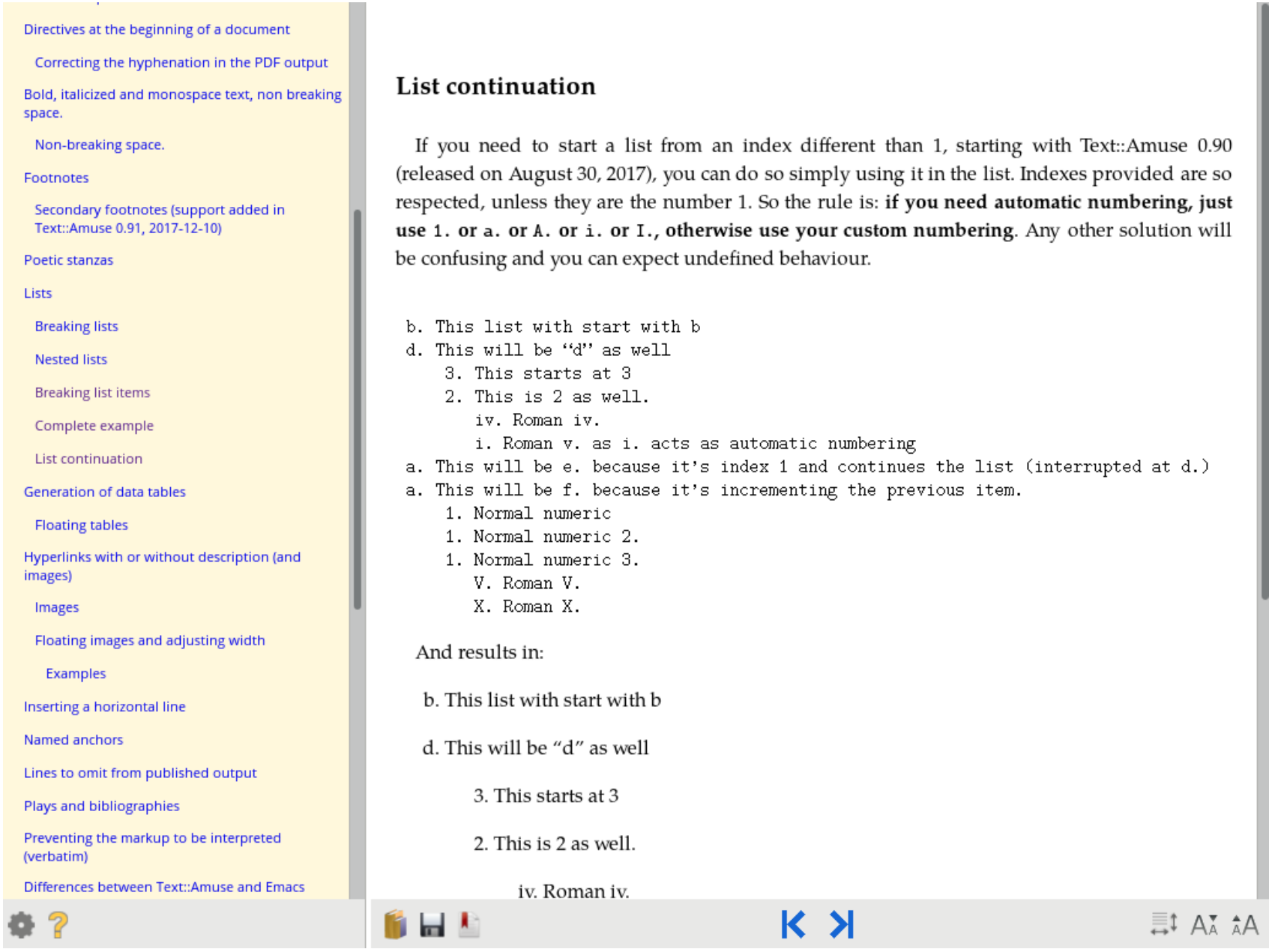
#hashtag verbatim. `#hashtag` verbatim as code.

The support for this feature was introduced in Text::Amuse version 0.70 and improved in 0.82. Compatibility with Emacs Muse was restored in version 1.10, released on April 23, 2018, allowing text material on the same line of the anchor.

Example:

```
#title My text

#badanchor
This is not an anchor, it's part of the header with a dummy name.

<br>

#begin
This will work.

#an-anchor At the beginning of the line.

<verbatim>#hashtag</verbatim> verbatim.
```

Sample EPUB (on Firefox, Epubreader plugin)

