



Pemrograman Web

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JavaScript – Function Event Handler - DOM

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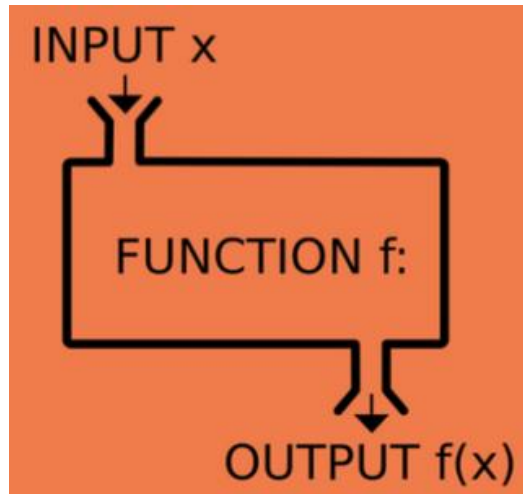
JavaScript Function

- Function Syntax

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

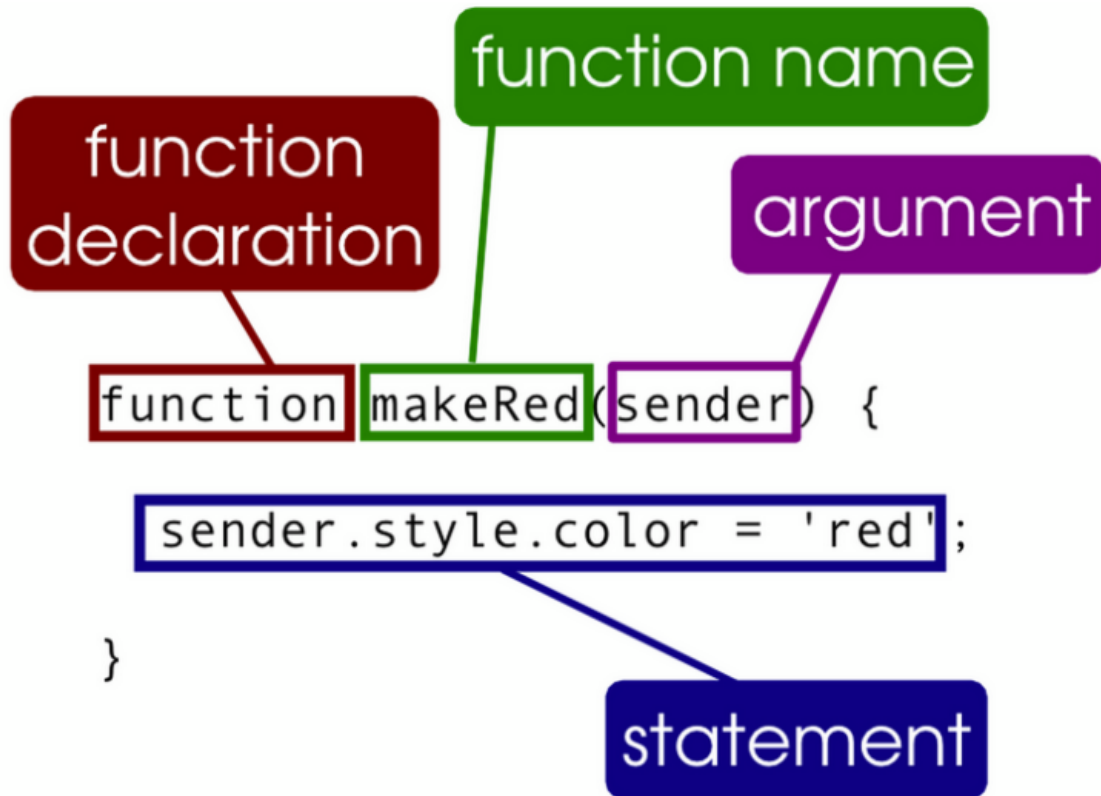
FUNCTION:

- INPUT
- PROSES
- OUTPUT



```
1. ...  
2. <script type="text/javascript">  
3.   function salam()  
4.   {  
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

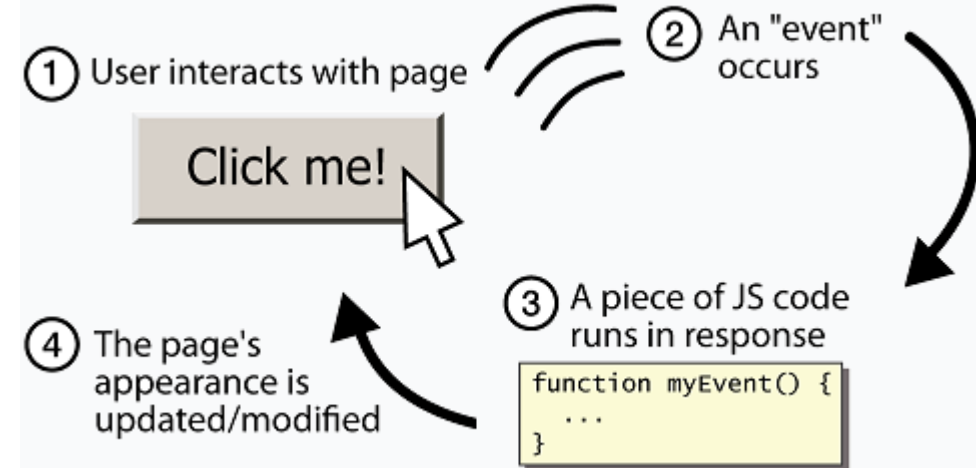


