

Installation

- Install VS Code
 - Install Extensions
 - Python Extension
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- Install Python Interpreter
- Share your project via Live Share

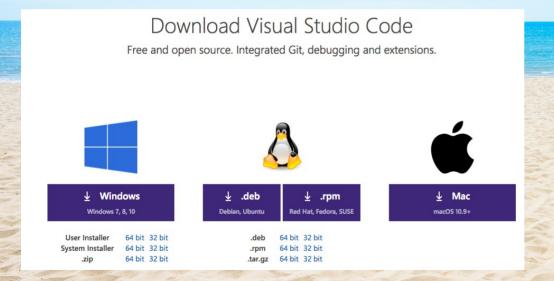
VS Code is an IDE

- Integrated Development Environment
- Tool to write code
- Contains functionality to make programming easier

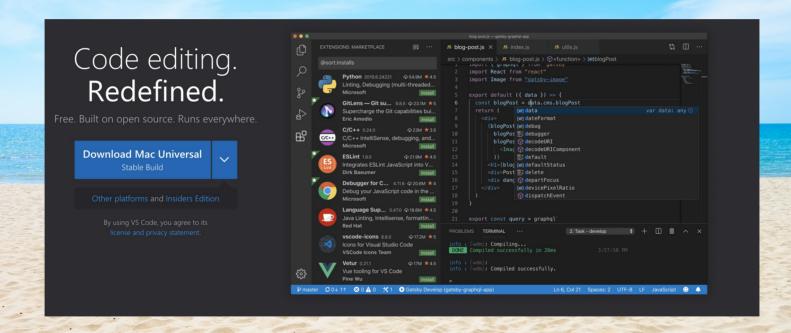
Visual Studio Code

Install: Visual Studio Code (VSC)

https://code.visualstudio.com/download/



Visual Studio Code

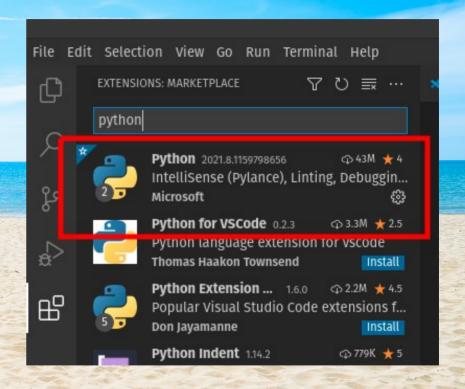


Configuration

- Modify the following settings for convenience:
 - Preferences => Settings
 - Texteditor -> Auto Closing Brackets
 - Choose Always
 - Texteditor -> Files -> Auto Save
 - Choose onFocusChange
 - Texteditor -> Formatting -> Format on Save
 - Check the checkbox

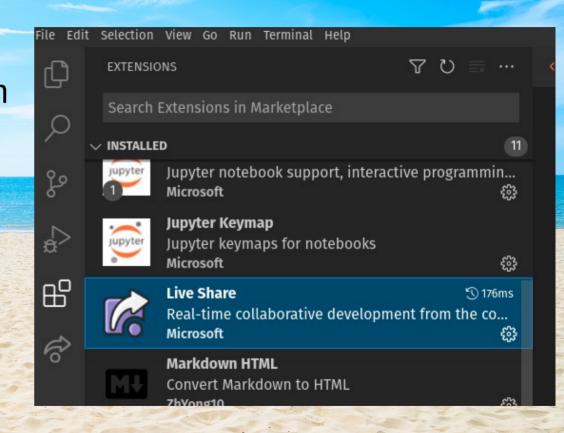
Install Python Extension

 Next, install the Python extension for VS Code from the Visual Studio Marketplace. For additional details on installing extensions, see Extension Marketplace. The Python extension is named Python and it's published by Microsoft.



