CIS 4004: Web Based Information Technology Fall 2013

Advanced Page Layouts – Part 2

Instructor : Dr. Mark Llewellyn markl@cs.ucf.edu HEC 236, 407-823-2790 http://www.cs.ucf.edu/courses/cis4004/fall2013

Department of Electrical Engineering and Computer Science University of Central Florida



CIS 4004: Advanced Page Layouts – Part 1

The CSS Box Model



CIS 4004: Advanced Page Layouts – Part 1



Three-Column Fluid Center Page Layouts

- In Advanced Page Layouts Part 1, we examined several different approaches to handling a fixed-width multi-column page layout.
- The two primary approaches that we took were the more traditional nested <div>s and the new CSS3 box-sizing:border-box property. Hopefully, you have taken a closer look at both cases by now and are familiar with the techniques that were utilized in both cases.
- Our primary concern, in addition to achieving an overall pleasing appearance for our page, was to prevent "breaking" the page when the size of the content changed over time. The two approaches that we took were designed to prevent "float-slip".





Three-Column Fluid Center Page Layouts

- In this set of notes, we focus on a three-column layout with a fluid center.
- In other words, we no longer have a fixed overall width to our page layout, but allow it to expand and contract as the user alters the size of their browser window.
- There are two basic ways to achieve a fluid center column:
 - Use negative margins to position the right column as the center changes size, or
 - Make the column containers behave like table cells using CSS3.
- The negative margins work well with older browsers, but the CSS3 table properties method is more simple and will work with the newer generation browsers, so we'll look at both techniques.

CIS 4004: Advanced Page Layouts – Part 1 Page 4

- The issue with creating a three-column layout where the center content area is fluid is managing the right column, and controlling its relationship to the layout as the center content area resizes.
- The solution using negative margins was originally developed by Web designer Ryan Brill. His solution manipulates the margins of two wrapper elements (<div> elements): the first one around all three columns and a second one around just the left and center columns. The effect is shown on the next page.



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threecolwrapper	
twocolwrapper	7
Left column	Right column





- Since we dealt with the fixed width layout fairly extensively in the previous set of notes, I won't develop this layout in the same step-by-step fashion.
- Instead, I'll point out some of the highlights in the CSS that allows for the center column to be fluid. The next couple pages illustrate the fluid nature of the center column. Notice that as the browser window is expanded the center column gets wider (it also gets shorter since the content moves up). Notice too, that the left and right columns do not change size, only the center column is fluid.
- As shown in the previous page, the CSS effect that allows this behavior is the multiple layers of <div> elements, combined with negative margins applied to the right column.

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A Three-Column Fluid Center Layout

About This Layout

- Nav Link 1 Nav Link 2
- Nav Link 3 Nav Link 4

This page is styled with CSS. This layout uses negative margins to create this feature-rich layout.

<u>Key Features</u>

Resize this page to see the following effects:

- 1. The center content column changes width as you change the browser width.
- The min-width setting prevents the content being crushed down to nothing; once the content reaches minimum width, the layout gets no narrower.
- The max-width setting prevents the content getting too wide; once it reaches maximum width, the layout gets no wider and the auto margins center the layout in the browser window.
- 4. The footer sits below whichever column is longest.

A fixed-width multi-column layout CIS 4004 - Fall 2013 by Mark Liewellyn. Visit CIS 4004 Web Site for more HTML5 and CSS3 Information.

Sidebar Area This column has a negative margin applied to it to draw it inside of the full width content div. A positive margin on the content div ensures there will be room for it.

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CIS 4004: Advanced Page Layouts – Part 1

Page 8

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CIS 4004: Advanced Page Layouts – Part 1

Page 9



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9 6	- </td
10	<pre>* {margin:0; padding:0;}</pre>
11	<pre>body {font:1em helvetica, arial, sans-serif;}</pre>
12	dix#main_wrapper {
13	min-width:600px; max-width:1100px;
14	margin:0 auto; /* centers layout when > max width */
15	<pre>background:url(images/bg_tile_150pxw.png) repeat-y #geg;</pre>
16	}
17	dix#threecolwrap {
18	<pre>float:left;</pre>
19	width:100%;
20	<pre>background:url(images/bg_tile_170pxw.png) top right repeat-y;</pre>
21	}
22	dix#twocolwrap {
23	<pre>float:left;</pre>
24	width:100%;
25	display: inline; /* stops IE doubling margin on float*/
26	<pre>margin-right:-170px; /* neg margin move - was -210px*/</pre>
27	}
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- Here's how the fluid center column with negative margins works. You should look at the markup and CSS to help you understand what's happening.
- The right column (the <aside>) is 210 pixels wide. There is a right margin of 210 pixels on the center column (the <article> element) to create space for the right column, although doing this pushes the right column 210 pixels away. In other words, it would not have room for it and would slip under the left column. However, a negative right margin of 210 pixels is applied to the two-column wrapper around the left and center columns, which pulls the right column back up and into the space created by the right margin on the <article> element.



- The <article> element (center column) which is sized at 100%, still claims 100% of the space that remains after the left column is floated into position, but its right margin leaves space for the right column to be pulled into position by the negative margin on the inner wrapper.
- Another feature of this layout is the full height columns. Notice that the left and right columns are now the same height as the center column in this layout. In our previous version (the fixed-width multi-column layout), the left and right columns extended only as far as their content allowed.
- One technique for accomplishing this effect, and the one that I used here, is known as "faux columns".





