

Amusewiki: a year of development

Marco Pessotto (melmothX)

Marco Pessotto (melmothX) Amusewiki: a year of development August 24-26, 2016, Cluj-Napoca

amusewiki.org

August 24-26, 2016, Cluj-Napoca

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 cies (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

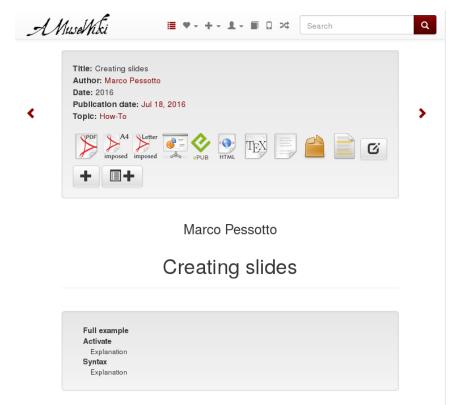
- More burden on the developer
- Trivial changes require a package rebuild
- Needs to ship about 25 new packages (fonts and perl modules)
- Can't use fresh code from the module used (e.g., newer Catalyst) without being too invasive.
- Debian people usually don't like private repositories

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



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)

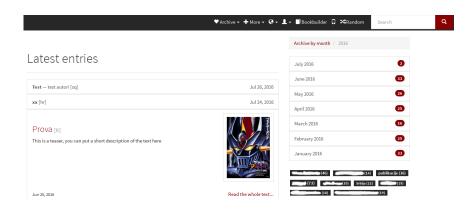
#title Amusewiki: a year of development
#author Marco Pessotto (melmothX)
#slides on
#lang en
#date August 24-26, 2016, Cluj-Napoca
#pubdate 2016-08-27

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

****** About me: Marco Pessotto

PAUSE id :: =MELMOTHX=
IRC :: =melmothX= on Libera Chat and =irc.perl.org=

Blog example



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/

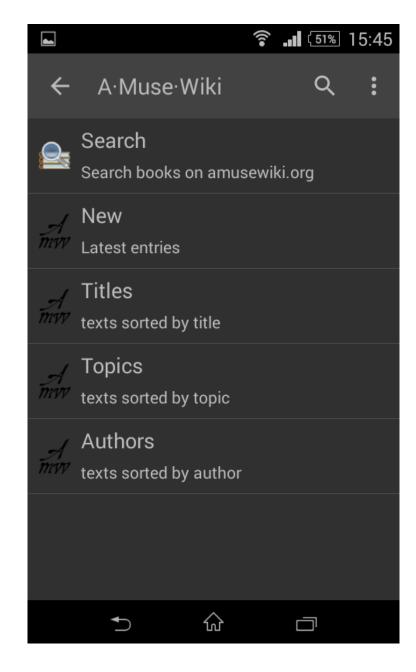
Architecture

- 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	
Creating slides	
Full example	
Activate	
Explanation	
Syntax	
Explanation	



OPDS example

Prepare books for printing with the bookbuilder



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 I	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