CIS 4004: Web Based Information Technology
Spring 2011

Basic Page Layouts – Part 3

Instructor :   Dr. Mark Llewellyn
                      markl@cs.ucf.edu
                      HEC 236, 407-823-2790
          http://www.cs.ucf.edu/courses/cis4004/spr2011

Department of Electrical Engineering and Computer Science
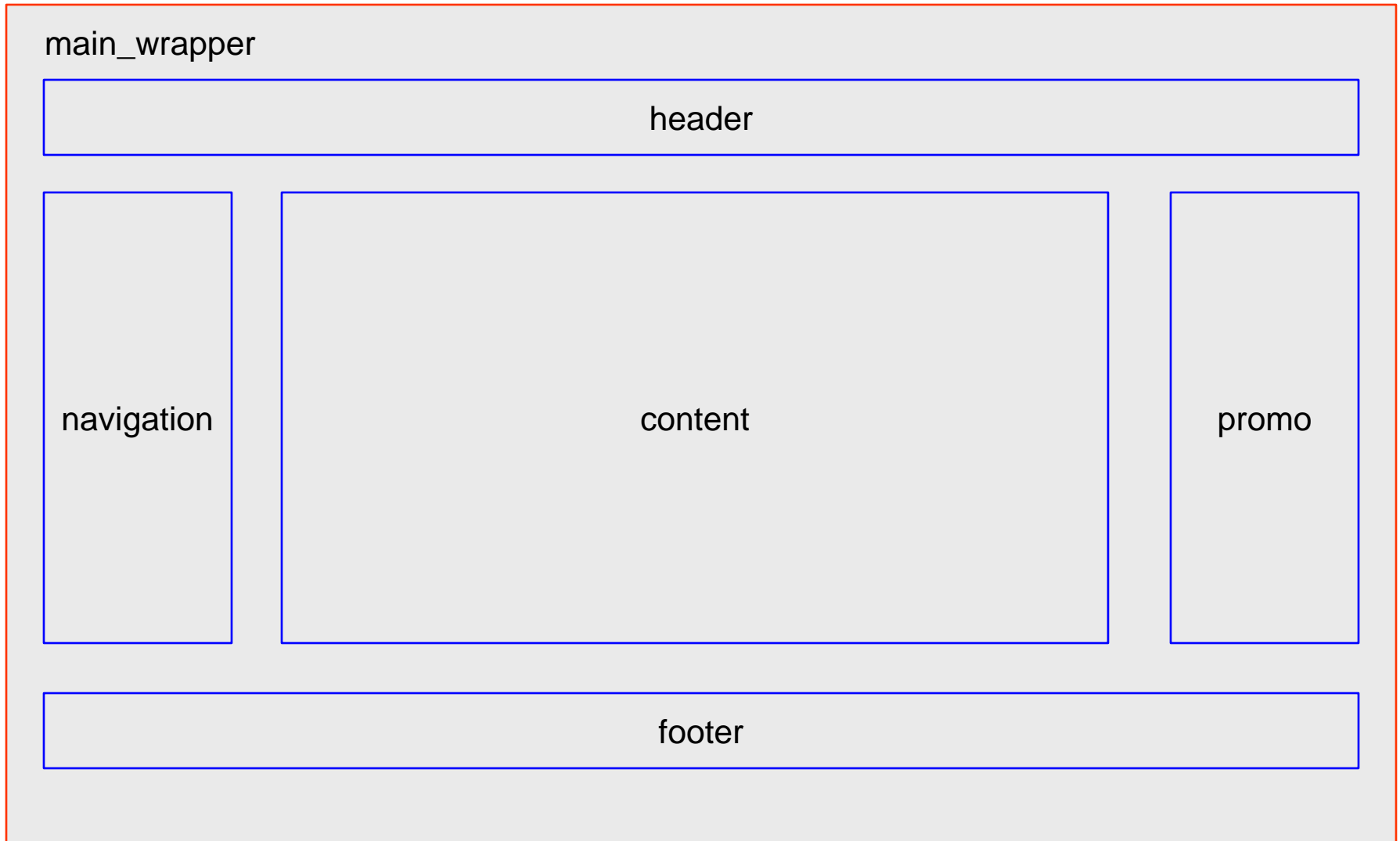University of Central Florida

A Three-Column Fixed-Width Layout

- A three-column fixed-width layout works in the same way as the two-column version.

- The only additional work is to add another column `<div>` element into the markup, float it like the other columns, and then share the 100% overall width among the three columns to our preference.

- I called the third column the `promo` column, although you can call it anything you'd like. The storyboard for this layout is shown on the next page.

- The main changes to the stylesheet that pertains to the layout are shown on page 4. If also added a few additional styles for the promo area in the text and colors stylesheet (see the actual files for the specific additions).

