JavaScript Functions

- description : JavaScript Functions
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[JavaScript Functions](#)

JavaScript Function Syntax

JavaScript (a block of code) .

JavaScript " " ( ) .

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

JavaScript Function Syntax

JavaScript function , , () .

, , ( ) .

(parameter) .
(1, 2, …)

:{}

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

(parameter) () .

(arguments) (**value**) .

,   (   )   (local variables)   .

(procedure)   (Subroutine)   .

Funcion Invocation

"   "   (   )   .

- (   )
- JavaScript   (   )
- (   )

.

+Function Return

JavaScript   return   (statement)   ,   .

(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() .

() .

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**   .

(Loval 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)   ,
              .

                                          .

   , Javascript, Functions