LECTURE 04 (01): PAGE LAYOUT

Web Programming

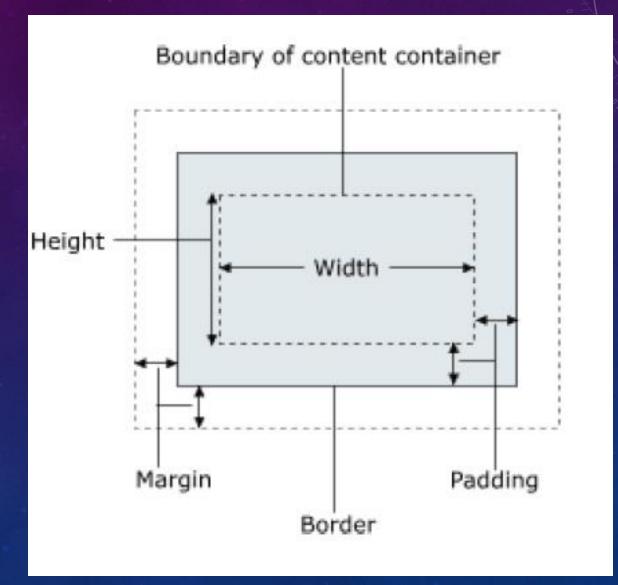


INSTRUCTOR: DR. MOHAMMED ABDALLA

PAGE LAYOUT THE CSS BOX MODEL

- for layout purposes, every element is composed of:
 - The element's content
 - a border around the element
 - padding between the content and the border (inside)
 - a margin between the border and other content (outside)
- width = content width + L/R padding + L/R border + L/R margin
- height = content height + T/B padding + T/B border +T/B margin

PAGE LAYOUT THE CSS BOX MODEL



CSS PROPERTIES FOR BORDERS

CSS

```
h2 { border: 5px solid red; }
```

Output

This is a heading.

property	description	
border	thickness/style/size of border on all 4 sides	

- thickness (specified in px, pt, em, or thin, medium, thick)
- style (none, hidden, dotted, dashed, double, groove, inset, outset, ridge, solid)
- color (specified as seen previously for text and background colors)

MORE BORDER PROPERTIES

property	description
border-color, border-width, border-style	specific properties of border on all 4 sides
border-bottom, border-left, border-right, border-top	all properties of border on a particular side
border-bottom-color, border-bottom-style, border-bottom-width, border-left-color, border-left-style, border-left-width, border-right-color, border-right-width, border-right-width, border-top-color, border-top-style, border-top-width	properties of border on a particular side

BORDER EXAMPLE

• each side's border properties can be set individually

CSS

```
h2 {
  border-left: thick dotted #CC0088;
  border-bottom-color: rgb(0, 128, 128);
  border-bottom-style: double;
}
```

Output

This is a heading.

CSS PROPERTIES FOR PADDING

property	description
padding	padding on all 4 sides
padding-bottom	padding on bottom side only
padding-left	padding on left side only
padding-right	padding on right side only
padding-top	padding on top side only

PADDING EXAMPLE 1

CSS

```
p { padding: 20px; border: 3px solid black; }
h2 { padding: 0px; background-color: yellow; }
```

Output

This is the first paragraph

This is the second paragraph

This is a heading

PADDING EXAMPLE 2

CSS

```
p {
    padding-left: 200px; padding-top: 30px;
    background-color: fuchsia;
}
```

Output

This is the first paragraph

This is the second paragraph

CSS PROPERTIES FOR MARGINS

property	description
margin	margin on all 4 sides
margin-bottom	margin on bottom side only
margin-left	margin on left side only
margin-right	margin on right side only
margin-top	margin on top side only

MARGIN EXAMPLE 1

CSS

```
p {
    margin: 50px;
    background-color: fuchsia;
}
```

Output

This is the first paragraph

This is the second paragraph

 notice that margins are always transparent (they don't contain the element's background color, etc.)

MARGIN EXAMPLE 2

CSS

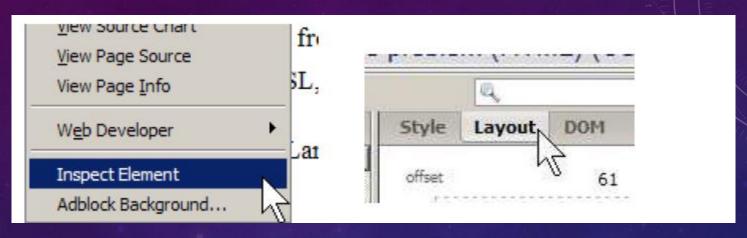
```
margin-left: 8em;
background-color: fuchsia;
}
```

