# Install Python

## Contents

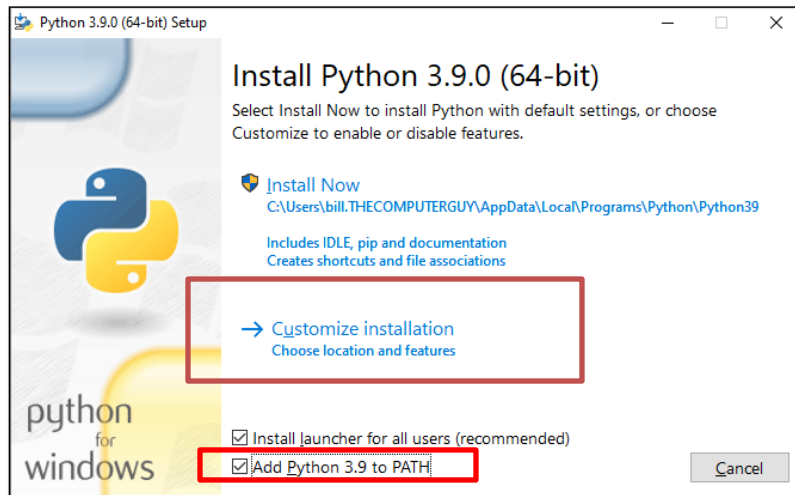Time required: 15 minutes

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### Python Editors

We will use **Visual Code Studio** to create, run, and edit our Python programs.

# Install Python
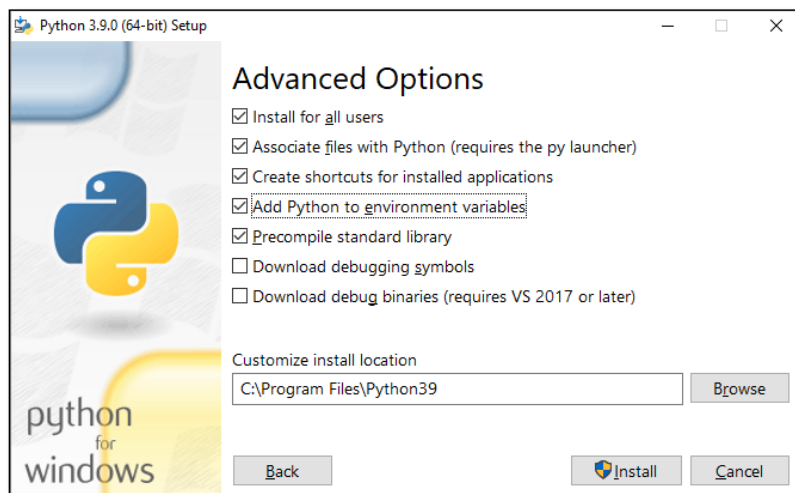
There is a version of Python for almost any operating system.

1. Go to https://www.python.org/downloads

2. Download the latest Python 3 release for your operating system.

3. Click **Download Python 3.10.4** (This was the latest version as of this writing. Download the latest version)

4. Double Click the file you downloaded to start the installation.

5. Click **Customize installation**.



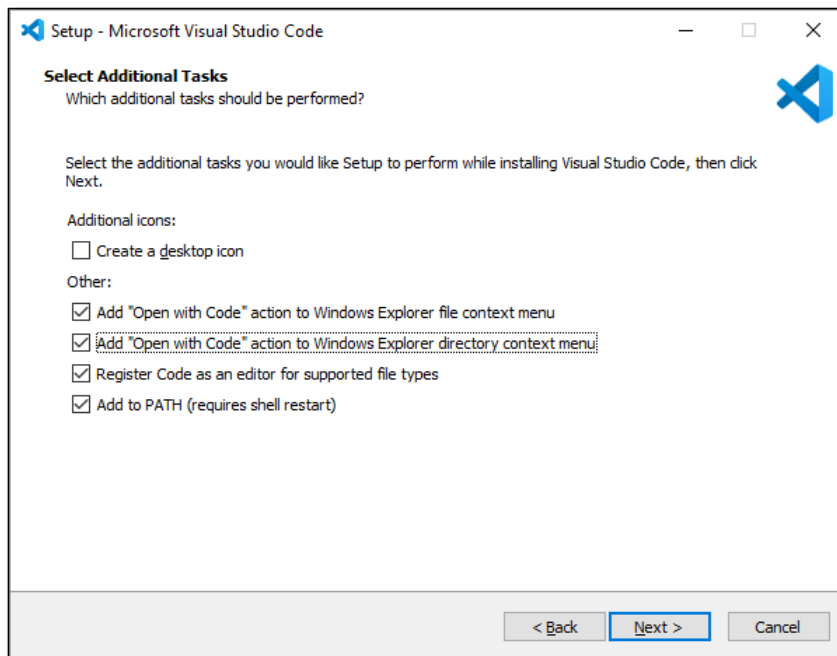6. Click Next until you come to **Advanced Options**.



