

The tex4ebook package

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1 Introduction

TeX4ebook is a tool for conversion from \LaTeX to ebook formats, such as EPUB, MOBI and EPUB 3. It is based on TeX4ht¹, which provides instructions for the actual \LaTeX to HTML conversion, and on make4ht².

The conversion is focused on the logical structure of the converted document and metadata. Basic visual appearance is preserved as well, but you should use custom configurations if you want to make the document more visually appealing. You can include custom CSS or fonts in a configuration file.

TeX4ebook supports the same features as make4ht, in particular build files and extensions. These may be used for post-processing of the generated HTML files, or to configure the image conversion. See the make4ht documentation to see the supported features.

1.1 License

Permission is granted to copy, distribute and/or modify this software under the terms of the LaTeX Project Public License, version 1.3.

2 Usage

Run on the command line:

```
tex4ebook [options] filename
```

You don't have to modify your source files unless you want to use commands defined by tex4ebook in the document, or when your document uses a package which causes a compilation error.

If you want to use tex4ebook commands, add this line to your document preamble:

```
\usepackage{tex4ebook}
```

But it is optional. You shouldn't need to modify your \TeX files

2.1 Available commands

- `\coverimage[<graphicx options>]{coverimage.name}` – include cover image to the document. You can pass the same options as to `\includegraphics` command in the optional argument.

For example:

¹<https://tug.org/tex4ht/>

²<https://ctan.org/pkg/make4ht?lang=en>

```

\thispagestyle{empty}
\begin{document}
\coverimage[scale=0.8]{coverimage.name} % include scaled cover image
...
\pagestyle{headings}

```

- `\epubpage` – add page break to the document.

3 Command line options

`-a, --loglevel` Set message log level. Possible values: debug, info, status, warning, error, fatal. Default: status.

`-c, --config` specify custom config file for TeX4ht

example config file: File `sample.cfg`

```

\Preamble{xhtml}
\CutAt{section}
\begin{document}
\EndPreamble

```

run

```
tex4ebook -c sample filename.tex
```

This config file will create `xhtml` file for every section. Note that this behaviour is default.

`-e, --build-file` (default nil) Specify make4ht build file³. Default build file filename is `filename.mk4`, use this option if you use different filename.

`-f, --format` (default epub) Output format. Possible values are epub, epub3, mobi, azw and azw3.

`-j, --jobname` Specify the output file name, without file extension.

`-l, --lua` Use LuaLaTeX as TeX engine.

`-m, --mode` (default default) This set mode variable, accessible in the build file. Default supported values are default and draft. In draft mode, document is compiled only once, instead of three times.

`-s, --shell-escape` Enable shell escape in the `htlatex` run. This is necessary for the execution of the external commands from your source files.

³<https://github.com/michal-h21/make4ht#build-file>

- t,--tidy clean-up output HTML files using the HTML tidy command⁴.
- x,--xetex Use xelatex for document compilation
- v,--version Print the version number.

4 Configuration

TeX4ebook uses TeX4ht⁵ for conversion from LaTeX to html. TeX4ht is highly configurable using config files. Basic config file structure is

```
\Preamble{xhtml, comma separated list of options}
...
\begin{document}
...
\EndPreamble
```

Basic info about command configurations can be found in a work-in-progress *TeX4ht tutorial*⁶, *TeX4ht documentation*⁷, and in series of blogposts on CV Radhakrishnan's blog: *Configure part 1*⁸, *Configure part 2*⁹, *Low level commands*¹⁰. Available options for \Preamble command are listed in the article *TeX4ht: options*¹¹. *Comparison of tex4ebook and Pandoc output*¹²

A great source of tips for TeX4ht configuration is *tex4ht tag on TeX.sx*¹³. There is also a *tag for tex4ebook*¹⁴.

Examples of interesting questions are *including images and fonts in ebooks*¹⁵ or *setting image size in em units instead of pt*¹⁶.

4.1 Provided configurations

tex4ebook provides some configurations for your usage:

```
\Configure{UniqueIdentifier}{identifier}
```

Every EPUB file should have unique identifier, like ISBN, DOI, URI etc. Default identifier is URI, with value `http://example.com/\jobname`.