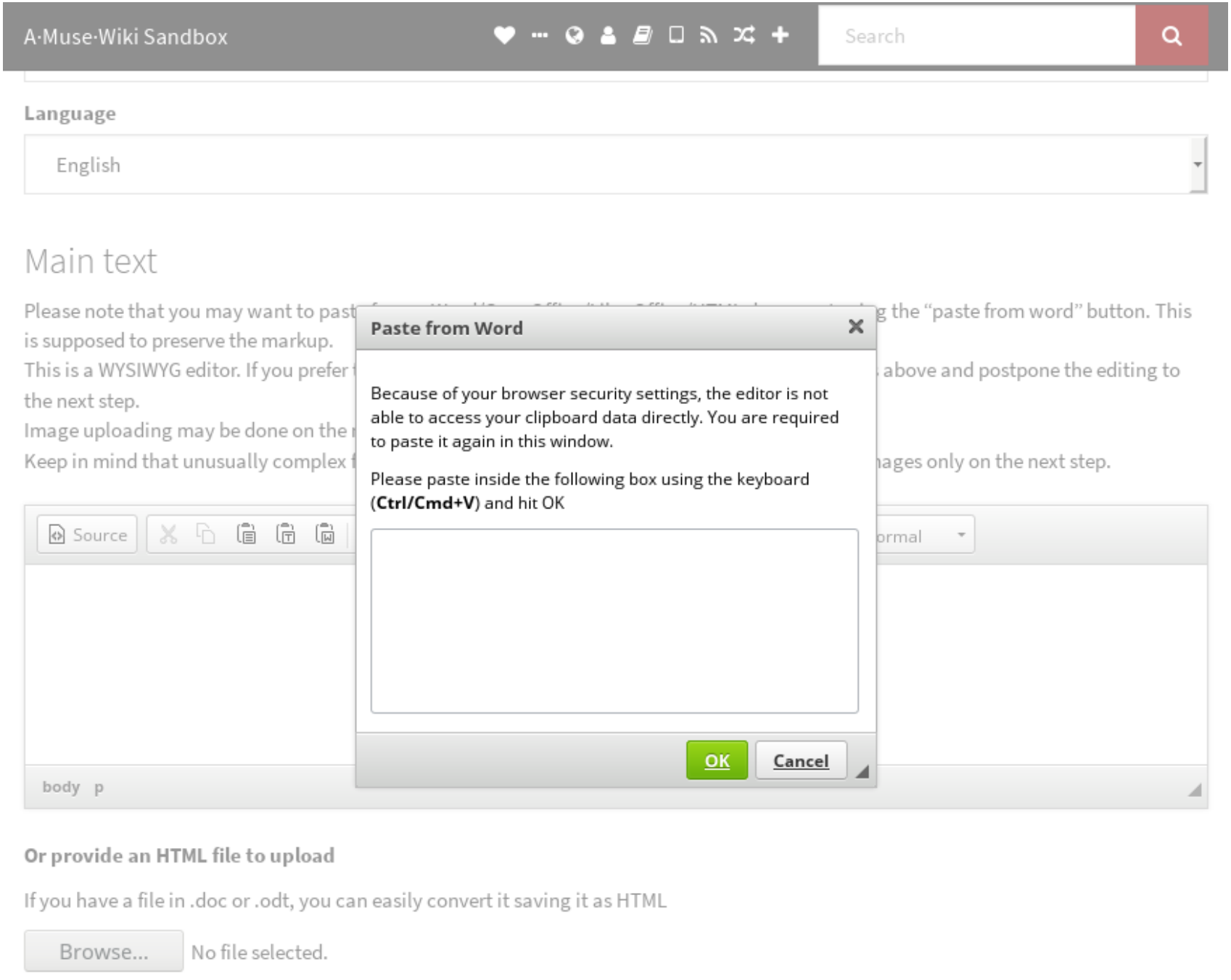


Sample Slides

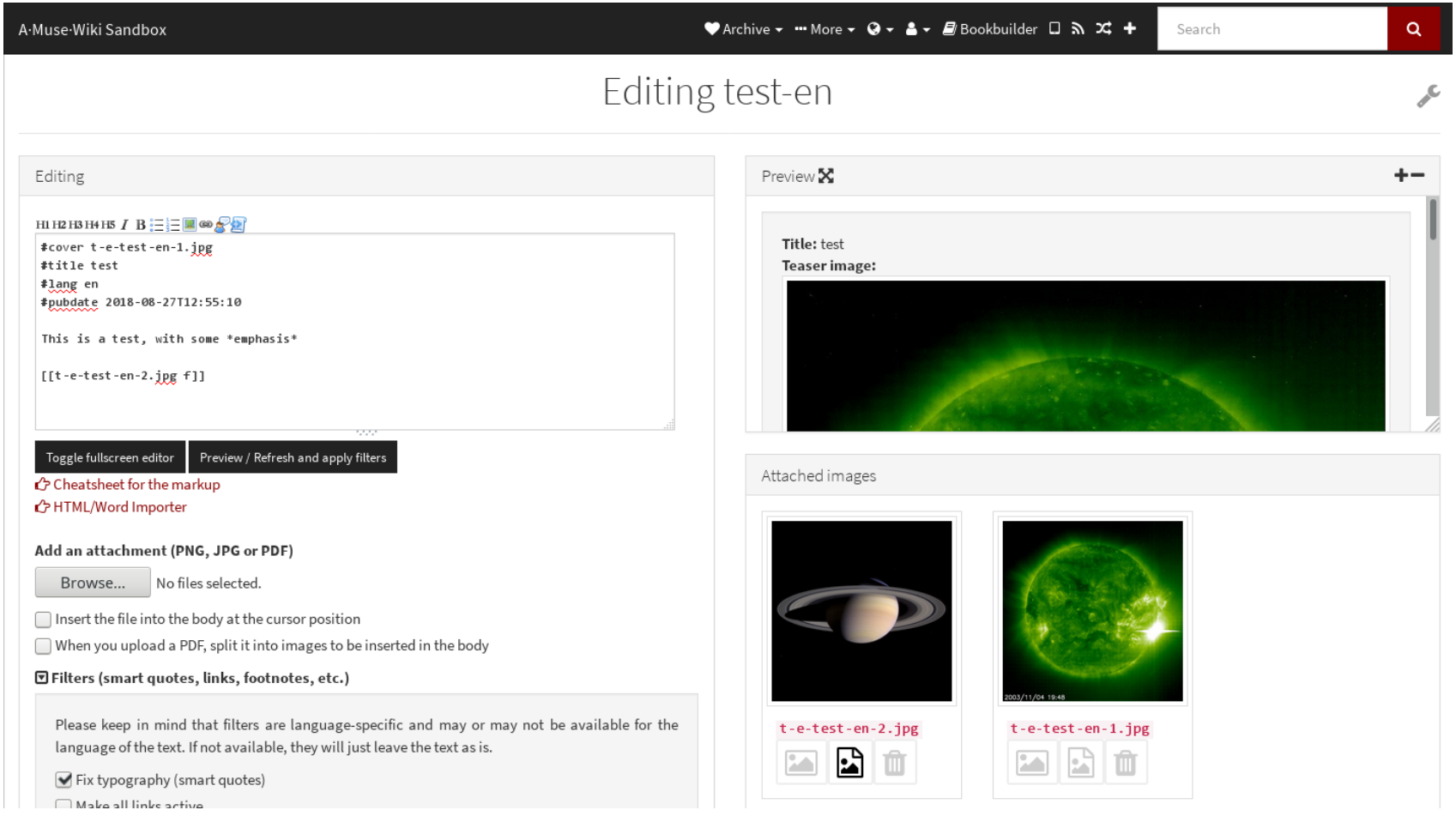
Amusewiki can be used to produce slides as well

