# **JavaScript Function Definitions**

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#### Source of the article

• JavaScript Function Definitions

```
JavaScript function .
______(function declaration) ______(function expression)
```

#### **Function Declarations**

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

( ) . " " ,

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

가 JavaScript 가 가

### **Function Expressions**

**JavaScript** (expression)

```
<!DOCTYPE html>
<html lang="en">
<body>
 A function can be stored in a variable:
 <script>
   var x = function (a, b) { return a * b };
   document.getElementById("demo").innerHTML = x;
 </script>
</body>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<body>
 After a function has been stored in a variable, the variable can be
used as a function:
 <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);

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**

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

Functions can be invoked automatically without being called:

<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		
toString()		·	
		(object constructor)	•

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