

1. Fun with typst

The typst program is pretty neat!

- Extremely fast incremental recompile
- Easier syntax
- Markup includes a well-designed scripting language (vs. LaTeX's macro system; akin to the difference between using macros in the C preprocessor vs. functions)

Circles \bigcirc are easy to embed, along with equations like $E = mc^2$ and $a^2 + b^2 = c^2$ and $\sum_{k=0}^{\infty} \frac{1}{k^2} = \frac{\pi^2}{6}$. Or on its own line:

$$\mathbf{T}(\theta) = \begin{bmatrix} \cos \theta & -\sin \theta \\ \sin \theta & \cos \theta \end{bmatrix}$$

- typst program: <https://github.com/typst/typst/releases/tag/22-03-21-2>
- vscode language files for syntax highlighting at <https://github.com/typst/typst/tree/main/tools/support>

- Download the vscode support files

```
mkdir typst-vscode
cd typst-vscode
git clone --filter=blob:none --sparse https://github.com/typst/typst .
git sparse-checkout add tools/support
```

- In VSCode:
 - Shift-Ctrl-P
 - select “Developer: Install Extension from Location”
 - select the tools/support directory you got from git
- Run `typst --watch MYFILE.typ` in a terminal in VS Code
- Install `vscode-pdf` extension for viewing pdf