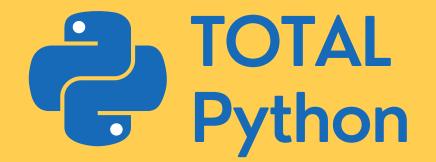
attributes



Attributes are variables that belong to the class. There are class attributes (shared by all instances of the class), and instance attributes (which are different in each instance of the class).



Each object created from the class can share certain characteristics

class attributes
(for example: number of faces)

Each object created from the class can contain specific characteristics

instance attributes (for example: color, height, width, length...)

```
class Cube:
    faces = 6
    def __init__(self, color):
        self.color = color

instance attribute
```

the parameters of the ___init__ function are passed to the instance attributes

All classes have a function called __init__() called when *instantiated*, which is used to pass values to properties of the object being created.

self: represents the *instance* of the object to be created