

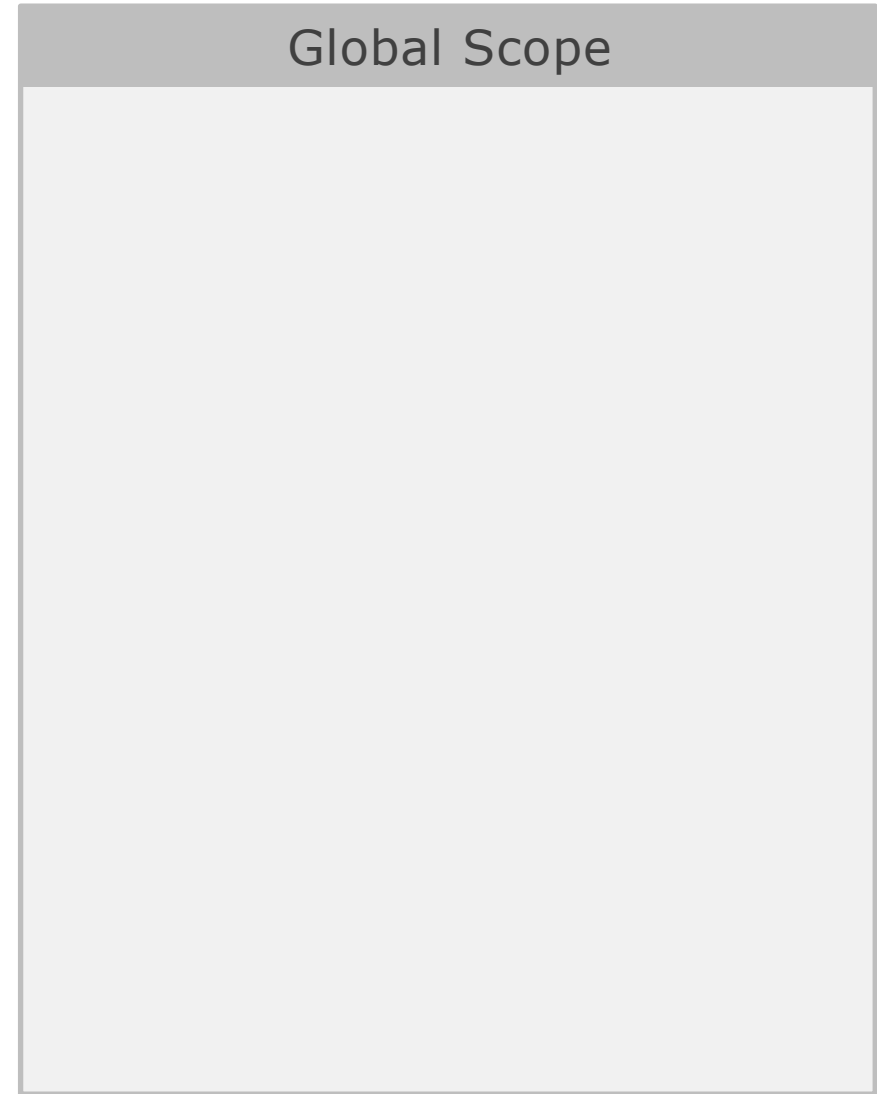
Scope

To know your limits





Output:



```
name = "Ahmed"
```

Output:

Global Scope

```
name = "Ahmed"
```



Lexical Scope

```
name = "Ahmed"

def outerFn():
    name = "Ali"

    def innerFn():
        print(name)

    innerFn()
```

Output:

Global Scope

```
name = "Ahmed"
```



Lexical Scope

```
name = "Ahmed"

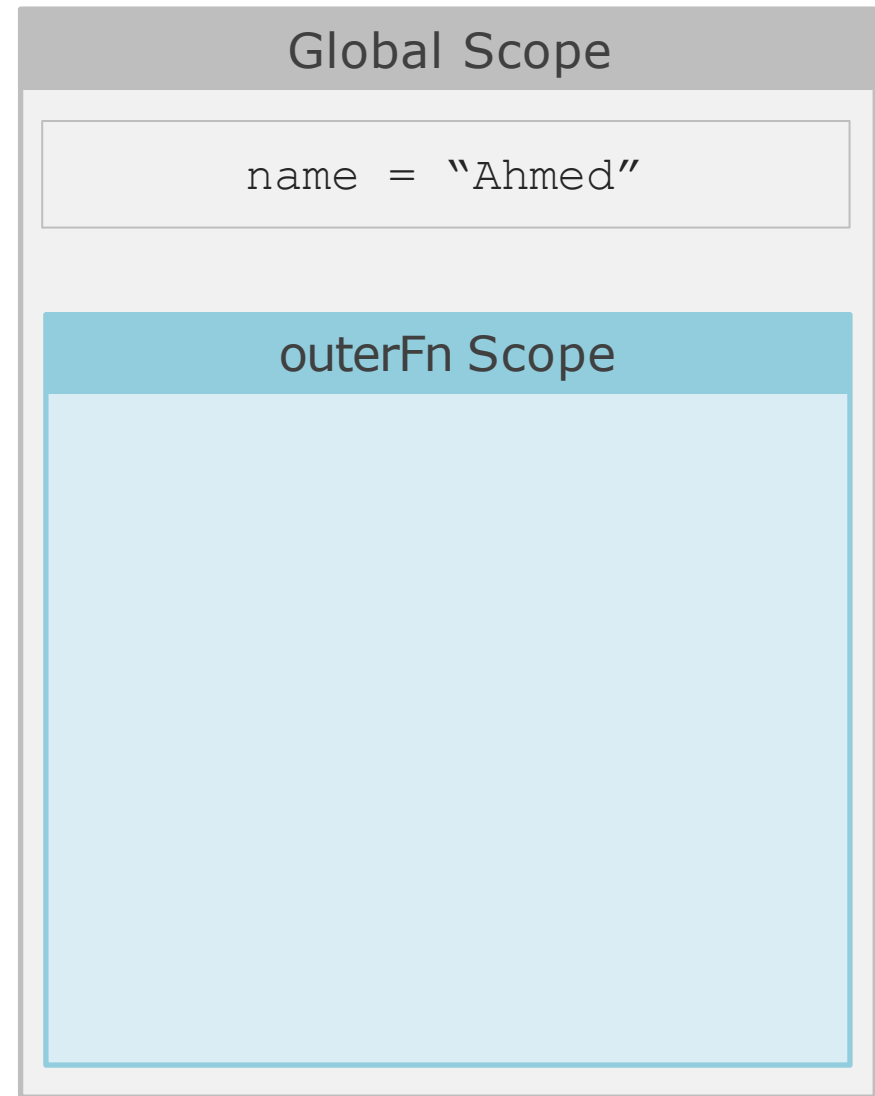
def outerFn():
    name = "Ali"

    def innerFn():
        print(name)

    innerFn()

outerFn()
```

Output:



Lexical Scope

```
name = "Ahmed"

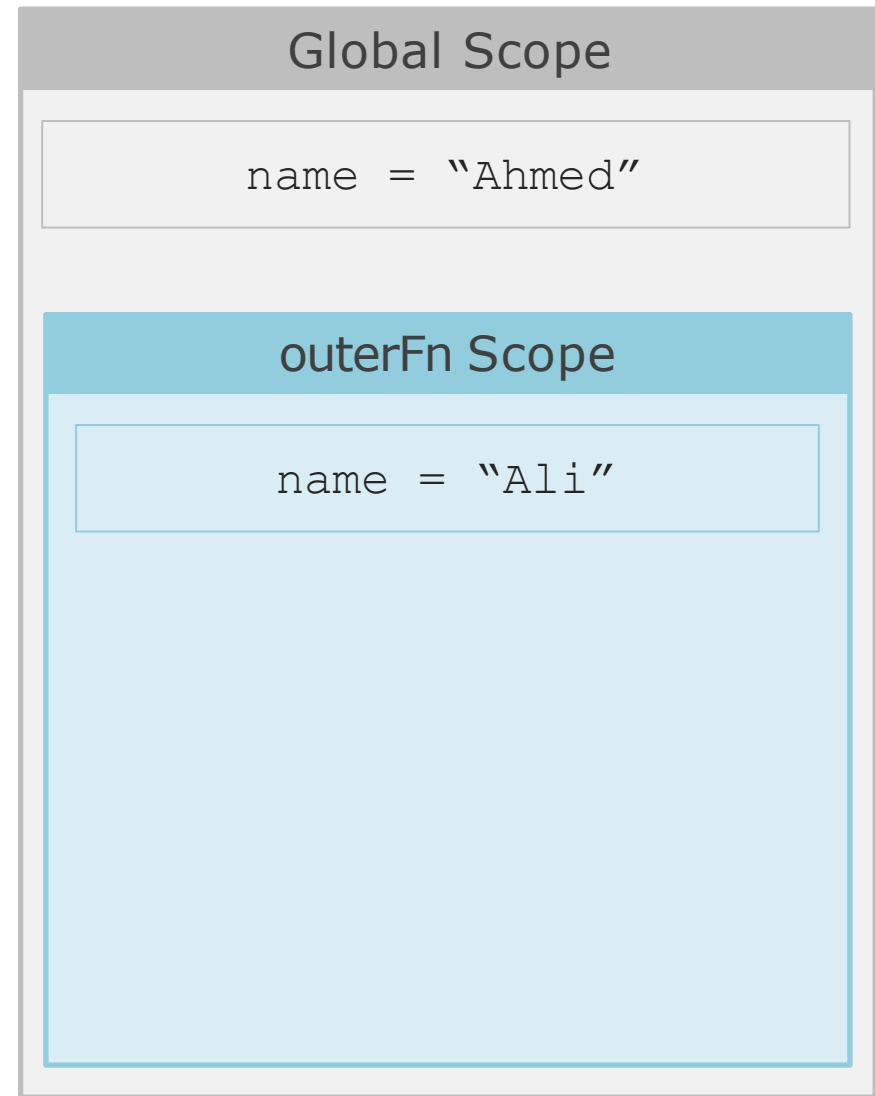
def outerFn():
    → name = "Ali"

    def innerFn():
        print(name)

    innerFn()

outerFn()
```