⁴if it is available on your system

⁵<http://www.tug.org/tex4ht/>

⁶<https://github.com/michal-h21/helpers4ht/wiki/tex4ht-tutorial>

⁷<http://www.tug.org/applications/tex4ht/mn11.html>

⁸<https://web.archive.org/web/20180908234227/http://www.cvr.cc/?p=323>

⁹<https://web.archive.org/web/20180908201057/http://www.cvr.cc/?p=362>

¹⁰<https://web.archive.org/web/20180909101325/http://cvr.cc/?p=482>

¹¹<https://web.archive.org/web/20180813043722/http://cvr.cc/?p=504>

¹²https://github.com/richelbilderbeek/travis_tex_to_epub_example_1

¹³<http://tex.stackexchange.com/questions/tagged/tex4ht>

¹⁴<http://tex.stackexchange.com/questions/tagged/tex4ebook>

¹⁵<http://tex.stackexchange.com/a/213165/2891>

¹⁶<http://tex.stackexchange.com/a/195718/2891>

`\Configure{@author}{\let\footnote@gobble}`

Local definitions of commands used in the `\author` command. As contents of `\author` are used in XML files, it is necessary to strip away any information which don't belongs here, such as `\footnote`.

`\Configure{OpfScheme}{URI}`

Type of unique identifier, default type is URI. It is used only in the EPUB format, it is deprecated for EPUB 3.

`\Configure{resettoclevels}{list of section types in descending order}`

Configure section types which should be included in the NCX file. Default value is the whole document hierarchy, from `\part` to `\paragraph`.

`\Configure{DocumentLanguage}{language code}`

Each EPUB file must declare the document language. It is inferred from babel main language by default, but you can configure it when it doesn't work correctly. The `language code` should be in ISO 639-1 form.

`\Configure{CoverImage}{before cover image}{after cover image}`

By default, cover image is inserted in `<div class="cover-image">` element, you may use this configuration option to insert different markup, or even to place the cover image to standalone page.

`\Configure{CoverMimeType}{mime type of cover image}`

Default value is `image/png`, change this value if you use other image type than `png`.

If you don't want to include the cover image in the document, use command

`\CoverMetadata{filename}`

in the config file.

`\Configure{OpfMetadata}{item element}`

Add item to `<metadata>` section in the OPF file.

`\Configure{OpfManifest}{manifest element}`

Add item to `<manifest>` section in the OPF file.

`\Configure{xmlns}{prefix}{uri}`

Add XML name space to the generated XHTML files. Useful in EPUB 3.

4.1.1 Example config file

```
\Preamble{xhtml}
\begin{document}
\Configure{DocumentLanguage}{de}
% Use following lines if your document has ISBN:
% \Configure{OpfScheme}{ISBN}
% \Configure{UniqueIdentifier}{3-0000-1111-X}
% Another possibility is URI that points for example to the ebook homepage:
\Configure{OpfScheme}{URI}
\Configure{UniqueIdentifier}
{https://de.wikipedia.org/wiki/Der_achte_Sch&ouml;pfungstag}
\Configure{CoverMimeType}{image/jpeg}
% If you don't use \coverimage in the document text,
% add cover image using this command:
\CoverMetadata{coverimage.jpg}
% You can also add more authors to your ebook metadata:
\Configure{OpfMetadata}
{\HCode{<dc:publisher>Deutscher B&uuml;cherbund</dc:publisher>}}
\Configure{OpfMetadata}
{\HCode{<dc:contributor>Image Artist</dc:contributor>}}
\Configure{OpfMetadata}
{\HCode{<dc:contributor>Trans Lator</dc:contributor>}}
\Configure{OpfMetadata}
{\HCode{<dc:date opf:event='original-publication'>1888</dc:date>}}
\EndPreamble
```

Remarks:

- Leading percent signs in the .cfg file introduce comments
- If the unique identifier is a URI which contains diacritical characters, the equivalent HTML code needs to be inserted. UTF8 is not recognized at that place.
- UTF8 characters may be used in the OpfMetadata sections.

