

Python Bootcamp & Masterclass

None



- **None** represents the absence of a value.
- When python interpreter starts, it creates one and only one **None** object and all future references in that session will point to that singleton object
- All functions should return something, so if a function doesn't have anything to return, it will return **None** (e.g., print function returns **None**)
- **None** is an object. None is the sole instance of the **NoneType** type.
- **None** is an immutable keyword.
- **None** evaluates to **False**

```
x = None
y = None
id(x)
id(y)
type(x)
type(y)
x is y      # None is a singleton (only a single instance of it exists within a system at any given time)
```

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NoneType

NoneType

```
x = print('Hello World!')
print(x)
```

Hello World!

None

```
bool(None)
bool(not None)
```

False

True



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