

# My First LaTeX Document

A Starter Template for VS Code + GitHub

Your Name

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## Contents

## 1 Introduction

Welcome to your local L<sup>A</sup>T<sub>E</sub>X environment! This setup gives you an **Overleaf-like experience** right inside VS Code:

- **Auto-compile on save** — just press **Ctrl+S**
- **Side-by-side PDF preview** — click the magnifying glass icon
- **SyncTeX** — **Ctrl+Click** on the PDF to jump to source
- **Git integration** — commit and push from the sidebar
- **Spell & grammar check** — powered by LTeX

## 2 Mathematics

Here's the famous Euler's identity:

$$e^{i\pi} + 1 = 0 \tag{1}$$

And the quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \tag{2}$$

**Theorem 2.1** (Pythagorean Theorem). *For a right triangle with legs  $a$ ,  $b$  and hypotenuse  $c$ :*

$$a^2 + b^2 = c^2$$

## 3 Tables and Figures

Table 1: A sample table

Feature	Overleaf	VS Code + LaTeX Workshop
Auto-compile	✓	✓
PDF preview	✓	✓
Git integration	Limited	Full
Offline work	✗	✓
Free	Partial	✓

## 4 Getting Started with GitHub

1. Create a repository on [GitHub](#)
2. Add the remote: `git remote add origin <URL>`

3. Stage, commit, and push:

```
git add .
git commit -m "Initial commit"
git push -u origin main
```

Or simply use the **Source Control** panel in VS Code's sidebar!

## 5 Useful Shortcuts

**Ctrl+S** Save and auto-compile

**Ctrl+Alt+V** Open PDF preview

**Ctrl+Click on PDF** Jump to source (SyncTeX)

**Ctrl+Shift+G** Open Git panel

**Ctrl+Space** Trigger LaTeX IntelliSense

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