Output:



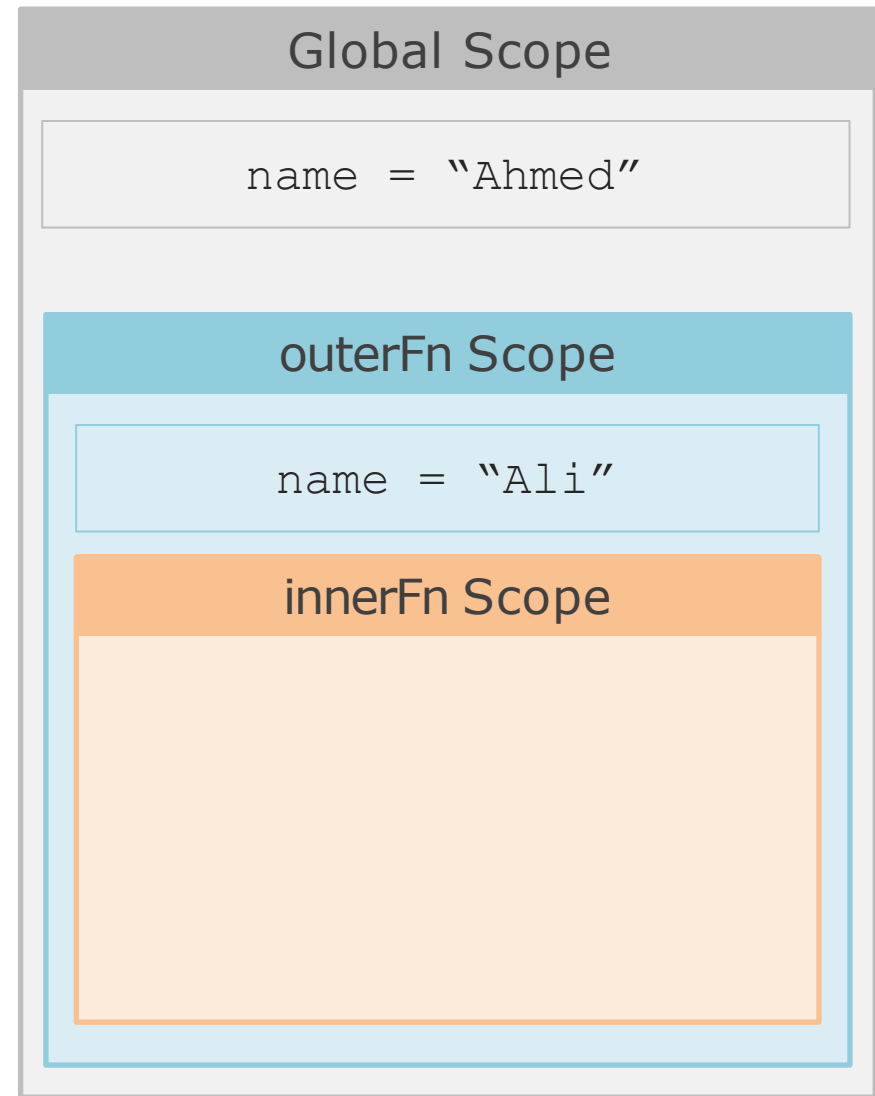
Lexical Scope

```
name = "Ahmed"

def outerFn():
    name = "Ali"
    def innerFn():
        print(name)
    → innerFn()

outerFn()
```

Output:



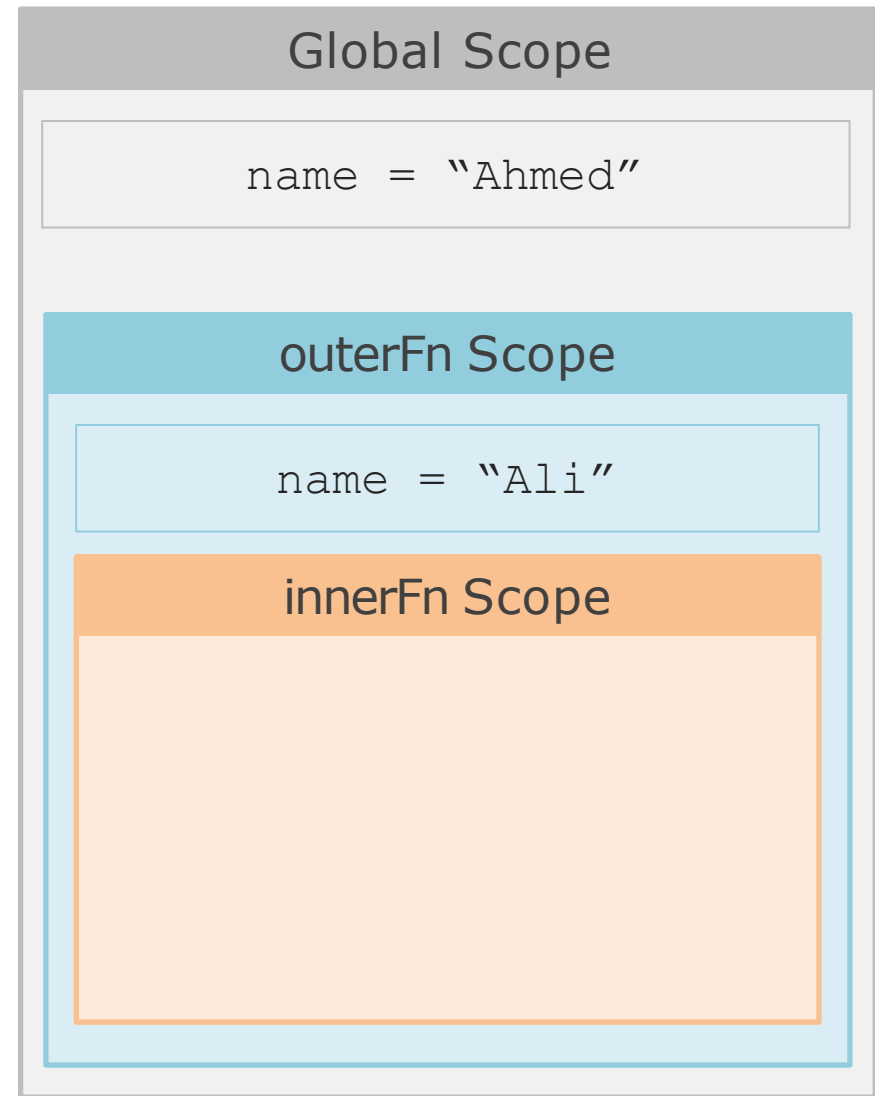
Lexical Scope

```
name = "Ahmed"

def outerFn():
    name = "Ali"
    def innerFn():
        → print(name)
    innerFn()

outerFn()
```

Output:



Lexical Scope

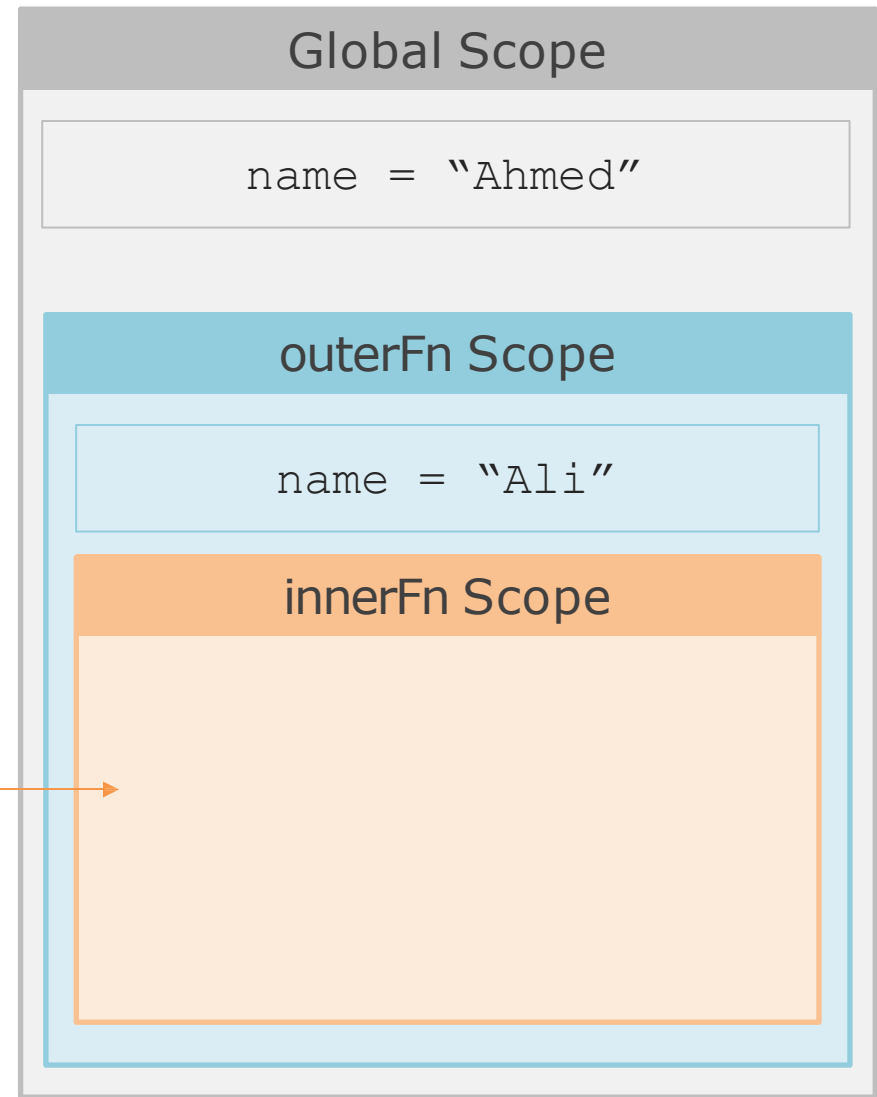
```
name = "Ahmed"

def outerFn():
    name = "Ali"
    def innerFn():
        → print(name)
    innerFn()

outerFn()
```

Output:

name
???



