

Comp 125 - Visual Information Processing

Spring Semester 2019 - Week 5 - Monday

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HTML Basics - <body> - part 2

linking

- linking is an inevitable part of web design and HTML usage
- can be considered within three different contexts
 - *linking to an external site*
 - *linking to another page within the same site*
 - *linking different parts of the same page*
- add links to text and images within the HTML
- <a> element for links plus required attributes, e.g.

```
<!-- external link -->
<a href="http://www.google.com/">Google</a>
<!-- email link -->
<a href="mailto:name@email.com">Email</a>
<!-- internal page link -->
<a href="another_page.html">another page</a>
<!-- define internal anchor - using name attribute -->
<a name="anchor">Internal anchor</a>
<!-- define internal anchor - using ID attribute -->
<a id="anchor">Anchor</a>
<!-- internal anchor link -->
<a href="#anchor">Visit internal anchor</a>
<!-- internal anchor link on another page -->
<a href="/another_page.html#anchor">Visit internal anchor</a>
<!-- internal anchor link on a page on an external site -->
<a href="https://www.test.com/test.html#anchor">Visit internal anchor on external site</a>
```

- Demo - HTML - Internal Anchor

HTML Basics - <body> - part 3

linking - cont'd

- standard attributes supported by <a> element include
 - *class, id, lang, style, title...*
- optional attributes are available for <a> element including
 - *target, href, name...*
- target attribute specifies where the link will be opened relative to the current browser window
- possible attribute values include

```
<!-- open link in new window or tab -->
_blank
<!-- same frame -->
_self
<!-- open within parent frameset -->
_parent
<!-- open in the same window -->
_top
```

Video - Hyperlinks

How the hyperlink changed everything | Small Thing Big Ide...



Source - YouTube - How the hyperlink changed everything

HTML Basics - <body> - part 4

images

- allows us to embed an image within a web page
- element requires a minimum src attribute

```


```

- other optional attributes include
 - *class, id, alt, title, width, height...*
- use images as links
- image maps

```
<map name="textmap">
  <area shape="rect" coords="..." alt="Quote 1" href="notes1.html" />
</map>
```

HTML Basics - <body> - part 5

tables

- organise data within a table starting with the <table> element
- three primary child elements include
 - *table row, table header, table data*
 - <tr>, <th>, <td>

```
<table>
  <caption>424 - basic test table</caption>
  <tr>
    <th>heading 1</th>
    <th>heading 2</th>
  </tr>
  <tr>
    <td>row 1, cell 1</td>
    <td>row 2, cell 2</td>
  </tr>
</table>
```

- also add a <caption>
- span multiple columns using the colspan attribute
- span multiple rows using the rowspan attribute

HTML Basics - <body> - part 6

lists

- unordered list , ordered list , definition list <dl>
- and contains list items

```
<ul>  
  <li>...</li>  
</ul>
```

```
<ol>  
  <li></li>  
</ol>
```

- definition list uses <dt> for the item, and <dd> for the definition

```
<dl>  
  <dt>Game 1</dt>  
  <dd>our definition</dd>  
</dl>
```

HTML Basics - <body> - part 7

forms

- used to capture data input by a user, which can then be processed by the server
- <form> element acts as the parent wrapper for a form
- <input> element for user input includes options using the *type* attribute
 - *text, password, radio, checkbox, submit*

```
<form>
  Text field: <input type="text" name="textfield" />
</form>
```

- process forms using
 - e.g. *JavaScript...*

HTML & JavaScript - embed JavaScript

- start by embedding JavaScript in HTML
 - *add a `<script>` element to the HTML document*

```
<script>
var title = "Welcome to Castalia...";
console.log(title);
</script>
```

- in a browser's console
 - *each line would be executed with Return keypress*
 - *in a HTML file*
 - *JS run from top to bottom at one time*
 - *`console.log` - value will be output to browser's console*

References

- [W3Schools - HTML Form Attributes](#)
- [W3Schools - HTML Form Elements](#)
- [W3Schools - Math object](#)