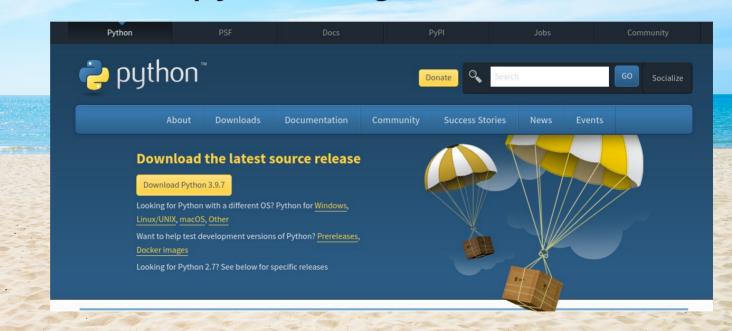
Install Live Share Extension

 Next, install the Live Share extension for VS Code from the Visual Studio Marketplace. For additional details on installing extensions, see Extension Marketplace. The Live Share Extension is published by Microsoft.



Install Python Interpreter

Install Python from python.org



VS Code Python interpreter

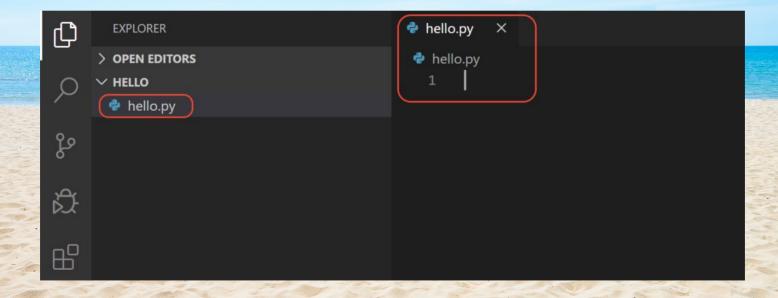
 Python is an interpreted language, and in order to run Python code and get Python IntelliSense, you must tell VS Code which interpreter to use.

• From within VS Code, select a Python 3 interpreter by opening the Command Palette (Ctrl+Shift+P), start typing the Python: Select Interpreter command to search, then select the command. You can also use the Select Python Environment option on the Status Bar if available (it may already show a selected interpreter, too):



Hello World

In VS code create a new file hello.py



run Hello World

 enter the following source code in hello.py: and run it using the play button

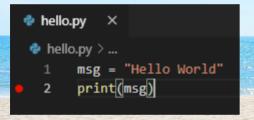
```
msg = "Hello World"
print(msg)
```

```
hello.py X
hello.py > ...

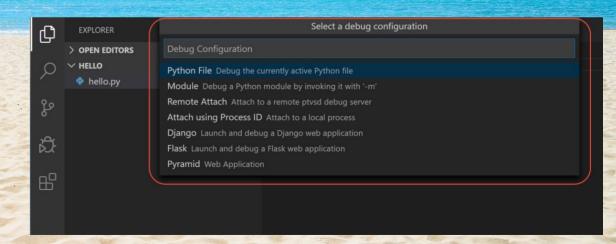
1 msg = "Hello World"
2 print(msg)
3
```

Configure and run the debugger

 Set a breakpoint on line 2 of hello.py

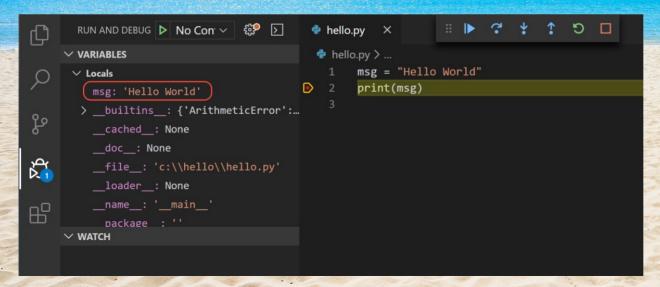


 Press F5 and choose 'Debug the currently active Python file'



Debugging

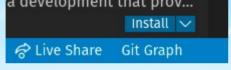
- The debugger will stop at the first line of the file breakpoint.
- If you examine the Local variables window at this point, you will see now defined msg variable appears in the Local pane.
- A debug toolbar appears along the top with the following commands from left to right: continue (F5), step over (F10), step into (F11), step out (Shift+F11), restart (Ctrl+Shift+F5), and stop (Shift+F5)





Share your project via Live Share

1) Click the Live Share button in your status bar at the left bottom of VS Code status bar a development that prov...



- 2) You'll be asked to sign in the first time you share (using a GitHub or Microsoft account), which allows others to identity you when collaborating. On Windows, you may be asked to allow Live Share to open a firewall port, in order to enable peer-to-peer connections.
- 3) Send the session URL to your instructor

