Publishing with Amusewiki
Oslo, Nordic Perl Workshop 2018

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About me: Marco Pessotto

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**Homepage** https://amusewiki.org

**IRC channel** irc://chat.freenode.net/#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
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
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 “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.

Yielding:

```verbatim
#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:

```verbatim
#title My text
#badanchor
This is not an anchor, it’s part of the header with a dummy name.
```

```verbatim
<br>
#begin
This will work.
```

```verbatim
#an-anchor At the beginning of the line.
```
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 behavior.

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 i. 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.

   i. Normal numeric
   1. Normal numeric 2.
   i. 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)

Main text

Please note that you may want to paste your text using the “paste from word” button. This is a WYSIWYG editor. If you prefer, you can also upload an HTML file. Image uploading may be done on the next step.

Keep in mind that unusually complex HTML code might cause issues.

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

[[t-e-test-2.jpg]]
Ready to publish?

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

Pending revisions

<table>
<thead>
<tr>
<th>Revision</th>
<th>Attachments</th>
<th>Action</th>
<th>Changes</th>
<th>Message</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>t-e-test-en-2.jpg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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]]
```

Recheck
Publish (tailing a background daemon)

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.1t.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
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...
#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

Commenting system
How to permit comments on Amusewiki
Dec 27, 2017

Marco Pessotto
Creating slides
Amusewiki can be used as a system to create slides
Jul 18, 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 -
Bookbuilder

Please select the desired fonts

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

Division factor (Higher division factor means narrower margins):
13

Binding correction in millimeters (additional inner margin):
0 mm

Tutorial available at
https://amusewiki.org/library/bookbuilder-tutorial
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 crop marks, before the imposing (if you want to use a custom size, A4

Width: Standard Height: Standard
# Fine tuning for formats

## Edit format plain PDF

### Name

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>plain PDF</td>
<td></td>
</tr>
</tbody>
</table>

### Description

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard format. Changes to these fields will be ignored: format:pdf imposed:0 twoside:0</td>
</tr>
</tbody>
</table>

### Please select the desired fonts

<table>
<thead>
<tr>
<th>Font Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Please choose the main font</td>
<td>TeX Gyre Pagella</td>
</tr>
<tr>
<td>Please choose the sans font</td>
<td>CMU Sans Serif</td>
</tr>
<tr>
<td>Please choose the mono font</td>
<td>CMU Typewriter Text</td>
</tr>
</tbody>
</table>

### Please choose the font size

<table>
<thead>
<tr>
<th>Font Size</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 pt</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Paper Format</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generic (fits in A4 and Letter)</td>
<td></td>
</tr>
</tbody>
</table>

### Division factor (Higher division factor means narrower margins):

<table>
<thead>
<tr>
<th>Division Factor</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td></td>
</tr>
</tbody>
</table>
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!