



Javascript - Introduction to functions

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We will start with the following concepts

- 1) What are functions?
- 2) Defining functions
- 3) Calling the function
- 4) Parameters and Argument

Real life programs can contain hundreds of line of instruction that have to be executed at different times

- We may need to group a certain set of instructions together so that we don't have to re-write them again and again.
- This can help us better organize your program and make it easy to extend.
- We may also need to pass different pieces of information to same kind of logic to attain to different kind of results. (for example - a piece of code to calculate percentage of marks obtained by a student can be used for any student or any class)

Functions are how you write these organized pieces of code and use them together

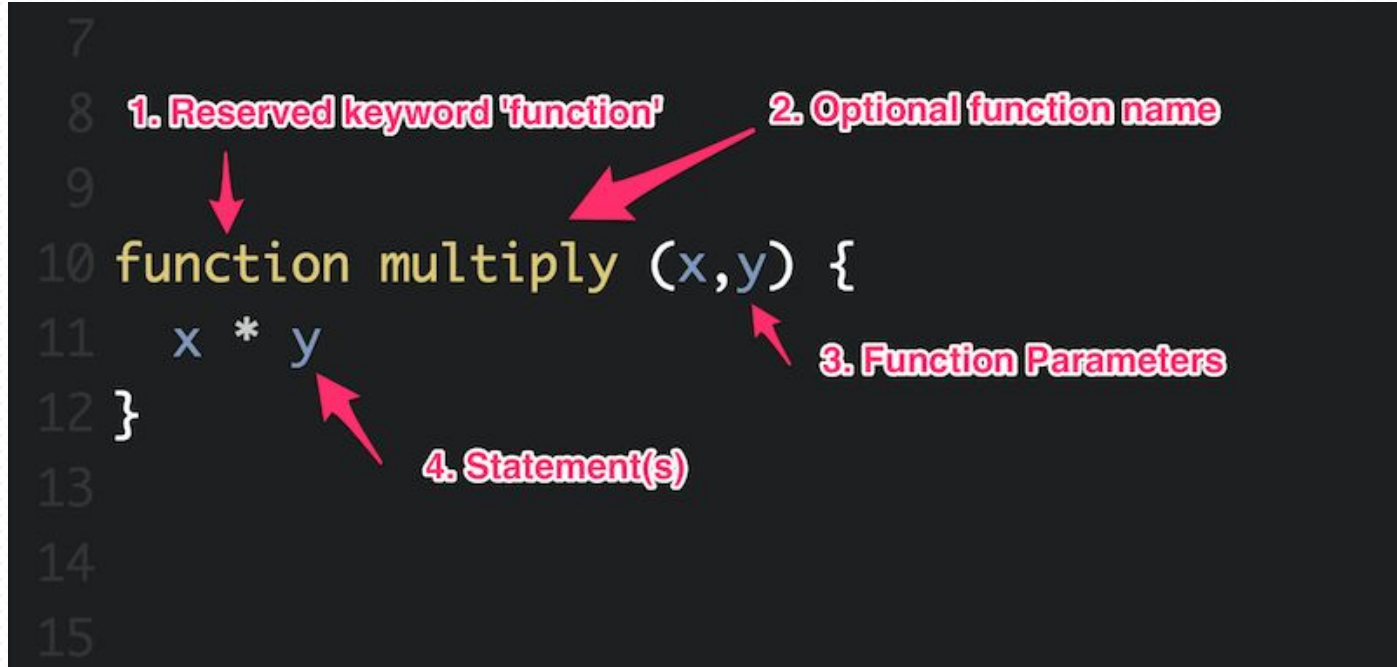
```
7
8
9
10 function multiply (x,y) {
11     x * y
12 }
13
14
15
```

1. Reserved keyword 'function'

2. Optional function name

3. Function Parameters

4. Statement(s)



Defining a function is okay, but how do we call it to action?

- You have to write the name of the function followed by ()
- If the function is expecting some input, then you have pass that as well while calling the functions.
- Lets see them in action.

Remember the difference between parameter and argument

- Parameter are what we define in function definition.
- Arguments are what we pass while calling the function.

```
function multiply (x, y) {  
  return x * y  
}
```

PARAMETERS

```
alert(multiply(2, 3))
```

ARGUMENTS

Thinking in terms of Function is critical to writing good javascript code

- Lets imagine your are writing code to generate the linkedIN Dashboard. Think of the functions that you will have to write !!

The next steps are ...

- Functions - Special Functions