



Amusewiki: a year of development

Marco Pessotto (melmothX)

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August 24-26, 2016, Cluj-Napoca

amusewiki.org

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Questions?

Thanks!

Contents

About me: Marco Pessotto	5
Appearance	6
Why would you want to use Amusewiki	7
Source file (Emacs Muse markup)	8
Architecture	9
Bookbuilder partial selection	10
Prepare books for printing with the bookbuilder	11
Slides and theme selections	12
OPDS	13
OPDS example	14
Blog mode	16
Blog example	17
Other notable improvements	18
Debian packages	19
Debian packages cons	20
Debian packages pros	21
Questions?	22

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)

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 (e.g., newer Catalyst) without being too invasive.
- Debian people usually don't like private repositories

About me: Marco Pessotto

PAUSE id MELMOTHX

IRC melmothX on Libera Chat and `irc.perl.org`

E-mail `melmothx@gmail.com`

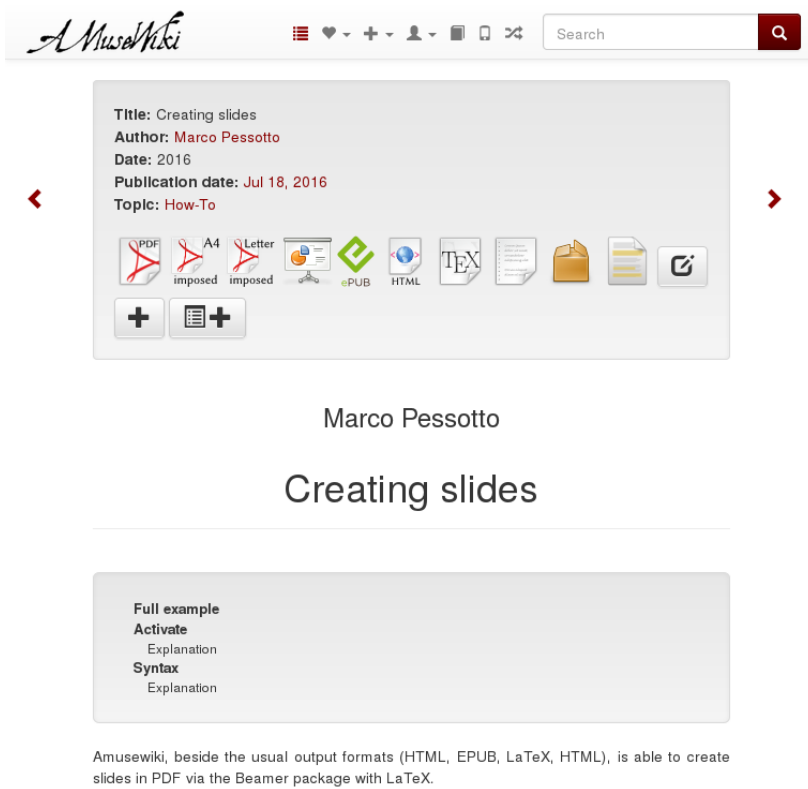
Homepage and documentation <https://amusewiki.org>

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

GitHub <https://github.com/melmothx>

Background Humanities (history and translations)

Appearance



The screenshot shows the AmuseWiki website interface. At the top left is the 'AmuseWiki' logo. To its right is a navigation bar with icons for home, heart, plus, user, document, mobile, and search. A search box is located to the right of these icons. The main content area features a card for the article 'Creating slides' by Marco Pessotto, dated 2016, published on July 18, 2016, with the topic 'How-To'. Below the title is a row of icons representing different output formats: PDF, A4 imposed, Letter imposed, e-PUB, HTML, and TeX. There are also two plus signs for additional options. Below the card, the author's name 'Marco Pessotto' and the title 'Creating slides' are displayed. A section titled 'Full example' contains sub-sections for 'Activate' and 'Syntax', each with an 'Explanation' link. At the bottom, a note states: 'Amusewiki, beside the usual output formats (HTML, EPUB, LaTeX, HTML), is able to create slides in PDF via the Beamer package with LaTeX.'