4.2 T_EX4ht options

T_EX4ht supports lot of options, that change produced HTML code without need to use configurations. Their list is available in the T_EX4ht documentation. You can pass options to tex4ebook in the argument that follows filename:

```
tex4ebook filename.tex "option1,option2"
```

Alternatively, they can be put in the \Preamble command in the config file:

```
\Preamble{xhtml,option1,option2}
```

4.2.1 Options provided by tex4ebook

`no-cut` By default tex4ebook splits document to separate HTML pages on `\chapter` command when it is available. Otherwise, it splits on `\section`. This can be changed using the `\CutAt` command or numeric options, but you need to use the `no-cut` option to prevent fatal error.

4.3 Commands available in the config file

`\OpfRegisterFile[filename]` register file in the OPF file. Current output file is added by default.

`\OpfAddProperty{property type}` add EPUB3 property for the current file. See *EPUB3 spec*¹⁷

`\OpfGuide[filename]{title}{type}` Add file to the `<guide>` section in the OPF file. See *Where do you start an ePUB and what is the <guide> section of the .OPF file?*¹⁸ for some details. Note that `<guide>` is deprecated in EPUB 3.

4.4 Build files

tex4ebook uses make4ht¹⁹ as a build system. It provides support for build files written in Lua. These build files can be used to call additional commands, like BibTeX or Makeindex, post-process generated HTML files, change the way how images are created, or to modify parameters of the conversion.

Sample build file can look like this:

```
if mode=="draft" then
  Make:htlatex {}
else
  Make:htlatex {}
  Make:htlatex {}
  Make:htlatex {}
end

Make:image("png$",
"dvipng -bg Transparent -T tight -o ${output} -D 170 -pp ${page} ${source}")
```

¹⁷<http://www.idpf.org/epub/301/spec/epub-publications.html#sec-item-property-values>

¹⁸<http://epubsecrets.com/where-do-you-start-an-epub-and-what-is-the-guide-section-of-the-opf-file.php>

¹⁹<https://github.com/michal-h21/make4ht>

The mode variable holds value of the `--mode` argument to `tex4ebook`. The draft mode is used for faster compilation, it calls LaTeX only once.

The `Make:image` function can configure handling of images created by extraction from the DVI file. It can be complex math, TikZ or PSTricks pictures, and so on. The `#{<name>}` placeholders are filled by `tex4ebook` with parameters like current page number of the image DVI file, or output image name.

You can compile your document with a build file using the `-e` option:

```
tex4ebook -m draft -e build.lua filename.tex
```

See `make4ht` documentation for more details on configuration files.

4.5 .tex4ebook configuration file

`tex4ebook` supports a default build file, which is loaded automatically without need to use the `-e` option.

4.5.1 Location

The configuration file can be saved either in `$HOME/.config/tex4ebook/config.lua` or in `.tex4ebook` in the current directory or its parents (up to `$HOME`).

See the `make4ht` documentation for an example and more information.

5 Troubleshooting

5.1 Kindle formats

`tex4ebook` uses `kindlegen` command for the conversion to Kindle formats (`mobi`, `azw` and `azw3`). Unfortunately, Amazon discontinued this command, so we use also `ebook-convert` provided by Calibre if `kindlegen` fails.

5.2 Fixed layout EPUB

The basic support for the Fixed layout EPUB 3 can be enabled using the following configurations:

```
\Configure{OpfMetadata}
{\HCode{<meta property="rendition:layout">pre-paginated</meta>}}
\Configure{OpfMetadata}
{\HCode{<meta property="rendition:orientation">landscape</meta>}}
\Configure{OpfMetadata}
{\HCode{<meta property="rendition:spread">none</meta>}}
\Configure{@HEAD}
{\HCode{<meta name="viewport" content="width=1920, height=1080"/>\Hnewline}}
```

Modify the dimensions in the `<meta name="viewport">` element according to your needs.

5.3 Math issues

Note that while mobi is supported by Amazon Kindle, most widespread ebook reader, it doesn't support MathML. This means that math must be represented as images. The same issue is true for the EPUB format as well. This is problematic especially for the inline math, as you may experience wrong vertical alignment of the math content and surrounding text. If your ebook contains math, a better solution is to produce the epub3 format, as it supports MathML. The issue with EPUB 3 is that majority of e-ink ebook readers don't support it. Reader applications exists mainly for Android and Apple devices. For books which contains mainly prose, all formats should be suitable, but EPUB 3 supports most features from web standards, such as CSS.