You are looking at them :-)

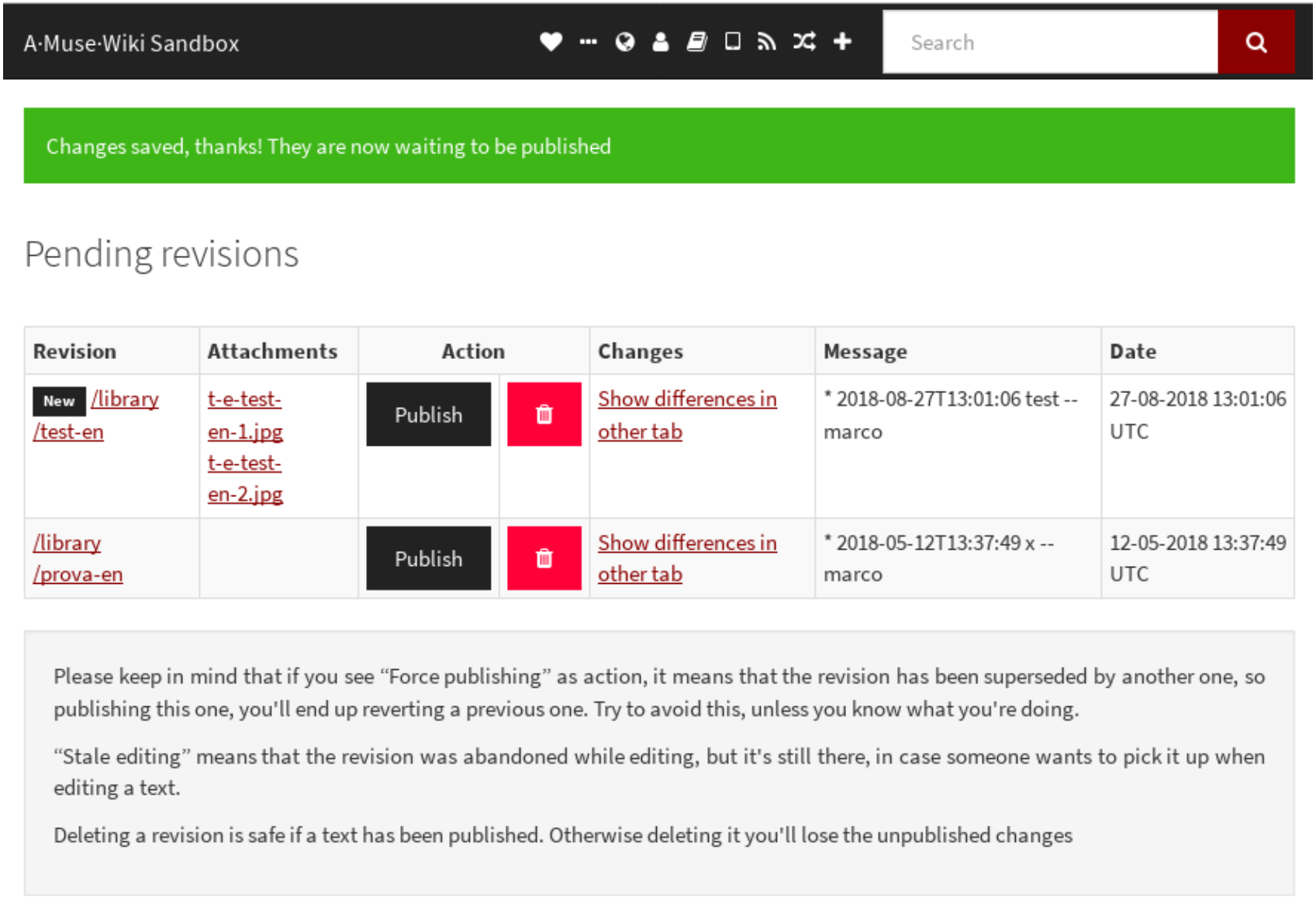
Upload a text (with an HTML importer)



