

# 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

## 1.1. Listing 1 - Changing Font in Excel with TypeScript

### 1.1.1. 2.1 Example Subsection

This is a sample subsection under 2.1.

## 2. Kod

### 2.1. Detailed Example

This is a detailed example under subsection 2.1.1.

```
// TypeScript code to change the font of all cells to Calibri in an Excel
worksheet
import Excel from 'exceljs';

async function changeFontToCalibri(workbookPath: string): Promise<void> {
  try {
    // Load the workbook
    const workbook = new Excel.Workbook();
    await workbook.xlsx.readFile(workbookPath);

    // Iterate through all the worksheets in the workbook
    workbook.eachSheet((worksheet) => {
      // Iterate through all rows in the worksheet
      worksheet.eachRow((row) => {
        // Iterate through all cells in each row
        row.eachCell((cell) => {
          // Set the font of the cell to Calibri
          cell.font = {
            name: 'Calibri',
          };
        });
      });
    });

    // Save the workbook after modifications
    await workbook.xlsx.writeFile(workbookPath);
    console.log('Font changed to Calibri for all cells successfully.');
```

} catch (error) {
 console.error('An error occurred:', error);
 }
 }
}

// Usage
const workbookPath = 'path/to/your/excel/file.xlsx';
changeFontToCalibri(workbookPath);

Listing 1: Listing 1: Changing Font in Excel with TypeScript

That’s how easy it is to add a code snippet into a typst document!