

Publishing with Amusewiki

Oslo, Nordic Perl Workshop 2018

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IRC channel [irc://irc.libera.chat/#amusewiki](https://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

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

Directives at the beginning of a document

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”
 1. Level 3, enum item “1”

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)

Directives at the beginning of a document

Correcting the hyphenation in the PDF output

Bold, italicized and monospace text, non breaking space.

Non-breaking space.

Footnotes

Secondary footnotes (support added in Text::Amuse 0.91, 2017-12-10)

Poetic stanzas

Lists

Breaking lists

Nested lists

Breaking list items

Complete example

List continuation

Generation of data tables

Floating tables

Hyperlinks with or without description (and images)

Images

Floating images and adjusting width

Examples

Inserting a horizontal line

Named anchors

Lines to omit from published output

Plays and bibliographies

Preventing the markup to be interpreted (verbatim)

Differences between Text::Amuse and Emacs

List continuation

If you need to start a list from an index different than 1, starting with Text::Amuse 0.90 (released on August 30, 2017), you can do so simply using it in the list. Indexes provided are so respected, unless they are the number 1. So the rule is: **if you need automatic numbering, just use 1. or a. or A. or i. or I., otherwise use your custom numbering.** Any other solution will be confusing and you can expect undefined behaviour.

- b. This list with start with b
- d. This will be “d” as well
 - 3. This starts at 3
 - 2. This is 2 as well.
 - iv. Roman iv.
 - i. Roman v. as i. acts as automatic numbering
- a. This will be e. because it's index 1 and continues the list (interrupted at d.)
- a. This will be f. because it's incrementing the previous item.
 - 1. Normal numeric
 - 1. Normal numeric 2.
 - 1. Normal numeric 3.
 - V. Roman V.
 - X. Roman X.

And results in:

- b. This list with start with b
- d. This will be “d” as well
 - 3. This starts at 3
 - 2. This is 2 as well.
 - iv. Roman iv.



Sample Slides

Amusewiki can be used to produce slides as well
You are looking at them :-)

Upload a text (with an HTML importer)

A-Muse-Wiki Sandbox

♥ ... 🔄 👤 📄 📁 📡 ✂ +

Search

Q

Language

English

Main text

Please note that you may want to paste your text into the editor using the “paste from word” button. This is supposed to preserve the markup. This is a WYSIWYG editor. If you prefer to edit the source code, click the “source” button above and postpone the editing to the next step.

Image uploading may be done on the next step. Keep in mind that unusually complex images only on the next step.

Source

✂ 📄 📁 📡 ✂ +

body p

Paste from Word

✕

Because of your browser security settings, the editor is not able to access your clipboard data directly. You are required to paste it again in this window.

Please paste inside the following box using the keyboard (Ctrl/Cmd+V) and hit OK

OK Cancel

Or provide an HTML file to upload

If you have a file in .doc or .odt, you can easily convert it saving it as HTML

Browse...

No file selected.