5.4 Compilation errors

When compilation of the document breaks with error during LaTeX run, it may be caused by some problem in TeX4ht configuration. Comment out line `\usepackage{tex4ebook}` in your source file and run command:

```
htllatex filename
```

if same error as in `tex4ebook` run arises, the problem is in some TeX4ht configuration. Try to identify the source of problem and if you cannot find the solution, make minimal example showing the error and ask for help either on *TeX4ht mailing list*²⁰ or on *TeX.sx*²¹.

5.5 Validation

In case of successful compilation, use command line tool `epubcheck`²² to check whether your document doesn't contain any errors.

Type

```
epubcheck filename.epub
```

5.5.1 Common validation issues:

- WARNING: filename.epub: item (OEBPS/foo.boo) exists in the zip file, but is not declared in the OPF file

Delete the `filename-(epub|epub3|mobi|azw|azw3)` folder and `filename.epub`. Then run `tex4ebook` again.

²⁰<http://tug.org/mailman/listinfo/tex4ht>

²¹<http://tex.stackexchange.com/>

²²you need to install it separately, see <https://github.com/IDPF/epubcheck>

- WARNING(ACC-009): hsmmt10t.epub/OEBPS/hsmmt10tch17.xhtml(235,15): MathML should either have an alt text attribute or annotation-xml child element.

This is accessibility message. Unless you use some macro with annotations for each math instance, you will get lot of these messages. Try to use `epubcheck -e` to print only serious errors.

6 Changes

- 2025/04/14
 - version 0.4b released.
- 2025/03/17
 - redefine `\title` and `\author` after the document class is loaded. <https://github.com/michal-h21/tex4ebook/issues/138>
- 2025/03/13
 - use `Make:autohlatex` for the default compilation mode.
- 2025/02/19
 - version 0.4a released.
- 2025/01/10
 - fixed adding of files for sections to the OPF file.
- 2024/12/03
 - fixed Epub 3 footnotes. <https://tex.stackexchange.com/a/732071/2891>
- 2024/06/16
 - fixed support for `--build-dir` that contains dashes. Thanks to Danie-1. <https://github.com/michal-h21/tex4ebook/pull/132>
- 2024/04/21
 - better detection of `zip` and `miktex-zip` commands.
- 2024/02/23
 - version 0.4 released.
- 2023/10/30

- added the `\epubpage` command
- 2023/10/17
 - added the `--build-dir` command line option.
- 2023/10/15
 - don't set PNG as image format explicitly.
- 2023/06/02
 - prevent fatal errors in the zip command executable detection.
- 2023/05/29
 - save author and date globally.
- 2023/05/23
 - removed spurious numbers from TOC in Epub 3.
- 2023/03/17
 - released version 0.3j.
 - fixed bug in generating of TOC in the NCX file.
- 2023/03/02
 - released version 0.3i.
 - check if file with TOC exists before processing.
- 2023/01/12
 - added all mimetypes supported in Epub.
- 2023/01/09
 - fixed handling of metadata for filenames with accented characters.
- 2022/12/15
 - use lower case file extensions for mimetype matching.
- 2022/12/01
 - set destinations for `\label` used inside of footnotes.
 - fixed handling of multiple tables of contents in Epub 3.

- 2022/11/20
 - added support for the `fn-in` option in the Epub 3 output.
- 2022/03/29
 - fixed support for \TeX filenames that contain dot.
 - removed spurious comma that was introduced earlier.
- 2022/03/28
 - documented the `no-cut` option.
- 2022/02/23
 - extended the documentation about build files.
 - deprecated the `--resolution` CLI argument.
- 2022/02/22
 - print `\subsubsection` in the Epub TOC.
- 2022/02/18
 - released version 0.3h.
- 2022/01/13
 - fixed issue where child TOC elements were inserted into `<a>` element.
- 2021/12/07
 - print space after section number in Epub 3 TOC.
 - keep original elements in Epub 3 TOC.
- 2021/12/04
 - fixed support for appendix chapters in Epub 3.
- 2021/11/08
 - released version 0.3g
 - bug fix: removed spurious 0 character from the NCX file.
- 2021/11/05
 - released version 0.3f

