

Javascript Event Handling

Pertemuan 6

IT133 Pengembangan Web

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Java Script Event

- By using JavaScript, we have the ability to create dynamic web pages. Events are actions that can be detected by JavaScript.
- Every element on a web page has certain events which can trigger JavaScript functions.
- Events are defined in the HTML tags.
- Examples of events:
 - A mouse click
 - A web page or an image loading
 - Mousing over a hot spot on the web page
 - Selecting an input box in an HTML form
 - Submitting an HTML form
 - A keystroke

HTML Event Attributes

<body> and <frameset> Events

The two attributes below can only be used in `<body>` or `<frameset>`

Attribute	Value	Description
onload	script	Script to be run when a document load
onunload	script	Script to be run when a document unload

HTML Event Attributes

Form Events

The attributes below can be used in form elements

Attribute	Value	Description
onblur	script	Script to be run when an element loses focus
onchange	script	Script to be run when an element changes
onfocus	script	Script to be run when an element gets focus
onreset	script	Script to be run when a form is reset
onselect	script	Script to be run when an element is selected
onsubmit	script	Script to be run when a form is submitted

HTML Event Attributes

Image Events

The attribute below can be used with the `img` element

Attribute	Value	Description
<code>onabort</code>	<code>script</code>	Script to be run when loading of an image is interrupted

HTML Event Attributes

Keyboard Events

Valid in all elements except base, bdo, br, frame, frameset, head, html, iframe, meta, param, script, style, and title

Attribute	Value	Description
onkeydown	script	Script to be run when a key is pressed
onkeypress	script	Script to be run when a key is pressed and released
onkeyup	script	Script to be run when a key is released

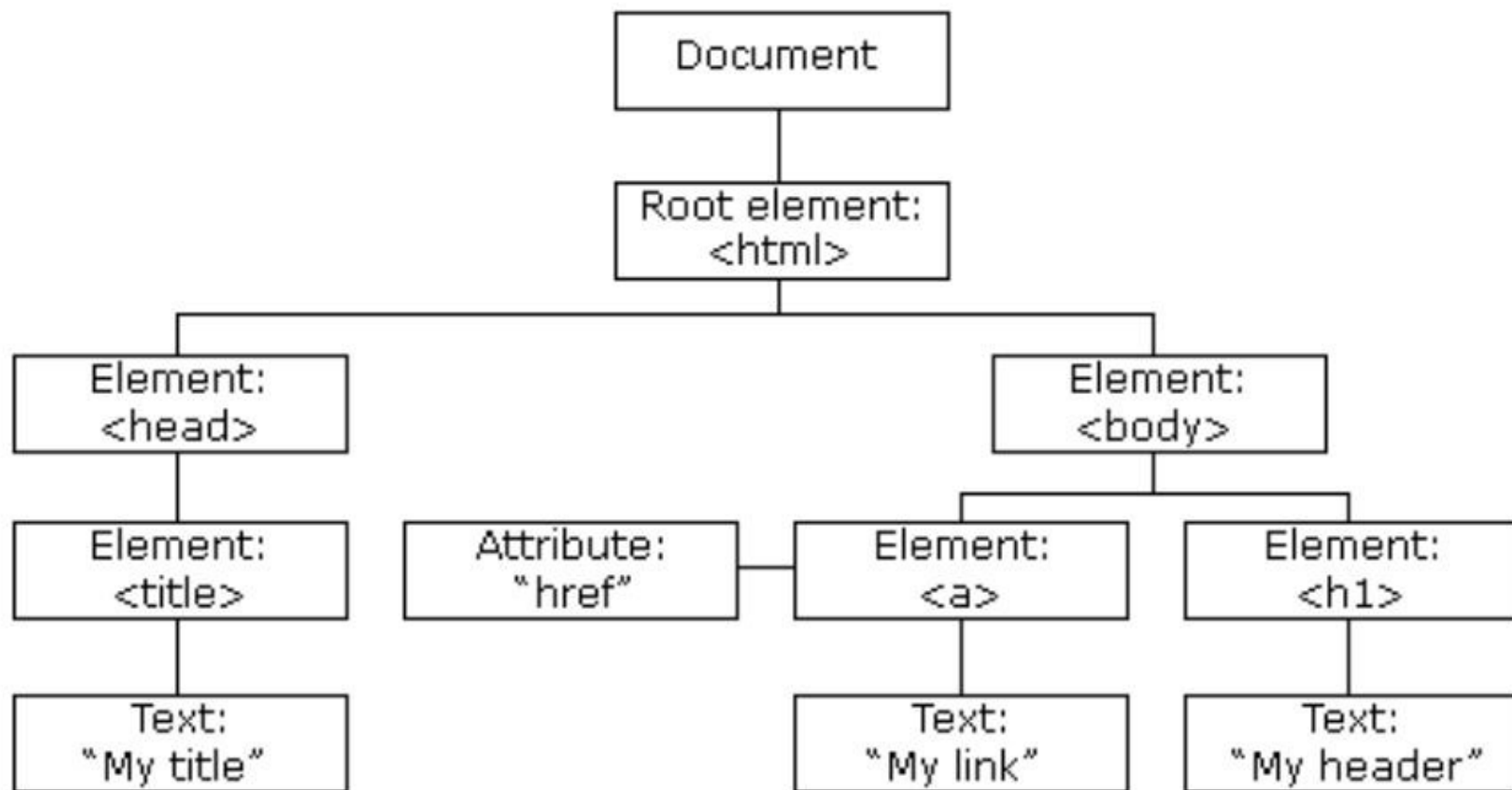
HTML Event Attributes

Mouse Events

Valid in all elements except base, bdo, br, frame, frameset, head, html, iframe, meta, param, script, style, and title

Attribute	Value	Description
onclick	script	Script to be run on a mouse click
ondblclick	script	Script to be run on a mouse double-click
onmousedown	script	Script to be run when mouse button is pressed
onmousemove	script	Script to be run when mouse pointer moves
onmouseout	script	Script to be run when mouse pointer moves out of an element
onmouseover	script	Script to be run when mouse pointer moves over an element
onmouseup	script	Script to be run when mouse button is released

HTML DOM Tree



Latihan 1: validasi form (onsubmit)

```
<html>
<head>
<script type="text/javascript">
function validasi(){
var x=document.forms["biodata"]["nama"].value;
if (x==null || x==""){
    alert("Nama harus diisi");
}else{
    alert(x);
}
}
</script>
</head>
<body>
<form name="biodata" action="#" onsubmit="return validasi()" method="post">
Nama anda: <input type="text" name="nama">
<input type="submit" value="Submit">
</form>
</body>
</html>
```

Latihan 2: Event Mouse

```
<html>
<head>
<script type="text/javascript">
function setBG() {
document.getElementById("coba").style.backgroundColor="red";
document.body.style.cursor="pointer";
}
function delBG() {
document.getElementById("coba").style.backgroundColor="";
}
function pesan() {
alert("Mouse Click");
}
</script>
</head>
<body>
<div id="coba" onmouseover="setBG()" onmouseout="delBG()"
onclick="pesan()">Mouse Event</div>
</body>
</html>
```

Latihan 3: Change Elemen Value (key board event)

```
<html>
<head>
<script type="text/javascript">
function ganti() {
txt = document.getElementById("inputan").value;
document.getElementById("teks").innerHTML=txt;
}
</script>
</head>
<body>
<input id="inputan" type="text" onkeyup="ganti()" />
<br />
<div id="teks"></div>
</body>
```