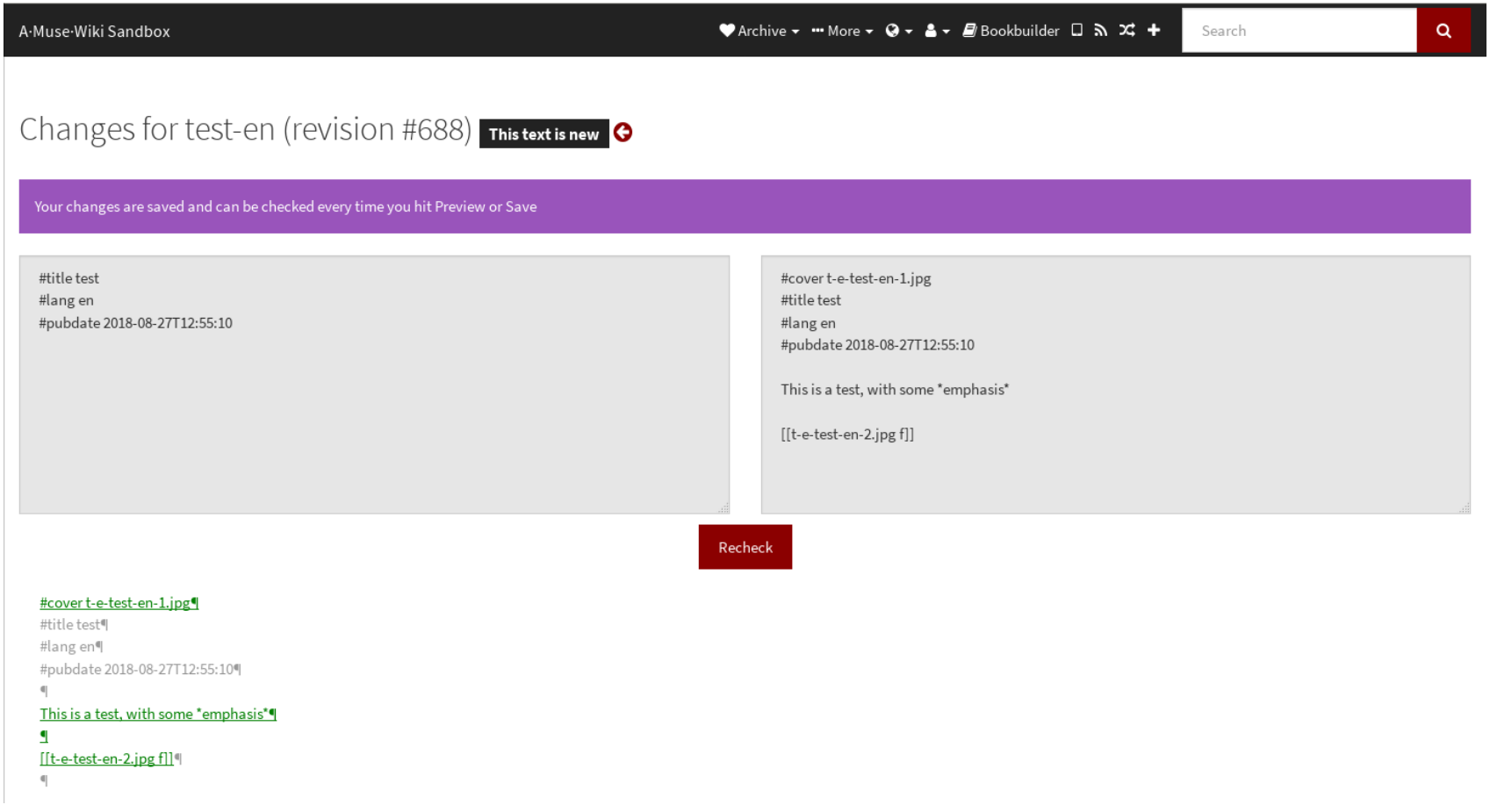
Editing


A·Muse·Wiki Sandbox
Archive
More
Bookbuilder
Search
Editing test-en
Editing
#cover t-e-test-en-1.jpg
#title test
#lang en
#pubdate 2018-08-27T12:55:10
This is a test, with some *emphasis*
[[t-e-test-en-2.jpg f]]
Toggle fullscreen editor
Preview / Refresh and apply filters
Cheatsheet for the markup
HTML/Word Importer
Add an attachment (PNG, JPG or PDF)
Browse...
No files selected.
Insert the file into the body at the cursor position
When you upload a PDF, split it into images to be inserted in the body
Filters (smart quotes, links, footnotes, etc.)
Please keep in mind that filters are language-specific and may or may not be available for the language of the text. If not available, they will just leave the text as is.
Fix typography (smart quotes)
Preview
Title: test
Teaser image:
Attached images
t-e-test-en-2.jpg
t-e-test-en-1.jpg

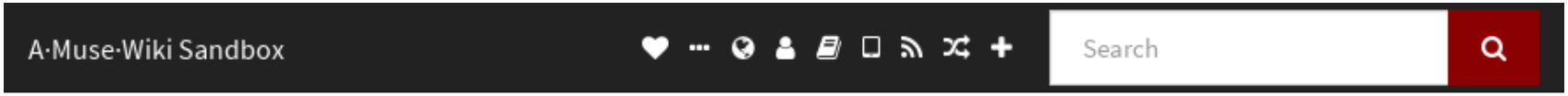
Ready to publish?



Checking


A·Muse·Wiki Sandbox
Archive
More
Bookbuilder
Search
Changes for test-en (revision #688)
This text is new
Your changes are saved and can be checked every time you hit Preview or Save
#title test
#lang en
#pubdate 2018-08-27T12:55:10
#cover t-e-test-en-1.jpg
#title test
#lang en
#pubdate 2018-08-27T12:55:10
This is a test, with some *emphasis*
[[t-e-test-en-2.jpg f]]
Recheck
#cover t-e-test-en-1.jpg¶
#title test¶
#lang en¶
#pubdate 2018-08-27T12:55:10¶
¶
This is a test, with some *emphasis*¶
¶
[[t-e-test-en-2.jpg f]]¶
¶

Publish (tailing a background daemon)



Status: completed

Changes applied

```
Job publish started at Mon Aug 27 15:03:11 2018
Inserting data for attachment ./repo/sandbox/t/te/t-e-test-en-2.jpg and generating thumbnails
Inserting data for attachment ./repo/sandbox/t/te/t-e-test-en-1.jpg and generating thumbnails
Working on test-en.muse file in ./repo/sandbox/t/te
* Created test-en.bare.html
* Created test-en.html
* Created test-en.epub
* Created test-en.tex
* Created test-en.zip
Inserting data for ./repo/sandbox/t/te/test-en.muse
Changing test-en status from editing to published
Updating test-en in Xapian db
Scheduled generation of /library/test-en.a4.pdf (A4 imposed PDF) as task number #149952
Scheduled generation of /library/test-en.lt.pdf (Letter imposed PDF) as task number #149953
Scheduled generation of /library/test-en.pdf (plain PDF) as task number #149954
Updating title and category sorting
Updated 14 records in 0 seconds
Scheduled static indexes generation
Job publish finished at Mon Aug 27 15:03:12 2018
```

