Script

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Agenda

- Introduction to Script
- 2 The script element
- Intrinsic Events
- Dynamic modification of documents



Introduction to Script

A client-side script is a program that may accompany an HTML document or be embedded directly in it.

The program executes on the client's machine.

 HTML 's support for scripts is $\operatorname{independent}$ of the scripting language.

Scripts offer authors a means to extend HTML documents

- to modify the contents of the document dynamically
- may accompany a form to process input as it is entered
-



Introduction to Script

There are two types of scripts authors may attach to an HTML document:

- Scripts that appear within a script element are executed **one** time when the document is loaded.
- Those that are executed **every time** a specific event occurs. These scripts may be assigned to a number of elements via the intrinsic **event attributes**.



The script element

Some attributes

- src to specify the location of an external script
- type
 to specify the scripting language (e.g., "text/javascript")

```
<script type="text/javascript">
   alert("You are welcome!");
</script>
```



- onload occurs when the user agent finishes loading a window or all frames within a frameset.
- onunload occurs when the user agent removes a document from a window or
 - used with body and frameset elements.

used with body and frameset elements.



6 / 16

frame.

- onclick
 occurs when the pointing device button is clicked over an element.
 used with most elements.
- ondblclick
 occurs when the pointing device button is double clicked over an
 element.
 used with most elements.



- onmousedown occurs when the pointing device button is pressed over an element. used with most elements.
- onmouseup occurs when the pointing device button is released over an element. used with most elements.



- onmouseover occurs when the pointing device is moved onto an element. used with most elements.
- onmousemove
 occurs when the pointing device is moved while it is over an
 element.
 used with most elements.
- onmouseout occurs when the pointing device is moved away from an element. used with most elements.



onfocus

occurs when an element receives focus either by the pointing device or by tabbing navigation. used with the following elements: a, area, label, input, select, textarea, and button.

• onblur

occurs when an element loses focus either by the pointing device or by tabbing navigation.

used with the same elements as onfocus.



- onkeypress
 occurs when a key is pressed and released over an element.
 used with most elements.
- onkeydown occurs when a key is pressed down over an element. used with most elements.
- onkeyup
 occurs when a key is released over an element.
 used with most elements.



- onsubmit
 occurs when a form is submitted.
 only applies to the form element.
- onreset occurs when a form is reset. only applies to the form element.



12 / 16

- onselect
 occurs when a user selects some text in a text field.
 used with the input and textarea elements.
- onchange
 occurs when a control loses the input focus and its value has been
 modified since gaining focus.
 applies to the following elements: input, select, and textarea.



13 / 16

```
<script type="text/javascript">
   function checkNum(curV, minV, maxV) {
      if (curV >= minV && curV <= maxV)</pre>
         return true;
      else
         return false;
   function thanks() {
      alert("Thank you very much!");
</script>
<input name="num"</pre>
onchange="if (!checkNum(this.value, 1, 10)) {
              this.focus();
              this.select(); }
           else {
              thanks() }"
value="0">
```



Dynamic modification of documents

```
<script type="text/javascript">
  document.write("<b>Hello World!</b>")
</script>
```



Thank You! Any Questions?

