Scripting for Multimedia

LECTURE 2: EMBEDDING CONTENT

Embedding HTML by using inline frames

- Using <iframe> to embed an inline frame (an HTML document) within the current HTML document
 - Create reuse functionality
 - Include an HTML page from another website on your page
- <iframe> creates a nested browser context into which anther HTML doc can be loaded
- Example

```
<iframe src="menu.html"></iframe>
```

Embedding HTML by using inline frames

Sandboxing embedded content

```
<iframe sandbox src="http://someOtherDomain.net/content"></iframe>
```

- Restrictions
 - allow-forms
 - allow-same-origin
 - allow-scripts
 - allow-top-navigation

```
<iframe sandbox="allow-same-origin allow-forms allow-scripts"
src="http://someOtherDomain.net/content"></iframe>
```

Embedding HTML by using inline frames

- Seamless content embedding
 - seamless attribute (boolean attribute)

```
<iframe seamless="seamless"
src="http://someOtherDomain.net/content"></iframe>
```

 Currently the seamless attribute is not supported on any browsers

- <a> element and href attribute
 - external link

```
<a href="ExpenseReports.html">Expense Report Page</a>
<a href="http://www.contoso.com/SalesReports.html">Sales Report
Page</a>
```

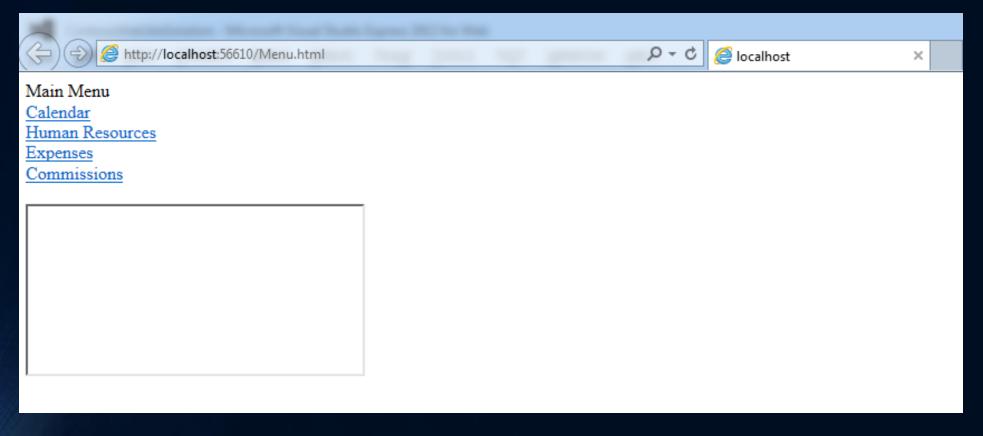
internal link (#tag_id)

```
<a href="#">Top</a>
<a href="#BillingAddress">Go To Billing Address</a>
```

- Display pattern of <a> element
 - Unvisited link: underlined and blue
 - Visited link: underlined and purple
 - Active link: underlined and red

- Specifying the hyperlink target
 - The external resource opens in current browser window when clicking a hyperlink
 - How to open a new browser window?
- target attribute
 - _blank
 - _parent
 - _self (default)
 - _top
 - <ifram_name>

• Example: show a menu with hyperlinks on every page



- Sending email using mailto protocol
- The mailto URL accepts parameters:
 - subject, cc, bcc, and body
- Parameters can be entered in any order
- Parameters follow a question mark (?) after the email address
- Parameters are separated by the ampersand (&)

Examples

```
<!-- basic mailto -->
<a href="mailto:sales@contoso.com">Contact Sales</a>
<!-- add the name -->
<a href="mailto:Joe&lt;sales@contoso.com&gt;">Contact Joe in
Sales</a>
<!-- multiple recipients comma separated -->
<a href="mailto:sales@contoso.com,service@contoso.com">Contact Sales
and Service</a>
<!-- add carbon copy -->
<a href="mailto:sales@contoso.com?cc=service@contoso.com">Contact
Sales cc Service</a>
```

