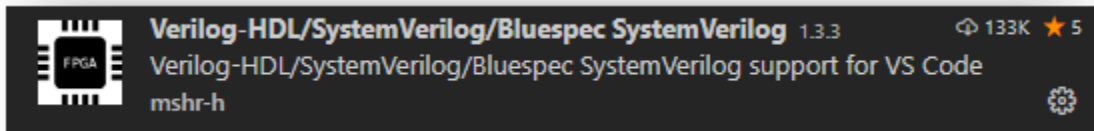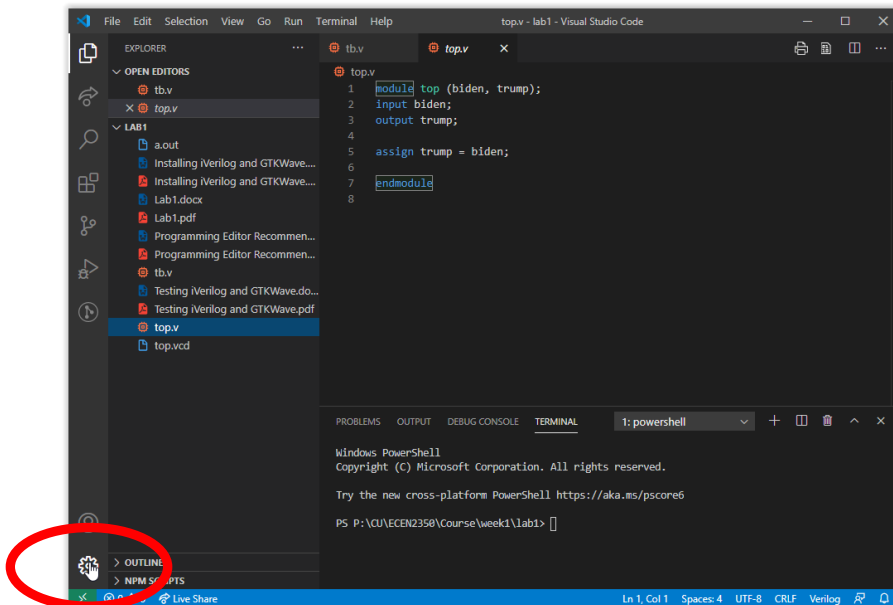# Configuring Virtual Studio Code for Use with Verilog

If you have iVerilog installed on your computer, you should be able to enhance Visual Studio Code (VS Code) to provide additional capabilities when programming in Verilog.
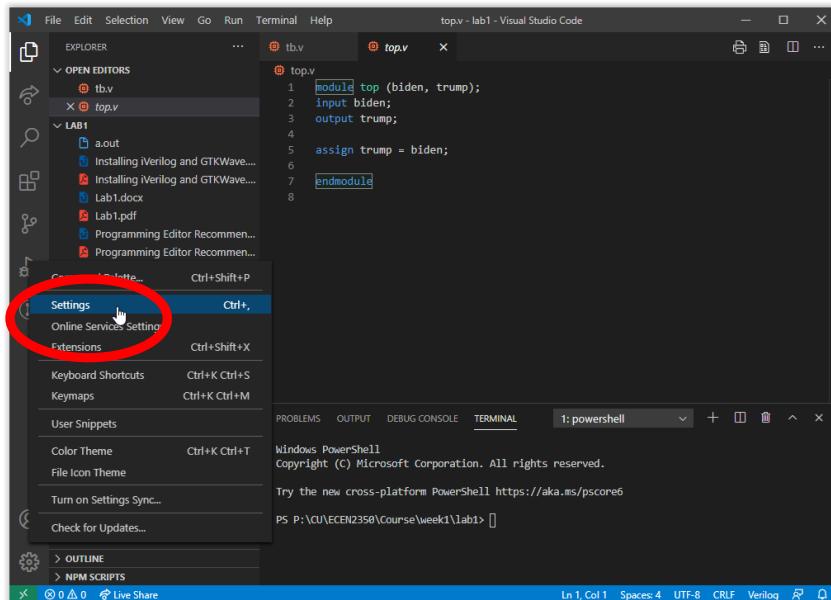
1. Begin by confirming that you have installed the Verilog-HDL / SystemVerilog / Bluespec SystemVerilog extension in VS Code. If you have not installed this extension, go to View > Extensions in VS Code, and in Search Extensions in Marketplace type the word verilog, and you see the extension as shown below. Install this extension.
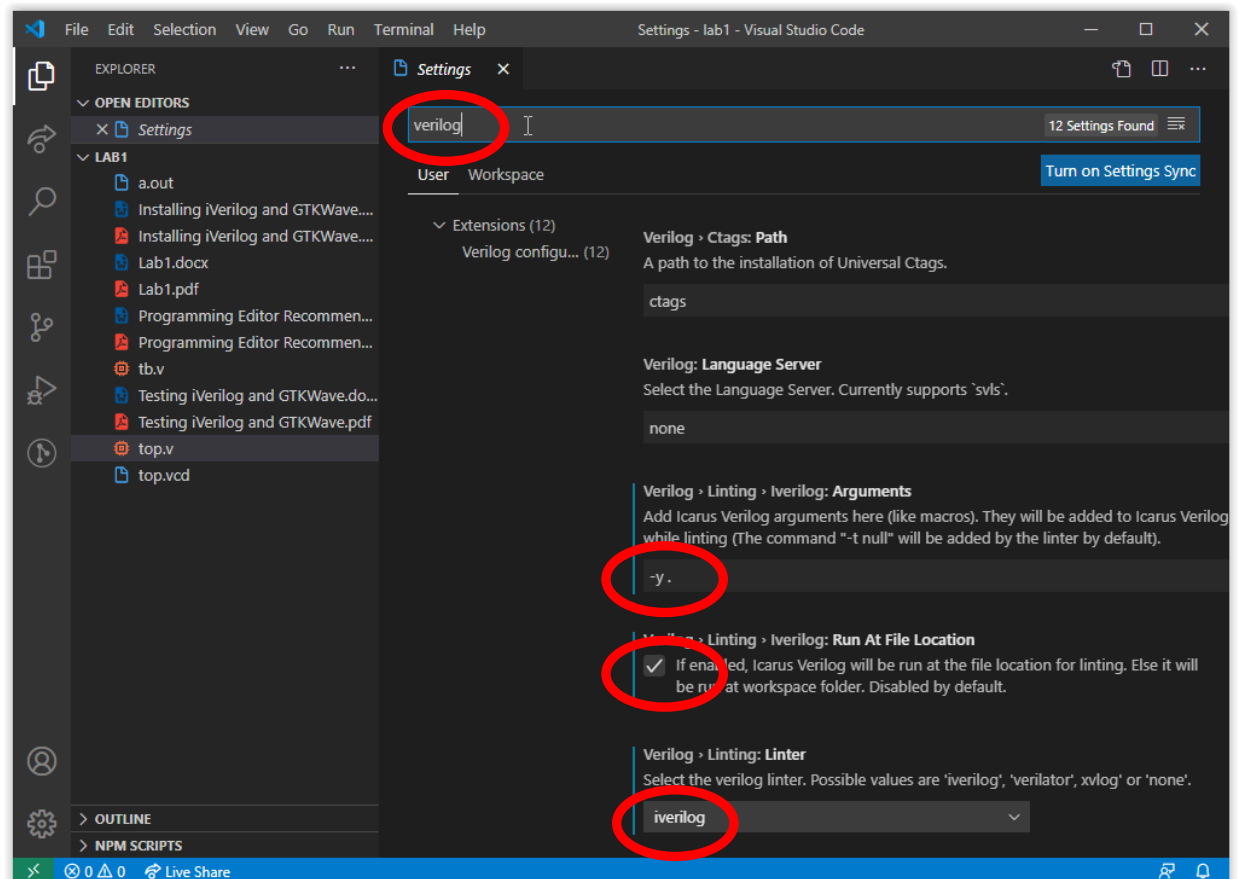