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
#author

This is a test, with some *emphasis*
```

Toggle fullscreen editor
Preview / Refresh and apply filters

Cheatsheet for the markup
HTML/Word importer

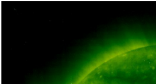
Add an attachment (PNG, JPG or PDF)
Browse... No files selected.
☐ Insert the file into the body at the cursor position
☐ When you upload a PDF, split it into images to be inserted in the body
☒ Filters (smart quotes, links, footnotes, etc.)

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.

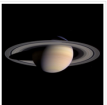
☒ Fix typography (smart quotes)
☐ Start with bold text

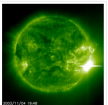
Preview

Title: test
Teaser image:



Attached images


t-e-test-en-1.jpg


t-e-test-en-2.jpg

Ready to publish?

A-Muse-Wiki Sandbox



Search



Changes saved, thanks! They are now waiting to be published

Pending revisions

| Revision | Attachments | Action | | Changes | Message | Date |
|---|--|---------|--|---|-------------------------------------|-------------------------|
| New /library/test-en | t-e-test-en-1.jpg t-e-test-en-2.jpg | Publish | | Show differences in other tab | * 2018-08-27T13:01:06 test -- marco | 27-08-2018 13:01:06 UTC |
| /library/prova-en | | Publish | | Show differences in other tab | * 2018-05-12T13:37:49 x -- marco | 12-05-2018 13:37:49 UTC |

Please keep in mind that if you see “Force publishing” as action, it means that the revision has been superseded by another one, so publishing this one, you'll end up reverting a previous one. Try to avoid this, unless you know what you're doing.

“Stale editing” means that the revision was abandoned while editing, but it's still there, in case someone wants to pick it up when editing a text.

Deleting a revision is safe if a text has been published. Otherwise deleting it you'll lose the unpublished changes

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)

A-Muse-Wiki Sandbox



Search



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

A·Muse·Wiki Sandbox

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

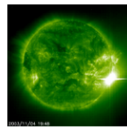
You are free to try to edit, upload and publish texts. >>

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

Full text search

E.g. some word AND title:"My Title" AND author:Author OR year:2017

You can use the following prefixes to search a word in a specific field, e.g. "title:example": **author** , **title** , **topic** , **source** , **notes** , **year** :

Sorting:

By relevance

Reset filters

Topics

- ☐ Documentation (18)
- ☐ How-To (17)
- ☐ Releases (9)

Authors

- ☐ Marco Pessotto (11)
- ☐ John Wiegley (1)
- ☐ Michael Olson (1)

Document type

- ☐ article (28)
- ☐ book (9)

Number of pages

- ☐ 1-5 (15)

Commenting system

How to permit comments on Amusewiki

Dec 27, 2017

[Read the whole text...](#)

Marco Pessotto

Creating slides

Amusewiki can be used as a system to create slides

Jul 18, 2016

[Read the whole text...](#)

Amusewiki: a year of development — Marco Pessotto (melmothX)

Aug 11, 2016

AmuseWiki: a library oriented wiki engine (talk) — Marco Pessotto (melmothX)

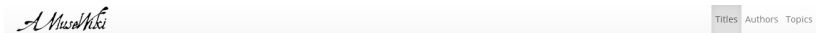
Apr 8, 2015

Custom fonts



















































































Fine tuning for fonts in the downloadable files

Static but functional mirror

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



Titles (37)

| | | Sorting:   Publication date ▼ Publication date ▲ | | | | | | |
|--|--|--|--|--|--|--|--|--|
| Version 2.2 <small>[en]</small> Topics: Releases |          | Aug 15, 2018  9 pp. | | | | | | |
| Mirroring a site running AmuseWiki <small>[en]</small> Topics: How-To |          | May 5, 2018  6 pp. | | | | | | |
| Migrations <small>[en]</small> Topics: How-To |          | Feb 18, 2018  2 pp. | | | | | | |
| Version 2.1 <small>[en]</small> Topics: Releases |          | Feb 18, 2018  9 pp. | | | | | | |
| The Text::Amuse markup manual <small>[en]</small> Authors: John Wiegley Marco Pessotto Michael Olson Topics: Documentation How-To |          | jan 27, 2018  56 pp. | | | | | | |
| Offline tools <small>[en]</small> Topics: Documentation How-To |          | Dec 28, 2017  4 pp. | | | | | | |
| Commenting system <small>[en]</small> Topics: How-To |          | Dec 27, 2017  1 pp. | | | | | | |
| Site customization <small>[en]</small> Topics: Documentation How-To |          | Nov 26, 2017  2 pp. | | | | | | |

Bookbuilder

A MuseWiki



📖 (1)



Add a cover image (PNG or JPG)

Browse...

No file selected.

PDF

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 main font

Coelacanth

Please choose the sans font

Iwona

Please choose the mono font

Anonymous Pro

Please choose the font size

10 pt

Choose a paper format (if you want to use a custom size, you need to set both width and height)

A5

Width:

Standard

Height:

Standard

Division factor (Higher division factor means narrower margins):

13



Imposer

A MuseWiki (1)

| | | | |
|---|---|---|---|
| | | | |
| 8 | 5 | 6 | 7 |

- ☐ **1x8x2:** Fixed 16 pages signatures on a single sheet, with triple folding. [See here for more details.](#)

| | | | | | | | |
|---|----|----|---|---|----|----|---|
| 5 | 12 | 6 | 8 | 7 | 10 | 11 | 9 |
| 4 | 13 | 16 | 1 | 2 | 15 | 14 | 3 |

- ☐ **EA-4x4:** Fixed 16 pages signatures on 2 sheets, with double individual folding. [See here for more details.](#)

| | | | | | | | |
|----|---|---|----|----|---|---|----|
| 13 | 4 | 3 | 14 | 9 | 8 | 7 | 10 |
| 16 | 1 | 2 | 15 | 12 | 5 | 6 | 11 |

- ☐ **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



[Edit site configuration](#) / [Custom formats for amusewiki.org](#) / [plain PDF](#)

Edit format plain PDF

Name

[plain PDF](#)

Description

Standard format. Changes to these fields will be ignored: format:pdf imposed:0 twoside:0

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

Please choose the main font

TeX Gyre Pagella

Please choose the sans font

CMU Sans Serif

Please choose the mono font

CMU Typewriter Text

Please choose the font size

10 pt

Choose a paper format (if you want to use a custom size, you need to set both width and height)

Generic (fits in A4 and Letter)

Width: Standard ▾ Height:

Division factor (Higher division factor means narrower margins):

13

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!