

ANSWER KEY for Exam II
CIS 228: The Internet
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1. True or False:

- (a) **T** You can validate CSS files, in the same way you validate HTML files.
- (b) **F** Every CSS property declaration ends with a period.
- (c) **F** `em` specifies absolute sizes for fonts.
- (d) **F** If you mix 100% red, 100% green, and 100% blue you will get black.
- (e) **F** In strict HTML, you can nest block elements inside block elements.
- (f) **F** Pseudoclasses must be defined in your HTML file to be used.
- (g) **F** The `div` element is used to style in-line elements.
- (h) **F** Tables are defined in columns, using the `<tc>` element.
- (i) **T** The `<th>` element can designate either row or column headings.
- (j) **T** POST and GET are both ways of sending data to the web application.

2. Answer in two sentences or less the following:

- (a) What does the padding property do? Give an example.
The padding property is used to add extra space around an element, inside the (optional) border. For example, `‘padding: 20px’` adds 20 pixels of space around the element.
- (b) What does the margin property do? How does it differ from the padding property?
The margin property also adds space around an element, but it adds it outside the border.

3. For each of the following, identify whether it would be done in HTML or CSS:

- (a) **HTML** organize items in a table
- (b) **HTML** include an image
- (c) **CSS** set the width of an element
- (d) **CSS** change the text alignment of a paragraph
- (e) **CSS** change the background color of the page

4. Fill in the following table with the corresponding decimal or hexcode representation of the number. For partial credit, show your work.

Decimal	Hexcode
11	B
17	#11
20	#14
171	#ab
255	#ff

$$\#11 = 16 \times 1 + 1 = 17$$

$$20/16 = 1 \text{ remainder } 4$$

$$\#ab = 16 \times \#a + \#b = 16 \times 10 + 11 = 160 + 11 = 171$$

$$\#ff = 16 \times \#f + \#f = 16 \times 15 + 15 = 240 + 15 = 255$$

5. Write the HTML that does the following:

- (a) makes a text box where the user can enter their name:

```
<input type="text" name="name" id="name" value="">
```

- (b) makes a “submit” button with label, “Order now”:

```
<input type="submit" value="Order Now">
```

- (c) allows the user to select condiments for their order from salt, pepper, garlic (allow multiple items to be selected):

```
<input type="checkbox" name="extras[]" value="salt" id="salt">Salt<br>
<input type="checkbox" name="extras[]" value="pepper" id="pepper">Pepper<br>
<input type="checkbox" name="extras[]" value="garlic" id="garlic">Garlic
```

- (d) makes a drop-down menu with a choice of: “House Blend,” “Shade Grown Bolivia,” “Organic Guatemala,” or “Kenya.”

```
<select name="beans">
  <option value="House Blend">House Blend</option>
  <option value="Bolivia">Shade Grown Bolivia Supremo</option>
  <option value="Guatemala">Organic Guatemala</option>
  <option value="Kenya">Kenya</option>
</select>
```

6. Be the browser with the following HTML and CSS files. Draw the page and indicate any style (color, borders, etc) on your page:

HTML:

```
<html xmlns="http://www.w3.org/1999/xhtml" lang="en">
  <head> <title>Favorite Food</title>
    <link type="text/css" rel="stylesheet"
      href="food.css" />
  </head>
  <body>
    <div id="header"><h1>My Favorite Foods</h1></div>
    <div id="sidebar">
      <p> Recipes for both of these can be found in
        books on Italian and Spanish cooking at
        <a href="http://amazon.com">Amazon</a>.</p>
    </div>
    <div id="pesto"> <h2>Pesto</h2>
      <p><a href="pesto.html">Pesto</a> is made from
        fresh basil, garlic, olive oil, and salt.</p>
    </div>
    <div id="dulce"> <h2>Dulce de Leche</h2>
      <p>The ice cream, <a href="dulce.html">Dulce
        de Leche</a>, is made from milk and
        sugar and has a smooth caramel taste.</p>
    </div>
    <div id="footer">
      <p>Katherine St. John, <span class="email">stjohn@lehman.cuny.edu</span></p>
    </div>
  </body>
</html>
```

