

Local & Global Scope

What is a variable scope?

Where a variable can be accessed

Global or local

In Python, functions have local scope

Local variables

```
def seattle():  
    dogs = 1000  
    print('Seattle has', dogs, 'dogs.')
```

```
def Bellevue():  
    dogs = 2000  
    print('Bellevue has', dogs, 'dogs.')
```

Program output:

Seattle has 1000 dogs.

Bellevue has 2000 dogs.

Variables declared inside a function only exist inside that function

When a function call ends, the variable is deleted

When the function is called again, it is declared again

myProgram.py

```
x = 1
# x can be accessed here, y cannot

def myFn():
    y = 2
    # both x and y can be accessed here
```

Modifying global variables

```
my_string = "Set in global scope"

def main():
    my_string = "Set in local scope"

main()
print(my_string)
```

Result from running this code:

```
Set in global scope
```

Modifying global variables

```
my_string = "Set in global scope"

def main():
    ... global my_string
    ... my_string = "Set in local scope"

main()
print(my_string)
```

Result from running this code:

```
Set in local scope
```