Cheatography

Python Basics - Object Oriented Programming Cheat Sheet

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Class - Syntax

```
class Dog(object):
    living = True
    age = 0
    def __init__(self, name, sex):
        self.name = name
        self.sex = sex
    def bark(self):
        print(f"{self.name} barked!")
luke = Dog('Luke', 'Male')
print(f"Name: {luke.name}")
print(f"Sex: {luke.sex}")
print(f"Living: {luke.living}")
print(f"Age: {luke.age}")
luke.bark()
```

Name: Luke
Sex: Male
Living: True
Age: 0
Luke barked!

Class - Magic Methods

`__init__(self, other)`	Overrides object creation method
`__repr__(self)`	Overrides object string representation
`__add__(self, other)`	Overrides + operator
`__sub__(self, other)`	Overrides - operator
`__mul__(self, other)`	Overrides * operator
`__floordiv__(self, other)`	Overrides // operator
`__truediv__(self, other)`	Overrides / operator
`__mod__(self, other)`	Overrides % operator
`__pow__(self, other[, modulo])`	Overrides ** operator
`__lt__(self, other)`	Overrides < comparison operator
`__le__(self, other)`	Overrides <= comparison operator
`__eq__(self, other)`	Overrides == comparison operator
`__ne__(self, other)`	Overrides != comparison operator
`__ge__(self, other)`	Overrides >= comparison operator
`__gt__(self, other)`	Overrides > comparison operator
`__call__(self[, args...])`	Overrides ( ) operator

Class - Magic Methods (cont)

`__int__(self)`	Overrides **int()** method
`__float__(self)`	Overrides **float()** method
`__str__(self)`	Overrides **str()** method
`__abs__(self)`	Overrides **abs()** method
`__len__(self)`	Overrides **len()** method
`__contains__(self, item)`	Overrides **in** keyword behavior

OOP - Inheritance

```
class Vehicle(object):
    def honk(self):
        print('Honk honk')
class Car(Vehicle):
    def accelerate(self):
        print('Vrooom')
honda = Car()
honda.honk()
honda.accelerate()
```

Honk honk
Vrooom

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Not published yet.
Last updated 22nd October, 2017.