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Python Functions

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A function is a block of code which only runs when it is called.

You can pass data, known as parameters, into a function.

A function can return data as a result.

Creating a Function

In Python a function is defined using the def keyword:

```
Example
```

```
def my_function():
    print("Hello from a function")
```

Calling a Function

To call a function, use the function name followed by parenthesis:



Parameters

Information can be passed to functions as parameter.

Parameters are specified after the function name, inside the parentheses. You can add as many parameters as you want, just separate them with a comma.

The following example has a function with one parameter (fname). When the function is called, we pass along a first name, which is used inside the function to print the full name:

```
Example

def my_function(fname):
    print(fname + " Refsnes")

my_function("Emil")
    my_function("Tobias")
    my_function("Linus")
Run example »
```





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The following example shows how to use a default paramter value.

If we call the function without parameter, it uses the default value:

```
Example
 def my_function(country = "Norway"):
   print("I am from " + country)
 my_function("Sweden")
 my_function("India")
 my_function()
 my_function("Brazil")
 Run example »
```

Return Values

To let a function return a value, use the **return** statement:

```
Example
 def my_function(x):
   return 5 * x
 print(my_function(3))
 print(my_function(5))
 print(my_function(9))
 Run example »
```

Lambda Functions





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adaptable functions, and thus good for event handling.

Example

An anonymous function that returns the double value of i:

```
myfunc = lambda i: i*2
print(myfunc(2))
Run example »
```

Lambda defined functions can have more than one defined input, as shown here:

```
Example
 myfunc = lambda x,y: x*y
 print(myfunc(3,6))
 Run example »
```

The power of lambda is better shown when you generate anonymous functions at run-time, as shown in the following example.

```
Example
```

```
def myfunc(n):
  return lambda i: i*n
doubler = myfunc(2)
tripler = myfunc(3)
val = 11
print("Doubled: " + str(doubler(val)) + ". Tripled: " +
str(tripler(val)))
```





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Here we see the defined function, myfunc, which creates an anonymous function that multiplies variable $\dot{\mathbf{1}}$ with variable n.

We then create two variables doubler and tripler, which are assigned to the result of myfunc passing in 2 and 3 respectively. They are assigned to the generated lambda functions.

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