# Fungsi dan Event Javascript

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- fungsi adalah **blok kode** yang dibuat untuk melakukan tugas tertentu.
- fungsi dieksekusi ketika nama dari fungsi tersebut dipanggil.

**Fungsi** 

- · Definisi fungsi function name(parameter1, parameter2, parameter3) { // code to be executed
- · Pemanggilan fungsi name(par1,par2,par3)

### **Syntax**

### lat\_fungsi1.html

```
<!DOCTYPE html>
                                                                                 JavaScript Functions
<html> <body>
<h2>JavaScript Functions</h2>
This example calls a function which performs a calculation and returns the
result:
<script>
var x = myFunction(4, 3);
document.getElementById("demo").innerHTML = x;
function myFunction(a, b) {
 return a * b;
</script>
</body>
```

This example calls a function which performs a calculation and returns the result:

### Contoh

## pendefinisian fungsi

### Menggunakan constructor new

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

JavaScript has an built-in function constructor.

<script>
var myFunction = new Function("a", "b", "return a * b");
document.getElementById("demo").innerHTML =
myFunction(4, 3);
</script>
</body>
</html>
```

### **Constructor Function**

```
c(DOCTYPE html>
chtml>
chtml>
chtml>
chody>
ch2>JavaScript Functions
cp In this example, myFunction is a function constructor:
cp Id="demo">
cscript>
function myFunction(arg1, arg2) {
    this.firstName = arg1;
    this.lastName = arg2;
}

var x = new myFunction("John","Doe")
document.getElementById("demo").innerHTML = x.firstName;
c/script>
c/body>
c/html>

Akses variabel fungsi
```

# lat\_fungsi5.html | ClDOCTYPE html> | Cheal> | ChealShall | Cheal> | ChealShall | ChealS

```
| CIDOCTYPE html> | Chtml> | C
```

### pemanggilan fungsi sbg sebuah method

Aturan Parameter pd fungsi di JavaScript

- tipe data pada parameter tdk perlu didefiniskan.
- tidak melakukan check tipe data pd argumen yg dilewatkan
- tidak melakukan check thd jml parameter yang diterima

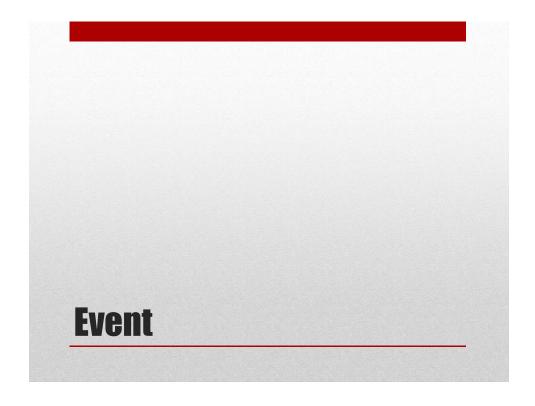
## **Parameter fungsi**

### **Parameter default**

- Fungsi JavaScript memiliki objek built-in yang disebut **object arguments**.
- **object arguments** berisi array argumen yang digunakan ketika fungsi dipanggil.

# objek argumen

```
<!DOCTYPE html>
                                                                              Sum of all arguments:
<html>
<body>
                                                                              871
Sum of all arguments:
<script>
function sumAll() {
 var i;
 var sum = 0;
 for(i = 0; i < arguments.length; i++) {</pre>
  sum += arguments[i];
 return sum;
document.getElementById("demo").innerHTML = sumAll(1, 123, 500, 115, 44,
88);
</script>
</body>
</html>
```



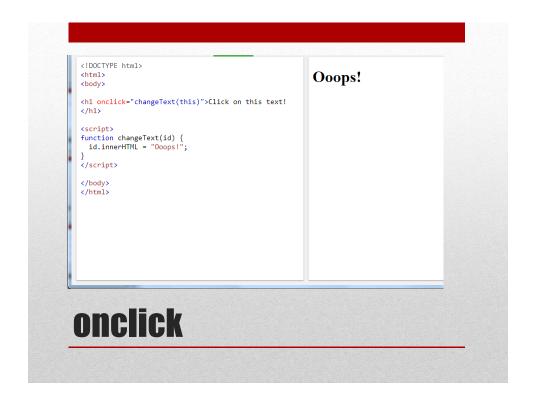
- Event HTML adalah sesuatu hal yang terjadi pada elemen HTML.
- Ketika JavaScript digunakan di halaman HTML, JavaScript dapat "bereaksi" pada event ini.

### **Event**

- Event HTML: sesuatu yang dilakukan oleh browser/user.
  - contoh: halaman web selesai loading,text input berubah isinya,button di klik
- atribut event handler pd suatu elemen HTML:
   <element event='some JavaScript'>

### **Event**





Event	Description
onchange	An HTML element has been changed
onclick	The user clicks an HTML element
onmouseover	The user moves the mouse over an HTML element
onmouseout	The user moves the mouse away from an HTML element
onkeydown	The user pushes a keyboard key

### **Event HTML umum**

