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The Kyoto College of Graduate Studies for Informatics

京都情報大学院大学

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Web programming 2

7 Events

■ JavaScript

– Events

- Load
- Mouse events
 - Click
 - Mouseover
 - Mouseout

- HTML events are “**things**” that happen to HTML elements.
- When JavaScript is used in HTML pages, JavaScript can “**react**” on these events.

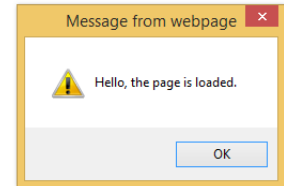
Load events

- onload = “the name of the function()”
 - web page has finished loading.

```
<script>  
function myload()  
    alert(“Hello, the page is loaded.”);  
}  
</script>
```

```
<body onload=“myload()”>  
<h1>Hello. Welcome to Kyoto.</h1>  
</body>  
</html>
```

Hello. Welcome to Kyoto.



Create a new page and
save it as 7_1.html

Mouse event

- Mouse event, for example
 - click
 - mouseover
 - mouseout

Mouse event: click

- onclick="name of the function()"

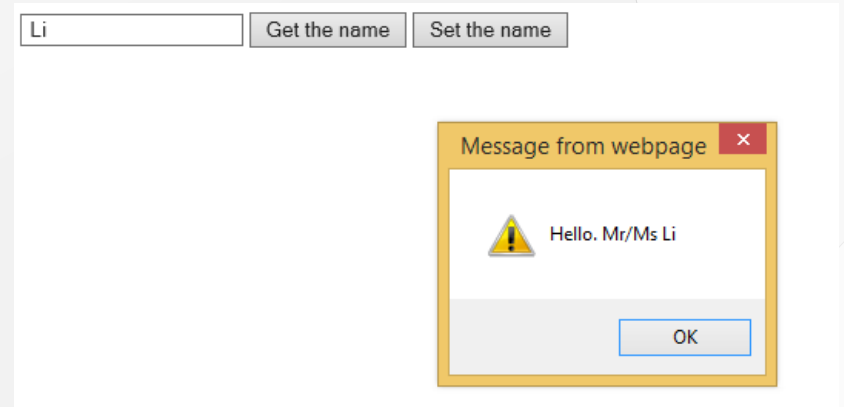
```
<script>

    function showName(){
        var n = document.form1.stname.value;
        alert("Hello Mr/Ms " + n);
    }

    function setName(){
        document.form1.stname.value="KCGI";
    }

</script>

<body>
<form name="form1">
    <input type="text" name="stname" value="">
    <input type="button" value="Get the name" onclick="showName()">
    <input type="button" value="Set the name" onclick="setName()">
</form>
</body>
```



Create a new page and
save it as 7_2.html

Mouse event: click

■ Change background color

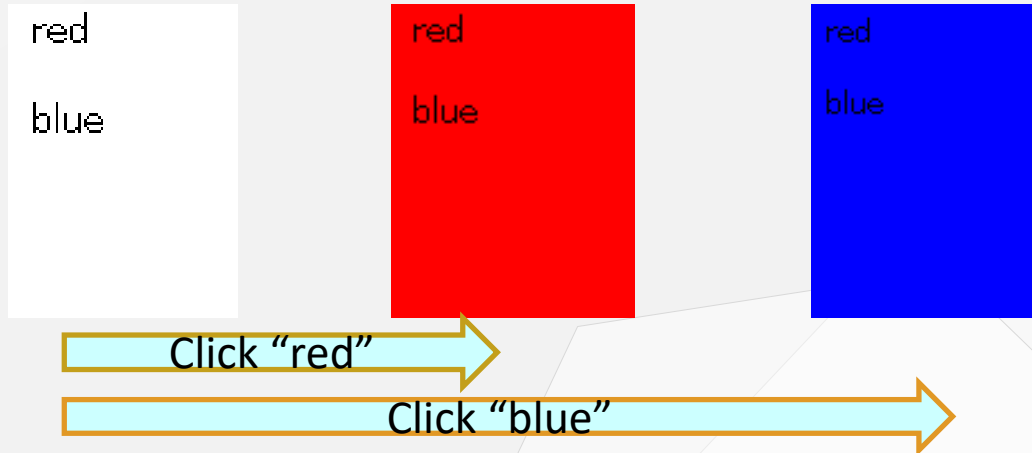
```
<body id="diffcolor">
```

```
  <p onclick=document.getElementById("diffcolor").style.backgroundColor="red">red</p>
```

```
  <p onclick=document.getElementById("diffcolor").style.backgroundColor="blue">blue</p>
```

```
</body>
```