A Three-Column Fixed-Width Layout

main_wrapper

header

navigation

content

promo

footer

File   Edit   Search   View   Format   Language   Settings   Macro   Run   TextFX   Plugins   Window   ?   X

two_column_liquidCSSV1.css | two column liquid layout.html | three_column_fixed_widthCSS.css

```
 1      /* CSS Stylesheet for wThree Column Fixed Width Layout */
 2      /* filename: three_column_fixed_widthCSS.css   */
 3      #main_wrapper {
 4          width:840px;  /* widths of columns will change proportionately as this width is changed */
 5          margin-left:auto;   /* centers layout in browser */
 6          margin-right:auto;  /* centers layout in browser */
 7          text-align:left;  /* resets the centering hack for IE6 on the body tag */
 8      }
 9      #header {  text-align: center;
10      }
11      #nav {
12          width:18%;  /* this width + (content + promo) width must total 100% */
13          float:left;  /* floats on nav, content, and promo divs make them sit side by side */
14      }
15      #content {
16          float:left;  /* floats on nav, promo, and content divs make them sit side by side */
17          width:60%;  /* this width + (nav + promo) width must total 100% */
18          top:0px;
19      }
20      #promo {
21          width:22%;  /*this width + (nav + content) width must total 100% */
22          float:left;  /*floats on nav, content, and promo divs make them sit side by side */
23      }
```

Casca nb char : 1696   nb line : 46   Ln : 1   Col : 1   Sel : 0   Dos\Windows   ANSI   INS

A Three-Column Fixed Width Layout

- The only change to the markup is to include the `<div>` element for the third column and to place the desired content into the column.

- For this example, I just added some more navigation link and a couple of icons that should be familiar to you. The additional markup is shown on the next page.

- As you can see on the next page, the promo `<div>` element sits in the markup after the content `<div>` and before the footer `<div>` elements.

- All markup and CSS are on the course webpage for this layout.

File   Edit   Search   View   Format   Language   Settings   Macro   Run   TextFX   Plugins   Window   ?   X

two_column_liquidCSSV1.css | two column liquid layout.html | three_column_fixed_widthCSS.css | three column fixed width layout.html

```
64              </p>
65           </div><!-- end content_inner -->
66        </div><!-- end content -->
67
68        <!-- promo -->
69        <div id="promo">
70           <div id="promo_inner">
71              <ul>
72                 <li><a href="#">Nav item 1</a></li>
73                 <li><a href="#">Nav item 2</a></li>
74                 <li><a href="#">Nav item 3</a></li>
75              </ul>
76               <img src="twitter-bird.png"  height="100" width="100" alt="follow
77              <img src="identica-logo.png" alt="follow W3C on identi.ca" height=
78           </div> <!--end promo_inner -->
79        </div><!--end promo -->
80
81        <!-- footer -->
82        <div id="footer">
83           <div id="footer_inner">
84              <p>&copy; 2011 - a CSS-based three-column layout from
85                 <a href="http://www.cs.ucf.edu/courses/cis4004/spr2011">
```

Hype nb char : 3310   nb line : 96   Ln : 86   Col : 59   Sel : 0   UNIX   ANSI   INS

A Three-Column Fixed Width Layout

About This Layout

This page is styled with CSS. It demonstrates a float-based three-column layout with fixed width.

The Concept

The five structural <div> elements — header, nav, content, promo and footer — nest inside a fixed width containing <div>. The three columns, nav, content and promo, are sized with percentages and are floated so they sit side by side. The footer is cleared so it sits beneath whichever of the floated columns is longest.

Auto left and right margin settings are applied to the fixed-width containing <div>, which makes the layout center in a wide browser window.

The Files

This example uses two CSS files to style the page:

1. three_column_fixed_widthCSS.css
2. text_n_colorsCSS.css

The XHTML markup file is called:

- three column fixed width layout.html

Note: Inner <div> elements inside each of the five main <div> elements allow padding and borders to be applied without affecting the width of the main structural <div> elements.

Nav item 1
Nav item 2
Nav item 3
Nav item 4
Nav item 5

Nav item 1
Nav item 2
Nav item 3

© 2011 - a CSS-based three-column layout from *CIS 4004 - Web Based Information Technology - Spring 2011* by Dr. Mark Llewellyn

A Modification To The CSS

- To illustrate how easy it is to achieve an entirely different presentation to the color scheme of your layout, I modified the `text_n_colorsCSS` file to include definitions for a different color scheme that is varying shades of blue.

- Since we created the markup with the entire body of the document being styled with a single class, it means that we only need to modify a single line in our markup to achieve the effect shown on the next page.

- The modified (actually, additional) CSS is shown on pages 10-12.

