Python Built in Functions & Methods

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Python Lab Night

Women Who Code (WWCode) is global non-profit

dedicated to inspiring women to excel in technology careers.

We work to support this generation in being and becoming leaders and role models in the tech industry.

We are the DC Chapter!

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Python Beginners: 1st Wednesday of the Month; Python Lab Night: 3rd Wednesday of the month

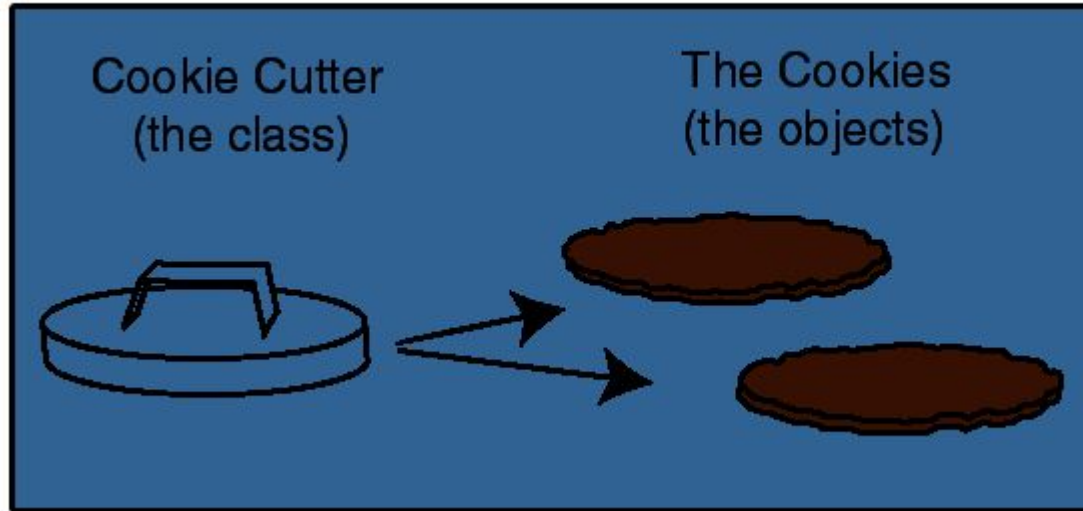# Every method is a function but not every Function is a method

Let that sink in a little bit

But first we have to define Object v Class

Class is the mold that provides the structure for creating objects.

From Quora:

Example below :

Cookie Cutter (the class)

The Cookies (the objects)

Let's Make cookies

Class :

```
1  class Cookie:
2      def __init__(self, price, color):
3          self.price = price
4          self.color = color
```

Object :

```
1  my_cookie1 = Cookie(100, 'Red')
2  my_cookie2 = Cookie(5, 'Yellow')
```

Methods are associated with Objects/classes; Functions are not

```python
3    #defining a function
4
5    def foo(a,b):
6        return a + b
7
8    print(foo(1,2))
```
```
3
[Finished in 0.1s]
```

```python
3    #assigning a method to an object
4
5    class Foo(object):
6        def foo(self, a,b):
7            self.contents = a + b
8            return self.contents
9    instance = Foo()
10   print(instance.foo(1,2))
```
```
3
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```

Functions

Python has 70 built in functions. We will go over most of common ones:

- print()
- type()
- open(), read()
- len()
- range(), enumerate()
- list(), zip()
- dir()
- contains()

Methods

They are made differently for lists, dictionaries, strings, and tuples. We will go over the common ones for the following:

String

- .split(),.lower(),.upper(), .title(),.join()

List

- .append() .pop(), .extend(), .insert(), .sort()

Dictionaries

- .keys(),.values(), .get(), .items()

Exercise

http://bit.ly/2LaQJ4z

Python Training/ Resources

In Person:
WWCDC (1st & 3rd wed)
Hear Me Code (Once a Month on Saturdays)

ONLINE
- Coursera
- HackerRank
- StackOverflow
- Slack
- CodeCombat
- GitHub
- Kaggle
- EDX by microsoft
- How to Think Like a Computer Scientist - PDF
- Learn Python the Hard Way
- Data Camp