Create a new page and
save it as 7_3.html



Mouse event: click

■ Open or close a window

```
<script>
```

```
var w = null;
// Open a window
function openWindow(){
    w = open("http://www.kcg.edu", "KCGI", "width=600px, height=400");
}
// Close the window which is open.
function closeWindow(){
    if(w){
        w.close();
        w = null;
    }
}
```

```
</script>
```

```
<input type="button" value="open the window" onclick="openWindow()" />
<input type="button" value="close the window" onclick="closeWindow()" />
```

Create a new page and
save it as 7_4.html

Mouse event: click

- Change the size of window

```
<body>
```

```
<h1>Move the window</h1>
```

```
<input type="button" value="window.moveBy(30, 10)" onclick="window.moveBy(30, 10)"/><br />
```

```
<input type="button" value="window.moveTo(0, 0)" onclick="window.moveTo(0, 0)"/><br />
```

```
<h1>Change the size of window</h1>
```

```
<input type="button" value="window.resizeBy(10, 10)" onclick="window.resizeBy(10, 10)"/><br />
```

```
<input type="button" value="window.resizeTo(600, 400)" onclick="window.resizeTo(600, 400)"/><br />
```

```
<h1>Scroll the window</h1>
```

```
<input type="button" value="window.scrollBy(0, -50)" onclick="window.scrollBy(0, -50)"/><br />
```

```
<input type="button" value="window.scrollTo(0, 0)" onclick="window.scrollTo(0, 0)"/><br />
```

```
</body>
```

Reference: http://www.htmq.com/js/window_moveby.shtml
http://www.htmq.com/js/window_scrollby.shtml

Create a new page and
save it as 7_5.html

Mouse event: click

■ Hidden & visible of a image

```

```

```
<p>
```

```
<span onclick=g.style.visibility="hidden" >Hidden</span>
```

```
<span onclick=g.style.visibility="visible" >Visible</span>
```

```
</p>
```

Definite the name of the image

Create a new page and
save it as 7_6.html

mouseover & mouseout

■ Change images

- Mouseover: when the cursor is moved over an element
- Mouseout: when the cursor is moved off an element

■ example

- ``

Mouseover ··· new image
Mouseout ··· original image

Do it in the 7_6.html

mouseover & mouseout

- Change the size and other properties of characters.

<p>

```
<span id="s1" onmouseover=s1.style.fontSize="32"  
onmouseout=s1.style.fontSize="24"  
onclick=s1.style.fontSize="40">size</span>
```

```
<span id="s2" onmouseover=s2.style.color="blue"  
onmouseout=s2.style.color="black"  
onclick=s2.style.color="red">color</span>
```

```
<span id="s3" onclick=s3.style.visibility="hidden"  
onmouseover=s3.style.visibility="hidden"  
onmouseout=s3.style.visibility="visible">visibility</span>
```

</p>

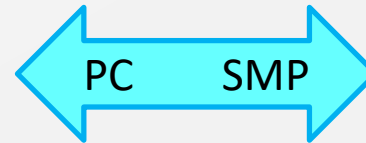
Please add it in 7_6.html

Prepare for the mid-term project

- Create a page named `jsworld.html`. Using the following items.
 - Input the name and click the button, show it.
 - Select the gender(use radio button)
 - Select the language you have learned(checkbox)
 - Use drop down box
 - Open and close a window
 - Onmouseover onmouseout
 - More...

- Use CSS, and responsive design.

Example





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Thank you

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