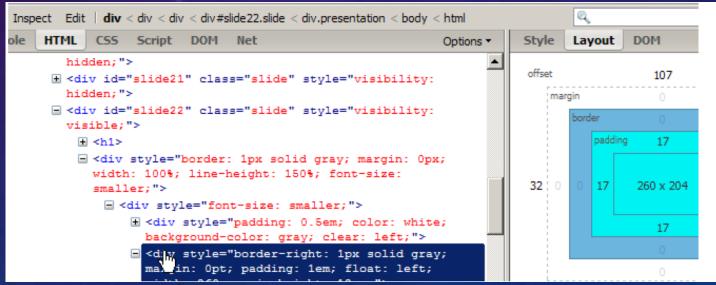
Output

This is the first paragraph

This is the second paragraph

FIREFOX FIREBUG ADD-ON





CSS PROPERTIES FOR DIMENSIONS

CSS

```
p { width: 350px; background-color: yellow; }
h2 { width: 50%; background-color: aqua; }
```

Output

This paragraph uses the first style above.

An h2 heading

property	description
width, height	how wide or tall to make this element (block elements only)
<pre>max-width, max-height, min-width, min-height</pre>	max/min size of this element in given dimension

PAGE LAYOUT SECTIONS OF A PAGE: <DIV>

- a section or division of your HTML page (block)
- a tag used to indicate a logical section or area of a page
- has no appearance by default, but you can apply styles to it

HTML

Output

Spatula City! Spatula City!

See our spectacular spatula specials!

We'll beat any advertised price!

**INLINE SECTIONS: **

 has no on screen appearance, but you can apply a style or ID to it, which will be applied to the text inside the span

HTML

```
<h2>Spatula City! Spatula City!</h2>See our <span class="special">spectacular</span> spatula specials!We'll beat <span class="standout">any advertised price</span>!
```

Output

Spatula City! Spatula City!

See our <mark>spectacular</mark> spatula specials!

We'll beat any advertised price!

CSS CONTEXT SELECTORS

applies the given properties to selector2 only if it is inside a selector1 on the page

applies the given properties to **selector2** only if it is *directly* inside a **selector1** on the page (**selector1** tag is immediately inside **selector2** with no tags in between)

CSS

```
selector1 selector2 {
   properties
}
```

```
selector1 > selector2 {
    properties
}
```

CONTEXT SELECTOR EXAMPLE

HTML

```
Shop at <strong>Hardwick's Hardware</strong>...

The <strong>best</strong> prices in town!
Act while supplies last!
```

CSS

```
li strong { text-decoration: underline; }
```

Output

Shop at Hardwick's Hardware...

- The <u>best</u> prices in town!
- Act while supplies last!

MORE COMPLEX EXAMPLE

HTML

<u>CSS</u>

```
#ad li.important strong { text-decoration: underline; }
```

Output

Shop at **Hardwick's Hardware**...

- The <u>best</u> prices in town!
- Act while supplies last!

PAGE LAYOUT SECTIONS OF A PAGE: <DIV>

</html>

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title> Page Title</title>
</head>
<body>
<div id="container" style="width:500px">
   <div id="header" style="background-color:#7f81f6;">
           <h1 style="margin-bottom:0;"> Title of Web Page and Logo</h1>
    </div>
    <div id="menu" style="background-color:#c6c6f7;height:200px;width:100px;float:left;">
          <l
              <a href="index.html">Home</a>
              <a href="about.html">About us</a>
              <a href="services.html">Services</a>
              <a href="solutions.html">Solutions</a>
              <a href="contact.html">Contact</a>
           </div>
   <div id="content" style="background-color:#EEEEEE;height:200px;width:400px;float:left;">
       The body here
   </div>
   <div id="footer" style="background-color:#dedefa;clear:both;text-align:center;">
       Copyright @ xyz.com
   </div>
 </div>
</body>
```

PAGE LAYOUT SECTIONS OF A PAGE: <DIV>

Title of Web Page and Logo

The body here

- Home
- About us
- Services
- Solutions
- Contact

Copyright © xyz.com

USING TABLE < TABLE >

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head id="Head1" runat="server">
 <title> Page Title</title>
</head>
 <body>
  <h1>Title of Web Page and Logo</h1>
       <l
           <a href="index.html">Home</a>
           <a href="about.html">About us</a>
           <a href="services.html">Services</a>
           <a href="solutions.html">Solutions</a>
           <a href="contact.html">Contact</a>
         The body here
       Copyright @ xyz.com
        </body>
</html>
```

PAGE LAYOUT USING TABLE < TABLE >

Title of Web Page and Logo

- Home
- About us
- Services
- Solutions
- Contact

The body here

Copyright © xyz.com

TEMPLATE EXAMPLES

BusinessSolutions

Home

About us

Services

Solutions

Support

Blog

Contact

Search

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Morbi quiseros sedquam interdum placerat

Fusce placerat tellusdiam rutrum porttitor



Ut posuere nibh in tortor

Phasellusposuere semper loremsodales orci fringilla



In sagittis lacus mollis nunc

malesuada et facilisisipsum scelerisque

Blog

Quisque iaculis erat in velit fermentum pellentesque.

