

# Introduction to Python



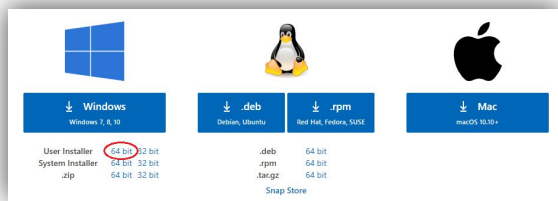
BIT Academy

## PC setup for Workshop

This document describes the necessary steps to prepare your company laptop for this course. It's expected that your current privileges will allow you to complete these steps, but if you encounter any difficulty, please inform us before the beginning of the workshop.

### 1. Install Visual Studio Code

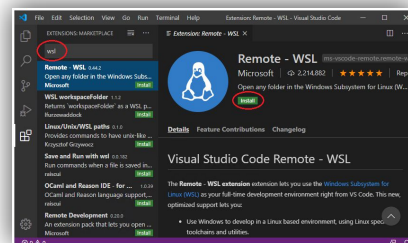
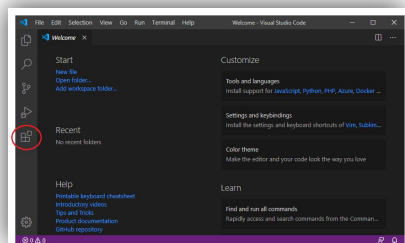
- Go to this URL: <https://code.visualstudio.com/Download>
- Select the “User Installer 64 bit” version.



- After the download, install the application. Be sure to **check “Add to PATH”** when asked to “Select Additional Tasks” during installation.

### 2. Add Extensions to your Visual Studio Code installation

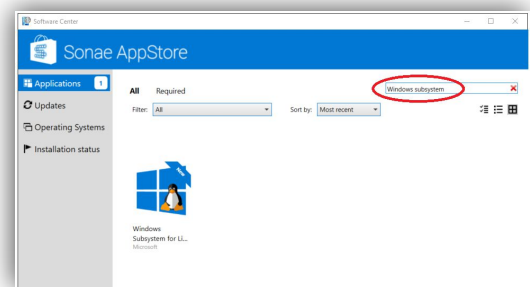
- Open Visual Studio Code and click on the Extensions button. Search and Install “Remote – WSL” and “Python” extension.



- Close Visual Studio Code.

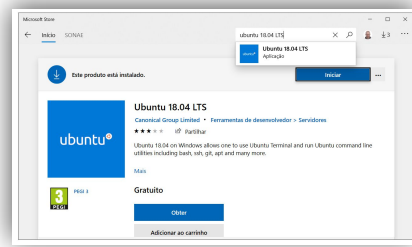
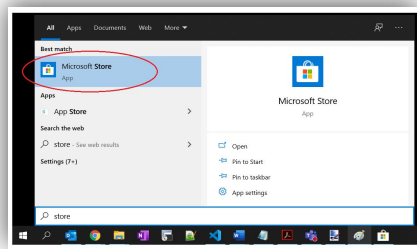
### 3. Install Windows Subsystem for Linux (WSL)

- Go to SONAE App Store
- Search for Windows Subsystem
- Click on Windows Subsystem for Linux
- Click Install



#### 4. Install Ubuntu WSL 18.04

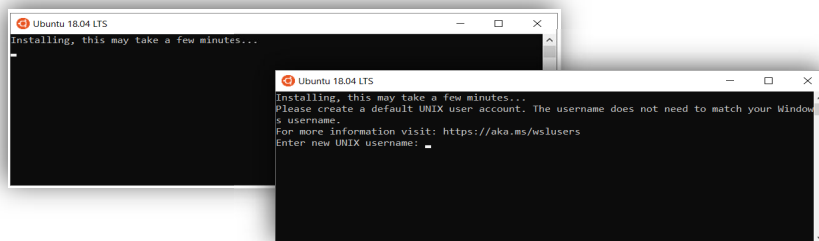
- a. Go to Microsoft Store, search for “Ubuntu 18.04 LTS”



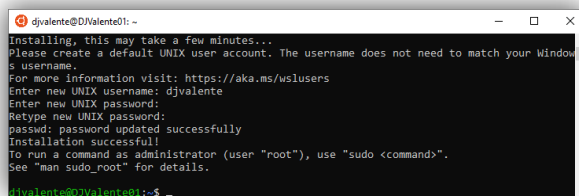
- b. Click the Get/Install button
- c. Reboot your computer before continuing to the next step.

