

Pemrograman Web

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JavaScript Array

Array didefinisikan

```
var array-name = [item1, item2, ...];
var cars = ["Saab", "Volvo", "BMW"];
```

var points = [];

Akses Data Array

JavaScript Array

- You can have different objects in one array
- Array properties: length
- Array methods: sort()
- Adding array

```
var x = cars.length;
cars
var y = cars.sort();
```

Loop

For Loop

```
for (statement 1; statement 2; statement 3) {
    code block to be executed
}
```

For in loop

```
<script>
let keranjang = ["mangga", "jambu", "durian", "sirsak"];
document.write("jumlah buah:" + keranjang.length);
let x;
for (x in keranjang) {
    console.log("buah ke " + x + " adalah " + keranjang[x]);
    document.write("<br/>index " + x + " buahnya " + keranjang[x]);
}
</script>
```

JavaScript Object

How to create object

```
var person = {firstName:"John", lastName:"Doe", age:50, eyeColor:"blue"};
```

```
var person = {
    firstName:"John",
    lastName:"Doe",
    age:50,
    eyeColor:"blue"
};
```

JavaScript Object

How to access object properties

objectName.propertyName

```
objectName["propertyName"]
```

How to access object methods

```
objectName.methodName()
```

Conditional

• If else

```
if (condition1) {
    block of code to be executed if condition1 is true
} else if (condition2) {
    block of code to be executed if the condition1 is false and condition2 is true
} else {
    block of code to be executed if the condition1 is false and condition2 is false
}
```

```
<script>
   let siswa1 = {
        nama: "Ahmad Faiz",
        umur:20,
        berat:45,
        cetak : function(){
            return this.nama + " usianya " + this.umur;
   let status berat;
   if(siswa1.berat > 80){
        status_berat = " Gemuk";
    }else if(siswa1.berat < 25){</pre>
        status berat = " Kurus";
   }else{
        status_berat = " Berat Ideal";
   console.log(siswa1.nama + status_berat);
</script>
```

Switch Case

Switch case

```
switch(expression) {
    case n:
        code block
        break;
    case n:
        code block
        break;
    default:
        default code block
}
```

```
switch (new Date().getDay()) {
 case 0:
   day = "Sunday";
   break;
 case 1:
   day = "Monday";
   break;
 case 2:
    day = "Tuesday";
   break;
 case 3:
   day = "Wednesday";
   break;
 case 4:
   day = "Thursday";
   break;
 case 5:
   day = "Friday";
   break;
 case 6:
   day = "Saturday";
console.log("today is - " + day);
```

JavaScript While Loop

While loop

```
while (condition) {
    code block to be executed
}
```

Do while loop

```
do {
    code block to be executed
}
while (condition);
```

```
<script>
    let i = 0;
    while(i < 10){
        console.log("bilangan " + i);
        i++;
</script>
<script>
    let i = 0;
     do{
         console.log("bilangan " + i);
         i++;
     \}while(i < 10)
 </script>
```

JavaScript Function

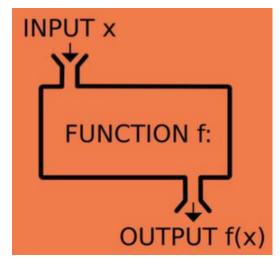
Function Syntax

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

FUNCTION:

- INPUT
- PROSES
- OUTPUT





```
1. ...
2. <script type="text/javascript">
3.
    function salam()
5.
       alert("Assalamualaikum Saudaraku !");
6.
7.
    function salamKenal(teman) {
8.
        alert("Apa kabar " + teman);
9.
10. function jumlah(a,b){
11.
       let c = a + b;
12.
       return c;
13. }
14.</script>
```

JavaScript Function

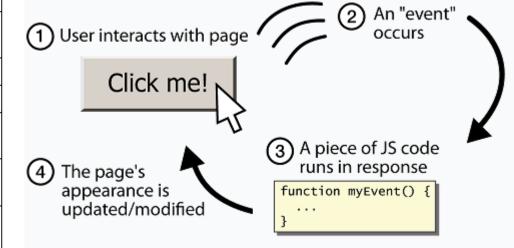
```
function name
 function
                     argument
declaration
 function makeRed(sender
   sender.style.color = 'red'
                 statement
```

```
<head>
<script>
// buat fungsi
 function makeRed(sender){
   sender.style.color = "red";
 // buat object yang ber ID = nf
 let objnf = document.getElement.ById("nf");
 makeRed(objnf); // panggil fungsi
</script>
</head>
<body>
   <span id="nf">Nurul Fikri</span>
</body>
```