- Faux columns actually only make you think that the columns are full height, actually, they are not, hence the name.
- This technique involves adding background graphic elements that are the same width and background color as the columns into the page's wrapper elements behind the actual columns.
- The wrapper elements, unlike the columns themselves, are the full height of the content area, so by repeating the background graphics vertically, they visually extend the columns down the page.
- Just to make the effect more pronounced here, I used different color backgrounds for the left and right columns as well as for the fluid center column.





- Again, look at the CSS as you read this explanation and it will help you understand what is happening.
- The main_wrapper div element is used for the left column's graphic and the threecolwrap div element is used for the right graphic and it is positioned to the div element's right edge.
- The background of the main_wrapper is set to the column of the background of the center column. This background color actually fills the background of the entire layout, but the graphics on the side columns, the header, and the footer overlay the main_wrapper, (recall that child elements overlay parent elements), so you only see its color in the center area.



- One addition item that you may have noticed looking at the CSS is that I added horizontal margins to the content elements using the child-star selector, e.g., nav > * {margin: 0 10px;}, instead of adding this padding to the inner div elements.
- Since the star selector means "all elements", if you write a selector followed by the star (asterik) such as <code>someSel</code> *, then you'll select all descendant elements of the <code>someSel</code>.
- The child selector > means "child of", so if you add the child selector before the *, such as someSel > * you will select all the immediate child elements, but no other descendants.
- This is exactly the effect we want in this situation in order to push all the top-level elements inside a container away from the edge.





- For example, article > * {margin: 0 20px:} will add 20-pixel left and right margin to every child element, but not to other descendant elements.
- If you need to add more indentation on one or more of the child elements in addition to this amount, you would need to set that by applying the padding or margins to the child element itself.
- So there you have a fluid center three column layout with full CSS styling. The full markup is available on the course website.



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45	<pre>nax > * {margin:0 10px;} /* moves child elements from column sides */ ^</pre>
46	<pre>nay li {margin-left:28px;} /* pushes list item markers onto page */</pre>
47	nay a {
48	font-family:'Open Sans';
49	font-weight:800;
50	font-size:.75em;
51	<pre>letter-spacing:07em;</pre>
52	text-decoration:none;
53	color:#fff;
54	}
55	article {
56	width:auto;
57	margin-left:150px;
58	margin-right:210px;
59	height:1%; /* forces hasLayout on IE */
60	background:#EEE;
61	padding:20px 0;
62	}
63	article > * {margin:0px 20px;} /* moves child elements from column sides */
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- We've spent the entire semester thus far making it very clear that content, presentation, and behavior of a web page must be separated.
- This would mean that it is completely unacceptable to add table elements to your HTML markup in order to create a multi-column layout.
- However, using CSS3 to make your layout behave like a table is completely acceptable and will become the norm as CSS3 becomes more universally adopted.
- Using CSS3 to make a layout behave like a table does not cause a permanent table-based presentation that cannot be restyled for, say presentation in a single-column layout on a mobile device.

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- Tables actually behave in very desirable ways when it comes to creating layouts.
- Tables are, in their most basic form, three elements: a table wrapper containing row wrappers for each row of table data cells , like this:

• The CSS3 display property of any HTML element can be changed to table, table-row, or table-cell and it will then simulate the behavior of its HTML table equivalent.

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- The big advantages of marking up the CSS columns in a layout as table cells are:
 - Table cells sit side by side like columns without floating, so padding can be added directly to them without breaking the layout, i.e., there is no float slip.
 - All table cells in a row are the same height by default so no faux column effects are needed.
 - Any column that is not explicitly given a set width is fluid.
- These three behaviors solve the problems of the layouts that we just been dealing with, however, there is a slight catch. CSS3 table properties are not supported by IE7 and below. However, if you are willing (and your clients are willing) to drop IE7, this is the way to go and will quickly become a web standard.

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- Using this technique, you don't even need <div> wrappers to act as the and elements you just need to set the display property of the three columns to table-cell.
- Browser rendering engines automatically add a table row element around a contiguous set of table cells if the table row is missing, and wrap a table element around table rows if the table element is missing, so you don't need any extra markup.
- A sample of the markup that uses this technique is shown on the next page with some sample renderings on the following pages. The entire markup for this version is available on the course web site.



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Link 1

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A Fluid Center Multi-column Layout Using CSS3 Table Properties

Three-Column Layout Using CSS3 Table Properties

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CIS 4004: Advanced Page Layouts - Part 1

Page 23

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A Fluid Center Multi-column Layout Using CSS3 Table Properties

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Three-Column Layout Using CSS3 Table Properties

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A Fluid Center Multi-column Layout Using CSS3 Table Properties

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Three-Column Layout Using CSS3 Table Properties

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This is the Sidebar

This is the text in the sidebar. As before it is repeated several times to add some depth. This is the text in the sidebar. As before it is repeated several times to add some depth. This is the text in the sidebar. As before it is repeated several times to add some depth. This is the text in the sidebar. As before it is repeated several times to add some depth. This is the text in the sidebar. As before it is repeated several times to add some depth.

CIS 4004: Advanced Page Layouts – Part 1

Page 25

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