Markdown and Pandoc

Writing at the Command Line

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Why not just use PowerPoint/Word?

- Not great for anything but text/image-only documents
 - You really shouldn't be typesetting your 15-151 homework in Word
- Heavyweight
- Can't use your favorite text editor
- Proprietary & closed source



I guess we could use LaTeX...

- Fantastic for typesetting math
- Hard to learn
- Lots of boilerplate
 - Can't just open a new file and begin writing
- Verbose

\begin{theorem}[Fermat's little theorem]

If p is a positive prime and p perp a, then $a^{p-1} \neq 0$.

\begin{proof}

\end{theorem}

Assume hypothesis.

Consider $S = \{(a, 2a, 3a, \{dots, (p - 1)a \}\}$. No pair of numbers in \$S\$ are congruent |mod p|. We know this because $a \neq a = a$, and $a \neq b = a$. We know to be false since $a \neq a = a$. Which we know to be false since $a \neq a = a$. Which we know to be false by the hypothesis.

We know that each number in \$\$\$ is congruent to exactly one number in \$\{1, 2, \dots, p - 1 \}\$, and vice versa.

Solution: Markdown!

- Easy to learn
- Simple and concise
- Just plaintext
 - Open
 - Editable in vim, emacs, etc. :)
 - Even editable in ed the standard editor

Demo



Solution: Markdown...?

Solution: Markdown & Pandoc!

- Easy to learn
- Simple and concise
- Just plaintext
 - Open
 - ► Editable in vim, emacs, etc. :)
 - Even editable in ed the standard editor
- Easy to convert to many formats
 - Just one terminal command away!

Pandoc

- Requires installing pandoc and a local LaTeX interpreter
 - e.g. brew install pandoc and brew install mactex if you don't already have a LaTeX interpreter installed
 - Installing LaTeX will take a while
- Can easily convert Markdown files to LaTeX, documents, slideshows, etc.
- You can use LaTeX in your Markdown document if you want
 - Great for typesetting math

Demo



https://blog.jez.io/reach-for-markdown

