

Decorators & call backs

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Decorators: They are like adding spices to a meal. They don't change the code. They just modify or improve it. They wrap themselves around the main code.

```
def increment_decorator(func):  
    def wrapper(x):  
        x += 1  
        x = func(x) # main function  
        x += 1  
        return x  
    return wrapper
```

input variable

name of decorator function (you decide)

another fn as argument. Usually the fn it will wrap around

Something to be done before the main fn is called

Something to be done after main fn

calls main fn

Using the decorator fn

decorator fn is applied to 'operations' fn

```
1 @increment_decorator  
2 def operations(x):  
3     """Basic operations."""  
4     x += 1  
5     return x  
6 results = operations(x=1)  
7 print(results)
```

When the operations (x) fn is called, it will be wrapped in the 'wrapper' fn created by the increment_decorator.

Callbacks

They run at specific points in the code. Just like asking someone to call you back after achieving something.

```
1 def my_callback_function():
2     print("Callback function is executed")
3
4 def my_main_function(callback):
5     print("Main function is executed")
6     callback()
7
8 my_main_function(my_callback_function)
9
```

✓ 0.0s

Main function is executed
Callback function is executed

callback fn

Does this

has a callback as argument

Do this &

Do what's in the callback.

✓) output