

\*Tags: **Booleans**

## Boolean Intro

- A **#boolean** is a basic data type used for decision-making/tree
- only two possible values: True or False (must be capitalized)

```
isAlive = False  
isDead = True
```

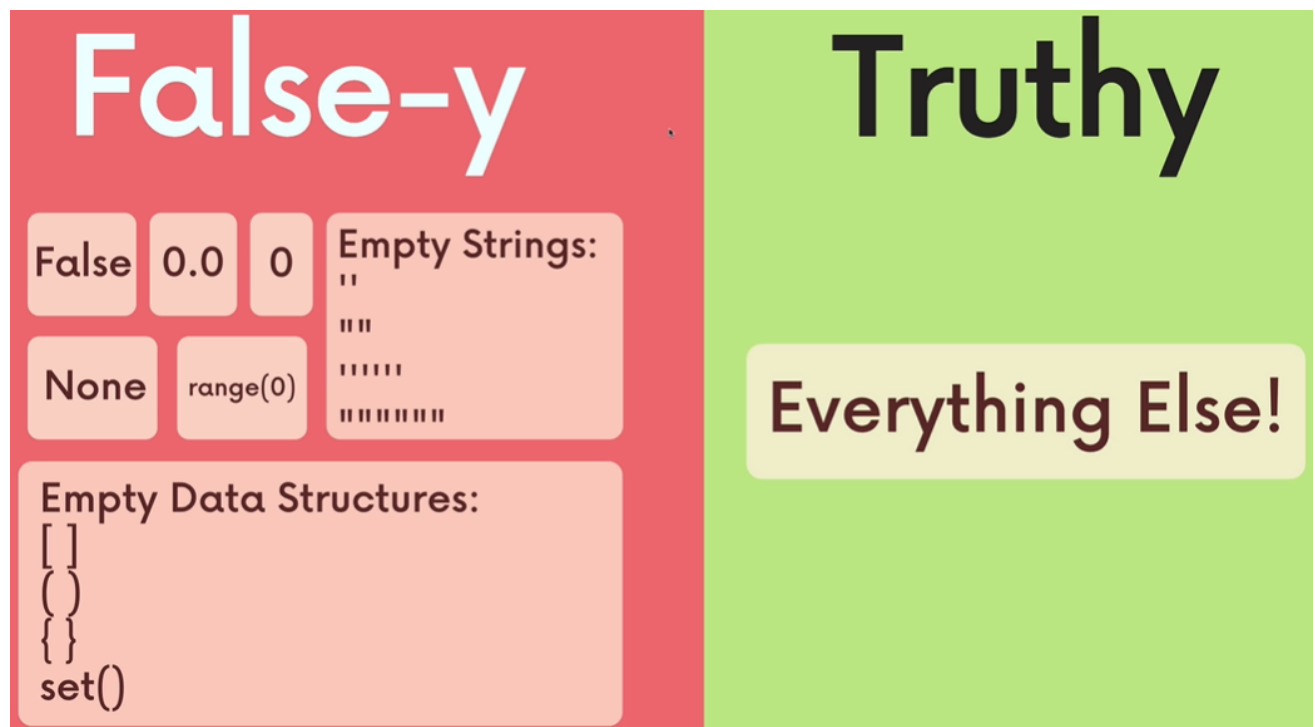
- 1. type('True')
  - this is a str type, not a bool because it is wrapped in quotes

## Comparison **#Operators**

- greater than >
- less than <
- greater than or equal to >=
- less than or equal to <=
- Equality
  - equal to ==
  - not equal to !=
- Identity
  - **is** evaluates to True if a and b both refer to the same object in memory
  - **is not** evaluates to True if a and b both do NOT refer to the same object in memory

## Truthiness and Falseyness

When using/converting to a bool:



## "in" Operator

The `in` operator looks to see if an item is a member of a sequence.

Looks to see if the LEFT is in the RIGHT

```
`a` in `bat`  
True
```

- Case-sensitive, does not work with numbers (values), only works with sequences