



LAMBDA FUNCTIONS

Function
Components

Defining
Functions

Variable Scope

Modules

Packages

Lambda
Functions

Comprehensions

Lambda functions are single line, anonymous functions that are only used briefly

- **lambda** arguments: expression

```
(lambda x: x**2) (3)
```

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Lambda functions can be called on a single value, but typically aren't used for this

```
(lambda x: x**2, x**3)(3)
```

NameError

They cannot have multiple outputs or expressions

```
(lambda x, y: x * y if y > 5 else x / y)(6, 5)
```

1.2

They can take multiple arguments and leverage conditional logic

```
price_list = [5.99, 19.99, 24.99, 0, 74.99, 99.99]  
exchange_rate = 0.88
```

```
converted = map(lambda x: round(x * exchange_rate, 2), price_list)  
list(converted)
```

[5.27, 17.59, 21.99, 0.0, 65.99, 87.99]

They are usually leveraged in combination with a function like `map()` or in a comprehension.