

VISUAL STUDIO CODE

IDE Selection Choose a Python Integrated Development Environment (IDE) from the following options:

Visual Studio Code (VS Code) or Jupyter Notebook.

Install the selected IDE on your computer.

Both Visual Studio Code (VS Code) and Jupyter Notebook are excellent options for Python development, but they serve slightly different purposes. Here's a brief comparison to help you decide:

- **Visual Studio Code (VS Code)**

Pros

- Powerful and versatile editor with extensive language support.
- Rich ecosystem of extensions for debugging, linting, version control, and more.
- Integrated terminal and support for remote development.
- Good for larger projects and general-purpose coding.

Cons

- Slightly steeper learning curve for beginners.
- Requires configuration for optimal use.

- **Jupyter Notebook**

Pros

- Excellent for data science, machine learning, and educational purposes.
- Interactive and visual, making it great for exploratory data analysis.
- Easy to use for beginners.
- Allows for mixing of code, markdown, and visualizations.

Cons

- Not as suitable for larger, production-level projects.
- Less support for non-Python languages.

INSTALLATION INSTRUCTIONS

Visual Studio Code (VS Code)

1. **Download:** Go to the [official VS Code website] [Visual Studio Code - Code Editing. Redefined](https://code.visualstudio.com/) (<https://code.visualstudio.com/>) and download the installer for your operating system.
2. **Install:** Run the installer and follow the instructions.
3. **Python Extension:** After installation, open VS Code and install the Python extension from the Extensions marketplace.

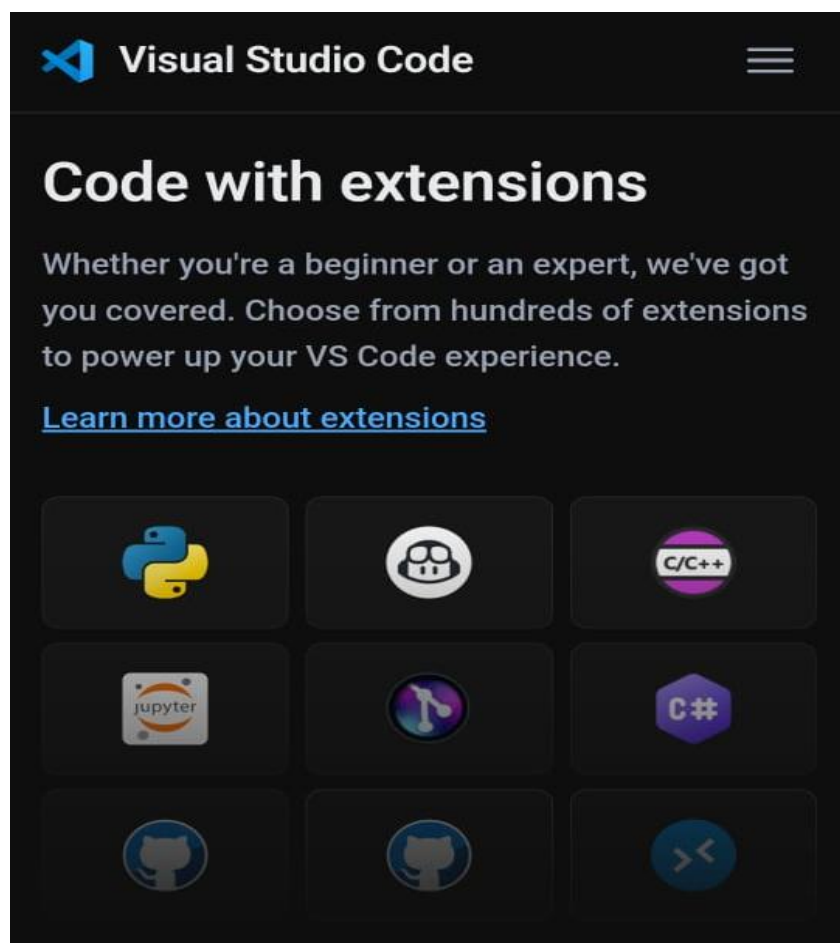
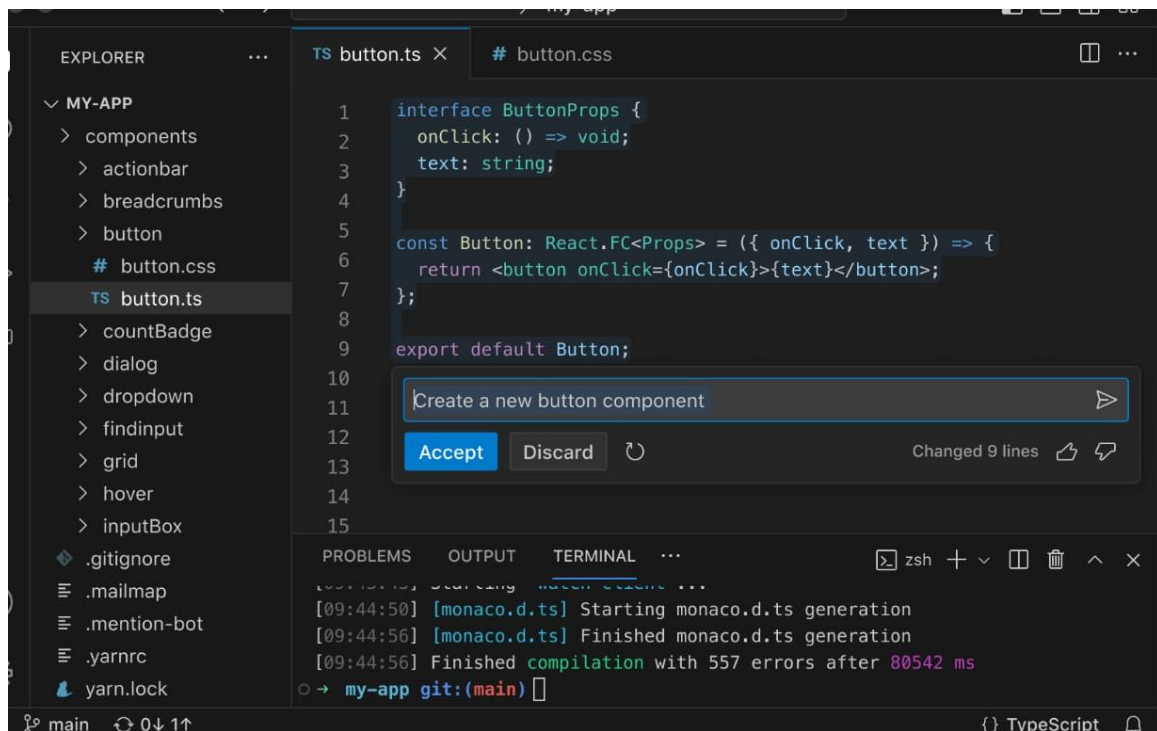
Jupyter Notebook