```
<!DOCTYPE html>
<html>
<body onload="loadTeks()">

<script>
function loadTeks() {
   text="load teks ....."
   document.getElementById("demo").innerHTML = text;
}
</script>
</body>
</html>
```

## onload()

```
<!DOCTYPE html>
                                                         Enter your name: HALO
<html>
<head>
                                                         When you leave the input field, a function is triggered which
<script>
                                                         transforms the input text to upper case.
function myFunction() {
 var x = document.getElementById("fname");
 x.value = x.value.toUpperCase();
</script>
</head>
<body>
Enter your name: <input type="text" id="fname"
onchange="myFunction()">
When you leave the input field, a function is
triggered which transforms the input text to upper
case.
</body>
</html>
```

```
<!DOCTYPE html>
                                                                           This example uses the HTML DOM to assign an "onchan
<html>
<body>
                                                                          Enter your name:
This example uses the HTML DOM to assign an "onchange" event to an
                                                                           When you leave the input field, a function is triggered wh
input element.
Enter your name: <input type="text" id="fname">
When you leave the input field, a function is triggered which
transforms the input text to upper case.
<script>
document.getElementById("fname").onchange = function() {myFunction()};
function myFunction() {
 var x = document.getElementById("fname");
 x.value = x.value.toUpperCase();
</script>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<body>
                                                                      Thank You
<div onmousedown="mDown(this)" onmouseup="mUp(this)"</pre>
style="background-
color:#D94A38;width:90px;height:20px;padding:40px;">
Click Me</div>
<script>
function mDown(obj) {
 obj.style.backgroundColor = "#1ec5e5";
obj.innerHTML = "Release Me";
function mUp(obj) {
  obj.style.backgroundColor="#D94A38";
  obj.innerHTML="Thank You";
</script>
</body>
</html>
     UIIIIUUSEUUWIIU,
    onmouseup()
```

```
<!DOCTYPE html>
                                                               Enter your name:
<html>
<head>
                                                               When the input field gets focus, a function is
<script>
                                                               which changes the background-color.
function myFunction(x) {
 x.style.background = "yellow";
</script>
</head>
<body>
Enter your name: <input type="text"
onfocus="myFunction(this)">
When the input field gets focus, a function is triggered
which changes the background-color.
</body>
</html>
      onfocus()
```

```
<!DOCTYPE html>
                                                                      Select a new car from the list.
<html>
<body>
Select a new car from the list.
                                                                      When you select a new car, a function is triggered which outputs the v
<select id="mySelect" onchange="myFunction()">
                                                                      You selected: BMW
 <option value="Audi">Audi</option>
 <option value="BMW">BMW</option>
 <option value="Mercedes">Mercedes</option>
 <option value="Volvo">Volvo</option>
When you select a new car, a function is triggered which outputs the
value of the selected car.
<script>
function myFunction() {
 var x = document.getElementById("mySelect").value;
 document.getElementById("demo").innerHTML = "You selected: " + x;
</script>
</body>
</html>
       select - onchangely
```

```
<!DOCTYPE html>
                                                                Write something in the text field to tri
<html>
<body>
Write something in the text field to trigger a function.
                                                                You wrote: test
<input type="text" id="myInput" oninput="myFunction()">
<script>
function myFunction() {
 var x = document.getElementById("myInput").value;
 document.getElementById("demo").innerHTML = "You wrote: " + x;
</script>
</body>
</html>
      oninput()
```

