



# SNS COLLEGE OF TECHNOLOGY

Coimbatore-35  
An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



## DEPARTMENT OF INFORMATION TECHNOLOGY

### WEB TECHNOLOGY

III YEAR - V SEM

### UNIT 3 – SERVER-SIDE SCRIPTING

## Topic 2 - Intrinsic Event Handling-Modifying Element Style



# Intrinsic Event Handling

- ◆ An event is an occurrence of something potentially interesting to a script:
  - Ex: mouseover and mouseout events
- ◆ An HTML intrinsic event attribute is used to specify a script to be called when an event occurs
  - Ex: onmouseover
  - Name of attribute is on followed by event name



# Intrinsic Event Handling



TABLE 5.1: HTML intrinsic event attributes.

Attribute	When Called
onload	Immediately after the body of document has been fully read and parsed by the browser (this attribute only pertains to <code>body</code> and <code>frameset</code> ).
onunload	The browser is ready to load a new document in place of the current document (this attribute only pertains to <code>body</code> and <code>frameset</code> ).
onclick	A mouse button has been clicked and released over the element.
ondblclick	The mouse has been double-clicked over the element.
onmousedown	The mouse has been clicked over the element.
onmouseup	The mouse has been released over the element.
onmouseover	The mouse has just moved over the element.
onmousemove	The mouse has moved from one location to another over the element.
onmouseout	The mouse has just moved away from the element.



# Intrinsic Event Handling



<b>onfocus</b>	The element has just received the keyboard focus (this attribute only pertains to certain elements, including <b>a</b> , <b>label</b> , <b>input</b> , <b>select</b> , <b>textarea</b> , and <b>button</b> ).
<b>onblur</b>	The element has just lost the keyboard focus (attribute pertains only to same elements as <b>onfocus</b> ).
<b>onkeypress</b>	This element has the focus, and a key has been pressed and released.
<b>onkeydown</b>	This element has the focus, and a key has been pressed.
<b>onkeyup</b>	This element has the focus, and a key has been released.
<b>onsubmit</b>	This form element is ready to be submitted (only applies to <b>form</b> elements).
<b>onreset</b>	This form element is ready to be reset (only applies to <b>form</b> elements).
<b>onselect</b>	Text in this element has been selected (highlighted) in preparation for editing (applies only to <b>input</b> and <b>textarea</b> elements).
<b>onchange</b>	The value of this element has changed (applies only to <b>input</b> , <b>textarea</b> , and <b>select</b> elements).



# Intrinsic Event Handling



```
<body onload="window.alert('Body loaded.');"
  onunload="window.alert('Unloading...');">
  <form action="http://www.example.org"
    onsubmit="window.alert('Submitting...');"
    onreset="window.alert('Resetting...');">
    <p>
      <input type="text" name="someText"
        onkeypress="window.alert('Text field got character.');"
        onselect="window.alert('Text selected.');" />
      <br />
      <input type="button" name="aButton" value="Click Me"
        onclick="window.alert('Button clicked.');" />
      <br />
      <input type="submit" name="aSubmit" value="Submit"
        onfocus="window.alert('Submit button got focus.');" />
      <input type="reset" name="aReset" value="Reset" />
    </p>
  </form>
</body>
```



# Intrinsic Event Handling



- ◆ Intrinsic event attribute value is a script; what language is it written in?
- ◆ HTTP Content-Script-Type header field specifies default scripting language
- ◆ `meta` element allows document to specify values as if they were header fields

```
<meta http-equiv="Content-Script-Type" content="text/javascript" />
```