7. Click **Install Now**.

8. Setup should be successful.

## Install Visual Studio Code

There is extensive information on how to get started with Visual Studio Code and Python on the Visual Studio Code website.
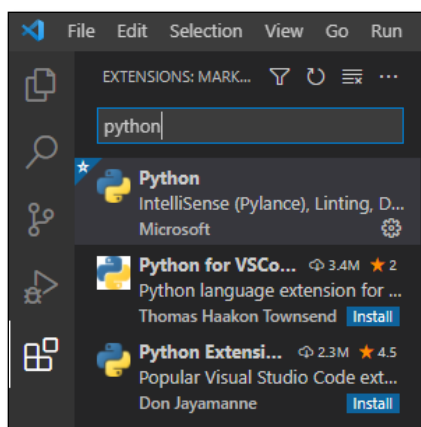
1. Go to www.VisualStudio.com You want to find **Visual Studio Code**.

2. Download and install the **System Installer 64 bit** version of Visual Studio Code for your operating system.

3. During the installation: **Select Additional Tasks**, select the following items. You can create a desktop icon if you wish.



## Setup Visual Studio Code to Edit Python Programs

1. Run Visual Studio Code.

2. Go to the **Extensions** button on the left navigation bar → search for **Python**. You will see **Python IntelliSense by Microsoft**. Click **Install**.



## Change PowerShell to Command Prompt

1. Press **Ctrl+Shift+P** to show all commands.

2. Type **profile** in the displayed text box to filter the list.

3. Select **Terminal: Select Default Profile**.

4. Select **Command Prompt (cmd.exe)**

5. Press **Ctrl+`** (or View > Terminal in menu) to open a new terminal pane.
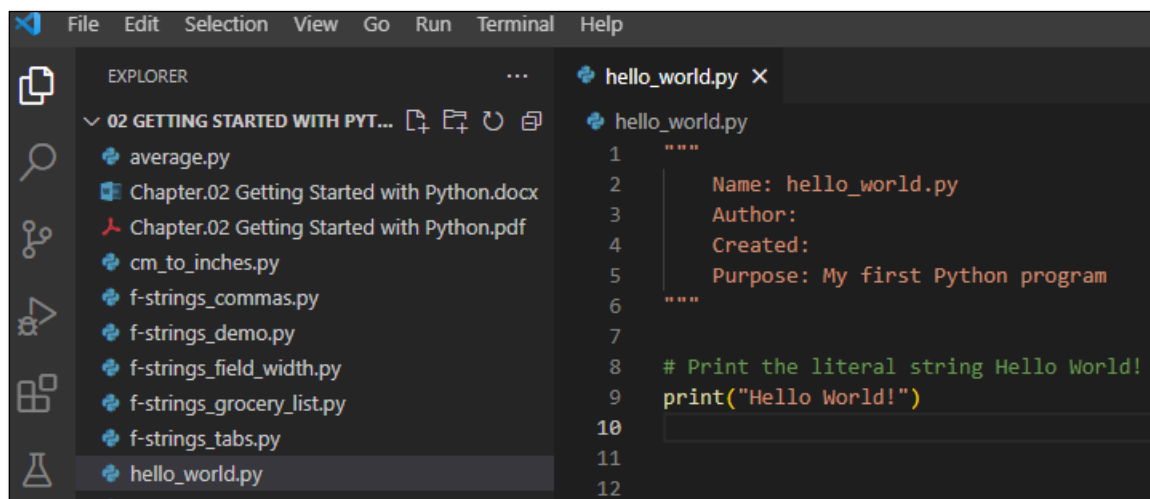
## Create a Python Program in Visual Studio Code

1. Go to **File → New File**. This creates a blank file.

2. Go to **File → Save As**. Choose **Save as type**: Choose **Python** from the list.

3. When you create your first Python program with Code, it may ask you to choose your interpreter. Python will already be listed, choose it.

## Open Program Folder with Visual Studio Code

Visual Studio Code works better if you open the folder that the program is in.

1. In **File Explorer → Navigate** to the folder the program file is in → **Right Click** the folder → **Open with Code**.

2. You can Double Click the file on the left hand side to edit.

3. F5 will run the program.



# Other IDE's

These are all free.

- [www.geany.org](www.geany.org)

- [www.atom.io](www.atom.io)

- [https://www.jetbrains.com/pycharm](https://www.jetbrains.com/pycharm)

## Online IDE's

There are many online environments for executing Python programs.

- [www.repl.it](www.repl.it)

- [colab.research.google.com](colab.research.google.com) (Online Jupyter Notebook)

### (Optional) Double Click .py Files to Edit with IDLE

1. Open a folder that contains a Python file.

2. Right-click on any Python file.

3. Select **Properties**.

4. Next to the section that says **Opens with**, Click **Change**.

5. Select **More Apps.**

6. Scroll to the bottom and Click **Look for another app on this PC**

7. Navigate to where you installed Python: **C:\Program Files\Python39**

8. Open **Lib**

9. Open **idlelib**

10. Select **idle.bat**

11. Click **Open**. Click **OK**.

You can open **.py** files in IDLE by double-clicking on them.