Publishing with Amusewiki
Oslo, Nordic Perl Workshop 2018

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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 Muse markup

Paragraphs
- Centered and right-aligned paragraphs and quotations
- Source
- List item paragraphs
- Line breaks
- Page breaks

Levels of headings
- Search level, a "substitution"
- The example of levels
- Selection of the language 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"
- Level 3, enum item "c"

One term description
Another term description

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> verbatim.
</verbatim>=#hashage verbatim as code.

Yielding
#hashage verbatim. #hashage verbatim as code.

The support for this feature was introduced in Text: Amuse version 0.70 and improved in 0.82. Compatibility with Enca's Muse was restored in version 1.10, released on April 13, 2018, allowing text material on the same line of the anchor.

Example:

#title My text

#hashanchor
This is not an anchor, it's part of the header with a dummy name.

<verbatim>
</verbatim>

#begin
This will work.

#anchor At the beginning of the line.

<verbatim>=#hashtag</verbatim><verbatim> verbatim. 
</verbatim>
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 2. 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

3. This is 2 as well.

iv. Roman iv.

1. Roman v. as 1. 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
i. 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

3. This is 2 as well.

iv. Roman iv.
### 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>
| /library | t-e-test-en-1.jpg  
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 | t-e-test-en-1.jpg  

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.
Changes for test-en (revision #688)  

This text is new

This is a test, with some "emphasis"

[t-e-test-en-2.jpg]

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 34 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...
Upload a text (with an HTML importer)

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

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/ 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, \texttt{cgit} and other utilities)
- 0 downtime upgrades out of the box
- Predictability of locations and module versions (so gets more live testing)
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
| 1x8x2: Fixed 16 pages signatures on a single sheet, with triple folding. See here for more details. |
|---|---|---|---|---|---|---|
| 8 | 5 | 6 | 7 |

| EA-4x4: Fixed 16 pages signatures on 2 sheets, with double individual folding. See here for more details. |
|---|---|---|---|---|---|---|
| 5 | 12 | 6 | 8 | 7 | 10 | 9 |
| 4 | 13 | 16 | 1 | 2 | 15 | 14 | 3 |

| 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,)**

- Width: Standard
- Height: Standard

---

14
Edit format plain PDF

Name
plain PDF

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

Please select the desired fonts

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)

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

Thanks!
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amusewiki.org