Installing and importing modules and libraries

Importing built-in modules

When you install Python, you get a ton of functionality right out of the box, without importing anything.

You can also access other code modules that come bundled in what's called the "standard library" -- but to use these bits of functionality, you need to *import* them into your script.

Let's import the `time` module from the standard library, then use its `sleep()` method to pause the script for however many seconds we specify (2).

In [4]:
```
import time
time.sleep(2)
```

Installing and importing external libraries

You can also *install* external Python libraries -- software written by people around the world to help Python developers accomplish different tasks. Here, we're using Jupyter notebooks and the `pandas` data analysis library, among others.

To manage these dependencies, we're using a built-in Python module called `venv` in conjunction with a built-in tool called `pip`. You can read more about our recommended setup here.

Let's import pandas. When we import it, we'll use the `as` keyword to give it an alias -- `pd` -- a convention that makes it quicker to type. In other words, we're gonna use pandas, but we're gonna call it `pd` to save us some typing -- this is generally the convention you'll see when you Google around looking for help.

In [5]:
```
import pandas as pd
```

Importing local code

Let's pretend that you have a local Python file, `myfile.py`, that contains some things you'd like to import into this script.

Surprise, you don't have to pretend! There *is* a file called `myfile.py` in this folder that contains some things we'd like to import into *this* script. Specifically, we'd like to import a dictionary called `codys_dog` that has some details about Cody's dog Charlie.

(This is Charlie: )

The syntax for importing specific bits of functionality from a module:

```
from some_module import things
```

So let's import `codys_dog` from `myfile` .

In [6]:
```
from myfile import codys_dog

codys_dog
```

Out[6]:
```
{'name': 'Charlie',
 'breed': '?',
 'birthdate': '2017-04-20',
 'picture': 'https://raw.githubusercontent.com/ireapps/cfj-2018/master/img/charlie.jpg'}
```