A Three-Column Fixed Width Layout

About This Layout

This page is styled with CSS. It demonstrates a float-based three-column layout with fixed width.

The Concept

The five structural <div> elements — header, nav, content, promo and footer — nest inside a fixed width containing <div>. The three columns, nav, content and promo, are sized with percentages and are floated so they sit side by side. The footer is cleared so it sits beneath whichever of the floated columns is longest.

Auto left and right margin settings are applied to the fixed-width containing <div>, which makes the layout center in a wide browser window.

The Files

This example uses two CSS files to style the page:

1. three_column_fixed_widthCSS.css
2. text_n_colorsCSS.css

The XHTML markup file is called:

• three column fixed width layout.html

Note: Inner <div> elements inside each of the five main <div> elements allow padding and borders to be applied without affecting the width of the main structural <div> elements.

File   Edit   Search   View   Format   Language   Settings   Macro   Run   TextFX   Plugins   Window   ?   X

two column liquid layout.html | three_column_fixed_widthCSS.css | three column fixed width layout.html | **text_n_colorsCSS.css**

```
106              }
107
108
109     /* CLASS: BLUE TAG STYLES - font sizes, margins, padding, etc. */
110     /* NOTE: text colors follow below */
111     body.blue {background-color:#009;}   /* was  03F, then FFF */
112     .blue #main_wrapper {background-color:#00F;}    /*was D7CFE6 */
113     .blue #header {background-color:#09F;}    /* was 5E458A */
114     .blue #nav {background-color:#09C;}   /*was  30F, then AA559A */
115     .blue #content {background-color:#009;}    /*was 03F, then FFF */
116     .blue #promo {background-color:#09C;}    /*was 6430BF */
117     .blue #footer {background-color:#09F;}    /*was 3FF, then E6CFE1 */
118
119   ⊟ h1, h2, h3, h4, h5, h6, ul, ol, dl {
120          font-family: 'Trebuchet MS', Verdana,  serif;
121          }
122     /* CLASS:blue TEXT COLORS */
123   ⊟ .blue h1 {
124          color:#FFF;   /* was  993300, then E6CFE1 */
125          }
126   ⊟ .blue h2,  .blue h3,  .blue h4,  .blue h5 {
127          color:#0F6;   /*was BF30A4 */
128          }
```

Casc nb char : 4764   nb line : 217   Ln : 1   Col : 1   Sel : 0   Dos\Windows   ANSI   INS

File   Edit   Search   View   Format   Language   Settings   Macro   Run   TextFX   Plugins   Window   ?   X

two column liquid layout.html | three_column_fixed_widthCSS.css | three column fixed width layout.html | text_n_colorsCSS.css

```css
128            }
129    .blue h3 {
130        color:#3FF;  /*was E6CFE1 */
131            }
132    .blue h6 {
133        color:#000000;
134            }
135    .blue p {
136        color:#FF0;    /*was 0F0, then 574080 */
137            }
138 .blue ul,  .blue ol,  .blue dl,  .blue blockquote,  .blue cite {
139        color:#F09;  /* was 90C, then 6430BF */
140            }
141    .blue cite {
142        color:#FFF;
143            }
144    .blue #nav ul,  .blue #nav a {
145        color:#FFF;
146            }
147    .blue #promo_inner ul,  .blue #promo_inner a {
148        color:#FFF;
149            }
150    .blue table,  .blue form {
151        color:  #90C;   /* was 6430BF */
```

Casca nb char : 4764   nb line : 217   Ln : 1   Col : 1   Sel : 0   Dos\Windows   ANSI   INS

File   Edit   Search   View   Format   Language   Settings   Macro   Run   TextFX   Plugins   Window   ?   X

two column liquid layout.html | three_column_fixed_widthCSS.css | three column fixed width layout.html | text_n_colorsCSS.css

```css
153   .blue a {
154       color:#90C;    /* was 6430BF */
155       }
156   .blue a:hover {
157       color:#AA559A;   /* was AA559A */
158       }
159   .blue #nav a:hover {
160       color:#E6CFE1;   /*was E6CFE1 */
161       }
162   .blue #promo_inner a:hover {
163       color:#E6CFE1;   /* was E6CFE1 */
164       }
165
166
167
168   /* FONT SIZES */
169   h1 {font-size:1.5em;  /* 24pt */
170       }
171   h2 {font-size:1.375em;  /* 22pt */
172       line-height:1.25;
173       padding:.5em 0 0 0;
174       }
175   h3 {font-size:1.125em;  /* 18pt */
176       line-height:1.25;
```

Casca nb char : 4764   nb line : 217   Ln : 1   Col : 1   Sel : 0   Dos\Windows   ANSI   INS