Lexical Scope

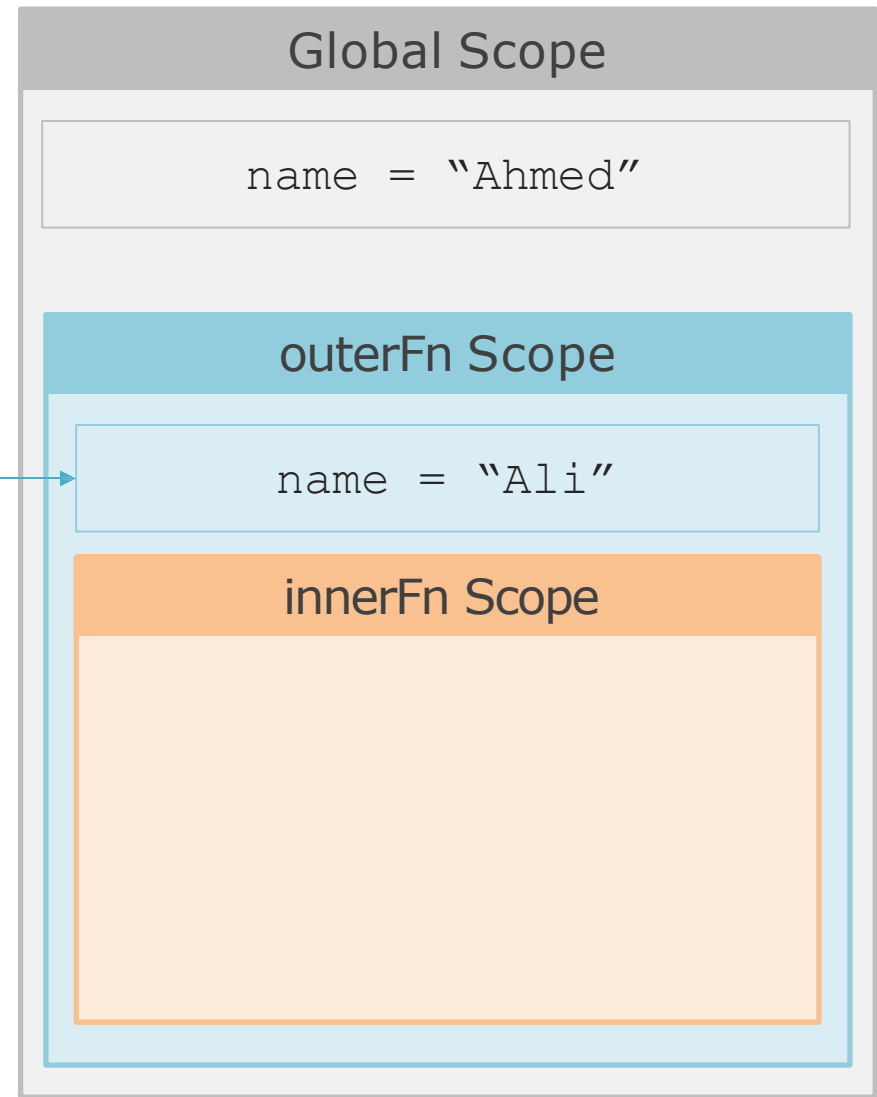
```
name = "Ahmed"

def outerFn():
    name = "Ali"
    def innerFn():
        → print(name)
    innerFn()

outerFn()
```

Output:

name
???



Lexical Scope

```
name = "Ahmed"

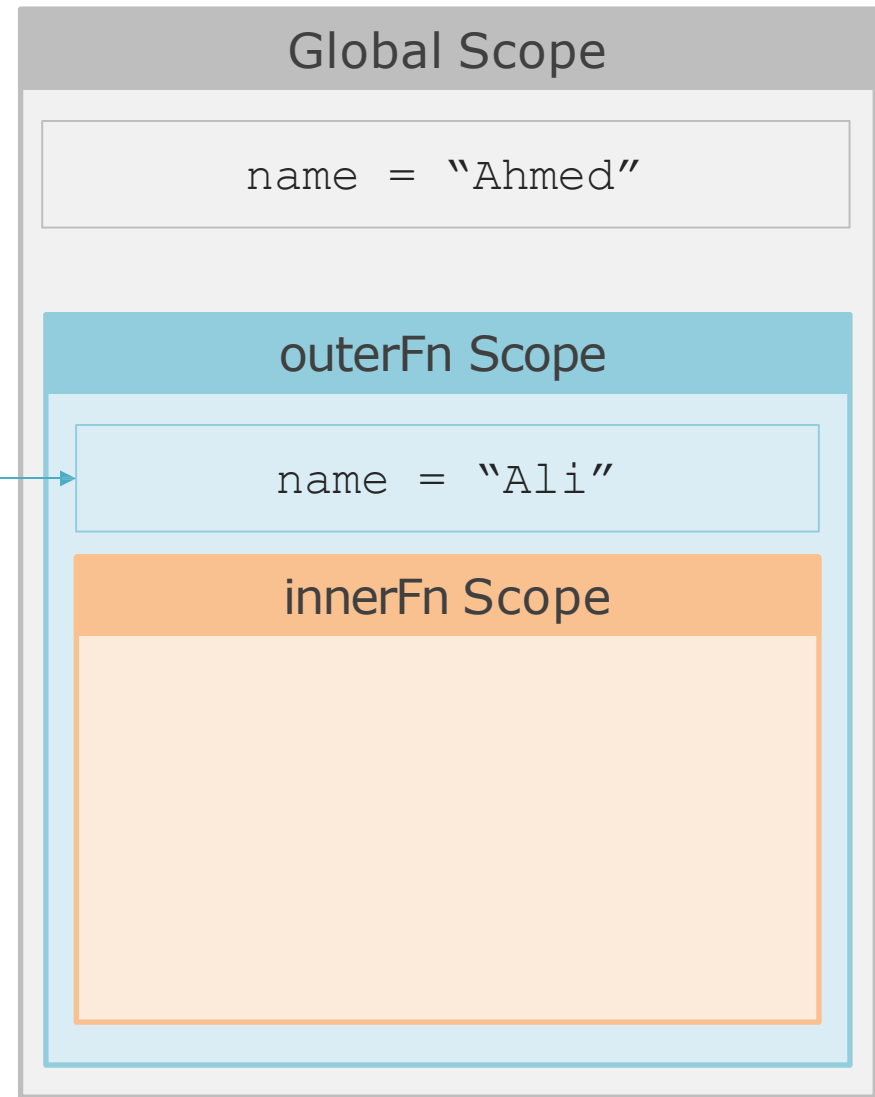
def outerFn():
    name = "Ali"
    def innerFn():
        → print(name)
    innerFn()

outerFn()
```

Output:

Ali

name
???



Lexical Scope

```
name = "Ahmed"

def outerFn():
    name = "Ali"

    def innerFn():
        print(name)

    innerFn()

outerFn()
print(name)
```

Output:

Ali

Global Scope

name = "Ahmed"



Lexical Scope

```
name = "Ahmed"

def outerFn():
    name = "Ali"

    def innerFn():
        print(name)

    innerFn()

outerFn()
print(name)
```

Output:

Ali

name
???



Global Scope

name = "Ahmed"



Lexical Scope

```
name = "Ahmed"

def outerFn():
    name = "Ali"

    def innerFn():
        print(name)

    innerFn()

outerFn()
print(name)
```

Output:

```
Ali
Ahmed
```

name
???



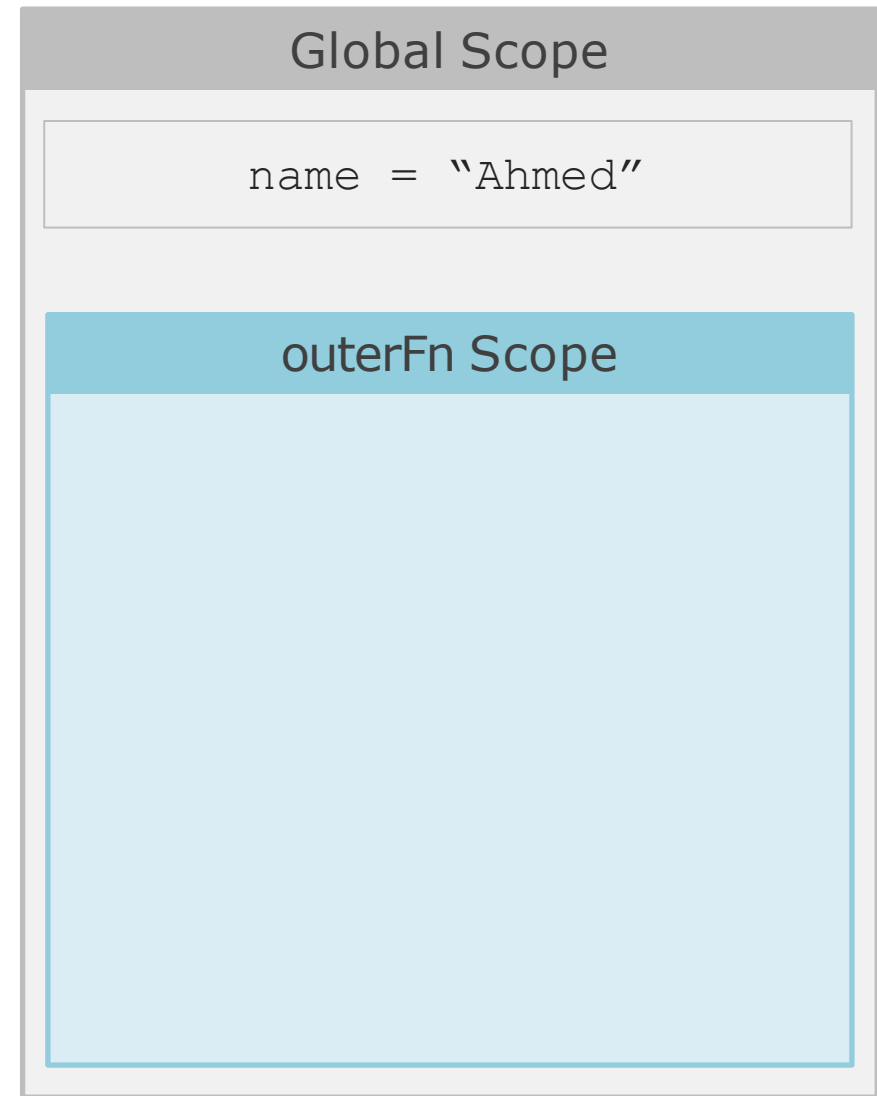
global Keyword

```
name = "Ahmed"

def outerFn():
    global name
    name = "Ali"
    def innerFn():
        print(name)
    innerFn()

outerFn()
```

