

# JavaScript Functions

- description : JavaScript Functions
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## JavaScript Function Syntax

JavaScript (a block of code) .

JavaScript “ 가 ” 가 ( ) .

```
function myFunction(p1, p2) {
  return p1 * p2; // The function returns the product of p1 and p2
}
```

## JavaScript Function Syntax

JavaScript function , , ( ) .

, , ( )가 .

(parameter) .

( 1, 2, ...)

:{ }

```
function name(parameter1, parameter2, parameter3) {
  // code to be executed
}
```

(parameter) ( ) .

(arguments) 가 가 (value) .

, ( ) (local variables) .  
(procedure) (Subroutine) .

## Function Invocation

“ ” ( ) .

- ( 가 )
- JavaScript ( )
- ( )

## +Function Return

JavaScript가 return (statement) , .

” 가 (statement) , JavaScript “

(return value) . “ (caller) “ ” .

## Example

(product, ) :

```
var x = myFunction(4, 3); // Function is called, return value will end up in x

function myFunction(a, b) {
  return a * b; // Function returns the product of a and b
}
```

## Why Functions?

## Example

(Fahrenheit) (Celsius) :

```
function toCelsius(fahrenheit) {
  return (5/9) * (fahrenheit-32);
}
document.getElementById("demo").innerHTML = toCelsius(77); // 25
```

## The () Operator Invokes the Function

toCelsius, toCelsius()  
 () 가 .

## Example

```
function toCelsius(f) {
  return (5 / 9) * (f - 32);
}
document.getElementById("demo").innerHTML = toCelsius;
/* function toCelsius(f) { return (5 / 9) * (f - 32); } */
```

## +Functions Used as Variable Values

(formulas), (assignments) (calculations)

## Example

```
let x = toCelsius(77);
let text = "The temperature is " + x + " Celsius";
```

```
document.getElementById("demo").innerHTML = "The temperature is " +
toCelsius(77) + " Celsius";
// The temperature is 25 Celsius

function toCelsius(fahrenheit) {
  return (5 / 9) * (fahrenheit - 32);
}
```

## Local Variables

JavaScript

**LOCAL**

(Local variables)

### Example

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

  <h2>JavaScript Functions</h2>

  <p>Outside myFunction() carName is undefined.</p>

  <p id="demo1"></p> <!-- string Volvo -->

  <p id="demo2"></p> <!-- undefined -->

  <script>
    myFunction();

    function myFunction() {
      let carName = "Volvo"; // local variable
      document.getElementById("demo1").innerHTML = typeof carName + " " +
carName;
    }

    document.getElementById("demo2").innerHTML = typeof carName;
  </script>

</body>
</html>
```

(local variable)

가

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, [Javascript](#), [Functions](#)

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