

WEB1100: Lecture 8 Web Development & HCI

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Agenda for today

· CSS: box model, image, table, drop-down menus

HTML page layout with CSS



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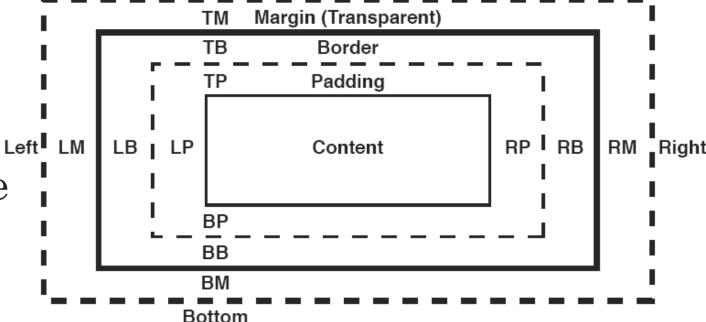
•Content: the innermost box

•Padding: surrounding of

content

•Borders: surrounding the padding

•Margins: the outermost layer

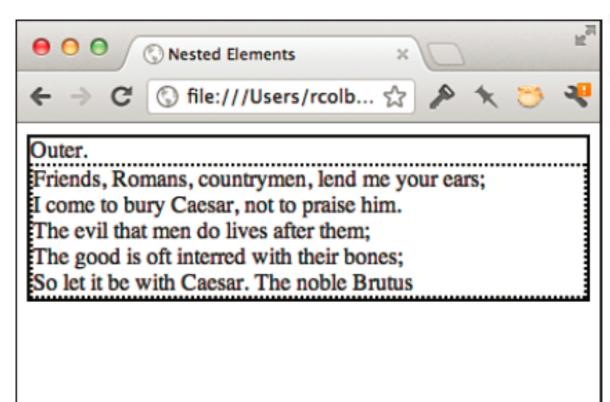


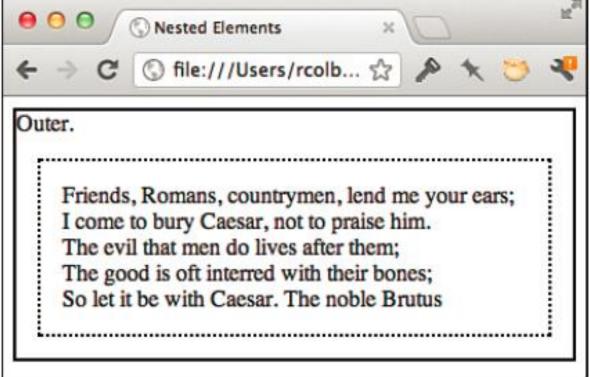
Top



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Margin Edge Border Edge Padding Edge Content Edge



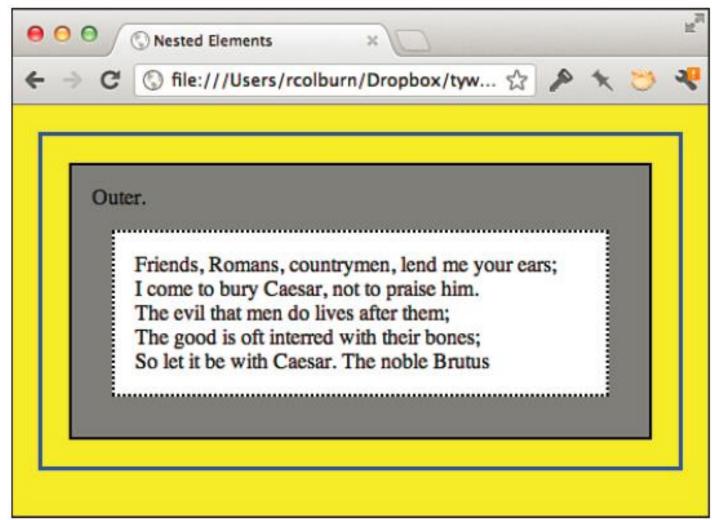




```
<html>
<head>
<title>Nested Elements</title>
<style type="text/css">
.outer { border: 2px solid black; }
.inner { border: 2px dotted black;
}
```

```
padding: 0;
         margin: 0; }
  </style>
</head>
<body>
<div class="outer">
Outer.
<div class="inner">
Friends, Romans, countrymen, lend me your ears; <br />
I come to bury Caesar, not to praise him. <br />
The evil that men do lives after them; <br />
The good is oft interred with their bones; <br />
So let it be with Caesar. The noble Brutus<br />
</div>
</div>
</body>
</html>
```

```
.outer { border: 2px solid black;
     background-color: gray;
     padding: 15px; }
.inner { border: 2px dotted black;
     background-color: white;
     padding: 15px;
     margin: 15px; }
body { margin: 20px;
    border: 3px solid blue;
    padding: 20px;
    background-color: yellow;
```



