

CS506 Programming for Computing

Install Python 3 for VSCode

10/18/2020 Developed by Kim Nguyen

3/28/2022 Revised by Ken Ling

7/3/2023 Reviewed by Ajay Naik

9/28/2023 Reviewed by Maram Elwakeel

School of Technology & Computing (STC) @ City University of Seattle (CityU)



Before You Start

- Version numbers may not match with the most current version at the time of writing. If given the option to choose between the stable release (long-term support) or the most recent, please select the stable release rather than the beta-testing version.
- There might be subtle discrepancies along with the steps. Please use your best judgment while going through this cookbook-style tutorial to complete each step.
- For your working directory, use your course number. This tutorial may use a different course number as an example.
- All the steps and concepts in this tutorial are from the textbook, so if you encounter problems in this tutorial, please try to read and compare the textbook to solve the problem. If you still can't solve the problem, please feel free to contact your course TA.
- Avoid copy-pasting code from the book or the GitHub repository. Instead, type out the code yourself. Resort to copy-pasting only when you are stuck and find that things are not working as expected.

Learning Outcomes

Students will be able to:

- Setup the working environment for Python

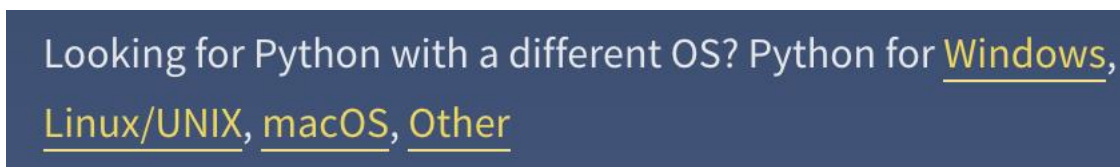
Resources

- Python crash course: a hands-on, project-based introduction to programming: Matthes, E. (2019):

[Available online link](#)

Section 1 - Install Python in your machine

- 1) We will use Python 3. If you have already installed Python3, please skip this section. If you have Python 2, please upgrade to Python 3.
- 2) Click the following link to visit the Python downloading page <https://www.python.org/downloads/>
- 3) Under the Downloads dropdown list, select the OS



- 4) Click the downloading link based on the operational system you are using:

Looking for a specific release?
Python releases by version number:

Release version	Release date		Click for more
Python 3.10.4	March 24, 2022	Download	Release Notes
Python 3.9.12	March 23, 2022	Download	Release Notes
Python 3.10.3	March 16, 2022	Download	Release Notes
Python 3.9.11	March 16, 2022	Download	Release Notes
Python 3.8.13	March 16, 2022	Download	Release Notes

- 5) Note: While creating this document the version was 3.10.4, you might see an advanced version.
Download the latest version.
- 6) Perform the installation process:
- 7) Click on **Download Python 3.10.4** (you might see a different version). If you are using Windows, **.exe** file will get downloaded. If you are using a Mac, **.pkg** file will get downloaded. After downloading the files, follow the instructions on your screen to install python.
- 8) After the installation, Open Visual Studio Code. Then, open the terminal from the VSCode by hitting the control + ~ key. Type the following command to test Python version:

- 9) The installation process may vary depending on your OS, I would highly recommend visiting this page, <https://cityuseattle.github.io/docs/environment/python/> which also provides detailed instructions for python.

10) `python3 --version`

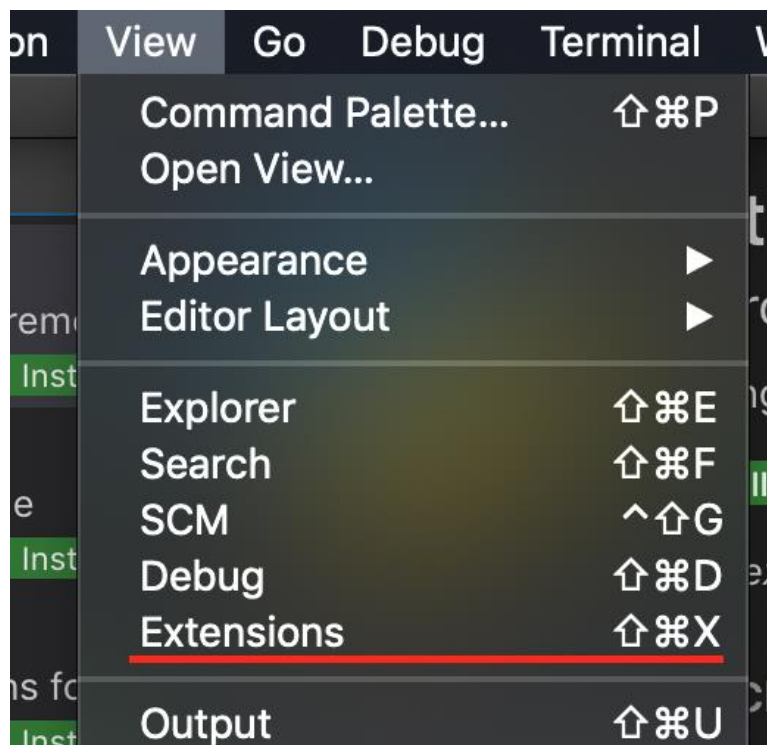


```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
~ % python3 --version
Python 3.10.0
~ %
```

- 11) Note: you are supposed to see the python version (It may be slightly different from the version shown here. But it should be 3.x.x).

- 12) The python extension is also recommended to install in the VS Code.

- 13) Click the View -> Extension in the VS Code menu



- 14) Search python and click the install button on the right