Header field name

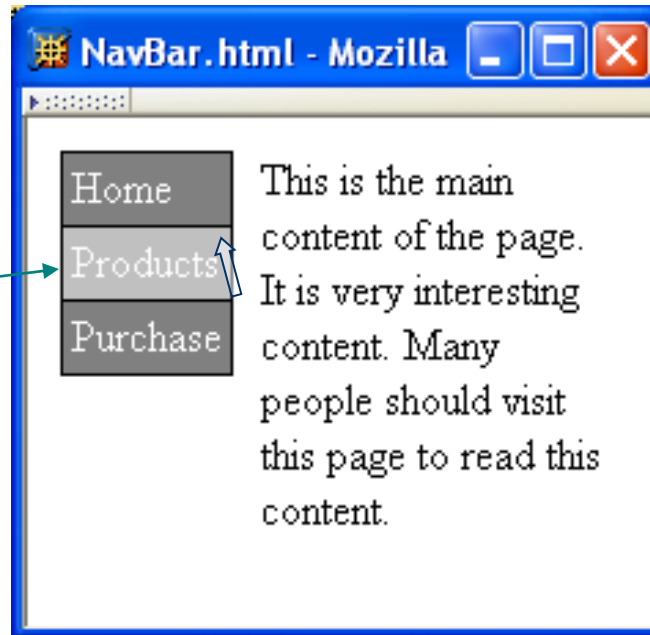
Header field value



# Modifying Element Style



Change background color of element containing cursor





# Modifying Element Style



```
<td onmouseover="highlight(this);"
    onmouseout="lowlight(this);"><a
    href="http://www.example.org"
    >Products</a>
</td>
```





# Modifying Element Style



Like rollover, style needs to be modified both when entering and exiting the element.

```
<td onmouseover="highlight(this);"
onmouseout="lowlight(this);"><a
href="http://www.example.org"
>Products</a>
</td>
```



# Modifying Element Style



Reference to Element instance  
representing the td element

```
<td onmouseover="highlight(this);"
    onmouseout="lowlight(this);"><a
    href="http://www.example.org"
    >Products</a>
</td>
```



# Modifying Element Style



```
function highlight(element) {  
    element.style.backgroundColor = "silver";  
    return;  
}
```



# Modifying Element Style



Reference to Element instance

```
function highlight(element) {  
    element.style.backgroundColor = "silver";  
    return;  
}
```



# Modifying Element Style



```
function highlight(element) {  
    element.style.backgroundColor = "silver";  
    return; }  
All Element instances have a style property  
with an Object value
```



# Modifying Element Style



```
function highlight(element) {  
    element.style.backgroundColor = "silver";  
    return;  
}
```

Properties of style object  
correspond to CSS style properties of  
the corresponding HTML element.



# Modifying Element Style

- ◆ Rules for forming `style` property names from names of CSS style properties:
  - If the CSS property name contains no hyphens, then the `style` object's property name is the same
    - Ex: `color` → `color`
  - Otherwise, all hyphens are removed and the letters that immediately followed hyphens are capitalized
    - Ex: `background-color` → `backgroundCoLor`



# Modifying Element Style



```
function highlight(element) {  
    element.style.backgroundColor = "silver";  
    return;  
}
```

Net effect: “silver” becomes the specified value for CSS background-color property of td element; browser immediately modifies the window.





# Modifying Element Style

## ◆ Alternative syntax (not supported in IE6/7/8):

```
function lowlight(element) {  
    element.style.setProperty("background-color", "gray", "");  
    return;  
}
```



# Modifying Element Style

## ◆ Alternate syntax (not supported in IE6/7/8):

```
function lowlight(element) {  
    element.style.setProperty("background-color", "gray", "");  
    return;  
}
```

Every DOM2-compliant style object  
has a `setProperty()` method



# Modifying Element Style



## ◆ Alternate syntax (not supported in IE6/7/8):

```
function lowlight(element) {  
    element.style.setProperty("background-color", "gray", "");  
    return;  
}
```

CSS property  
value

CSS property  
name  
(unmodified)

Empty string  
or  
"important"



# Modifying Element Style

- ◆ Advantages of `setProperty()` syntax:
  - Makes it clear that a CSS property is being set rather than merely a property of the `style` object
  - Allows CSS property names to be used as-is rather than requiring modification (which can potentially cause confusion)
- ◆ BUT lack of IE support makes it difficult to use (works with FF & Chrome)



# Modifying Element Style



- ◆ Obtaining *specified* CSS property value:

```
if (element.style.backgroundColor == "gray") {
```

- ◆ Alternate DOM2 syntax (not supported by IE6/7/8):

```
if (element.style.getPropertyValue("background-color") == "gray") {
```