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>

Other notable improvements

- SSL made free and automatic with Let's Encrypt and Protocol::ACME
- Code highlight with highlight.js
- Automatic DB upgrades with DBIx::Class::DeploymentHandler
- Fine tune logging with Log::Log4perl and Log::Contextual
- Documentation on <https://amusewiki.org>

Why would you want to use Amusewiki

- built around texts, which are fully decoupled from the web application
- support for typesetting whole books (off-line editing and expressive markup)
- high-quality output (PDF with LaTeX quality and EPUB)
- flat file storage with Git
- create collections and reformat the PDF files for printing
- OPDS server for mobile users to deliver the texts straight into the apps
- Localized for English, German, Spanish, Finnish, French, Croatian, Italian, Macedonian, Russian, Albanian, Swedish
- production ready and comes with an extensive test suite

Source file (Emacs Muse markup)

```
#title Amusewiki: a year of development
#author Marco Pessotto (melmothX)
#slides on
#lang en
#date August 24-26, 2016, Cluj-Napoca
#pubdate 2016-08-27
```

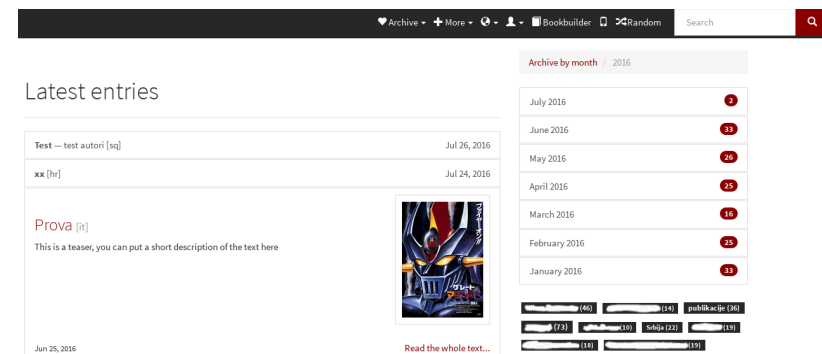
Here the `*the text* **start**`.

```
** About me: Marco Pessotto
```

```
PAUSE id :: =MELMOTHX=
```

```
IRC :: =melmothX= on Libera Chat and =irc.perl.org=
```

Blog example



The screenshot shows a blog interface with a dark header bar containing navigation links: Archive, More, Bookbuilder, Random, and a search box. Below the header, the main content area is titled "Latest entries" and displays a list of recent posts. The first post is titled "Text - test autori [sq]" dated Jul 26, 2016. The second post is titled "xx [hr]" dated Jul 24, 2016. Below these, there is a post titled "Prova [it]" with a placeholder image and a "Read the whole text..." link. To the right of the main content, there is an "Archive by month" section for the year 2016, showing a list of months with corresponding post counts: July (7), June (13), May (26), April (25), March (16), February (25), and January (31). Below the archive, there are several small, partially visible navigation links.

Blog mode

- Optional feature which can be activated in the admin console
- time-based sorting
- teasers
- decorative images
- tag cloud (accessible via ajax)
- monthly archives (accessible via ajax)
- form free layout elements (gives a chance to the admin to fully customize the site, in addition to local JS and CSS)
- bootswatch theme selection <https://bootswatch.com/>