```
<head>
<script>
  // buat fungsi
  function makeRed(sender){
    sender.style.color = "red";
  }
  // buat object yang ber ID = nf
  let objnf = document.getElementById("nf");
  makeRed(objnf); // panggil fungsi
</script>
</head>
<body>
  <span id="nf">Nurul Fikri</span>
</body>
```

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 suatu teks dipilih dari objek text box atau textarea	text boxes, 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 > ...

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <script>
5          // buat fungsi makeBlue
6          function makeBlue(){
7              let obj = document.getElementById("nf");
8              obj.style.color = "white";
9              obj.style.background="blue";
10         }
11     </script>
12 </head>
13 <body>
14     <span id="nf">Nurul Fikri</span><br/>
15     <button onclick="makeBlue()">Make Blue</button>
16 </body>
17 </html>
```



localhost/web2021/webjs12.html

Nurul Fikri

Make Blue



localhost/web2021/webjs12.html

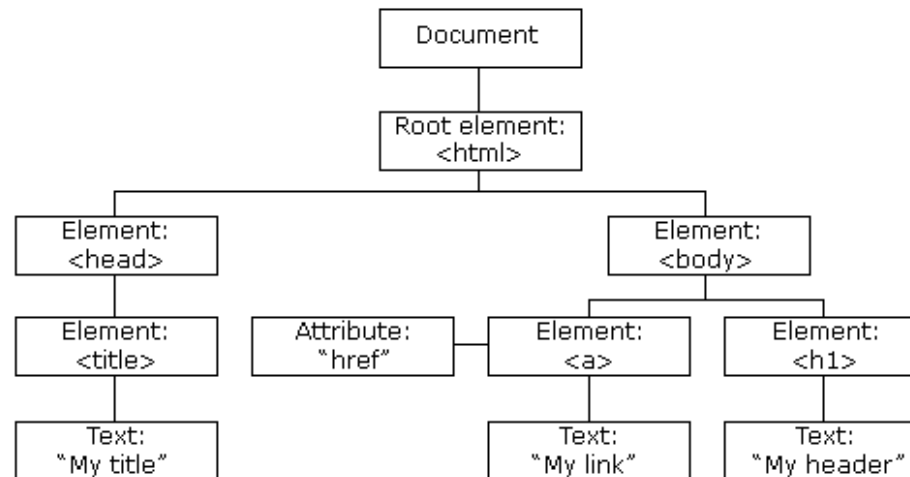
Nurul Fikri

Make Blue

HTML DOM

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

The HTML DOM Tree of Objects



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
<code>document.getElementById()</code>	Find an element by element id
<code>document.getElementsByTagName()</code>	Find elements by tag name
<code>document.getElementsByClassName()</code>	Find elements by class name

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

HTML DOM

- Create element

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

- Changing style

```
document.getElementById(id).style.property=new style
```

```
<body>  
  <span id="nf">Nurul Fikri</span><br/>  
  <button onclick="makeBlue()">Make Blue</button>  
</body>
```

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



JavaScript – Online Coding

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JavaScript Learning – Online Code : jsfiddle.net

The screenshot displays the jsfiddle.net web application in a browser. The address bar shows the URL `https://jsfiddle.net/gjtk7129/` at 120% zoom. The interface includes a top navigation bar with 'Run', 'Save', and 'Collaborate' buttons. On the left, the 'Fiddle meta' sidebar contains fields for 'Untitled fiddle' and 'No description', a 'Private fiddle' toggle, and sections for 'Groups', 'Resources', 'Async requests', and 'Other (links, license)'. The main workspace is divided into three panels: 'HTML', 'JavaScript + No-Library (pure JS)', and 'CSS'. The 'HTML' panel contains a `Nurul Fikri` and a `<button onclick="ubah()">Ubah</button>`. The 'JavaScript' panel contains a function `ubah()` that toggles the class of the element with id 'nf' between 'blue' and 'red'. The 'CSS' panel defines styles for `.blue` (blue background, yellow text) and `.red` (red background, white text). A preview window on the right shows the rendered output: a blue box with the text 'Nurul Fikri' and a button labeled 'Ubah'.

Browser address bar: `https://jsfiddle.net/gjtk7129/` (120%)

Navigation: Run, Save, Collaborate

Fiddle meta

- Untitled fiddle
- No description
- ☐ Private fiddle **EXTRA**
- Groups **EXTRA**
- Resources: URL, cdnjs
- Async requests
- Other (links, license)

HTML

```
1 <span id="nf" class="blue">Nurul Fikri</span>
2 <button onclick="ubah()">
3   Ubah
4 </button>
```

JavaScript + No-Library (pure JS)

```
1 function ubah(){
2   let obj = document.getElementById("nf");
3   console.log(obj.className=="blue");
4   if(obj.className=="blue")
5     obj.className="red";
6   else
7     obj.className="blue";
8 }
```

CSS

```
1 .blue{
2   background: blue;
3   color: yellow;
4 }
5 .red{
6   background: red;
7   color: white;
8 }
```

Preview: Nurul Fikri Ubah

Referensi

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