

AmuseWiki

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!

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)

About me: Marco Pessotto

PAUSE id MELMOTHX

IRC melmothX on Freenode and `irc.perl.org`

E-mail `melmothx@gmail.com`

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

IRC channel `irc://chat.freenode.net/#amusewiki`

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

Background Humanities (history and translations)

Appearance

The screenshot shows the Amusewiki interface. At the top left is the logo 'Amusewiki'. To its right is a navigation bar with icons for home, search, and other functions. A search box is located on the right side of the navigation bar. The main content area displays the following information:

Title: Creating slides
Author: Marco Pessotto
Date: 2016
Publication date: Jul 18, 2016
Topic: How-To

Below this information is a row of icons representing different output formats: PDF, A4 imposed, Letter imposed, ePUB, HTML, LaTeX, and a folder icon. There are also two plus signs in boxes below the icons.

Below the icons, the author's name 'Marco Pessotto' is displayed, followed by the title 'Creating slides' in a larger font.

At the bottom of the page, there is a section titled 'Full example' with two sub-sections: 'Activate' and 'Syntax', each followed by an 'Explanation' link.

At the very bottom, a small paragraph reads: '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 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

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>

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**.

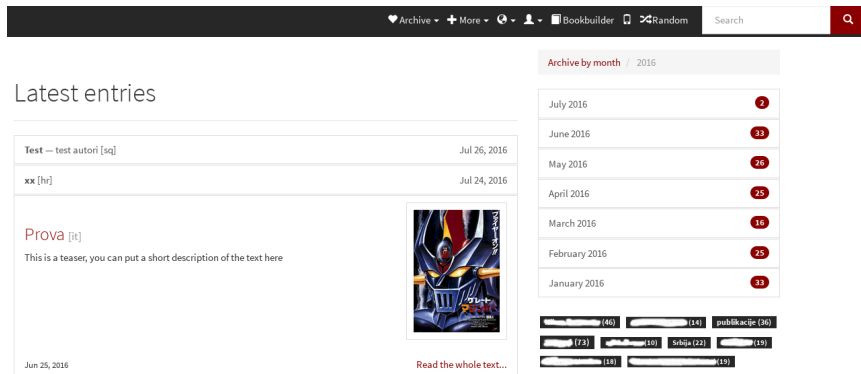
About me: Marco Pessotto

```
PAUSE id :: =MELMOTHX=
IRC :: =melmothX= on Freenode and =irc.perl.org=
```

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>

Blog example



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

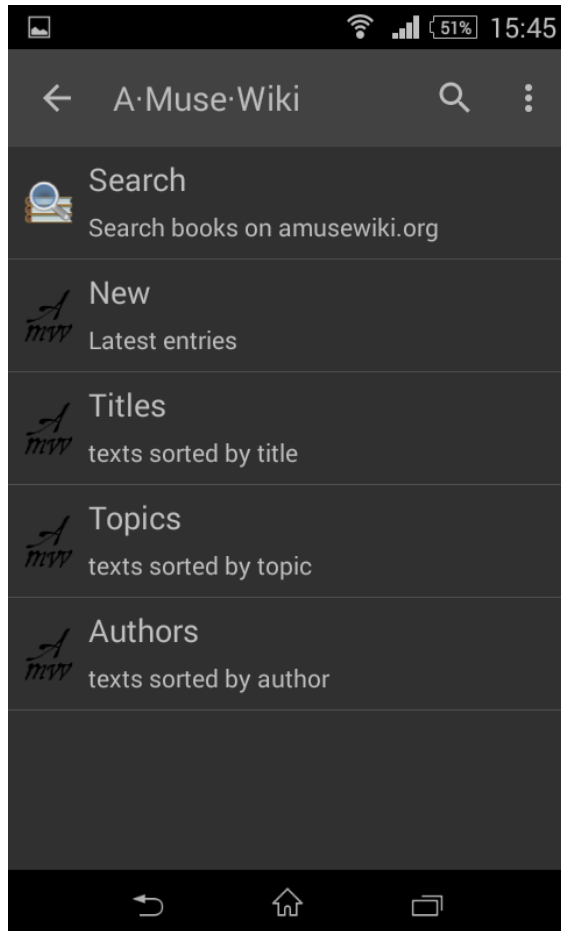
Add the selected parts to the bookbuilder

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"/>

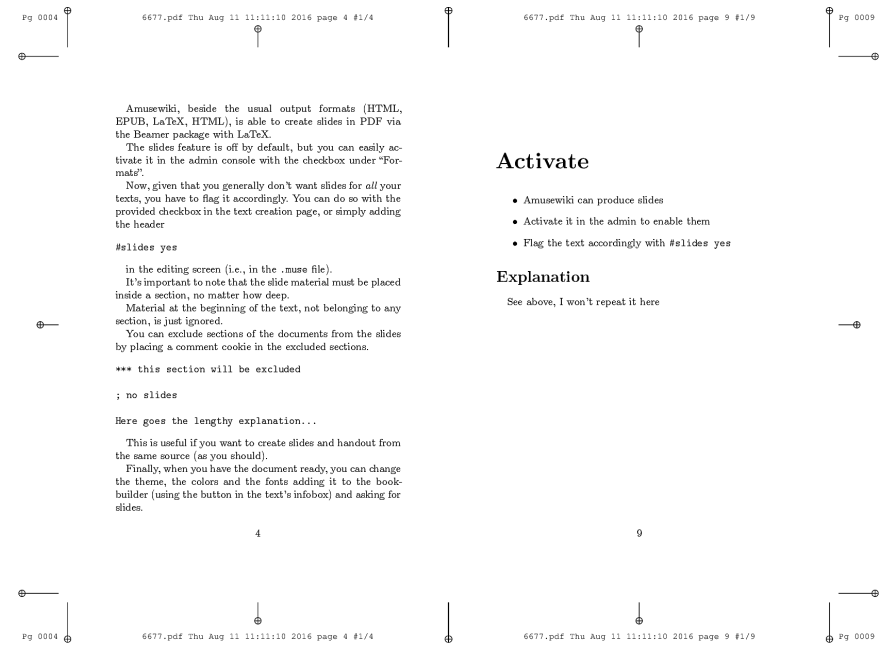
Blog mode

- 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/>

OPDS example



Prepare books for printing with the bookbuilder



Slides and theme selections



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

Please choose the mono font

Please choose the font size

Please setup the Beamer layout

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

Please choose the Beamer theme

Please choose the Beamer color theme



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