Web Images

Four mostly used formats:

- •GIF: suitable for logos, icons, line art and other simple images
- •JPEG: suitable for photographic images
- •PNG: suitable if the quality over the size is the issue
- •SVG: suitable for responsive web design



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Web Images

Basics:

- • tag: has no closing tag
- •
- •can be used inline or as a navigation icon
- •can be placed in the header of a section
- •can be placed inside a line of text
- •other styling properties can be applied



Building Tables

Basics:

- ... tag: holds all table-components
- holds styling properties
- created left to right and top to bottom
- •<caption>.. <caption> tag: name of the table
- , , and tags: rows,
 - headings and data.



Building Tables

	Left	Centered	Right
Тор			
Centered			
Bottom			



Building Tables

```
<!DOCTYPE html>
|\langle ht.ml \rangle|
 <head>
   <title>Cell Alignments</title>
   <style>
     td { height: 100px; }
   </style>
 </head>
 <body>
   <br />
      Left
      Centered
      Right
     Top
      <img src="star.png" alt=""</pre>
      />
      <img src="star.png" alt="" />
      <imq src="star.png" alt="" />
     Centered
      <img src="star.png" alt="" />
      <img src="star.png" alt="" />
      <imq src="star.png" alt="" />
     </t.r>
     Bottom
      <imq src="star.png" alt="" />
      <img src="star.png" alt="" />
      <imq src="star.png" alt="" />
     </body>
</html>
```

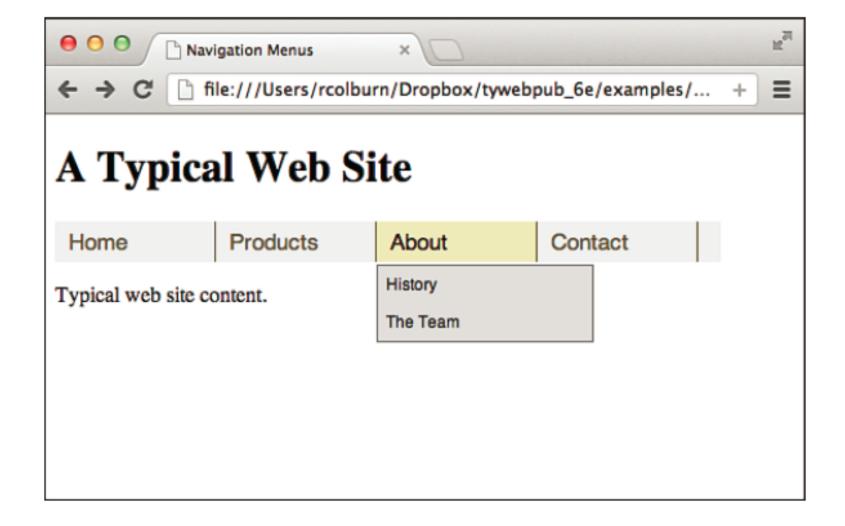
Creating Drop-Down Menus

Basics:

- most common navigation technique
- provides deep navigation
- •requires less screen real estate
- •CSS becomes the substitute of JavaScript here
- •it's a regular nested HTML list
- •CSS converts it into dynamic navigation bar