1. **Anaconda Distribution:** The easiest way to install Jupyter Notebook is through the Anaconda distribution, which includes Jupyter and many other useful packages.
2. **Download:** Go to the [Anaconda website] (<https://www.anaconda.com/products/individual>) [GETTING STARTED WITH ANACONDA INDIVIDUAL EDITION](#) and download the installer for your operating system.
3. **Install:** Run the installer and follow the instructions.

Launch Jupyter Notebook

Open Anaconda Navigator and launch Jupyter Notebook from there. Alternatively, you can install Jupyter Notebook using pip if you already have “Python installed”:

1. Open a terminal or command prompt.
 2. Run the command: `pip install notebook`
 3. After installation, start Jupyter Notebook by running the command: `jupyter notebook`
- ❖ Both tools are valuable, but the best choice depends on your specific needs and workflow.
 - ❖ If you're still undecided, you might consider starting with Jupyter Notebook for its ease of use and interactive nature, especially if you're focusing on data science or learning Python.
 - ❖ You can always install and use both as they complement each other well.



```

1  // Determine whether the sentiment of text is positive
2  // Use a web service
3
4  async function isPositive(text: string): Promise<boolean> {
5      const response = await fetch(`http://text-processing.com/api/sentiment/`, {
6          method: 'POST',
7          body: `text=${text}`,
8          headers: {
9              'Content-Type': 'application/x-www-form-urlencoded',
10         },
11     });
12     const json = await response.json();
13     return json.label === 'pos';
14 }

```

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Visual Studio Code



Build tasks

Run tools and analyze their results from within VS Code.



Local history

Never lose your changes with automatically tracked local history.



Themes

Your theme is an extension of your personality. Add some flair to your editor and add your touch.



Accessibility

Optimized experience for screen readers, high contrast themes, and keyboard-only navigation.



Web support

Whether you are on your phone, tablet, or desktop, you can access your code from anywhere.