

Booleans

Casting Booleans

In [1]: `bool(1)`

Out[1]: True

In [2]: `bool(0)`

Out[2]: False

In [3]: `bool(-1)`

Out[3]: True

In [4]: `bool(1j)`

Out[4]: True

In [5]: `bool(0.0)`

Out[5]: False

In [6]: `bool(0j)`

Out[6]: False

In [7]: `bool('True')`

Out[7]: True

In [8]: `bool('False')`

Out[8]: True

In [11]: `bool('')`

Out[11]: False

In [14]: `bool([1,2])`

Out[14]: True

In [13]: `bool({})`

Out[13]: False

```
In [15]: bool(None)
```

```
Out[15]: False
```

```
In [17]: myList = [1,2]
         if bool(myList):
             print('Mylist has some values in it!')
```

Mylist has some values in it!

```
In [18]: a = 5
         b = 5
         if a - b:
             print('a and b are not equal!')
```

```
In [19]: a == b
```

```
Out[19]: True
```

Boolean Logic

```
In [23]: weatherIsNice = True
         haveUmbrella = False

         if not (haveUmbrella or weatherIsNice):
             print('Stay inside')
         else:
             print('Go for a walk')
```

Go for a walk

```
In [25]: weatherIsNice = True
         haveUmbrella = False

         if (not haveUmbrella) and (not weatherIsNice):
             print('Stay inside')
         else:
             print('Go for a walk')
```

Go for a walk

```
In [26]: weatherIsNice = True
         haveUmbrella = False

         if haveUmbrella or weatherIsNice:
             print('Go for a walk')
         else:
             print('Stay inside')
```

Go for a walk

In []: