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JavaScript Function Parameters

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A JavaScript **function** does not perform any checking on parameter values (arguments).

Function Parameters and Arguments

Earlier in this tutorial, you learned that functions can have **parameters**:

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

Function **arguments** are the real **values** passed to (and received by) the function.

Parameter Rules

JavaScript function definitions do not specify data types for parameters.

JavaScript functions do not perform type checking on the passed arguments.

JavaScript functions do not check the number of arguments received.

Parameter Defaults

If a function is called with **missing arguments** (less than declared), the missing values are set to: **undefined**

Sometimes this is acceptable, but sometimes it is better to assign a default value to the parameter:

Example

```
function myFunction(x, y) {  
  if (y === undefined) {  
    y = 0;  
  }  
}
```

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```
function (a=1, b=1) {  
  // function code  
}
```

The Arguments Object

JavaScript functions have a built-in object called the arguments object.

The argument object contains an array of the arguments used when the function was called (invoked).

This way you can simply use a function to find (for instance) the highest value in a list of numbers:

Example

```
x = findMax(1, 123, 500, 115, 44, 88);  
  
function findMax() {  
  var i;  
  var max = -Infinity;
```

```
        max = arguments[i];
    }
}
return max;
}
```

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Or create a function to sum all input values:

Example

```
x = sumAll(1, 123, 500, 115, 44, 88);

function sumAll() {
    var i;
    var sum = 0;
    for (i = 0; i < arguments.length; i++) {
        sum += arguments[i];
    }
    return sum;
}
```

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Arguments are Passed by Value

Arguments passed in a function call, are the function's arguments.

Arguments are passed by **value**: The function only gets to know the values, not the argument's locations.

When you change an argument's value, it does not change the parameter's original value.

Arguments are not visible (reflected) outside the function.

Objects are Passed by Reference

Object references are values.

Objects will behave like they are passed by **reference**:

When you change an object property, it changes the original value.

Object properties are visible (reflected) outside the function.

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