

Static and Class Methods

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Static Methods

```
1 class Calculator:
2
3     # create addNumbers static method
4     @staticmethod
5     def addNumbers(x, y):
6         return x + y
```

```
1 >>> print('Product:', Calculator.addNumbers(15, 110))
2 125
```

- @staticmethod is a **decorator**
- Static methods have nothing to do with the instances or the class, but are useful within the class.

Class method

```
1 class Fruit:
2     name = 'Fruitas'
3
4     @classmethod
5     def printName(cls):
6         print('The name is:', cls.name)
```

```
1 >>> Fruit.printName()
2 Fruitas
3 apple = Fruit()
4 berry = Fruit()
5 >>> apple.printName()
6 Fruitas
7 >>> berry.printName()
8 Fruitas
```

classmethod vs staticmethod

- Neither need an object to be instantiated
- Static method doesn't know about the class.
- Class method the class is always the first parameter.
- Static method might as well be a function call, but placing it in the class controls the namespace.
- Class method knows about all the class attributes and methods.