2. Open VS Code and click on the Manage icon in the lower left corner of the screen.

3. Select Settings

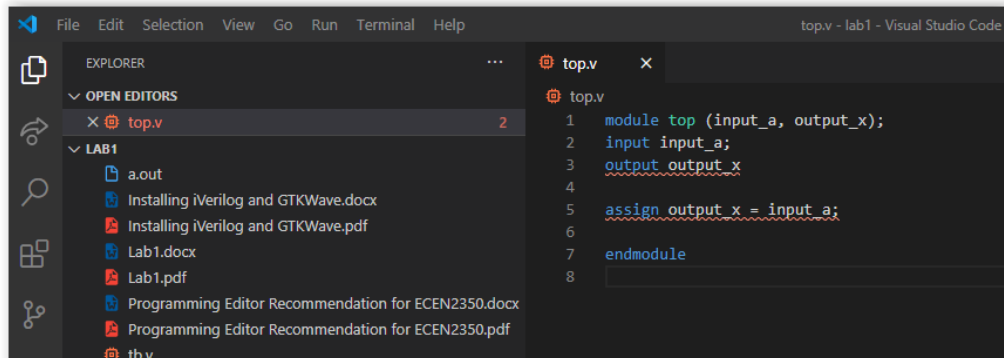3. In the Search settings bar, type the word verilog

In Verilog >Linting > Iverilog: Arguments, type the following exactly as show here, with a space after the y charcter: -y .

In Verilog >Linting > Iverilog: Run At File Location, check the box

In Verilog > Linting: Linter, select Iverilog from the dropdown menu.

4. Close the Settings tab

Now, VS Code will provide indications whenever you make typing mistakes or other typical errors. Here is an example of highlighting that is the result of a missing semicolon:

VS Code will recognize any file that has a .v or .sv extension as a Verilog file, and will automatically use the extension and settings to adapt VS Code.

5. Best way to launch VS Code

Open a command or terminal window, and use change directory commands to move yourself into the directory containing the Verilog files you want to edit.

Once in the correct directory type this at the command prompt (with a space following the word code):   code .

VS Code will now open and you files will be shown in the Explorer pane on the left, and any terminal you open will have the current working directory set correctly.

If you don't see the files listing on the left, the icon on the left side of the screen that looks like two sheets of paper is the Explorer icon, click the icon and the Explorer view will open.

Important Tips for Mac Users – if VS Code does not launch from a terminal window, read the information at these URLs to quickly fix the problem:

https://techstacker.com/how-to-open-vscode-terminal-command-line/https://flaviocopes.com/vscode-command-line/

For more on Mac setup, you can review this:

https://code.visualstudio.com/docs/setup/mac