Changes applied

Static page without javascript

Done

A·Muse·Wiki Sandbox

Search

A·Muse·Wiki Sandbox

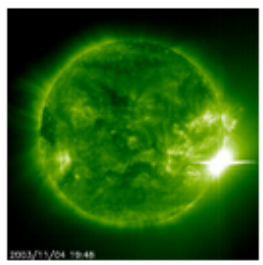
This is a sandbox and is meant to show the feature of this wiki engine.

You are free to try to edit, upload and publish texts. >>

Latest entries

test [en]

This is a sample text.



Aug 27, 2018

Read the whole text...

Source sample

Borrowed from Emacs Muse
`https://www.gnu.org/software/emacs-muse/index.html`
Supported (read/write) by Pandoc `https://pandoc.org/`

```
#title My title
#author John Doe
#lang en

** Chapter one

And **here** the *text* starts

 1. Foo
 2. Bar
```

Modules and offline tools

`Text::Amuse` The parser

`Text::Amuse::Preprocessor` Typographical filters (`muse-preprocessor.pl`) and HTML importer (`html-to-muse.pl`)

`Text::Amuse::Compiler` The compiler (`muse-compile.pl`)

`PDF::Imposition` The PDF imposer (`pdf-imposer.pl`)

`PDF::Cropmarks` Add cropmarks to the PDF (`pdf-cropmarks.pl`)

Web Frontend

Framework Catalyst

Layout Bootstrap

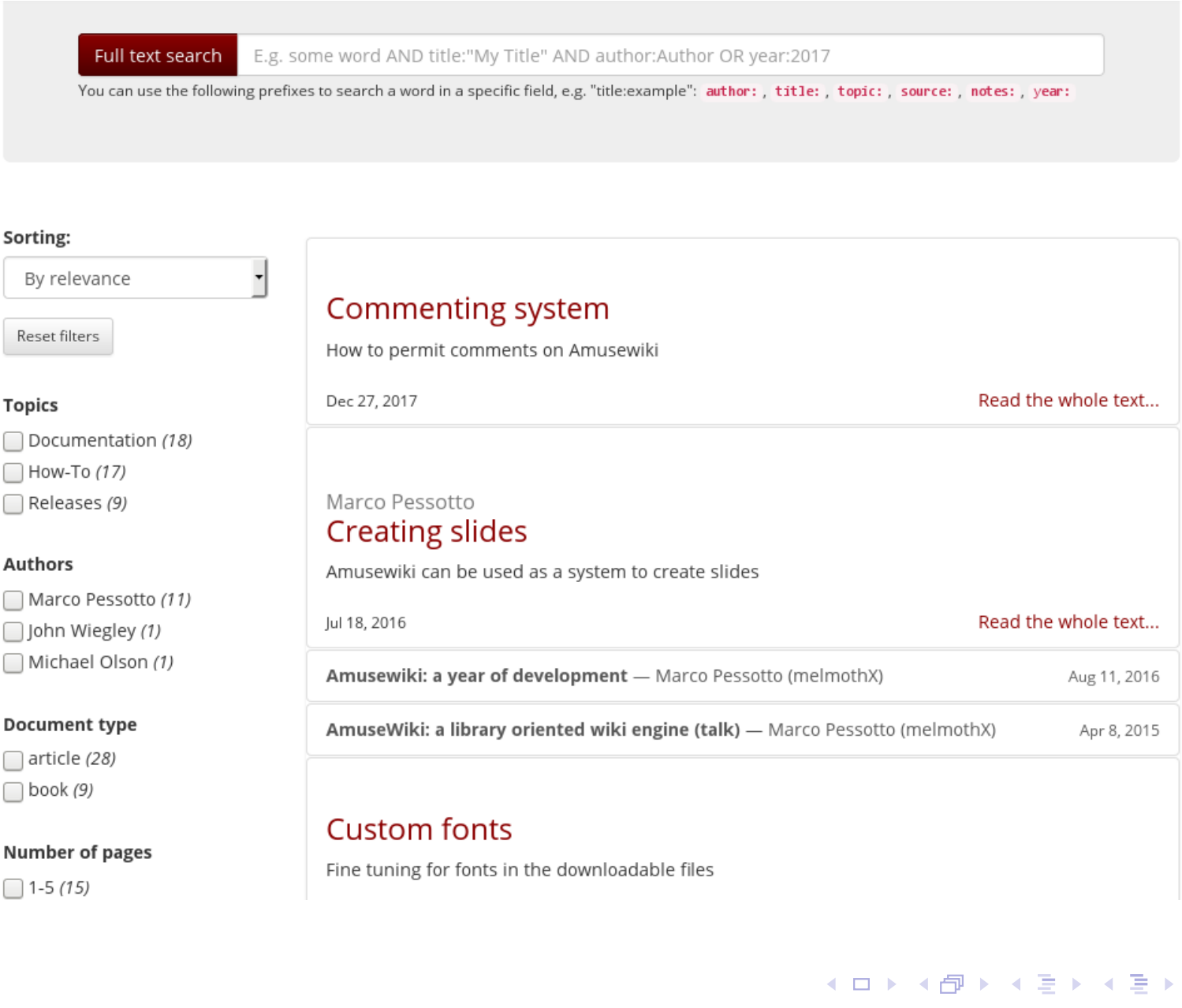
Multisite on one instance you can run as many sites you want