CSS:

```
div {
  border: dotted black 2px;
}
#sidebar {
  width: 100px;
  float: right;
  background-color: blue;
}
#footer {
  clear: both
}
#pesto {
  background-color : green;
}
#dulce {
  background-color: silver;
}
.email {
  font-family: Courier, monospace;
}
```



Answer:

7. Write a **complete** CSS style sheet that:

- uses a sans-serif font throughout the page,
- has a non-white background color,
- <h1> and <h2> headings have a dotted bottom border,

- <h1> headings should have white text, and
- paragraphs **inside a div element** from the class options have solid borders.

```
body {
    font-family: sans-serif;
    background-color: #aaaaaa;
}
h1, h2 {
    border-bottom: dotted black;
}
h1 {
    color : white;
}
div p.options {
    border : solid;
}
```

8. Write the HTML code **and the style sheet** for the table with the following information:
(Hint: Remember to align the text for each cell.)

Fall 2007: Total Enrollment by Undergraduate and Graduate Level

	Undergraduate	Graduate	Total
Lehman College	8,864	2,058	10,922
Community Colleges	76,864		76,864
Total University	203,515	29,445	232,960

HTML:

```
<table>
  <caption>Fall 2007: Total Enrollment by Undergraduate and
    Graduate Level</caption>
  <tr>
    <td></td>
    <th class="right">Undergraduate</th>
    <th class="right">Graduate</th>
    <th class="right">Total</th>
  </tr>
  <tr>
    <td>Lehman College</td>
    <td class="right">8,864</td>
    <td class="right">2,058</td>
    <td class="right">10,922</td>
  </tr>
  <tr>
    <td>Community Colleges</td>
```

```

        <td class="right">76,864</td>
        <td class="right"></td>
        <td class="right">76,864</td>
    </tr>
    <tr>
        <th>Total University</th>
        <td class="right">203,515</td>
        <td class="right">29,445</td>
        <td class="right">232,960</td>
    </tr>
</table>

```

CSS:

```

table {
    border:    thin solid black;
    caption-side:  top;
    border-collapse: collapse;
}
td, th {
    border:    thin solid black;
}
.right {
    text-align: right;
}

```

9. Write the style sheet that will arrange the following page:

- the main and sidebar sections should be side-by-side, and not overlapping,
- the award should be positioned on top of and overlapping the header, main, and sidebar sections,
- the coupon should have a fixed position, halfway down the browser's left edge,
- the footer should clear both sections.

(Hint: Do not change any of the HTML code.)

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
        <title>Starbuzz Coffee</title>
        <link rel="stylesheet" type="text/css" href="starbuzz.css" />
    </head>
    <body>
        <div id="header">
            
        </div>

```

```

<div id="award">
  
</div>
<div id="main">
  <h1>QUALITY COFFEE, QUALITY CAFFEINE</h1>
  <p>At Starbuzz Coffee, we are dedicated to filling all your  caffeine needs
    through our quality coffees and teas.</p>
  <h1>OUR STORY</h1>
  <p> "A man, a plan, a coffee bean". Okay, that doesn't make a palindrome, but it
    resulted in a damn good cup of coffee.  Starbuzz's CEO is that man, and you
    already know his plan: a Starbuzz on every corner.</p>
  <h1>STARBUZZ COFFEE BEVERAGES</h1>
  <p> We've got a variety of caffeinated beverages to choose
    from at Starbuzz, including our
    <a href="beverages.html#house" title="House Blend">House Blend</a>,
    <a href="beverages.html#mocha" title="Mocha Cafe Latte">Mocha Cafe Latte</a>,
    <a href="beverages.html#cappuccino" title="Cappuccino">Cappuccino</a>,
    and a favorite of our customers,
    <a href="beverages.html#chai" title="Chai Tea">Chai Tea</a>.</p>
  <p>We also offer a variety of coffee beans, whole or ground, for you to
    take home with you.  Order your coffee today using our online
    <a href="form.html" title="form.html">Bean Machine</a>, and take
    the Starbuzz Coffee experience home.</p>
</div>
<div id="sidebar">
  <p class="beanheading">
     <br />
    ORDER ONLINE with the <a href="form.html">BEAN MACHINE</a> <br />
    <span class="slogan">FAST <br />FRESH <br />TO YOUR DOOR <br /></span>
  </p>

