




# Reliure

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Bind your books for e-readers.

<https://github.com/GreatWizard/reliure>

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# What is it?

Personal node project started on 1st March 2020.

Open sourced on <https://github.com/GreatWizard/reliure> (GPLv3).

At first it was designed as a small utility so that my wife could convert her books she is writing (in LaTeX) into valid eBooks with some customizations.



Marine Dunstetter

<https://academie-des-renards.dunstetter.fr>





# Features

- Convert text files into eBook readers compatible files: .pdf, .epub, .mobi
- Enable customization
  - cover
  - metadata
  - custom css
  - fonts ( ⚠ accessibility)

More resources:

[The EPUB format for dummies](https://github.com/BlueCutOfficial/BlueCutOfficial/blob/main/articles/epub-format-en/the-epub-format-for-dummies.md)

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## Features in details

- Compiles Microsoft Word DOCX, LibreOffice ODT, Markdown, LaTeX... files in epub, mobi and pdf
- Cross-platform compatibility (Windows, Mac and Linux)
- Configuration in a single file
- Validate the configuration before creating the books
- Replaces part of the configuration for a specific format
- Supports custom fonts (ttf and otf)
- Supports cover image
- Supports metadata

### Features only for ebooks (epub and mobi)

- Supports custom metadata
- Supports custom CSS
- Supports automatic regex substitutions



# How it works?

One configuration to bind them all!

e.g.

<https://github.com/GreatWizard/reliure?tab=readme-ov-file#configuration-file>

```
# Name of the output file
filename: My Ebook

# Default configuration applied to every format
default:
  # Cover image of the ebook
  coverImage: cover.jpg
  # Custom Style sheets appends to the default stylesheet
  # used by epub/mobi format
  styleSheets:
    - style.css
  # Files used to build the ebook
  files:
    - my-ebook.docx
```

```
# Overridden configuration for epub format
epub:
  metadata:
    identifier: 'urn:isbn:1234567890123'
    rights: 'ISBN: 123-4-5678901-2-3'

# Overridden configuration for mobi format
mobi:
  coverImage: cover-mobi.jpg
  metadata:
    identifier: 'urn:isbn:1234567890145'
    rights: 'ISBN: 123-4-5678901-4-5'
```

## Pandoc

Free software for converting digital documents.

Convert **anything to anything**.

A lot of command options are used to configure your build process:

- front cover
- book's metadata
- custom css
- custom font

Used to output PDF and ePub.

## Reliure customization (ePub Only)

Automated regex substitutions in HTML files.

## Mobi conversion (from ePub)

Amazon proprietary format.

Use an external tool named KindleGen.



# Technically

Tool made in node with pnpm.

Unit tests are written in with mocha and chai.

Acceptance tests validating the generated ePub with <https://github.com/w3c/epubcheck> (The conformance checker for EPUB publications).



# Installation

- Python 3
- Pandoc
- Reliure binary (standalone binary packaged with node.js)
- LaTeX (<https://www.latex-project.org/get/>)
- With XeLaTeX engine installed





# Thank you!

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