

🚩 Current Skill User-Defined Functions

## User-Defined Functions

### Function declarations:

In most programming and scripting languages, there are some built-in functions that are kept in a library. The really interesting part is that we can write our own functions, (also called 'User Defined Functions' or 'UDF') to perform specialized tasks.

Before using a function, we must first define it somewhere in the scope from which we wish to call it. Defining your own function in JavaScript is a simple task.

A classical function declaration begins with the keyword **function**, followed by:

- The name of the newly created function
- A list of parameters the function accepts enclosed in parentheses and separated by commas
- A block of JavaScript code enclosed in curly braces, { }, to be executed when the function is called
- The opening curly brace { indicates the beginning of the function code and the closing curly brace } marks the termination of a function



```
function functionName(param1,param2..paramN){  
    // block of JavaScript code  
}
```

## User-Defined Functions

**Function expressions:** Making functions while using a variable as a reference

We can also define functions without placing the name between the function keyword and the argument list. This structure is great if you want to create a reference to it using a variable.



/\ Remember, subtract is still a variable, in this case it just contains a function.

```
var subtract = function( a, b ) {  
    return a - b;  
}
```



# User-Defined Functions

To sum it up, we can declare a function in two ways. Let's say we want to define a function that calculates the cube of the argument passed to it. You can do it in one of two ways:



*PS: In arithmetic and algebra, the cube of a number  $n$  is its third power, the result of the number multiplied by itself twice:  $n^3 = n \times n \times n$ .*

The function "cube" takes one argument, called  $n$ . There is only one JavaScript statement in the function body which instructs to return the argument ( $n$ ) of the function after multiplying it by itself twice. Here, the return statement returns the calculated value.



*// Example 1: (Classic Function Declaration)*

```
function cube(n){
```

```
  return n*n*n;
```

```
}
```



*// Example 2: (Function Expression)*

```
var cube = function(n){
```

```
  return n*n*n;
```

```
}
```



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