

PDF Converter

A simple and powerful Python script to convert Markdown and HTML files to PDF format.

Features

- Convert Markdown (.md) files to PDF
- Convert HTML files to PDF
- Beautiful default styling with GitHub-flavored theme
- Support for:
 - Code blocks with syntax highlighting
 - Tables
 - Images
 - Links
 - Headings
 - Blockquotes
 - Task lists
 - And more!

Installation

1. Install Dependencies

```
pip install -r requirements.txt
```

Or install manually:

```
pip install markdown2 weasyprint
```

2. Make the Script Executable (Optional)

```
chmod +x convert_to_pdf.py
```

Usage

Basic Usage

Convert a Markdown file to PDF:

```
python3 convert_to_pdf.py README.md
```

This will create `README.pdf` in the same directory.

Specify Output File

```
python3 convert_to_pdf.py input.md output.pdf
```

Convert HTML to PDF

```
python3 convert_to_pdf.py document.html report.pdf
```

Help

```
python3 convert_to_pdf.py --help
```

Examples

Example 1: Convert README to PDF

```
python3 convert_to_pdf.py README.md  
# Creates: README.pdf
```

Example 2: Convert with Custom Output Name

```
python3 convert_to_pdf.py documentation.md final-report.pdf  
# Creates: final-report.pdf
```

Example 3: Convert HTML File

```
python3 convert_to_pdf.py webpage.html webpage.pdf
# Creates: webpage.pdf
```

Styling

The converter includes beautiful default styling:

- **Typography:** Clean, readable fonts (system fonts: -apple-system, Segoe UI, Roboto, etc.)
- **Code:** Syntax-friendly monospace font with light gray background
- **Tables:** Bordered tables with header styling
- **Headings:** GitHub-style headings with bottom borders for H1 and H2
- **Links:** Blue hyperlinks
- **Blockquotes:** Left-bordered quotes with gray text

Custom Styling

For HTML files, you can include your own CSS styles directly in the HTML file.

For Markdown files, you can modify the styling template in the `convert_markdown_to_html()` function inside `convert_to_pdf.py`.

Supported Markdown Features

- Headers (H1-H6)
- Bold, italic, strikethrough
- Links and images
- Ordered and unordered lists
- Task lists (- ☐ and - [x])
- Code blocks (with triple backticks)
- Inline code
- Tables
- Blockquotes

- Horizontal rules

Requirements

- Python 3.6+
- markdown2 >= 2.4.0
- weasyprint >= 60.0

Troubleshooting

Import Errors

If you see import errors, make sure dependencies are installed:

```
pip install markdown2 weasyprint
```

Font Issues

WeasyPrint requires system fonts. On Linux, you may need to install font packages:

```
# Ubuntu/Debian
sudo apt-get install fonts-liberation

# Fedora
sudo dnf install liberation-fonts
```

Large Files

For very large files, the conversion may take some time. The script will display progress messages.

Technical Details

- **Markdown Processing:** Uses `markdown2` library with extras for enhanced features

- **PDF Generation:** Uses `weasyprint` library for high-quality PDF rendering
- **HTML Template:** Auto-generates a complete HTML document from Markdown with embedded CSS

License

This script is provided as-is for use in your projects.

Contributing

Feel free to modify and extend the script for your needs. Common customizations:

1. Add custom CSS themes
2. Support additional input formats
3. Add page numbering or headers/footers
4. Include table of contents generation
5. Add watermarks or branding

Version

Current version: 1.0.0