Database `DBIx::Class` (SQLite, MySQL, PostgreSQL) and `DBIx::Class::DeploymentHandler` for automatic upgrades

Templating Template Toolkit

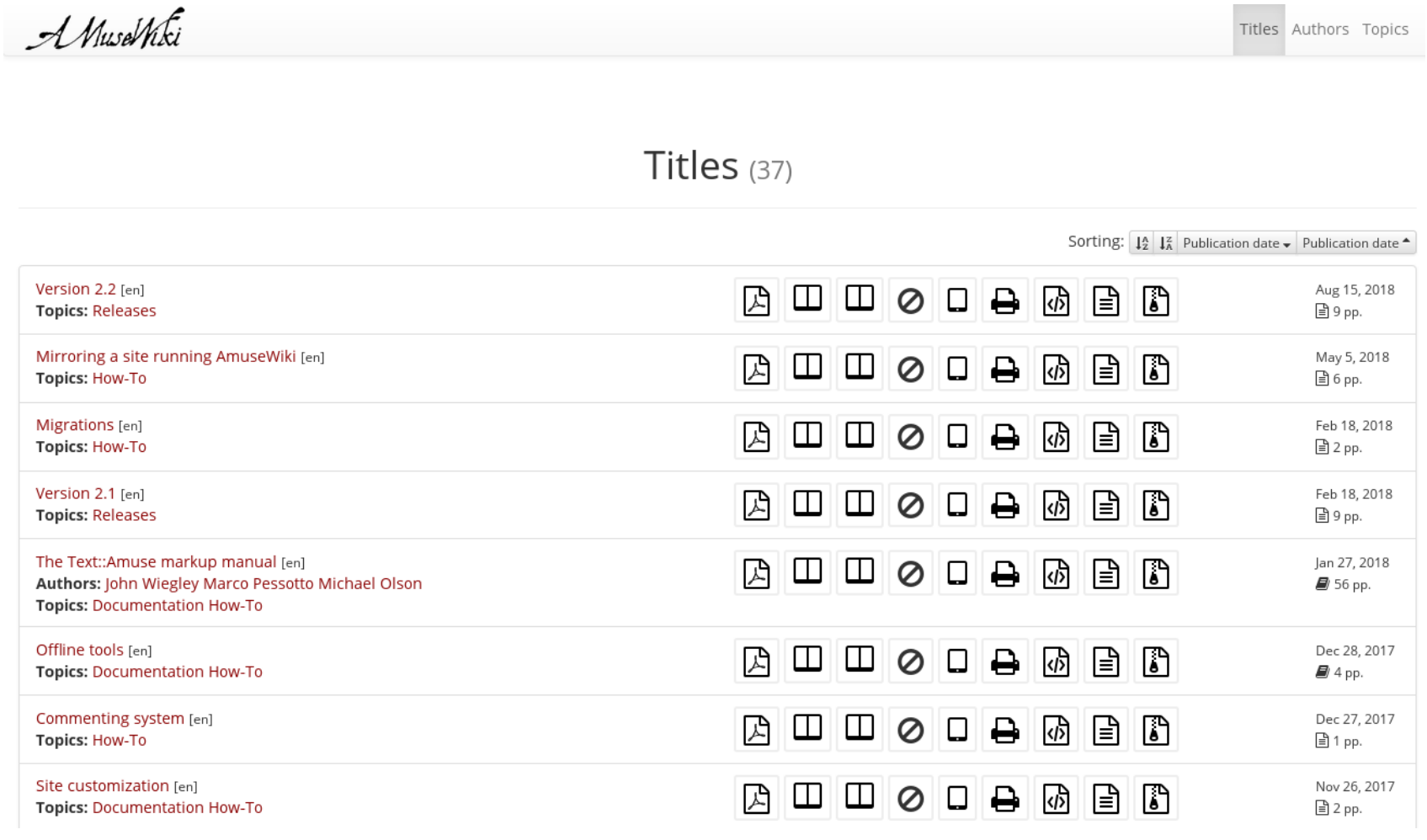
Localization Danish, German, English, Spanish, Finnish, French, Serbo-Croatian, Italian, Macedonian, Dutch, Russian, Albanian, Swedish