Output:



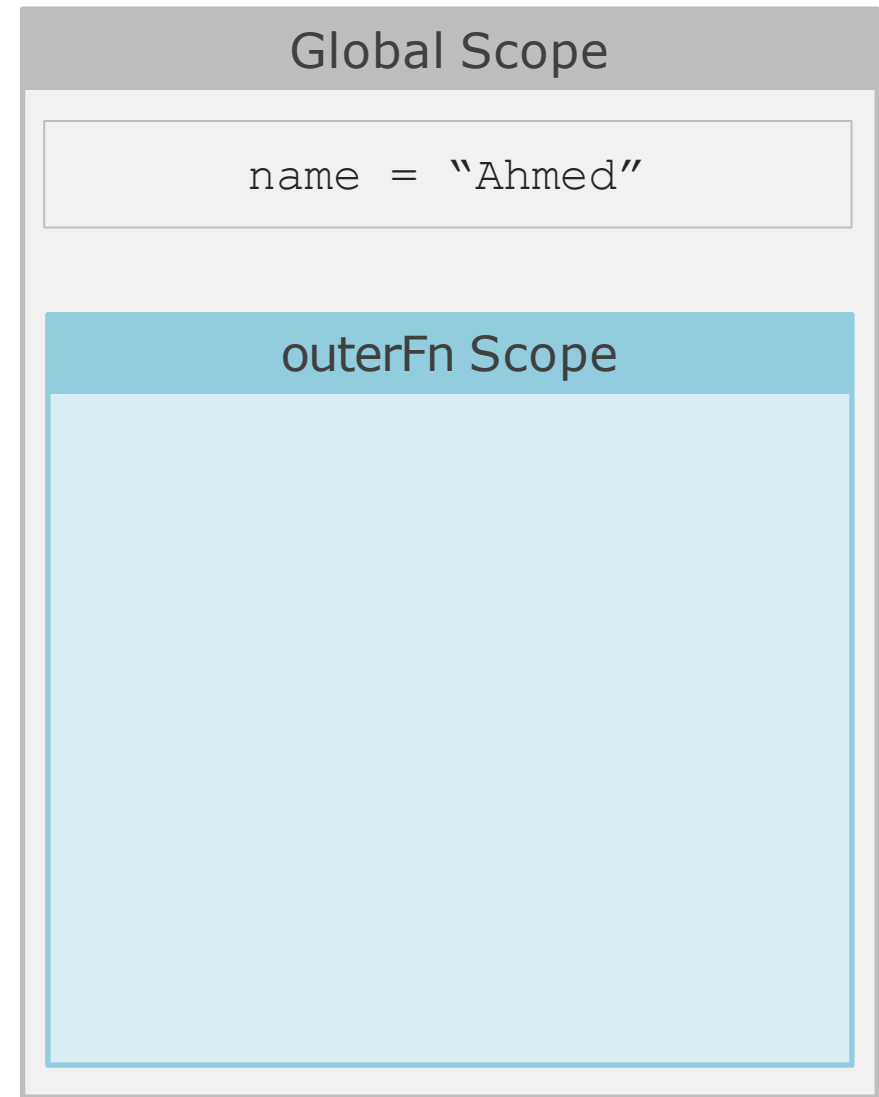
global Keyword

```
name = "Ahmed"

def outerFn():
    → global name
    name = "Ali"
    def innerFn():
        print(name)
    innerFn()

outerFn()
```

Output:



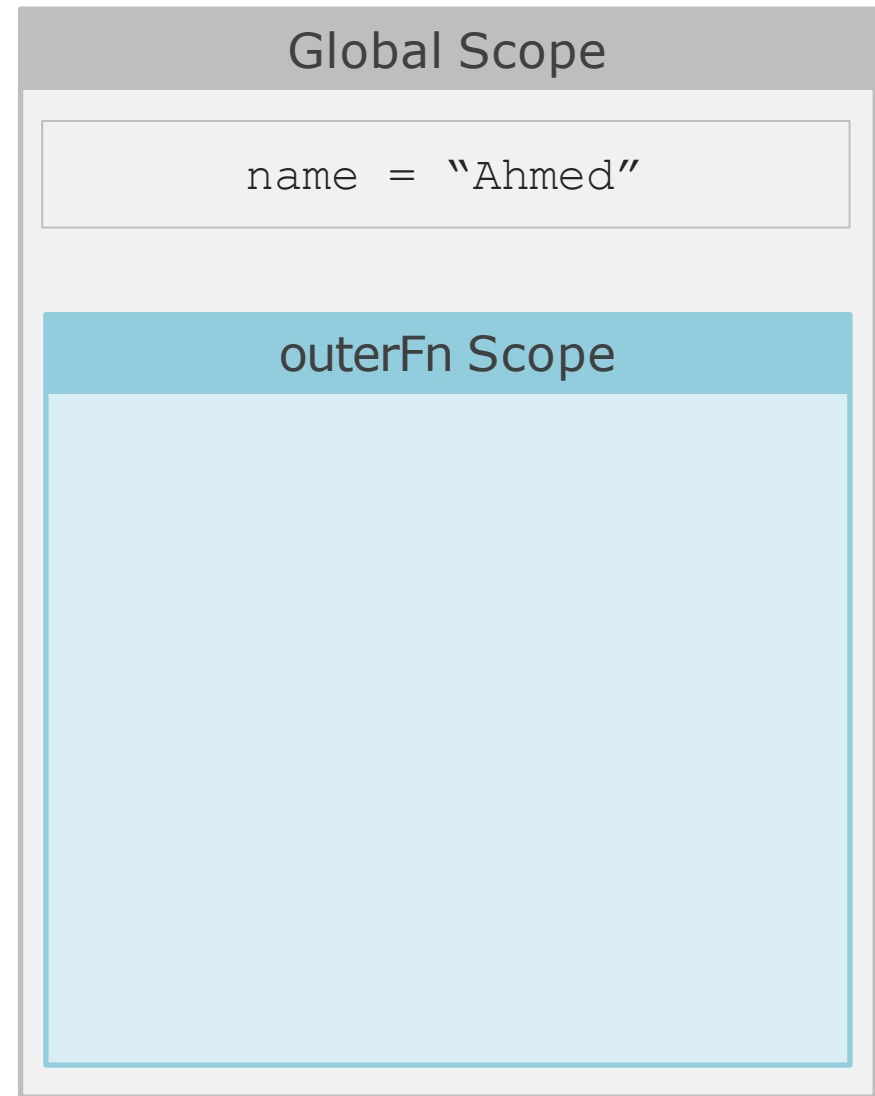
global Keyword

```
name = "Ahmed"

def outerFn():
    global name
    → name = "Ali"
    def innerFn():
        print(name)
    innerFn()

outerFn()
```

Output:



global Keyword

```
name = "Ahmed"

def outerFn():
    global name
    → name = "Ali"
    def innerFn():
        print(name)
    innerFn()

outerFn()
```

Output:

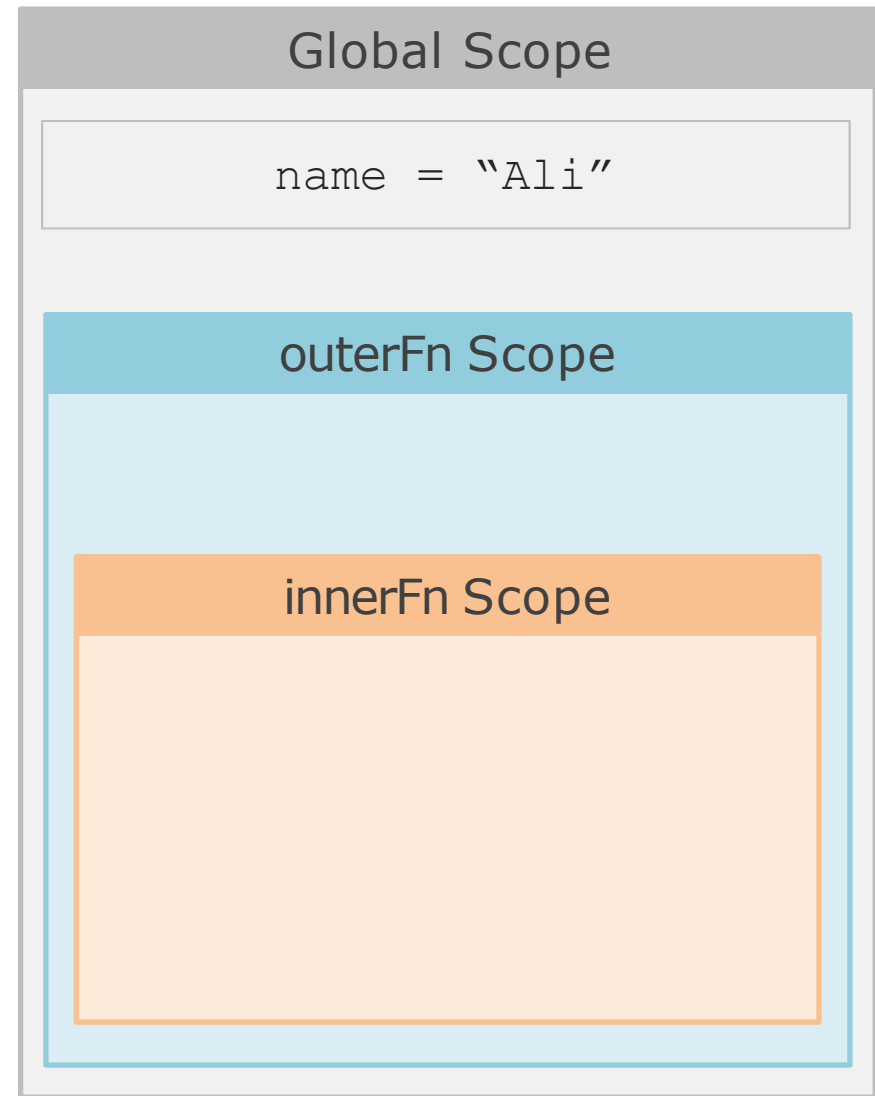


global Keyword

```
name = "Ahmed"

def outerFn():
    global name
    name = "Ali"
    def innerFn():
        print(name)
    → innerFn()
outerFn()
```

Output:



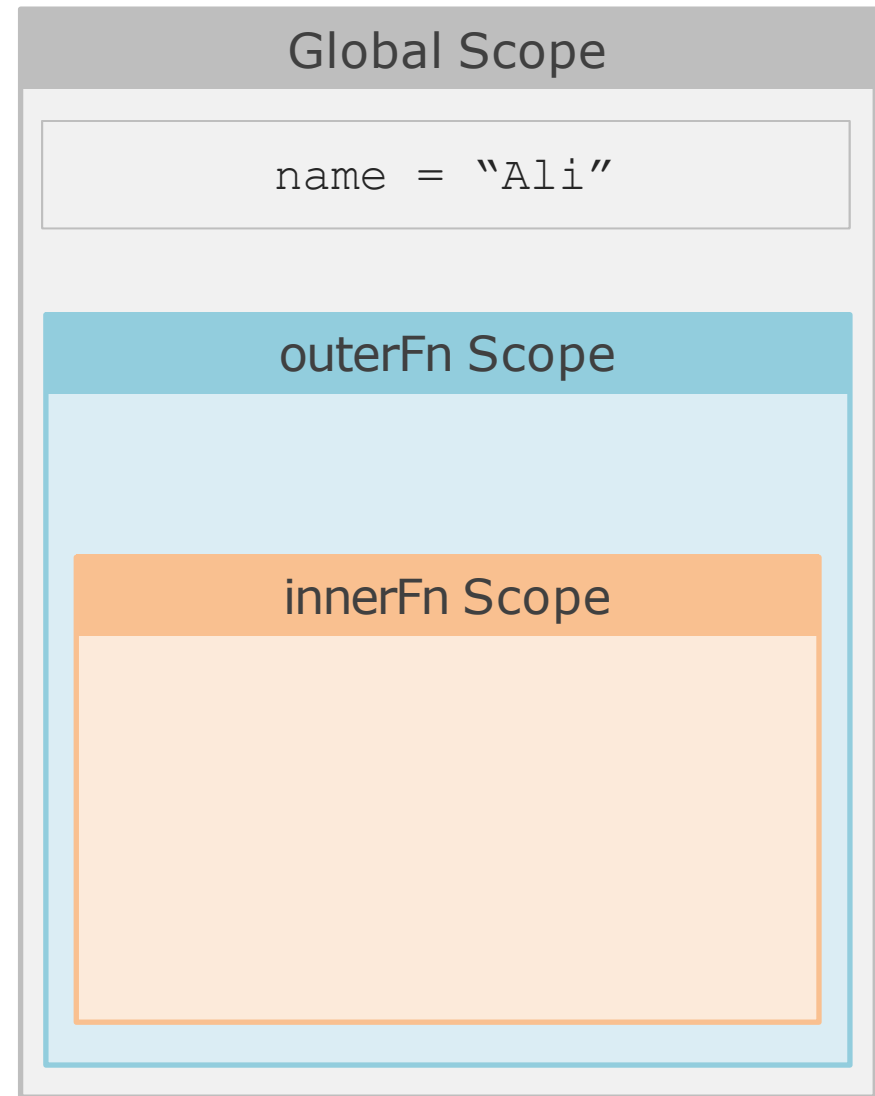
global Keyword

```
name = "Ahmed"

def outerFn():
    global name
    name = "Ali"
    def innerFn():
        → print(name)
    innerFn()

outerFn()
```

Output:



global Keyword

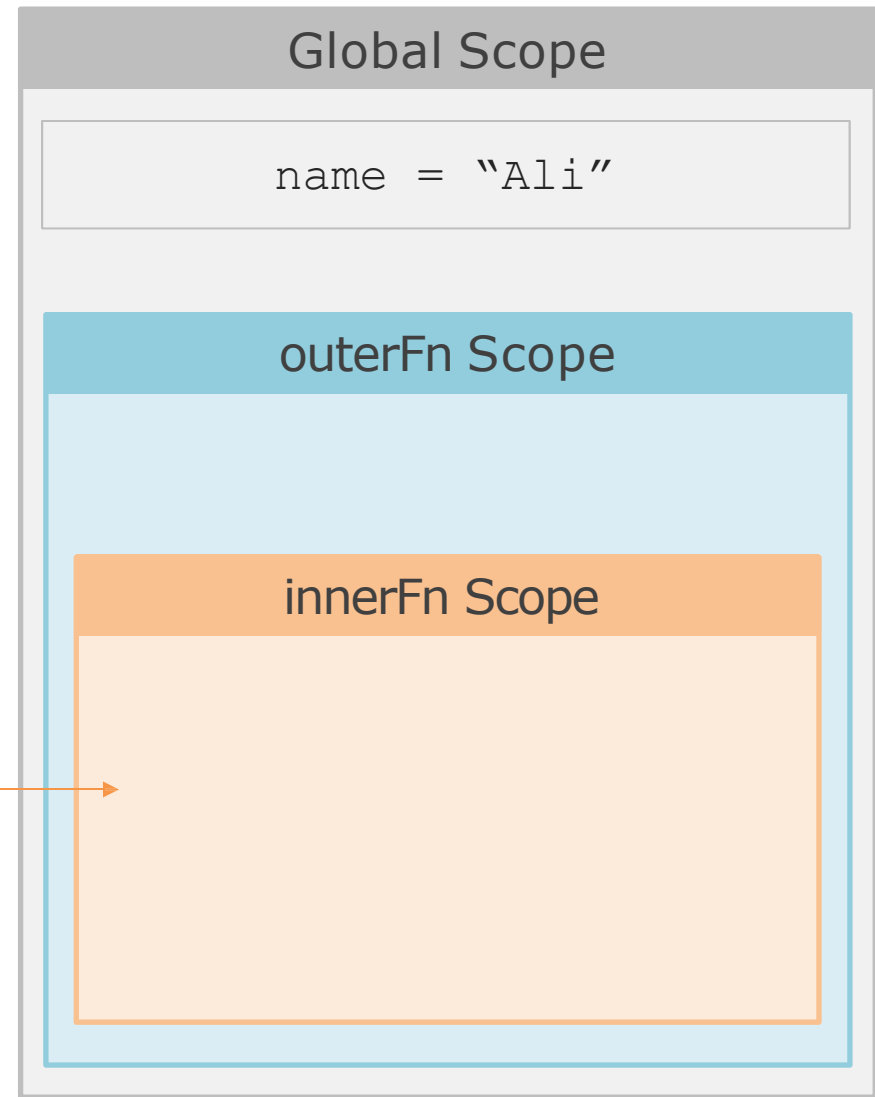
```
name = "Ahmed"

def outerFn():
    global name
    name = "Ali"
    def innerFn():
        → print(name)
    innerFn()

outerFn()
```

Output:

name
???



