



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.')
```

```
# 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



Global variables



myProgram.py

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

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

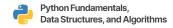


Modifying global variables



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