

CHIP (Convert HTML Into ePub)

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Overview

CHIP is a utility designed to convert a standalone HTML document into a fully formatted ebook in ePub format. **CHIP** integrates directly into the Windows file explorer context menu. When installed, right-clicking any .htm or .html file will provide the option **Convert to ePub**. The generated output file shares the base name of the input file with an .epub extension and is saved in the same directory.

Features

- **Detects Chapters/Sections:** Automatically assigns chapter names from headings and embeds each chapter separately into the ePub package.
- **Named HTML Entities:** Named HTML entities, like Ä (Ä) or &a1pha; (α), are automatically encoded as UTF-8 characters.
- **Table of Contents Generation:** Both EPUB2 and EPUB3 compliant navigation files are automatically generated and embedded.
- **Asset Embedding:** Images referenced within the HTML are automatically detected and embedded directly into the ePub package.
- **EPUB Compliance:** Output complies with the EPUB v3.3 rules of the w3c [EPUBCheck conformance checker](#).

License

CHIP is free to use and is released under the terms of the [GNU Affero General Public License](#) (AGPL), a copy of which is included in the downloads.

Installation and Usage

- **Installation:** Extract the files to a folder of your choice. There is no additional installation procedure needed.
- **Setup:** Double click on the executable (run it without any arguments) to manage its context menu integration. It will ask whether you would like to use it as a context menu option for .htm and .html files. The context menu integration will be installed or removed accordingly.
- **Context Menu:** Right-click any .htm or .html file and select **Convert to ePub**. (*Note: On Windows 11 you may need to first select **Show more options**.*)

HTML Document Structure

Head Elements

CHIP reads specific metadata and styling tags from the document <head> to construct the ebook's properties:

- **<title>...</title>**: Sets the main title of the ebook.
- **<meta> elements**: Defines core bibliographic metadata:
 - `<meta name="author" content="..." />`
 - `<meta name="publisher" content="..." />`
 - `<meta name="date" content="..." />`
 - `<meta name="summary" content="..." />`
 - `<meta name="isbn" content="..." />`*Note: If the ISBN is omitted, a unique ID (UUID) is automatically assigned.*
- **<style>...</style>**: Embedded stylesheet for custom styling.
- **<link rel="stylesheet" href="...">**: Links a single external stylesheet.

Body Requirements

- **Chapters and Sections**: Each chapter or section must be wrapped inside a top-level <div> element.
- **Table of Contents (ToC)**:
 - A <div> with a title attribute (eg <div title="Chapter 1">) uses that value for the ToC without rendering it as visible text on the page.
 - Alternatively, any header element (<h1> through <h9>) placed immediately inside a <div> will serve as both the visible chapter title in the text and the entry in the ToC.
 - *Exclusion*: If a section contains no title, it will be omitted from the Table of Contents.

Cover Image

A cover image is designated using a specific <div> structure with a title attribute of **cover**. For example:

```
<div title="cover" style="text-align:center;">  
    
</div>
```