Sets in Python!

Sets are an unordered collection of *unique* elements. We can construct them by using the set() function. Let's go ahead and make a set to see how it works.

```
In [1]: x = set()
In [2]: # We add to sets with the add() method
    x.add(1)
In [3]: #Show
    x
Out[3]: {1}
```

Note the curly brackets. This does not indicate a dictionary! Although you can draw analogies as a set being a dictionary with only keys.

We know that a set has only unique entries. So what happens when we try to add something that is already in a set?

```
In [4]: # Add a different element
    x.add(2)

In [5]: #Show
    x

Out[5]: {1, 2}

In [6]: # Try to add the same element
    x.add(1)

In [7]: #Show
    x

Out[7]: {1, 2}
```

Notice how it won't place another 1 there. That's because a set is only concerned with unique elements! We can cast a list with multiple repeat elements to a set to get the unique elements. For example...

```
In [8]: # Create a list with repeats
    list1 = [1,1,2,2,3,4,5,6,1,1]

In [9]: # Cast as set to get unique values
    set(list1)

Out[9]: {1, 2, 3, 4, 5, 6}
```

Brief description about Booleans

Python comes with Booleans (with predefined True and False displays that are basically just the integers 1 and 0). It also has a placeholder object called None.