

# Python Bootcamp & Masterclass

## Booleans



- The Boolean data type (**bool**) is a subtype of integer and stores one of only two values
  - **True** / **False**
- When used in numerical expressions **True** evaluates to **1** and **False** to **0**.
- **None**, **0**, and empty objects (empty string , empty list, empty tuple , empty dict, etc.) are all **False** Everything else is considered to be **True**
- Booleans are immutable (they can't be modified after they've been created)

```
print("Boolean value of None:      ", bool(None))
print("Boolean value of zero:      ", bool(0))
print("Boolean value of zero:      ", bool(0.0))
print("Boolean value of empty string: ", bool(''))
print("Boolean value of empty list:  ", bool([]))
print("Boolean value of empty tuple: ", bool(()))
print("Boolean value of empty dict:  ", bool({}))
```

```
Boolean value of None:      False
Boolean value of zero:      False
Boolean value of zero:      False
Boolean value of empty string: False
Boolean value of empty list: False
Boolean value of empty tuple: False
Boolean value of empty dict: False
```

```
print("Boolean value of non-zero:    ", bool(0.000000000000001))
print("Boolean value of non-zero:    ", bool(-273))
print("Boolean value of infinity:    ", bool(float('inf')))
print("Boolean value of non empty string: ", bool('None'))
print("Boolean value of non empty list:  ", bool([1]))
print("Boolean value of non empty tuple: ", bool((1)))
print("Boolean value of non empty dict:  ", bool({1:'USA'}))
```

```
Boolean value of non-zero:    True
Boolean value of non-zero:    True
Boolean value of infinity:    True
Boolean value of non empty string: True
Boolean value of non empty list: True
Boolean value of non empty tuple: True
Boolean value of non empty dict: True
```



# Online Resources

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