global Keyword

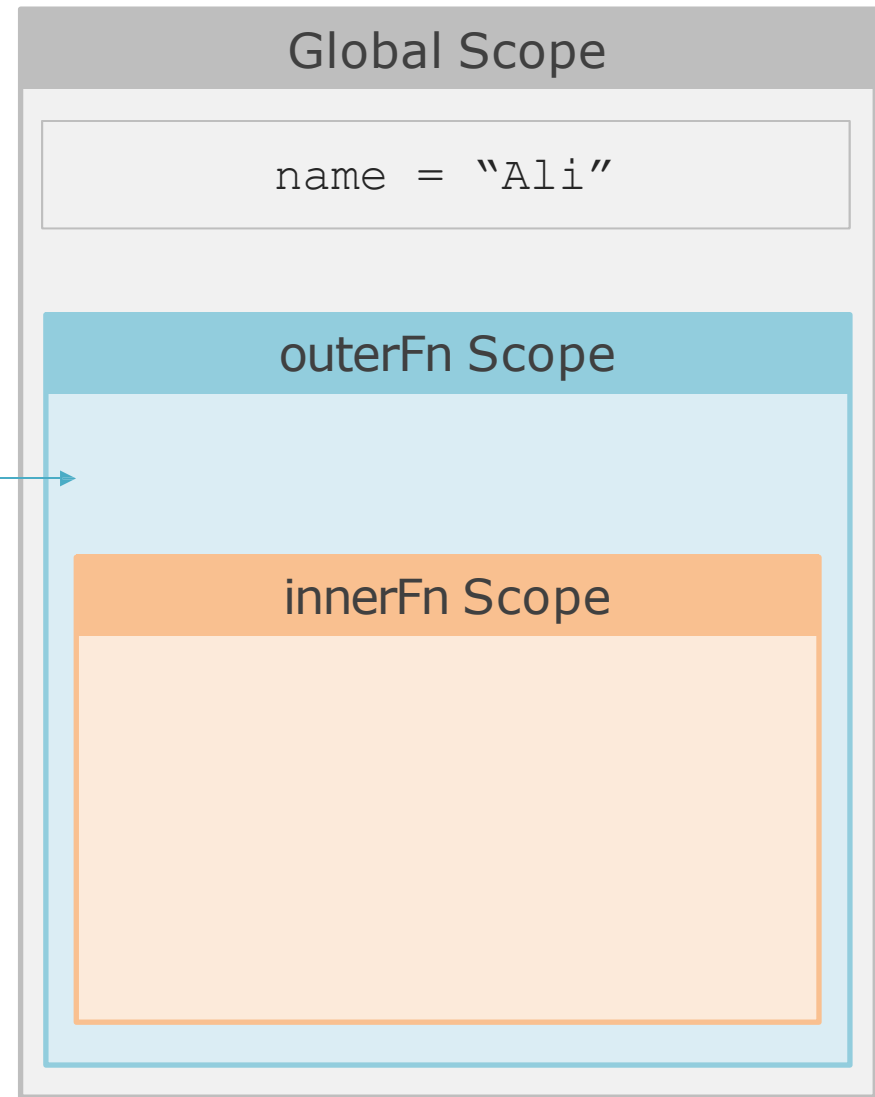
```
name = "Ahmed"

def outerFn():
    global name
    name = "Ali"
    def innerFn():
        → print(name)
    innerFn()

outerFn()
```

Output:

name
???



global Keyword

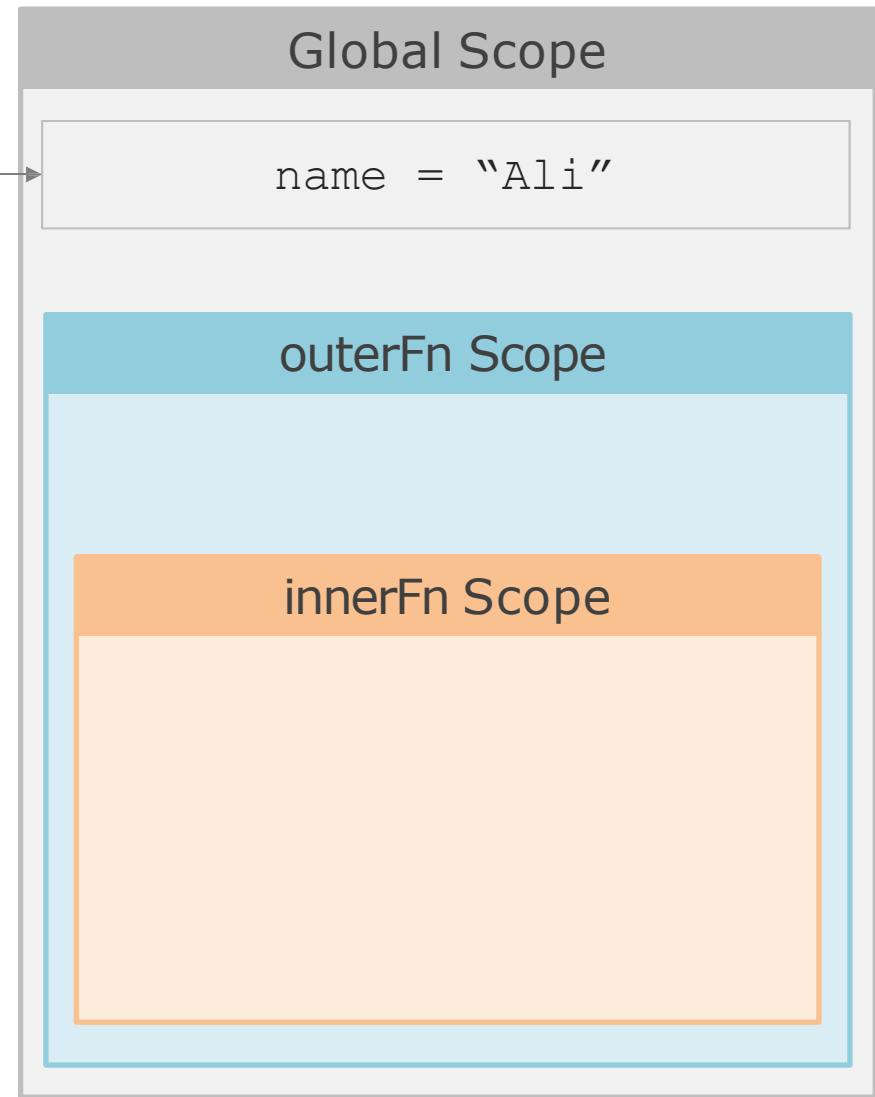
```
name = "Ahmed"

def outerFn():
    global name
    name = "Ali"
    →      print(name)
    innerFn()

outerFn()
```

Output:

name
???



global Keyword

```
name = "Ahmed"

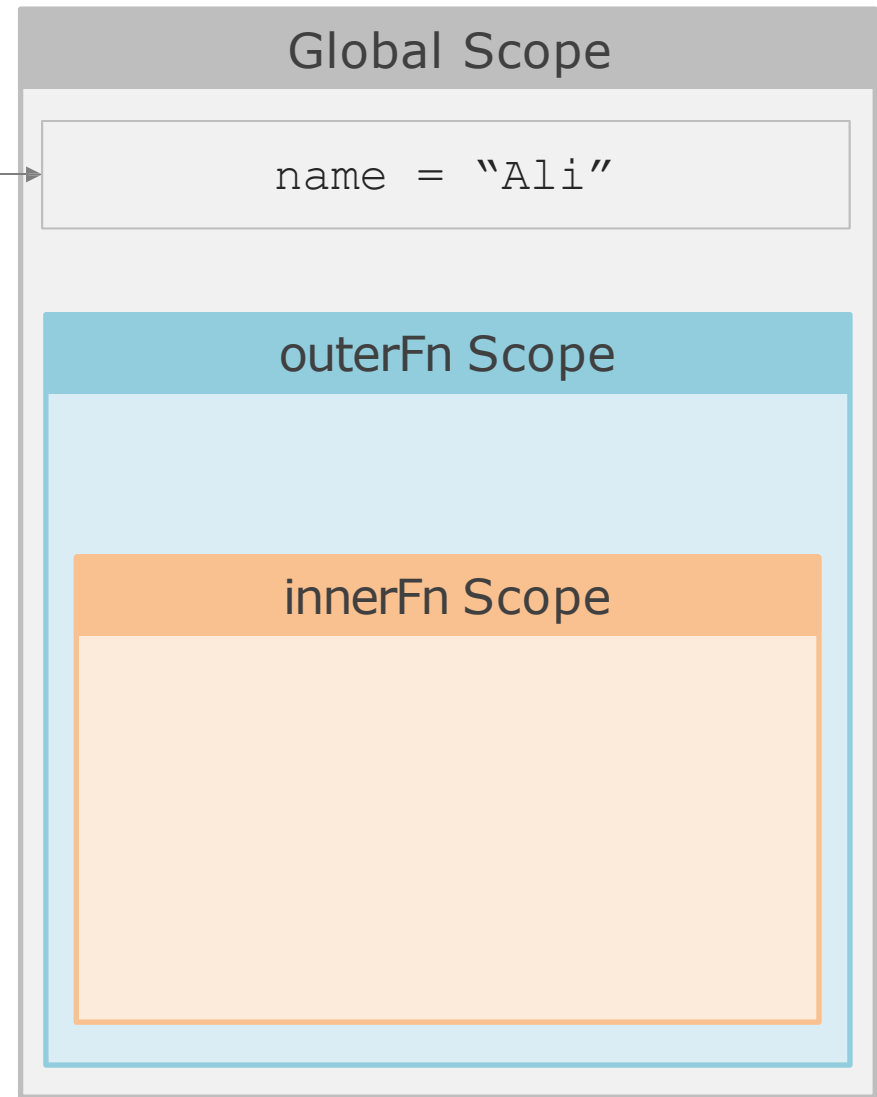
def outerFn():
    global name
    name = "Ali"
    def innerFn():
        → print(name)
    innerFn()

outerFn()
```

Output:

Ali

name
???



global Keyword

```
name = "Ahmed"

def outerFn():
    global name
    name = "Ali"
    def innerFn():
        print(name)
    innerFn()

outerFn()
```

Output:

Ali

name
???



Global Scope

name = "Ali"



global Keyword

```
name = "Ahmed"

def outerFn():
    global name
    name = "Ali"
    def innerFn():
        print(name)
    innerFn()

outerFn()
print(name)
```

Output:

Ali

Ali

name
???