- fixed spurious numbers in NCX TOC caused by wrong use of `\cs_if_exist_use:cTF` command.
- 2021/10/08
 - fix for `\author` support in `amsart` class.
- 2021/09/30
 - released version 0.3e
 - better detection if `kindlegen` was found.
- 2021/09/23
 - use `ebook-convert` for conversion to Kindle formats if `kindlegen` fails.
- 2021/08/22
 - fixed cross-referencing issue related to unnumbered equations.
- 2021/07/26
 - released version 0.3d
- 2021/05/29
 - renamed `DeclareLanguage` to `\DeclareLanguageEbook`. Fixes issue 78.
- 2021/05/15
 - use `assert` in checking of existence of the `zip` command.
 - replace colons in OPF id attributes and add trailing `x` if the id starts with number. It should fix some validation issues.
- 2021/05/02
 - added more examples of configuration to the documentation.
- 2020/11/09
 - set exit status
- 2020/11/09
 - don't redefine `PicDisplay` configuration.
- 2020/11/06

- bug fix: remove custom elements from the NCX file in the Epub 3 format.
 - released version 0.3c
- 2020/09/07
 - released version 0.3b
- 2020/08/26
 - fixed hierarchical structure in NCX TOC for chapters in backmatter and appendix
 - load `common_domfilters` extension by default.
- 2020/07/09
 - added AZW and AZW3 format support.
- 2020/06/21
 - save `\title` element
 - save contents of `\author` in macro directly
- 2020/06/15
 - remove child elements from elements that don't allow them in the OPF and NCX file.
- 2020/03/14
 - explicitly list supported section types in the NCX table
- 2019/11/01
 - released version 0.3a
 - added `tex4ebook-` prefix to the output formats.
 - removed unused files.
- 2019/11/01
 - released version 0.3
- 2019/10/20
 - fixed the TOC cleanup in the ePub 3 mode.
 - added support for the `page-spread-left` and `page-spreat-right` properties.

- 2019/10/20
 - adapted to use the make4ht logging mechanism.
- 2019/10/06
 - fixed bug with void elements parsing in the OPF file.
 - undo `\XeTeXcharclass` for the `:` character when the OPF file is generated.
- 2019/09/16
 - make the default build sequence before loading of the extensions. Some extensions need to modify the build sequence.
- 2019/08/28
 - added support for reading input from STDIN.
- 2019/08/27
 - added support for the `--jobname` command line option.
- 2019/08/25
 - use the `mkparams.get_args` function to retrieve the command line options
- 2019/07/24
 - added support for the `\author` command with an optional argument
- 2019/05/09
 - added support for the `\title` command with an optional argument
- 2019/04/04
 - register appendix chapters and section in the OPF file list
 - fixed handling of appendices in the NCX table of contents
- 2019/03/21
 - released version 0.2c
- 2019/03/07
 - use `Luatexbase` package in the documentation because of `Microtype` error

- remove <guide> element even in ePub 2
 - added encoding attribute to XML declaration in the NCX and OPF files
 - clean the temporary directory (filename-format) before file packing
- 2019/01/21
 - added \Configure{@author}
- 2019/01/10
 - released version 0.2b
- 28/11/2018
 - added support for appendix sections to the NCX file
- 27/11/2018
 - use the uni-html4 option by default. It will convert some math characters as Unicode chars
- 13/11/2018
 - added -xetex option to the README
- 30/10/2018
 - use the original section numbering in TOC in the Epub 3 output. The numbering of the list is disabled by CSS.
- 18/10/2018
 - fixed the executable installation
- 03/09/2018
 - updated the --help message
- 30/08/2018
 - removed spurious \NoFonts command in the footnote configuration, it caused formatting issues in the document following a footnote
- 22/06/2018
 - added support for the output directory selection

- 09/05/2018
 - added support for Polyglossia language codes
 - released version 0.2a
- 03/05/2018
 - fixed output format handling
- 16/04/2018
 - don't run Git if the Makefile is executed outside of Git repo
- 09/04/2018
 - released version 0.2
- 06/04/2018
 - documented the configuration file
- 02/03/2018
 - added support for `.tex4ebook` configuration file
- 28/02/2018
 - added media overlays handling
- 19/10/2017
 - added support for XeTeX
- 06/10/2017
 - added support for Make4ht extensions
- 27/04/2017 Version 0.1e
 - pack the accumulated changes for distribution
 - set version number from git tag
- 17/01/2017
 - process duplicate images only once
 - check the OPF table for duplicated id attributes
- 11/01/2017

