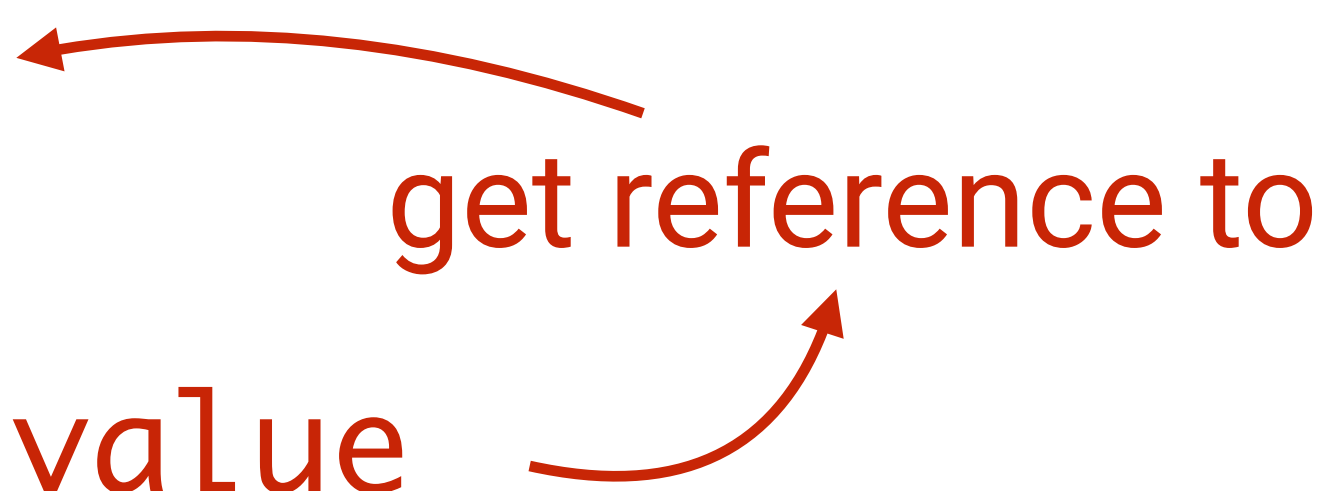


```
def counter(val):  
    value = val  
    def count():  
        nonlocal value  
        value += 1  
        return value  
    return count
```



The diagram consists of two red curved arrows. The first arrow starts from the text 'get reference to' and points to the variable 'value' in the line 'value = val'. The second arrow starts from the same text and points to the variable 'value' in the line 'nonlocal value'.

```
>>> c = counter(0)
```

```
>>> c()
```

1

```
>>> c()
```

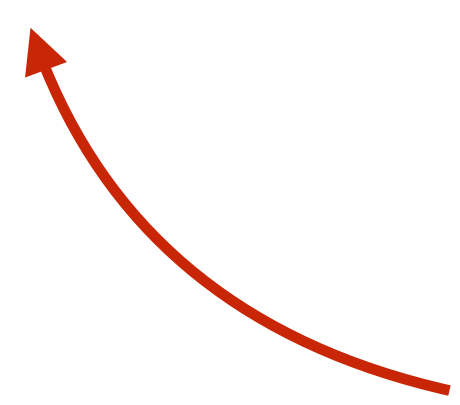
2

...

# 3. Bargaining

In search for help from higher power...

```
def print_my_name(func):  
    def new_func(*args, **kwargs):  
        print(func.__name__) # do stuff with func  
        return func(*args, **kwargs)  
    return new_func
```



This time returning the  
function as intended