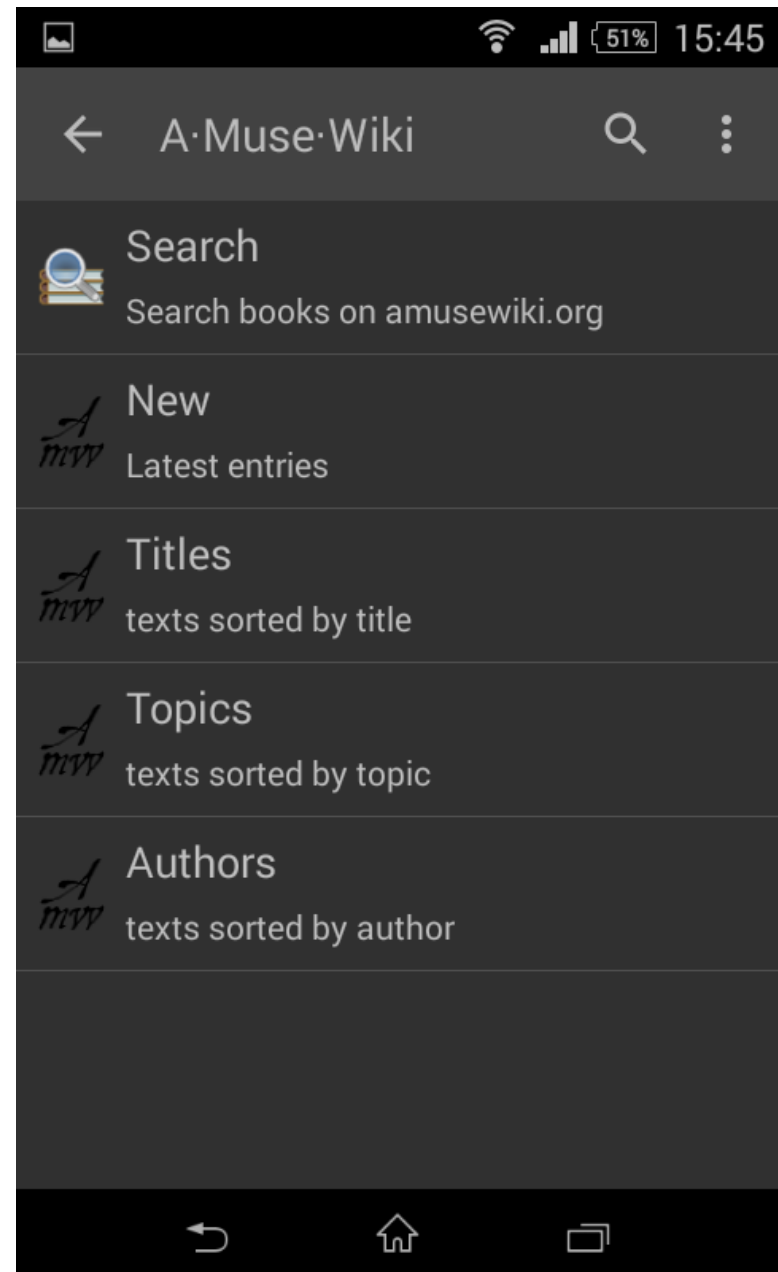
Architecture

- Muse parser: `Text::Amuse`
- HTML import and cleanup: `Text::Amuse::Preprocessor` (with CLI)
- Compiler: `Text::Amuse::Compile` (with CLI)
- PDF cropmarks: `PDF::Cropmarks` (with CLI)
- PDF imposition: `PDF::Imposition` (with CLI)
- `DBIx::Class` and `Xapian` for archive indexing
- Background daemon for indexing and compilation
- Catalyst application on the frontend

Bookbuilder partial selection

Add the selected parts to the bookbuilder

Section	Select
Title, author, date...	<input checked="" type="checkbox"/>
Creating slides	<input type="checkbox"/>
Full example	<input type="checkbox"/>
Activate	<input type="checkbox"/>
Explanation	<input type="checkbox"/>
Syntax	<input type="checkbox"/>
Explanation	<input type="checkbox"/>



OPDS example

Prepare books for printing with the bookbuilder

Pg 0004 6677.pdf Thu Aug 11 11:11:10 2016 page 4 #1/4 Pg 0009

Amusewiki, beside the usual output formats (HTML, EPUB, LaTeX, HTML), is able to create slides in PDF via the Beamer package with LaTeX.

The slides feature is off by default, but you can easily activate it in the admin console with the checkbox under "Formats".

Now, given that you generally don't want slides for all your texts, you have to flag it accordingly. You can do so with the provided checkbox in the text creation page, or simply adding the header

```
#slides yes
```

in the editing screen (i.e., in the .muse file).

It's important to note that the slide material must be placed inside a section, no matter how deep.

Material at the beginning of the text, not belonging to any section, is just ignored.

You can exclude sections of the documents from the slides by placing a comment cookie in the excluded sections.

```
*** this section will be excluded
```

```
: no slides
```

Here goes the lengthy explanation...

This is useful if you want to create slides and handout from the same source (as you should).

Finally, when you have the document ready, you can change the theme, the colors and the fonts adding it to the bookbuilder (using the button in the text's infobox) and asking for slides.

4 9

Pg 0004 6677.pdf Thu Aug 11 11:11:10 2016 page 4 #1/4 Pg 0009

Activate

- Amusewiki can produce slides
- Activate it in the admin to enable them
- Flag the text accordingly with #slides yes

Explanation

See above, I won't repeat it here

Slides and theme selections

PDF Slides EPUB

Please select the desired fonts
Keep in mind that some character may be missing in the required font. Missing character will be reported.

Please choose the sans font
Computer Modern Sans Serif

Please choose the mono font
Computer Modern Typewriter Text

Please choose the font size
10 pt

Please setup the Beamer layout
Here you can find a preview of the Beamer themes and color themes

Please choose the Beamer theme
Boadilla

Please choose the Beamer color theme
wolverine

Build it Update

OPDS

- Open Publication Distribution System <http://opds-spec.org/>
- Atom feed with navigation and acquisition entries
- Supported by most EPUB Android readers (FBreader, Aldiko, Moon+ reader)
- Deliver the texts straight into the applications
- Module XML : : OPDS
- Example and help: <https://amusewiki.org/help/opds>
- Transparent pagination to save bandwidth
- HTTP authorization supported for private sites
- Full text-search supported