Global Scope

name = "Ali"



nonlocal Keyword

```
name = "Ahmed"

def outerFn():
    → name = "Ali"
    def innerFn():
        nonlocal name
        print(name)
        name = "Sara"

    innerFn()
    print(name)

outerFn()
```

Output:



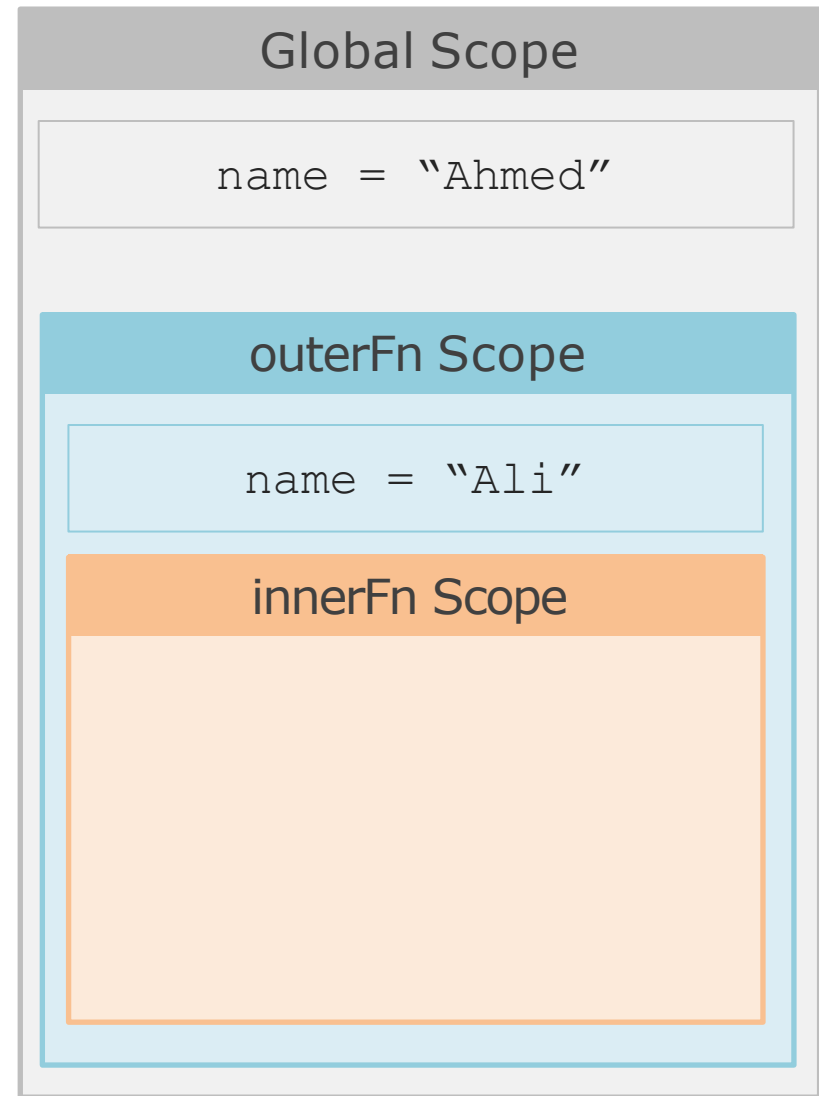
nonlocal Keyword

```
name = "Ahmed"

def outerFn():
    name = "Ali"
    def innerFn():
        nonlocal name
        print(name)
        name = "Sara"
    → innerFn()
    print(name)

outerFn()
```

Output:



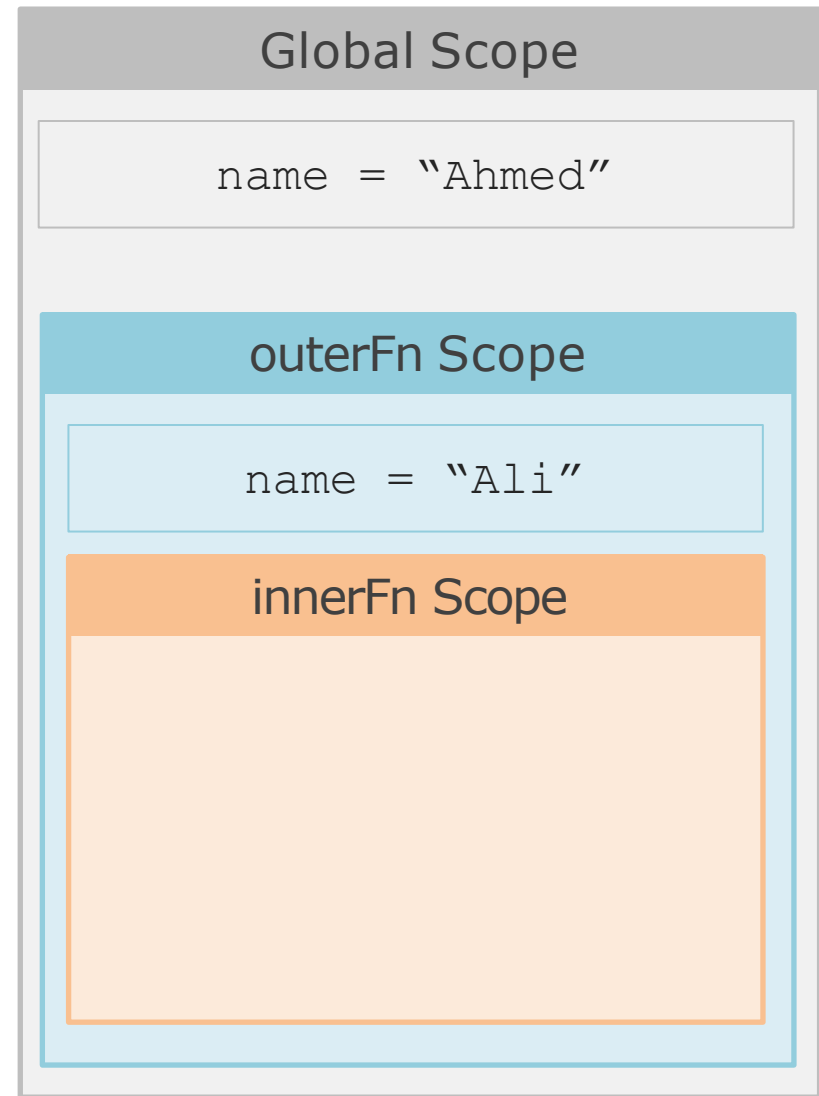
nonlocal Keyword

```
name = "Ahmed"

def outerFn():
    name = "Ali"
    def innerFn():
        → nonlocal name
        print(name)
        name = "Sara"
    innerFn()
    print(name)

outerFn()
```

Output:



nonlocal Keyword

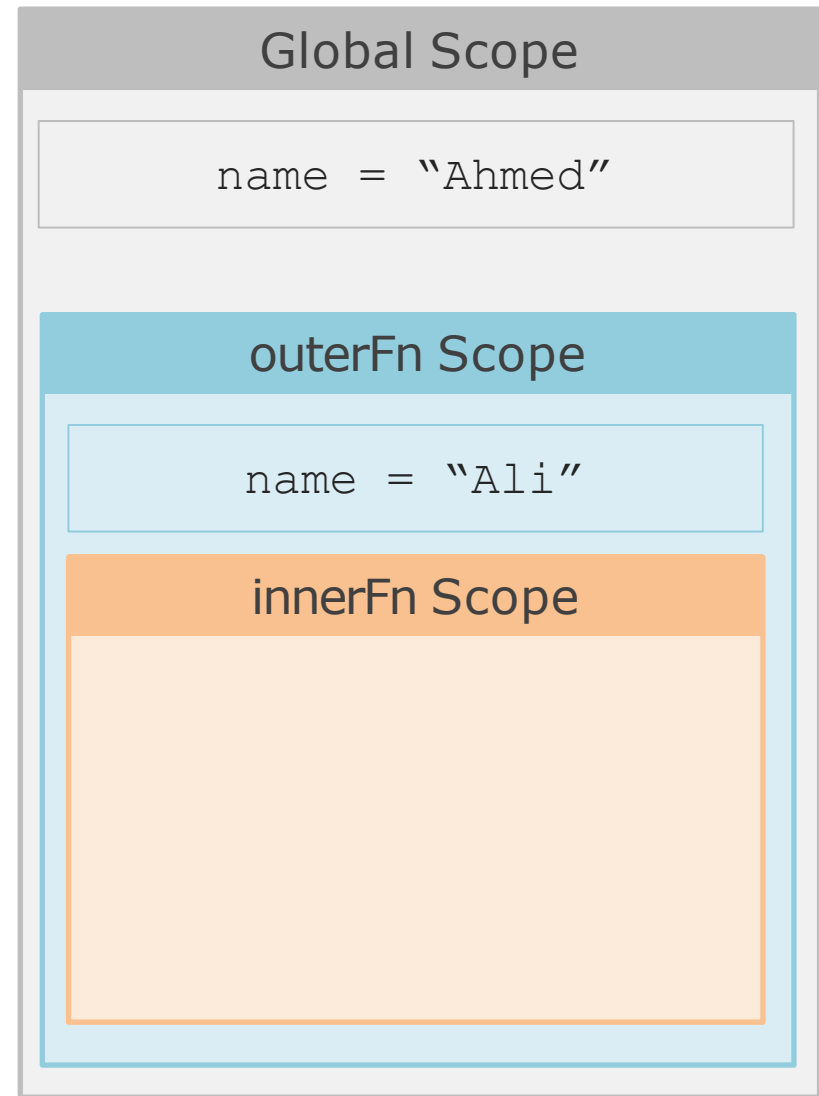
```
name = "Ahmed"

def outerFn():
    name = "Ali"
    def innerFn():
        nonlocal name
        → print(name)
        name = "Sara"
    innerFn()
    print(name)

outerFn()
```

Output:

