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About me: Marco Pessotto

PAUSE id MELMOTHX
IRC melmothX on Freenode and irc.perl.org
E-mail melmothx@gmail.com
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

Overview

Sample page
Sample imposed PDF (more schemas available)
Sample EPUB (on Firefox, Epubreader plugin)
Sample Slides
- Amusewiki can be used to produce slides as well
- You are looking at them :-)
The Text::Amuse markup manual
The writer's guide

The Muse markup
-

Paragaphs
- Centered and right-aligned paragraphs and quotations
- Source
- Literal paragraphs
- Line breaks
- Page breaks
- Levels of headings
- From level 1 to "subsection"
- The example of levels
- Phrasing 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
    a. Level 3, enum item i
    b. 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"
  c. Level 3, enum item "c"
  d. Level 4, enum item "d"
  e. Level 5, enum item "e"
- 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>
#hash tag verbatim
<verbatim>
```

Yielding:
- `#hash tag verbatim`
- `#hash tag 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

#new anchor
This is not an anchor, it's part of the header with a dummy name.
</verbatim>
```
List continuation

If you need to start a list from an index different than 1, starting with Text::Amuse 0.80 (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 1. or 1. 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.

   1. 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.)
   This will be f., because it’s incrementing the previous item.

   i. 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.
Upload a text (with an HTML importer)

Main text

Please note that you may want to paste your text inside the editor. But it is supposed to preserve the markup. This is a WYSIWYG editor. If you prefer to paste your text, you can use the "paste from word" button. This has not been tested. Refer to the documentation 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.

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.
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>
</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 rewriting 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.
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...
Editing

Ready to publish?

Checking

Publish (tailing a background daemon)

Done

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
Static but functional mirror

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

**Bookbuilder**

Tutorial available at [https://amusewiki.org/library/bookbuilder-tutorial](https://amusewiki.org/library/bookbuilder-tutorial)

**Imposer**

**Fine tuning for formats**

**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/](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](https://github.com/melmothx/amusewiki-debian-packages)
Add a cover image (PNG or JPG)
Browse...  No file selected.

PDF  EPUB

Please select the desired fonts

<table>
<thead>
<tr>
<th>Font Type</th>
<th>Font Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Font</td>
<td>Coelacanth</td>
</tr>
<tr>
<td>Sans Font</td>
<td>Iwona</td>
</tr>
<tr>
<td>Mono Font</td>
<td>Anonymous Pro</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Paper Format</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

Keep in mind that some character may be missing in the required font. Missing character will be reported.
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).
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!
Marco Pessotto (melmothX)
Publishing with Amusewiki
Oslo, Nordic Perl Workshop 2018
September 6, 2018

amusewiki.org