  <p>Why wait?  You can order all our fine coffees right from the Internet
    with our new, automated Bean Machine.  How does it work?  Just click on
    the Bean Machine link, enter your order, and behind the scenes, your coffee
    is roasted, ground (if you want), packaged, and shipped to your door.</p>
</div>
<div id="footer">
  &copy; 2005, Starbuzz Coffee<br />
  All trademarks and registered trademarks appearing on
  this site are the property of their respective owners.
</div>
<div id="coupon">
  <a href="freecoffee.html" title="Click here to get your free coffee">
    
  </a>
</div>
</body>
</html>

```

One possible answer:

```

#main {
  padding:          15px;

```

```

    margin:          0px 330px 10px 10px;
}

#sidebar {
    padding:         15px;
    margin:          0px 10px 10px 10px;
    position:        absolute;
    top:             128px;
    right:           0px;
    width:           280px;
}
#footer {
    clear : both;
}
#award {
    position:        absolute;
    top:             30px;
    left:            365px;
    z-index:         99;
}
#coupon {
    position:        fixed;
    top:             300px;
    left:            -90px;
}

```

10. Write a **complete** HTML file **and** CSS file to display a blog page. The page should have a header (with title) and a footer (with your contact information), as well as a navigation sidebar with links to the entries in your page. You should include at least three entries, each containing the date, a short paragraph, and an image. When the user clicks on a date listed in the sidebar menu, the page should reload to that part of the page (hint: use destination anchors). The sidebar should appear to the right of the blog entries, and the footer should be at the bottom of the page, not overlapping any other section (i.e. it should “clear” all other sections).

HTML:

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
        <title>My Trip Around the USA on a Segway</title>
        <link type="text/css" rel="stylesheet" href="journal.css" />
    </head>
    <body>

```

```

<div id="header">
  <h1>Segway'n USA</h1>
  <p>Documenting my trip around the US on my very own Segway!</p>
</div>

<div id="sidebar">
  <ul>
    <li><a href="blog.html#aug20">August 20</a></li>
    <li><a href="blog.html#jul14">July 14</a></li>
    <li><a href="blog.html#jun2">June 2</a></li>
  </ul>
</div>

<h2><a id="aug20">August 20, 2005</h2>
<p></p>
<p>
  Well I made it 1200 miles already, and I passed
  through some interesting places on the way:
</p>

<h2><a id="jul14">July 14, 2005</h2>
<p>
  
  I saw some Burma Shave style signs on the side of the
  road today:
</p>
<blockquote>
  <p>
    Passing cars, <br />
    When you can't see, <br />
    May get you, <br />
    A glimpse, <br />
    Of eternity. <br />
  </p>
</blockquote>

  <h2><a id="jun2">June 2, 2005</h2>
  <p></p>
  <p>
    My first day of the trip! I can't believe I finally got
    everything packed and ready to go. </p>

<div id="footer">
  Contact Tony at headfirstlabs.com!
</div>
</body>
</html>

```


CSS:

```
#sidebar {  
    width: 150px;  
    float: right;  
    border: black solid;  
    background-color: #cc6600;  
}  
#footer {  
    clear: both;  
    border: black solid;  
    background-color: #cc6600;  
}
```