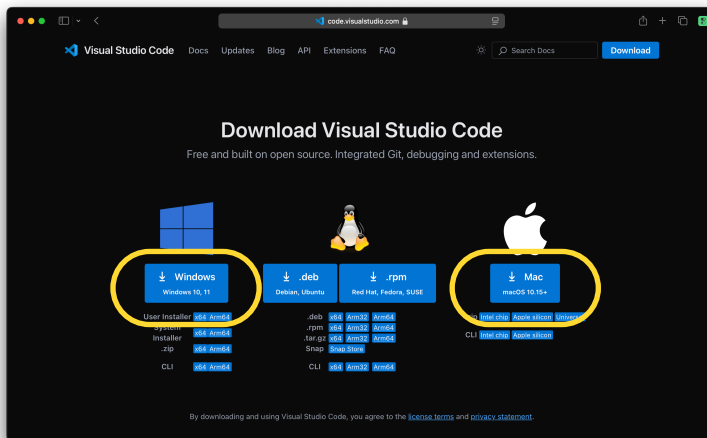# Setup Visual Studio Code

For this project, it has been recommended that we work inside of Visual Studio Code (VS Code for short) for its flexibility and ease of use or something like that. The software is available for both Mac and Windows and supports lots of really useful extensions.

Download Visual Studio Code

To download VS Code, go to https://code.visualstudio.com/download and select the download button for your operating system. *If you are using Linux, go get help somewhere else.*

The large download buttons underneath each operating system icon will download a universal build of visual studio code or its setup wizard. (Recommended)

If you need to download the zip and you don't know what version you need, you can check your computer's details to find out.

On Mac:
1. Click .
2. Click About This Mac.
3. Your Chip will ether be Intel something or Apple M-something. For an Intel mac, you will want to download the Intel chip version. Otherwise, you want the Apple Silicon version of VS Code.

On Windows:
1. Open the Settings App.
2. Go to System, then select About.
3. Next to System Type, you will see x86-based, x64-based, or Arm-based processor listed. If you are using an x86 machine… you need a new computer. Otherwise select your respective version of VS Code to download.
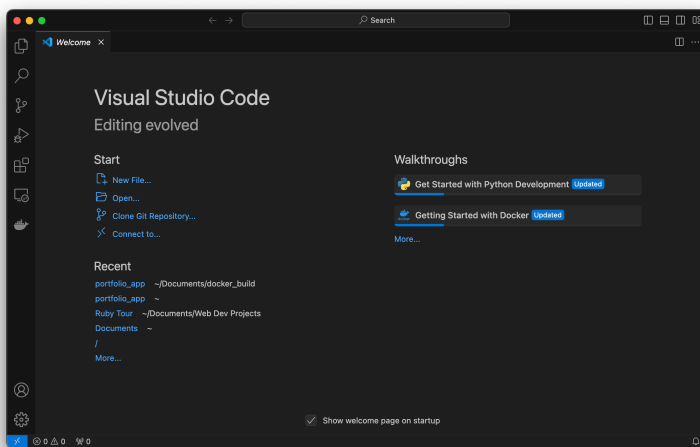
Install Visual Studio Code

On Mac:
1. The VS Code app is ready go to after downloading and does not require any installation.
2. Optionally, move the app from your downloads folder to your applications folder in Finder.
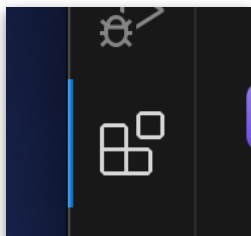
On Windows:
1. Open the visual studio setup .exe you downloaded.
2. Go through the options in the setup wizard.

Once downloaded and opened, VS Code should look something like the figure to the left. You may be prompted to log in, I literally don't care what you do with that.

Install Required Extensions

Before we can get to the rest of the project in this class, there are a few extensions we will need in VS Code.

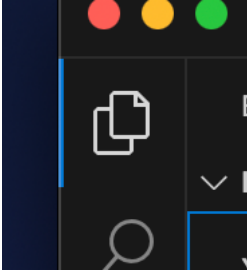To install extensions in VS Code:
1. Navigate to the extensions browser by clicking on it's icon in the side bar. (Shown here to the left)
2. Search for "Docker", then select it from the list.
3. Click install.
4. Repeat step 2 and 3 for "Dev Containers" and "SQLite Viewer".

The Docker extensions connects VS Code to the Docker Desktop, the Dev Containers extension helps you use containers as development environments, and the SQLite Viewer extension lets you… view SQLight databases.

