

Lambda Functions (Anonymous Functions)

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Example

A **lambda function** in Python is a small, anonymous function that can have any number of arguments but only one expression. It's used for quick, throwaway functions where defining a full function is unnecessary.

Syntax

lambda arguments: expression

```
{ # Normal function  
def square(x):  
    return x * x
```

```
print(square(5))
```

```
# Output: 25
```

```
{ # Equivalent lambda function  
square_lambda = lambda x: x * x  
print(square_lambda(5))
```

```
# Output: 25
```

Lambda with Multiple Arguments

```
add = lambda x, y: x + y  
print(add(3, 7))  
# Output: 10
```

Lambda Inside Another Function

```
def multiplier(n):  
    return lambda x: x * n  
times2 = multiplier(2)  
print(times2(5))  
# Output: 10
```