Creating Drop-Down Menus

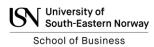




Creating Drop-Down Menus

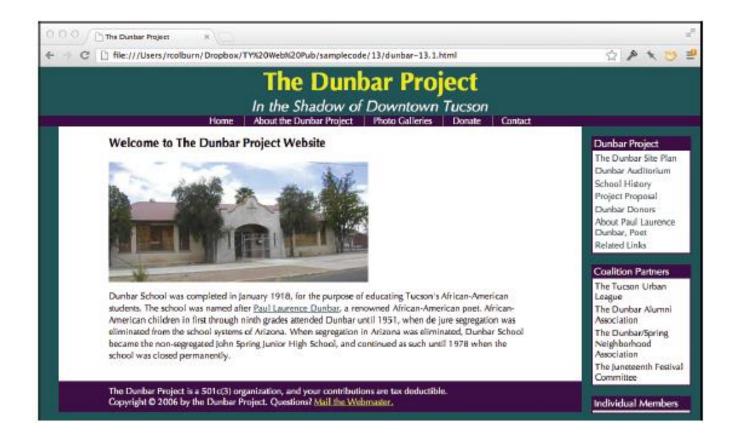
```
<html>
   <head>
      <title>Navigation Menus</title>
      <link rel="stylesheet" type="text/css" href="DropDownMenu.css">
      <style >
      </style>
   </head>
   <body>
      <h1>A Typical Web Site</h1>
      <nav id="navigationBar">
          ul>
             <a href="/home.html">Home</a>
             <a href="/products.html">Products</a>
                 <l
                    <a href="/products/a.html">Something Awesome</a>
                    <a href="/products/b.html">Another Awesome Thing</a>
                    <a href="/products/c.html">Our Best Thing</a>
                    <a href="/products/d.html">A Cheap Thing</a>
                 <a href="/about.html">About</a>
                 <l
                    <a href="/history.html">History</a>
                    <a href="/team.html">The Team</a>
                 <a href="/contact.html">Contact</a>
          </nav>
      Typical web site content.
   </body>
</html>
```

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CSS

Example: The Dunbar Project





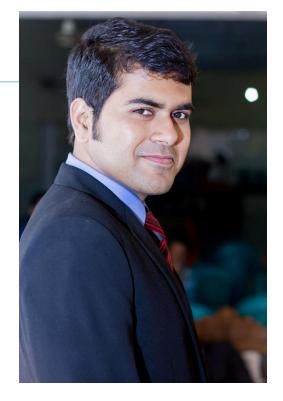
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```
<!doctype html>
!<html>
    <head>
        <meta charset="utf-8">
        <title>The Dunbar Project</title>
        <link rel="stylesheet" type="text/css" href="TheDunbarProject.css">
    </head>
    <body>
        <header>
           <h1>The Dunbar Project</h1>
            <h2>In the Shadow of Downtown Tucson</h2>
            <nav id="sitenav">
               <a href="index.html">Home</a>
               <a href="about/">About the Dunbar Project</a>
               <a href="gallery/">Photo Galleries</a>
               <a href="donate/">Donate</a>
               <a href="contact/">Contact</a>
            </nav>
        </header>
        <div id="main">
           <article id="content">
               <h3>Welcome to The Dunbar Project Website</h3>
               <img src="Dunbar School 1918.jpg" alt="Dunbar School">
                >Dunbar School was completed in January 1918, for the
               purpose of educating Tucson's African-American students.
               The school was named after <a href="poet.html">Paul
               Laurence Dunbar</a>, a renowned African-American poet.
               African-American children in first through ninth grades
               attended Dunbar until 1951, when de jure segregation was
               eliminated from the school systems of Arizona. When
               segregation in Arizona was eliminated, Dunbar School
               became the non-segregated John Spring Junior High School,
               and continued as such until 1978 when the school was
               closed permanently.
            </article>
```

```
<aside id="sidebar">
   <h3>Dunbar Project</h3>
   <01>
      <a href="plan/">The Dunbar Site Plan</a>
      <a href="auditorium/">Dunbar Auditorium</a>
      <a href="history/">School History</a>
      <a href="proposal/">Project Proposal</a>
      <a href="donors/">Dunbar Donors</a>
      <a href="poet.html">About Paul Laurence Dunbar, Poet</a>
      <a href="links/">Related Links</a>
   <h3>Coalition Partners</h3>
   <01>
      The Tucson Urban League
      The Dunbar Alumni Association
      The Dunbar/Spring Neighborhood Association
      The Juneteenth Festival Committee
   <h3>Individual Members</h3>
   <01>
      Karen Stendal
      Maung K. Sein
      Ståle Vikhagen
      Veralia G. Sanchez
       Salah U. Ahmed 
   </aside>
```

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Thank You!



Think Green, Grow Green, Live Green