#### 5. Prepare WSL to work with VS Code

- a. Open Ubuntu 18.04 LTS, and wait a little bit (welcome to the world of Linux 😊)



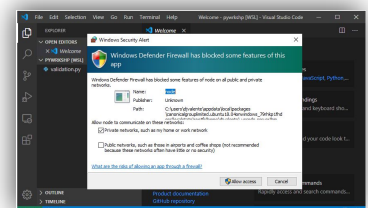
- b. Introduce a username and password specific for the WSL. We will need this credential to install packages.



- c. Execute the following commands on the WSL command line:

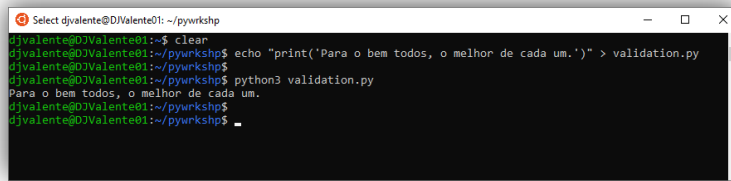
- i. `sudo apt update`
- ii. `sudo apt install python3.7`
- iii. `sudo apt install python3-pip`
- iv. `mkdir pywrkshp && cd pywrkshp`
- v. `echo "print('Para o bem todos, o melhor de cada um.')" > validation.py`
- vi. `code .`

- VS Code will automatically open, and you will be asked to Allow access between WSL and VS Code.
- After allowing this access you are ready to start programming in python.



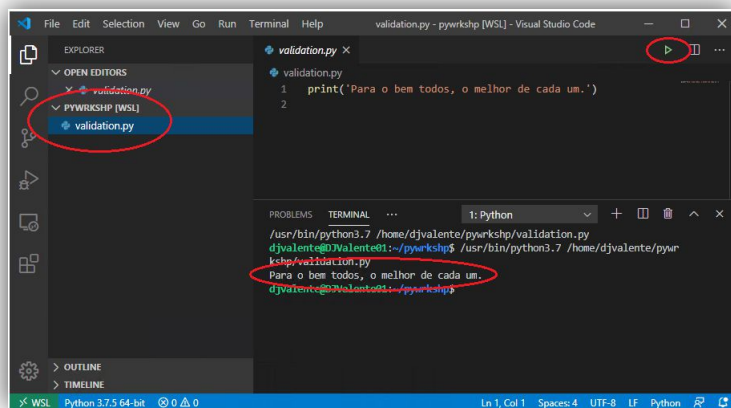
## 6. Final verification

- On the WSL command line write `python3 validation.py`. The output expected is displayed in the picture below.



```
Select djalente@DJValente01: ~/pywrkshp
djalente@DJValente01:~$ clear
djalente@DJValente01:~/pywrkshp$ echo "print('Para o bem todos, o melhor de cada um.')" > validation.py
djalente@DJValente01:~/pywrkshp$
djalente@DJValente01:~/pywrkshp$ python3 validation.py
Para o bem todos, o melhor de cada um.
djalente@DJValente01:~/pywrkshp$
djalente@DJValente01:~/pywrkshp$
```

- On VS Code select the `validation.py` script and press play. The output should be like the one below.



I hope this initial setup guide hadn't diminished your will to attend our workshop 😊. In the first session we will explain a little better why we decided to use such environment (Visual Studio Code combined with Ubuntu WSL), looking forward to seeing you all there.