- pass settings table to the build file.
- 19/12/2016
 - new configuration: `\Configure{resettoclevels}{list of sectioning levels to be included in the NCX}`
- 31/10/2016
 - added tidyconf.conf to the Makefile
- 22/10/2016
 - added support for new Make4ht command `Make:add_file`
- 22/08/2016
 - fixed incorrect `<dc:creator>` generated by `\author`
 - clean ids in the OPF file if they contain invalid characters at the beginning
- 31/07/2016
 - use monospace font for command line options in order to prevent double hyphens to become dashes by ligaturing
- 22/07/2016
 - removed debugging message when `--lua` option is used
- 07/04/2016
 - Cut `\part` commands to standalone pages
- 05/04/2016
 - bug fix: pages which contained math were arranged before other pages
- 31/03/2016 Version 0.1d
 - bug fix: Unicode wasn't used by default
 - bug fix: Formats weren't preserved
- 06/12/2015 Version 0.1c
 - added `--help` and `--version` command line options
- 25/11/2015

- added missing language codes
- added `\Configure{DocumentLanguage}` for the cases when document language inferencing doesn't work
- 17/11/2015
 - use `mkparams` for cli arguments handling.
 - fixed inconsistencies between recent changes in `make4ht` and `tex4ebook`
- 24/09/2015 Version 0.1b
 - info about new workaround for `fontspec` package
- 25/08/2015
 - fatal error happened with `epub3` when the document didn't contain the TOC
- 23/08/2015
 - simple cleaning of the `ncx` file if `tidy` command isn't available
- 05/07/2015 Version 0.1a
 - `tex4ebook` script was missing in the distribution zip file
 - all links moved to footnotes in the documentation
- 29/06/2015 Version 0.1
 - fixes in documentation
- 22/06/2015
 - changes moved from `README.md` to `CHANGELOG.md`
- 18/06/2015
 - replaced `--mathml` option with `--mode`. For `mathml` support, use `mathml` option for `tex4ht.sty`.
 - lot of stuff was fixed in `epub3` support.
 - new command `\OpfAddProperty`
- 14/01/2015
 - thanks Volker Gottwald for guide on [installing and using `tex4ebook`] (<https://d800fotos.wordpress.com/2015/01/19/create-e-books-from-latex-tex-files-ebook-aus-latex-tex-dateien-erstellen/>) on Windows

- 23/11/2014

- added new command `\OpfGuide`, for adding items to `<guide>` section in the `opf` file. This is useful for `epub` and `mobi` formats.

Usage:

```
\OpfGuide[filename]{title}{reference type}
```

`filename` is optional, current file name is used when empty. See [\[epub secrets\] \(http://epubsecrets.com/where-do-you-start-an-epub-and-what-is-the-guide-section-of-the-opf-file.php\)](http://epubsecrets.com/where-do-you-start-an-epub-and-what-is-the-guide-section-of-the-opf-file.php) article

- 20/10/2014

- fixed issues with starred sections
- files created with starred sectioning commands (`\chapter*`, `\section*`) should be included in correct reading order now

- 16/09/2014

- new features added
- new configuration file for `--tidy` option, `mathml` and `html5` elements are supported. This means that many validation errors in `mathml` output can be fixed with `--tidy` option
- added configuration for all languages supported by `babel`
- `woff` and `ttf` fonts are supported
- added inline footlines in `epub3` format
- added `no-cut` command line option for breaking sections and chapters into standalone pages
- Please support [\[initiative for improving mathml support\] \(http://www.ulule.com/mathematics-ebooks/\)](http://www.ulule.com/mathematics-ebooks/) in Gecko and Webkit engines. This will hopefully improve also Epub3 readers.

- 10/08/2013

- `[make4ht]` (<https://github.com/michal-h21/make4ht>) is now standalone application which `tex4ebook` depends on. You must `[install`

`it]` (<https://github.com/michal-h21/make4ht#instalation>) in order to use current `tex4ebook` version.