# **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
}
```

( ) . " " ,

```
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 };
```

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```
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>
<hody>

Functions can be invoked automatically without being called:

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

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

## **Functions are Object**

```
JavaScript typeof
                           가
     JavaScript
JavaScript
                 (properties)
                                  (methods)가
                        가
arguments.length
<!DOCTYPE html>
<html>
<body>
  The arguments.length property returns the number of arguments received
by the function:
  <script>
    function myFunction(a, b) {
      return arguments.length;
    document.getElementById("demo").innerHTML = myFunction(4, 3);
  </script>
</body>
```

#### toString()

</html>

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

The toString() method returns the function as a string:

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

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

(object	constructor)
---------	--------------

#### **Arrow Functions**

function , return (curly brackets)

```
<hody>
  <h2>JavaScript Arrow Functions</h2>

    With arrow functions, you don't have to type the function keyword,
    the return keyword, and the curly brackets.

  Arrow functions are not supported in IE11 or earlier.

  <script>
        const x = (x, y) => x * y;
        document.getElementById("demo").innerHTML = x(5, 5);
    </script>
  </body>
```

```
this가
, const var
.
가 return
return
<!DOCTYPE html>
```

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```
<html>
<body>
<html>
<body>
<h2>JavaScript Arrow Functions</h2>
Arrow functions are not supported in IE11 or earlier.

<script>
        const x = (x, y) => { return x * y };
        document.getElementById("demo").innerHTML = x(7, 8);
</script>
</body>
</html>
```

**IE11** 

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