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Getting Started On Mac/Linux

Welcome to ACME!

This "Getting Started" guide will help you set up your workflow for summer.

Downloading Course Materials

The lab manuals can be found at <https://acme.byu.edu/>. If you are a junior, you should download the junior summer materials. You should then unzip this in a folder you are familiar with, such as your documents folder or desktop folder.

Using VSCode

VSCode is the recommended code editor in ACME, though it is not required. We recommended it because it is free and open source. You can download it at <https://code.visualstudio.com/>. Once you have it installed, you can open it by typing in the search bar `Visual Studio Code`. You can also open it from the terminal by typing `code`.

Installing Python

To install python on Linux , open the terminal and type:

```
sudo apt install python3 python3-pip ipython3
```

On mac, you will need to install homebrew. You will do this by typing

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

into terminal. You can now install python with the command

```
brew install python@3.10; brew install pip; brew install ipython
```

There are three things there.

1. Python, which is the python language itself.
2. Pip, which is a package manager for python.
3. IPython, which is an interactive python shell.

If something is not included in the base python installation, you can use pip to install it. You will know you need to install something if you encounter a `ModuleNotFoundError`, which you may encounter soon. For example, in order to install numpy, you could write `pip3 install numpy` in the terminal. If this does not work on your machine, try `pip install numpy` or `python3 -m pip install numpy`.

IPython is an interactive python shell. You will be taught how to use it soon.

Python will now be accessible from the terminal with the command `python3`. You can also run a python script with `python3 <scriptname>`. Python is now accessible globally, meaning you can run python from any directory as long as you are still typing the command in the terminal.