

Lecture

__add__()



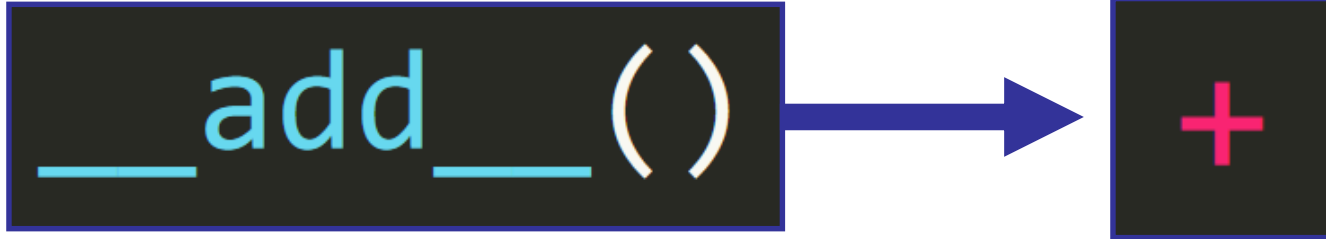


`__add__()`

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```
class Point:  
  
    def __init__(self, x, y):  
        self.x = x  
        self.y = y
```



`__add__()`

```
>>> point1 = Point(10, 20)
>>> point2 = Point(15, 5)
>>> point1 + point2
Traceback (most recent call last):
  File "<pyshell#7>", line 1, in <module>
    point1 + point2
TypeError: unsupported operand type(s) for +: 'Point' and 'Point'
```



`_add_()`

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TypeError: unsupported operand type(s) for +: 'Point' and 'Point'
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```
class Point:

    def __init__(self, x, y):
        self.x = x
        self.y = y

    def __add__(self, other):
        x = self.x + other.x
        y = self.y + other.y
        return f"Point: ({x}, {y})"
```



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        self.y = y
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```
>>> point1 = Point(10, 20)
>>> point2 = Point(15, 5)
>>> point1 + point2
'Point: (25, 25) '
>>> point1.__add__(point2)
'Point: (25, 25) '
```



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>>> point1 = Point(10, 20)
>>> point2 = Point(15, 5)
>>> point1 + point2
'Point: (25, 25) '
>>> point1.add_(point2)
'Point: (25, 25) '
```