Sept 21 by Nullan [8]

Semper. Cras eu elit velit. Nullam vel eros turpis.

Sept. 21 (by Nullam | 8)

Aenean id erat elit, quis venenatis erat.

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Donec venenatis, mauris in blandit tempor, sem tellus vehicula lorem



Proin condiment porttitor ultrices

Cras tristique faucibus sagittis. Praesent pulvinar, dolor in posuere vulputate

LECTURE 04 (02): HTML FORMS AND SERVER-SIDE DATA

Web Programming



INSTRUCTOR: DR. HOSSAM ZAWBAA

HTML FORMS AND SERVER-SIDE DATA

- some web pages allow us to submit our own new data
- most server-side web programs accept parameters that guide their execution

FORM EXAMPLE: CREATING EMAIL ACCOUNT



FORM EXAMPLE: CREATING EMAIL ACCOUNT

السنة	تاریخ المیلاد یوم ▼ شهر √
	النوع حدد واحدًا
	ساعدنا في حماية معلوماتك يساعدنا رقم هاتفك في الحفاظ على أمان حسابك.
	يساعدن رام هانف دي الحفاظ على المان حسابك. رمز البلد
•	ربر ابيا مصر (20+)
	رقم الهاتف

نشاء حساب

QUERY STRINGS AND PARAMETERS

URL?name=value&name=value...

http://example.com/student_login.php?username=stepp&sid=1234567

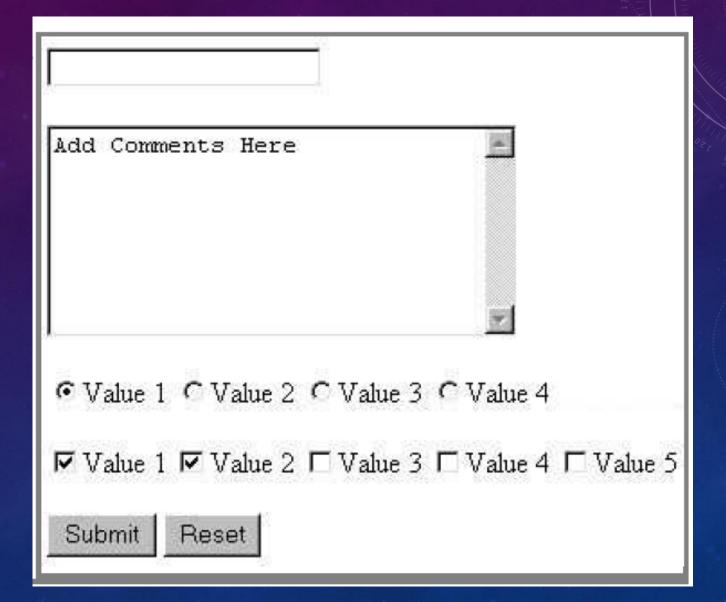
server

- often passed by placing name/value pairs at the end of a URL
- above, parameter username has value stepp, and sid has value 1234567
- PHP (or ASP or ASP.net) code on the server can examine and utilize the value of parameters

HTML FORMS

- Form is a group of UI controls that accepts information from the user and sends the information to a web server.
- forms use HTML UI controls (buttons, checkboxes, text fields, etc.)
- the information is sent to the server as a query string
- JavaScript can be used to create interactive controls (seen later)

HTML FORMS



HTML FORM: <FORM>

HTML

```
<form action="web service URL">
form controls
</form>
```

 required action attribute gives the URL of the server web service that will process this form's data

FORM EXAMPLE

HTML

OUTPUT

Let's search Google: Submit Query

FORM CONTROLS: <INPUT>

HTML

```
<input type="text" name="q" value="New Report" />
<input type="submit" value="Insert" />
```

OUTPUT

New Report

Insert

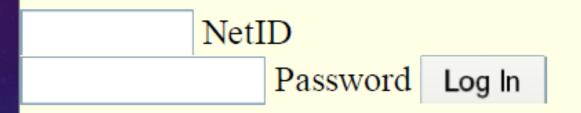
- input element is used to create many UI controls
 - an inline element that MUST be self-closed
- name attribute specifies name of query parameter to pass to server
- **type** can be button, checkbox, file, hidden, password, radio, reset, submit, text, ...
- value attribute specifies control's initial text

TEXT FIELDS: <INPUT>

HTML

```
<input type="text" size="10" maxlength="8" /> NetID<br />
<input type="password" size="16" /> Password
<input type="submit" value="Log In" />
```

OUTPUT



- input attributes: disabled, maxlength, readonly, size, value
- size attribute controls onscreen width of text field
- maxlength limits how many characters user is able to type into field