Open The Project Folder

VS Code is super cool because it can keep up with your whole project and even synchronizes with git to show what files are changing and how.
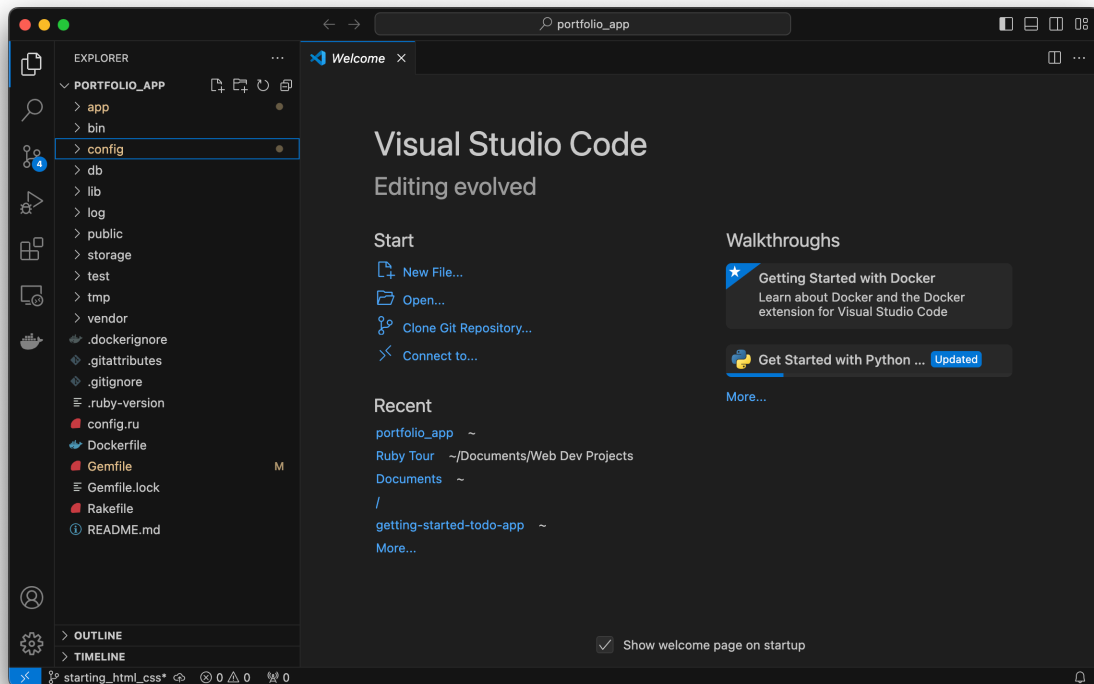
ATTENTION: This step can only be completed after building the image in a project folder you created as part of the class.

To open your project folder:
1. Click on the folders tab in the side bar (Shown left).
2. Select Open Folder.
3. Find the folder you created for this project and select it.

After opening your project folder in VS Code, you should be able to see all of the folders contained inside listed in the explorer bar, as shown below.
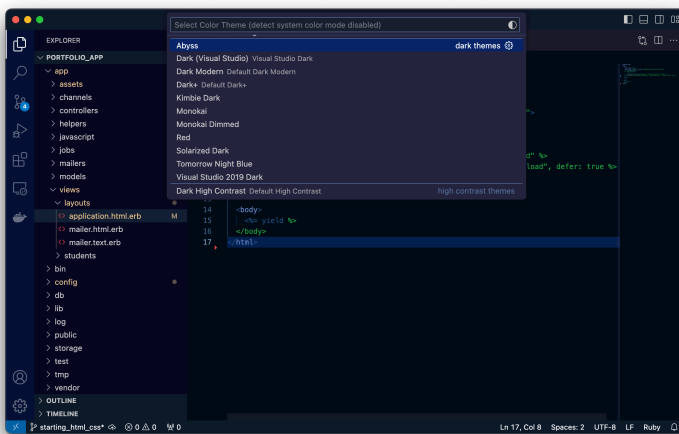
Fun Extras

Rearrange Your Side Bar

You can rearrange the icons in the side bar of VS Code by clicking, holding, and dragging the icons up and down on the list.

Change Your Theme

On Mac:
Press ⌘ + K, then ⌘ + T to open the color theme picker.

On Windows:
Press Ctrl + K, then Ctrl + T to open the color theme picker.

From there, you can use your directional pad to move through the list and preview each them or select "Browse Additional Color Themes…" to see more options.

Keyboard Shortcuts

You can find a list of keyboard shortcuts for VS Code…
   For Mac:
      https://code.visualstudio.com/shortcuts/keyboard-shortcuts-macos.pdf
   For Windows:
      https://code.visualstudio.com/shortcuts/keyboard-shortcuts-windows.pdf