Powerful and fast faceted search, powered by Xapian

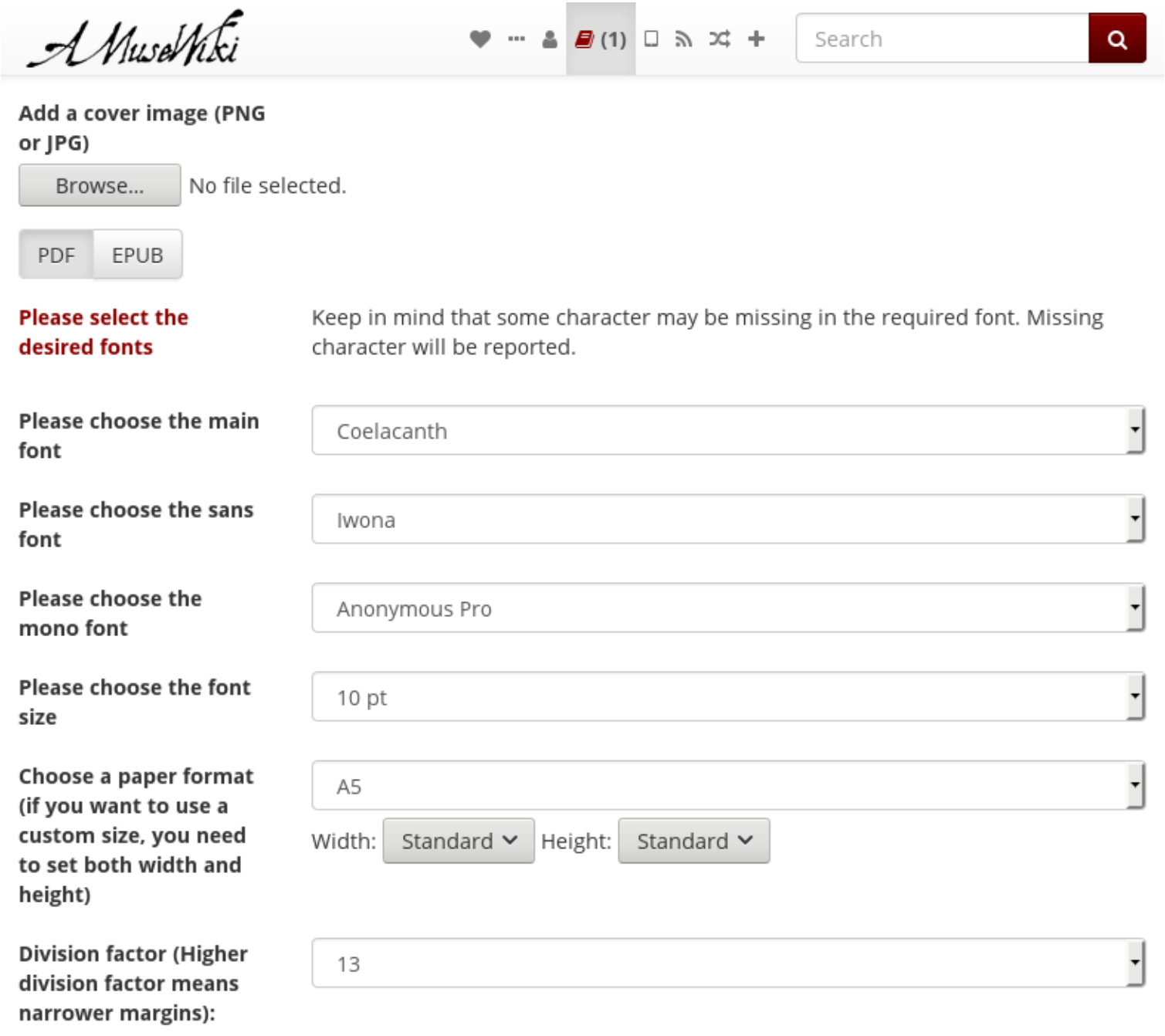


Static but functional mirror

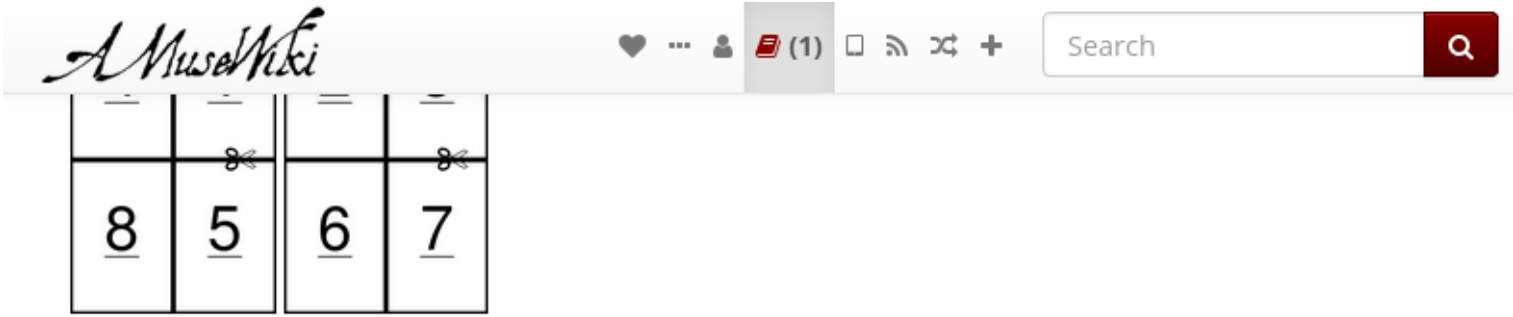
```
wget -q -O - https://amusewiki.org/mirror.txt | \
     wget -x -N -q -i -
```



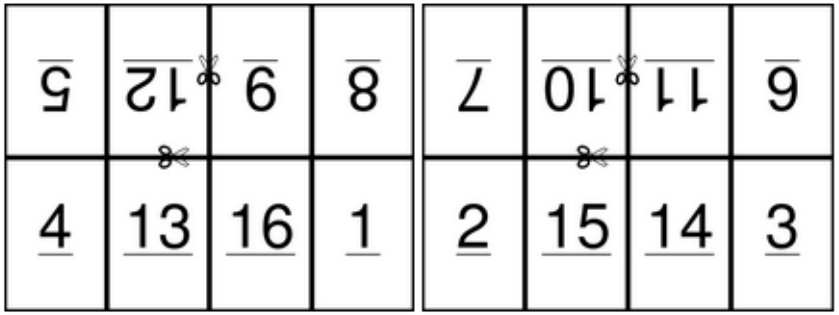
Bookbuilder



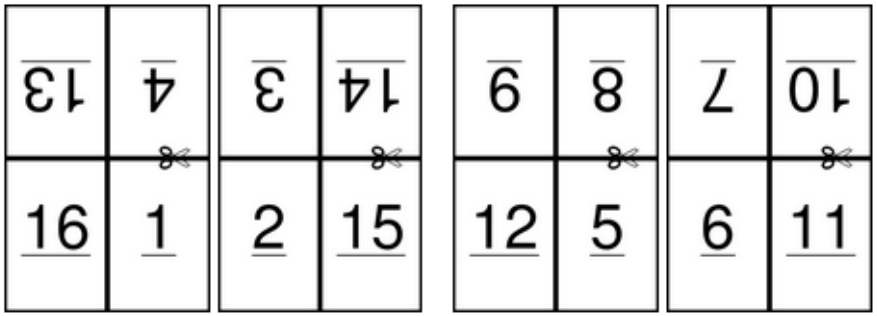
Imposer



1x8x2: Fixed 16 pages signatures on a single sheet, with triple folding. See here for more details.



