

**What are sets?**

- Sets are unique variables; there can only be one of a certain variable

```
In [1]: 1 myset = set()
```

```
In [2]: 1 myset
```

```
Out[2]: set()
```

```
In [3]: 1 myset.add(1)
```

```
In [4]: 1 myset
```

```
Out[4]: {1}
```

```
In [5]: 1 myset.add(2)
```

```
In [6]: 1 myset
```

```
Out[6]: {1, 2}
```

```
In [7]: 1 myset.add(2)
```

```
In [8]: 1 myset
```

```
Out[8]: {1, 2}
```

```
In [9]: 1 mylist = [1,1,1,1,1,2,2,2,2,2,3,3,3,3,3]
```

```
In [10]: 1 mylist
```

```
Out[10]: [1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 3, 3, 3, 3, 3]
```

```
In [11]: 1 set(mylist)
```

```
Out[11]: {1, 2, 3}
```

```
1 notice when you run the set, while in your list there's 5 1's, but only 1 shows up
```