JavaSCript Event

Event Handlers	Deskripsi	Objek
onClick	Reaksi terhadap aksi meng-click-mouse pada suatu objek	checkboxes, links, radio buttons, reset buttons, dan submit buttons
onMouseOver	Reaksi jika suatu cursor atau mousepointer yang menunjuk ke suatu objek	links
onMouseOut	Reaksi jika suatu cursor atau mousepointer yang meninggalkan suatu objek	links
onLoad	Reaksi jika suatu objek selesai di-load.	images, windows
onUnload	Reaksi jika suatu dokumen ditutup/diakhiri.	windows
onAbort	Reaksi jika suatu objek diberhentikan dari proses loading	images
onChange	Reaksi jika suatu nilai(value) dari objek dimodifikasi	file uploads, select objects, text boxes, textarea
onSelect	Reaksi jika sutau teks dipilih dari objek text box atau textarea	text boxs, text areas
onError	Reaksi jika terjadi error JavaScript	images, windows
onReset	Reaksi jika suatu tombol reset dalam form ditekan	forms
onSubmit	Reaksi jika suatu tombol button dalam form ditekan	forms

<button onclick="displayDate()">The time is?</button>

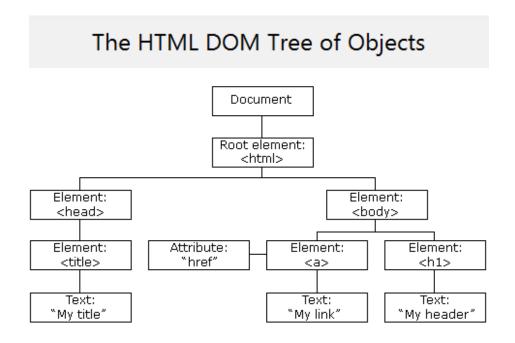


JavaScript Event Handler

```
⇔ webjs12.html > ...
                                                                        \leftarrow \rightarrow C \bigcirc
                                                                                                  localhost/web2021/webjs12.html
      <!DOCTYPE html>
       <html>
                                                                        Nurul Fikri
       <head>
                                                                         Make Blue
           <script>
              // buat fungsi makeBlue
              function makeBlue(){
   6
                   let obj = document.getElementById("nf");
                                                                           \rightarrow C \bigcirc
                                                                                              localhost/web2021/webjs12.html
                  obj.style.color = "white";
                  obj.style.background="blue";
   9
                                                                        Nurul Fikri
  10
                                                                         Make Blue
  11
           </script>
           </head>
  12
           <body>
  13
  14
                   <span id="nf">Nurul Fikri</span><br/><br/>
  15
                 <button onclick="makeBlue()">Make Blue</button>
  16
           </body>
       </html>
```

HTML DOM

- Dengan HTML DOM, JavaSCript dapat mengakses dan mengubah semua elemen dalam dokumen HTML
- http://www.w3schools.com/jsref/default.asp



HTML DOM

Finding element

- · Finding HTML elements by id
- · Finding HTML elements by tag name
- Finding HTML elements by class name
- Finding HTML elements by CSS selectors
- Finding HTML elements by HTML object collections

Changing element

Method	Description
document.getElementById()	Find an element by element id
document.getElementsByTagName()	Find elements by tag name
document.getElementsByClassName()	Find elements by class name

Method	Description
element.innerHTML=	Change the inner HTML of an element
element.attribute=	Change the attribute of an HTML element
element.setAttribute(attribute,value)	Change the attribute of an HTML element
element.style.property=	Change the style of an HTML element

HTML DOM

Create element

Method	Description
document.createElement()	Create an HTML element
document.removeChild()	Remove an HTML element
document.appendChild()	Add an HTML element
document.replaceChild()	Replace an HTML element
document.write(text)	Write into the HTML output stream

Changing style

 ${\tt document.getElementById} (id).{\tt style.} \textit{property=new style}$

```
function makeBlue(){
    let obj = document.getElementById("nf");
    obj.style.color = "white";
    obj.style.background="blue";
}
```

Referensi

- This slide content is from http://www.w3schools.com/js
- Slide perkuliahan web UI