Examples

```
<!-- add blind carbon copy -->
<a href="mailto:sales@contoso.com?bcc=service@contoso.com">Contact
Sales</a>
<!-- basic mailto with message -->
<a href="mailto:sales@contoso.com?body=call me.">Contact Sales with
call me message</a>
<!-- basic mailto with multi line message -->
<a href="mailto:sales@contoso.com?body=call me.%OThanks">Contact
Sales with multi line message</a>
```

Examples

```
<!-- basic mailto with message -->
<a href="mailto:sales@contoso.com?body=call me.">Contact Sales with
call me message</a>
<!-- basic mailto with multi line message -->
<a href="mailto:sales@contoso.com?body=call me.%OThanks">Contact
Sales with multi line message</a>
<!-- basic mailto with subject and message -->
<a href="mailto:sales@contoso.com?suject=hi&body=call me.">Contact
Sales with hi subject and call me message</a>
```

- Embed an image using element
- is a void element
- has two attributes:
 - src and alt
- Examples

```
<img src="/images/logo.png" alt="logo" />
<img src="http://search.Microsoft.com/global/search/en-
us/PublishingImages/bing_logo.png" alt="Bing Logo" />
```

Images are not embedded in HTML doc

- Image file types
 - JPEG (.jpg or .jpeg), GIF (.gif), PNG (.png), or SVG (.svg) files are OK

1

Quick check

You are creating several small icons that will be displayed on your webpage. These icons will render as different shapes and will use transparent color. Each icon uses a small number of colors. Which would be the best image file type for this application?

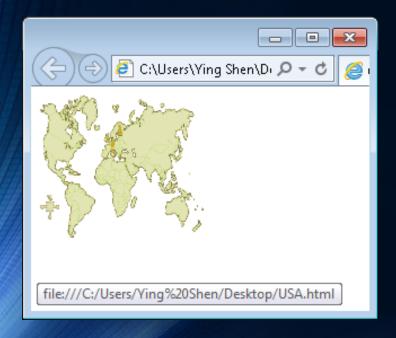
- Creating image links
 - Example

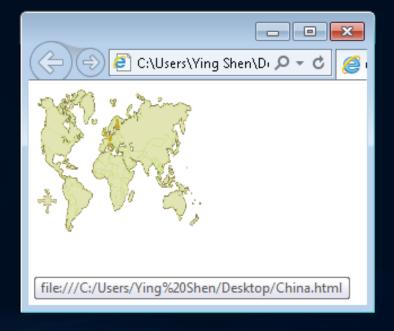
```
<a href="Investments.html"><img src="CurrencySymbol.png" /></a>
```

- Creating an image map
 - Create a clickable image map by using <map> element
 - <area> is used to define clickable region
 - shape: rect, circle, poly
 - coords: x1,y1,x2,y2; x,y,radius; x1,y1,x2,y2,...,xn,yn
 - href
 - alt
 - The name attribute in <map> element must be set
 - On an element, set the usemap attribute to the <map> element's name

- Creating an image map
 - Example

Creating an image map







- <embed> and <object>
- <embed>
 - not supported by HTML 4.01 but supported by HTML5
 - easier to use<embed src="myFlashFile.swf"></embed>
 - Attributes
 - height
 - src
 - type
 - width

 For browsers that don't support the <embed> tag, add fallback content

- <object>
 - embeds an object (audio, video, Java applets, ActiveX, PDF, and Flash) within an THM doc
 - provides more functionalities
 - Attributes
 - data
 - form
 - height
 - name
 - type
 - usemap
 - width
 - At a minimum, you must define either the data or type attribute

- <object>
 - can be used within <body> only
 - Older versions of HTML supported other attributes, but HMTL5 support only the listed attributes plus the global attributes
 - can be used to embed another webpage in HTML doc
 - Example

```
<object id="headerContent" standby="loading header..."
title="loading header..." width="100%" height="15%"
type="text/html" data="header.aspx"></object>
```

- Embed a webpage using <iframe>
- Avoid embedding images and image map using <object>

- Passing parameters to an object
 - <param> must be before any alternate text within <object>
 - Attributes: name and value
 - Example