Ali



nonlocal Keyword

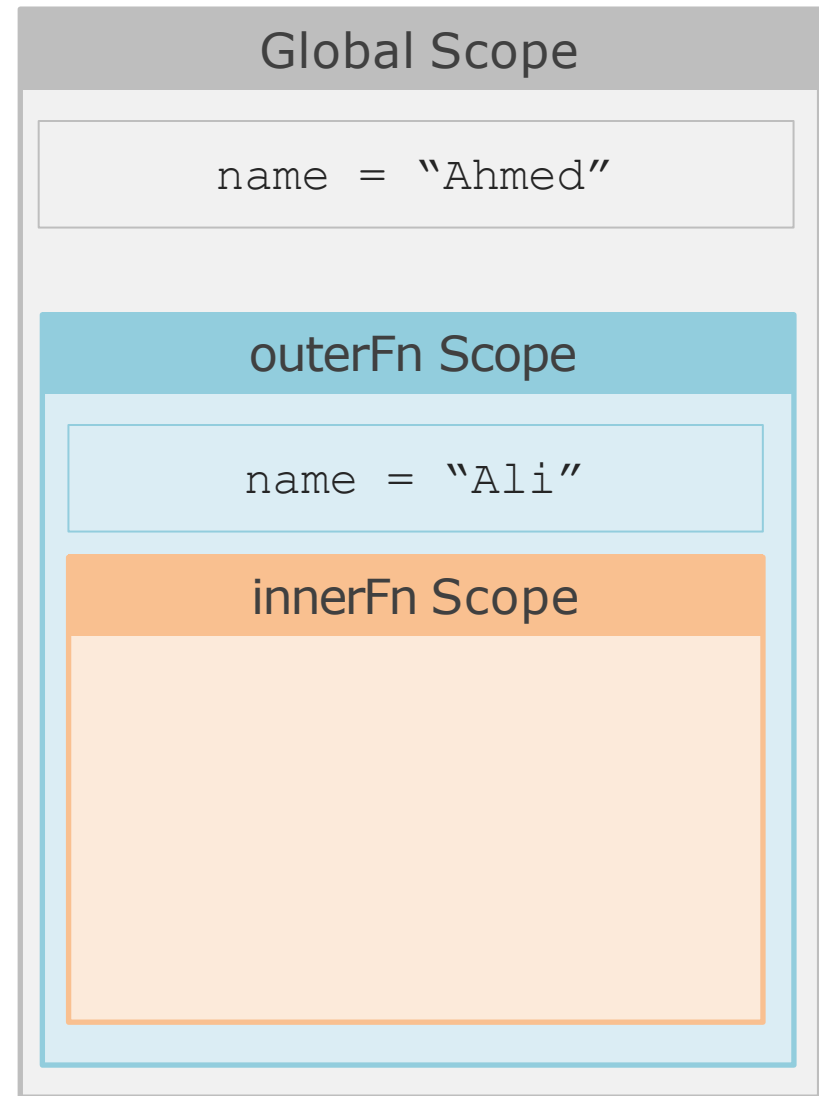
```
name = "Ahmed"

def outerFn():
    name = "Ali"
    def innerFn():
        nonlocal name
        print(name)
        → name = "Sara"
    innerFn()
    print(name)

outerFn()
```

Output:

Ali



nonlocal Keyword

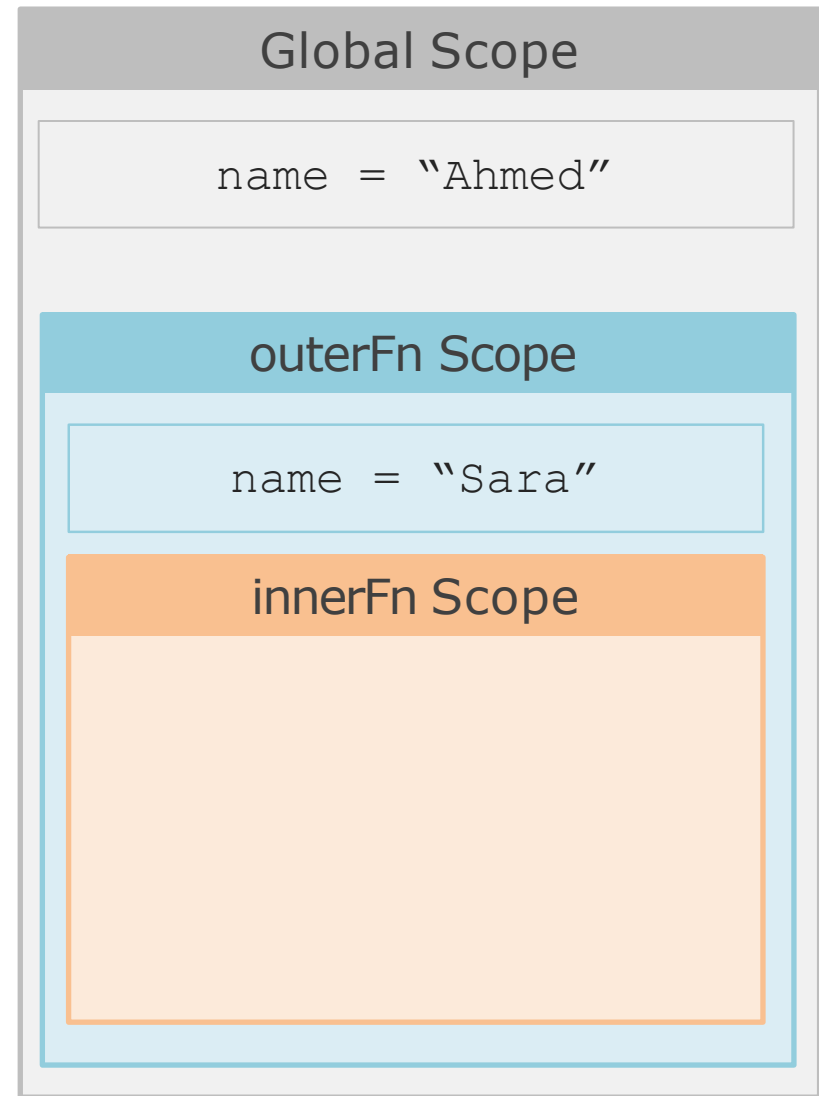
```
name = "Ahmed"

def outerFn():
    name = "Ali"
    def innerFn():
        nonlocal name
        print(name)
        → name = "Sara"
    innerFn()
    print(name)

outerFn()
```

Output:

Ali



nonlocal Keyword

```
name = "Ahmed"

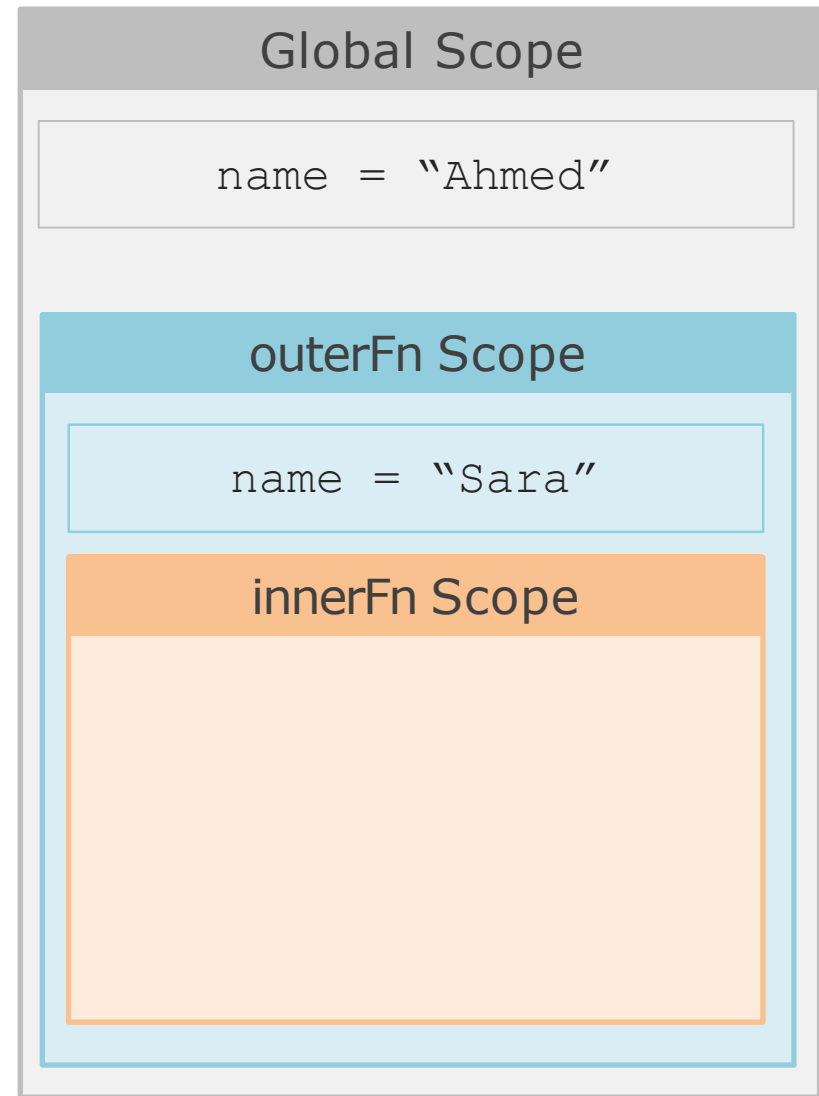
def outerFn():
    name = "Ali"
    def innerFn():
        nonlocal name
        print(name)
        name = "Sara"

    innerFn()
    → print(name)

outerFn()
```

Output:

Ali



nonlocal Keyword

```
name = "Ahmed"

def outerFn():
    name = "Ali"
    def innerFn():
        nonlocal name
        print(name)
        name = "Sara"

    innerFn()
    → print(name)

outerFn()
```

Output:

```
Ali
Sara
```

