

# 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 exmple 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;
    }

```

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

</body>
</html>
```

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

## Arrow Functions

function , return (curly brackets)

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

  <h2>JavaScript Arrow Functions</h2>

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

  <p>Arrow functions are not supported in IE11 or earlier.</p>

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

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

</body>
</html>
```

this가

, const var

가 return

return

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

  <h2>JavaScript Arrow Functions</h2>

  <p>Arrow functions are not supported in IE11 or earlier.</p>

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

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

</body>
</html>
```

IE11

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