Convert File Formats Using Pandoc

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Mathematical formulas and pictures can be converted successfully! - Convert Latex to other formats - Convert other formats to PDF

Convert Latex to other formats

Steps

Step 1. Install the latest pandoc - Pandoc installer - For Windows system, download pandoc-3.1.11-windows-x86_64.msi

Step 2. Run in cmd: `pandoc -s "input_file.format"-o "output_file.format"` - Remember to assign desired filename extension behind the input & output files - Convert Latex to Word: `pandoc -s "input_file.tex"-o "output_file.docx"` - Convert Latex to Markdown: `pandoc -s "input_file.tex"-o "output_file.md"`

Convert other formats to PDF

Alternative way: no pandoc

- 後來發現用 VScode 上的套件比較快: Markdown PDF
- 自行更改 `markdown-pdf.css` 到 `Settings.json`

Steps

Step 1. Install the latest pandoc - See the above.

Step 2. Install a LaTeX distribution - (Not recommended) Download the network install from the official website: TeX Live (it involves downloading and installing required files from the source server, which may take several hours). - (Recommended) Download the pre-packaged installation image (*.iso) at once: - Enter 清华大学镜像站 and download `texlive2024.iso` - Open the downloaded ISO file and double-click `install-tl-windows.bat` to install.

Step 3. Find a valid Chinese font (if the document has Chinese) - Run in cmd to see the available Chinese font: `fc-list :lang=zh` The font name follows the font file location. For example, `C:/WINDOWS/Fonts/mingliu.ttc`: `MingLiU`,細明體:`style`=`Regular`, font name is called MingLiU. - Or download more fonts: Google Fonts / DaFont

Step 4. Set styling for the output pdf - Download the `head.tex` into the same folder with your `input`
`.md` to render document styles.

```
 1  \usepackage{fancyvrb,newverbs}
 2  \usepackage{hyperref}
 3  \usepackage[top=2cm, bottom=1.5cm, left=2cm, right=2cm]{geometry}
 4
 5  % change background color for inline code
 6  \definecolor{bgcolor}{HTML}{E0E0E0}
 7  \let\oldtexttt\texttt
 8  \renewcommand{\texttt}[1]{
 9    \colorbox{bgcolor}{\oldtexttt{#1}}
10  }
11
12  %% color and other settings for hyperref package
13  \hypersetup{
14    bookmarksopen=true,
15    linkcolor=blue,
16    filecolor=magenta,
17    urlcolor=RoyalBlue,
18  }
```

- Or download an existing LaTeX template: follow how to set up Latex template

Step 5. Run in cmd: `pandoc "input_file.format"-o "input_file.format"--pdf-engine=xelatex -V mainfont='font_name'` - Convert Markdown to PDF using custom styling: `pandoc README.md -o README.pdf --pdf-engine=xelatex -V CJKmainfont='PMingLiU'-V mainfont='Times New Roman'-H head.tex` - Convert Markdown to PDF using an existing template (Eisvogel is used here): `pandoc README.md -o README.pdf --pdf-engine=xelatex -V CJKmainfont='PMingLiU'-V mainfont='Times New Roman'--from markdown --template eisvogel --listings`

Reference

About TeX Live installation - Pandoc with Chinese - 安裝 TeX Live 镜像

About rendering styles in TeXLive - Eisvogel: pandoc-latex-template - customizing-pandoc

<!-- head.tex 中的指令 1 - head.tex 中的指令 2 -!>