EA-4x4: Fixed 16 pages signatures on 2 sheets, with double individual folding. See here for more details.



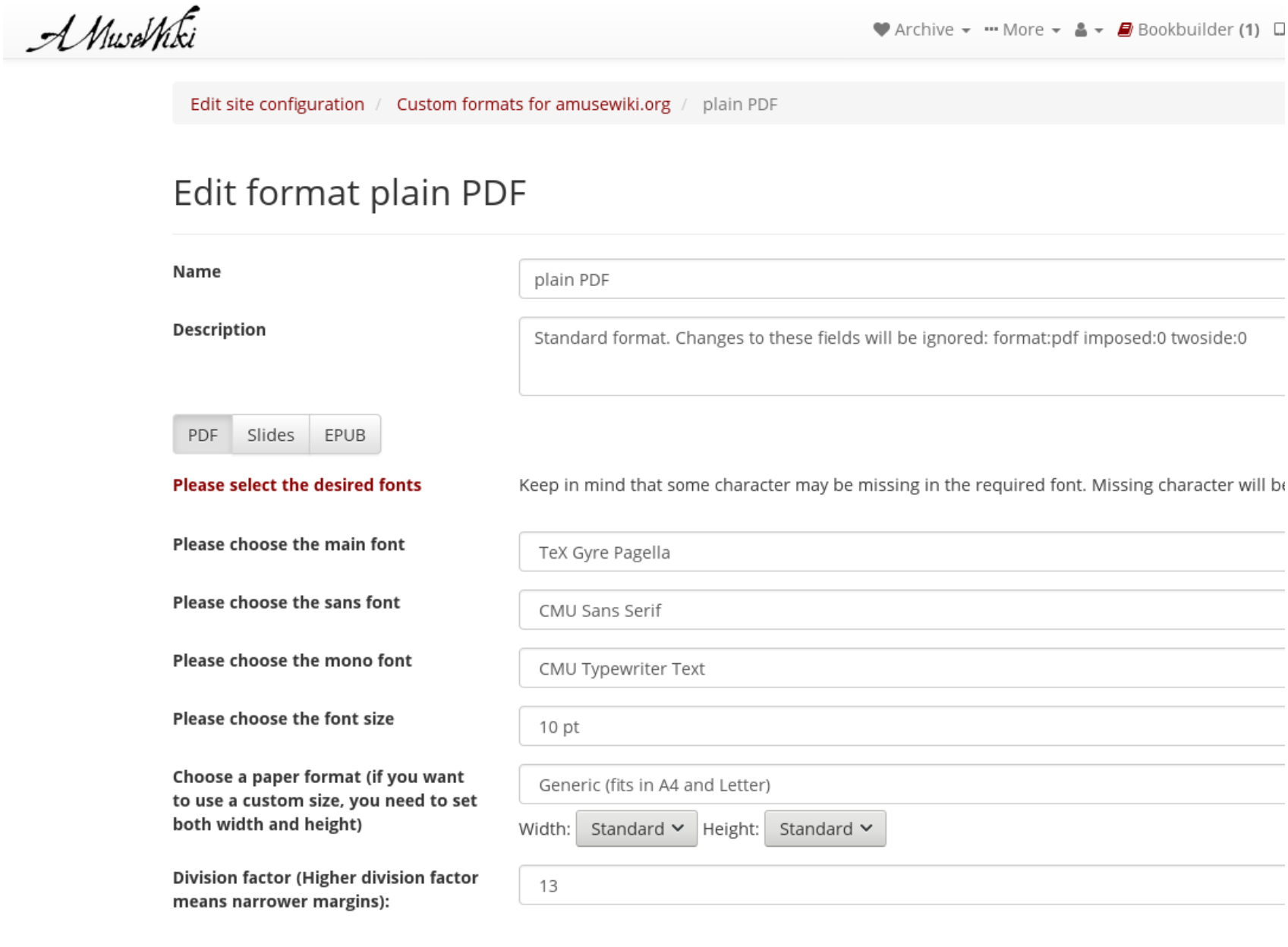
1x1: One page per sheet. This is useful only if you want to add the cropmarks

Add crop marks to the PDF

Please select the size of each page including the

A4

Fine tuning for formats



Any time left? Debian packages

Instead of running the app from the git tree on a dedicated home, with a `local::lib` tree or with a perl installed in the home, now you can visit `http://packages.amusewiki.org/` and follow the instructions there (import the key, add the repository, and install the package).
Minimum requirement: Debian Jessie and Ubuntu 16.04 LTS.
`https://github.com/melmothx/amusewiki-debian-packages`

Debian packages cons

More burden on the developer

Trivial changes require a package rebuild

Needs to ship about 25 new packages (fonts and perl modules)

Can't use fresh code from the module used without being too invasive.

Debian people usually don't like private repositories

Debian packages pros

Installation is straightforward

Maintenance for the administrator is integrated in the regular `apt-get` routine

Much smaller installation footprint (mostly because the texlive installation is optimized and shared)

Improved security

- code is installed and owned by root, not by the user running the application
- debian is taking care of the security updates of the dependencies (not only the perl dependencies, but also the libraries used by `LaTeX`, `cgit` and other utilities)

0 downtime upgrades out of the box

Predictability of locations and module versions (so gets more live testing)

Questions?

Thanks!