pdf22md



A blazingly fast PDF to Markdown converter for macOS

pdf22md is a command-line tool that extracts all text and image content from a PDF file and converts it into a clean Markdown document. It uses Grand Central Dispatch (GCD) to process pages and save images in parallel, making it exceptionally fast for multi-page documents.

Key Features

- High-Speed Conversion: Uses all available CPU cores to process PDF pages concurrently
- Intelligent Heading Detection: Analyzes font sizes and usage frequency to automatically format titles and headings (#### etc.)
- Asset Extraction: Saves raster and vector images into a specified assets folder and links them correctly in the Markedown file.
- Smart Image Formatting: Automatically chooses between JPEG (for photos) and PNG (for graphics with transparency) to optimize file size and quality
- Flexible I/O: Reads from a PDF file or stdin and writes to a Markdown file or stdout
- Customizable Rasterization: Allows setting a custom DPI for converting vector graphics to bitmaps

Installation

Using Homebrew (Coming Soon)

```
brew tap twardoch/pdf22md
brew install pdf22md
```

Building from Source

To build the project manually, you need Xcode Command Line Tools installed.

```
# Clone the repository
git clone https://github.com/twardoch/pdf22md.git
cd pdf22md
# Compile the tool
make
# Install it to /usr/local/bin (optional)
sudo make install
```

Download Pre-built Binary

Pre-built binaries are available from the Releases page.

Usage

```
Usage: pdf2Zmd [-i input.pdf] [-o output.md] [-a assets_folder] [-d dpi]
Converts PDF documents to Markdown format
-1-qath: input PDF file (default: stdn)
-0-qath:: Output Markdown file (default: stdout)
-a-qath:: Ostput Markdown file (default: stdout)
-a-qath:: Assets folder for extracted images
-d <dpi>-d dpi: DPI for rasterizing vector graphics (default: 144)
```

Examples

```
# Convert a PDF file to Markdown
pdf2zind =1 document.pdf =0 document.nd

# Convert with images saved to an 'assets' folder
pdf2zind =1 report.pdf =0 report.nd =0 ./assets

# Convert with custom DPI for vector graphics
pdf2zind =1 presentation.pdf =0 presentation.nd =0 ./images =0 300

# Use with pipes

act document.pdf | pdf2zind > document.nd

# Convert and view in less
pdf2zind =1 manual.pdf | less
```

Requirements

- macOS 10.15 (Catalina) or later
- . Xcode Command Line Tools (for building from source)

Project Structure

23/06/2025, 01:33 README.md

├ LICENSE # MIT License ├ Makefile # Build configuration └ README.md # This file

Contributing

Contributions are welcome! Please feel free to submit a Pull Request. For major changes, please open an issue first to discuss what you would like to change.

- 1. Fork the repository
- 2. Create your feature branch (git checkout -b feature/AmazingFeature)
- 3. Commit your changes (git commit -m 'Add some AmazingFeature')
- 4. Push to the branch (git push origin feature/AmazingFeature)
- 5. Open a Pull Request

License

This project is licensed under the MIT License - see the <u>LICENSE</u> file for details.

Acknowledgments

- · Built with Apple's PDFKit and Core Graphics frameworks
- Parallel processing powered by Grand Central Dispatch (GCD)
- . Inspired by the need for fast, accurate PDF to Markdown conversion

Related Projects

- pdfplumber Python library for PDF processing
- · pdf2md Another PDF to Markdown converter
- pandoc Universal document converter

Changelog

See CHANGELOG.md for a list of changes in each version.

Support

If you encounter any issues or have questions, please open an issue on GitHub.