

# JavaScript Function Definitions

- description : JavaScript Function Definitions
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## Source of the article

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JavaScript      function  
\_\_\_\_\_ (function declaration)        \_\_\_\_\_ (function expression)

## Function Declarations

```
function functionName(parameter) {  
    // code to be executed  
}
```

( ) . . . “ ” ,

```
<!DOCTYPE html>  
<html lang="en">  
<body>  
  
<h2>JavaScript Functions</h2>  
  
<p>  
    This example calls a function which performs a calculation and returns  
    the result:  
</p>  
  
<p id="demo"></p>  
  
<script>  
    var x = myFunction(4, 3);  
    document.getElementById("demo").innerHTML = x;
```

```
function myFunction(a, b) {
    return a * b;
}
</script>

</body>
</html>
```

가      JavaScript      가 ,

## Function Expressions

JavaScript      (expression)

:

```
<!DOCTYPE html>
<html lang="en">
<body>

<p>A function can be stored in a variable:</p>
<p id="demo"></p>

<script>
    var x = function (a, b) { return a * b };
    document.getElementById("demo").innerHTML = x;
</script>

</body>
</html>
```

,      :

```
<!DOCTYPE html>
<html lang="en">
<body>

<p>After a function has been stored in a variable, the variable can be used as a function:</p>

<p id="demo"></p>

<script>
    var x = function (a, b) { return a * b };
```

```

document.getElementById("demo").innerHTML = x(4, 3);
</script>

</body>
</html>

```

(anonymous function) ( )

( )

가

## The Function() Constructor

, JavaScript      function  
Function()            JavaScript      (constructor)

```

var myFunction = new Function("a", "b", "return a * b");

var x = myFunction(4, 3);

```

가

```

var myFunction = function (a, b) { return a * b }

var x = myfunction(4, 3)

```

JavaScript      new

## Function Hoisting

Hoisting            JavaScript

```

, JavaScript

myFunction(5);

function myFunction(y) {
  return y * y;
}

```

## Self-Invoking functions

“ (self-invoking)“  
( )가 ,  
가

```
<!DOCTYPE html>
<html>
<body>

<p>Functions can be invoked automatically without being called:</p>

<p id="demo"></p>

<script>
  (function () {
    document.getElementById("demo").innerHTML = "Hello!!! I called
myself";
  })();
</script>

</body>
</html>
```

(anonymous self-invoking function) ( ).

## Functions Can Be Used as Values

JavaScript

```
function myFunction(a, b) {
  return a * b;
}

var x = myFunction(4, 3);
```

JavaScript

```
function myFunction(a, b) {
```

```
    return a * b;  
}  
  
var x = myFunction(4, 3) * 2;
```

# Functions are Object

## JavaScript typeof

# JavaScript 가

JavaScript **(properties)** **(methods)** 가

`arguments.length` 가

```
<!DOCTYPE html>
<html>
<body>

    <p>The arguments.length property returns the number of arguments received by the function:</p>

<p id="demo"></p>

<script>
    function myFunction(a, b) {
        return arguments.length;
    }
    document.getElementById("demo").innerHTML = myFunction(4, 3);
</script>

</body>
</html>
```

`toString()`

```
<!DOCTYPE html>
<html>
</head>
<body>

<p>The toString() method returns the function as a string:</p>

<p id="demo"></p>

<script>
    function myFunction(a, b) {
        return a * b;
    }
</script>
```

```
document.getElementById("demo").innerHTML = myFunction.toString();  
</script>  
  
</body>  
</html>
```

\_\_\_\_\_ (object constructor)

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