

Cross references

Tools for writing science

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January 31, 2022

Previously in “Tools for writing”

The most important idea is *Structure*

- Structure in your folder
- Structure in your document
 - Can be done in Word, Google Docs, and Markdown
 - I think it is easier in Markdown, once you learn

Tools

- VSCode, by Microsoft
- Pandoc, by John MacFarlane
- Command line (a.k.a shell)
 - Linux and Mac use Unix Shell
 - Windows use `cmd` or `PowerShell`
 - You can have a Unix Shell in Windows
 - Git Bash
 - Windows Subsystem for Linux

We need a little bit of *command line*, but it is good for you to learn it

Watch in YouTube “The missing semester”

Document structure

We want to identify the *meaning*, not the *shapes*

- Title
- Sections
 - Subsections
 - Lists
 - Figures
 - Tables
- References to other works

Practice

Compiling Markdown to HTML is fast. Good for practice

```
pandoc example.md -o example.html  
pandoc --citeproc --bibliography references.bib example.md -o example.html
```

- Making picture smaller, using *attributes*
- Use metadata for bibliography
- See *source HTML*

Self contained documents

```
pandoc --citeproc --self-contained example.md -o example.html
```

- Add title
- Changing citation style
 - Citation Style Language
 - Zotero Style Repository
 - Chicago, APA, MLA, IEEE, Nature, Harvard

VSCode extensions

- Press `Ctrl-Space`
- Put brackets (`[]`) around bibliography filename
- Enable *Pandoc Citer*
- Press `Ctrl-Space` after `@`

Word

Simply use `.docx` extension in the output file

```
pandoc --citeproc --self-contained example.md -o example.docx
```

Word documents are automatically self-contained

```
pandoc --citeproc example.md -o example.docx
```

Close the Word document before compiling a new version

Reference documents

```
pandoc --filter=pandoc-xnos --citeproc --number-sections --reference-doc=template.docx example.md -o example.docx
```

Get a base template with

```
pandoc --print-default-data-file reference.docx -o custom-reference.docx
```

Edit the styles in `custom-reference.docx` and use it as
`--reference-doc`

Other recommended VSCode extensions

- Code Spell Checker
 - Extra languages can be installed
- Markdown Footnotes
- Markmap: visualize your document
- Pomodoro Timer
- Remote - SSH
- Excel to Markdown table

Thanks for your attention