Adobe
Dreamweaver
Web Page Layouts

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Web Page Layouts

Contents

Web Page Layouts ........................................................................................................................................ 4

Layout Tables ........................................................................................................................................... 4

CSS Layout ............................................................................................................................................... 5

CSS Column Types ................................................................................................................................... 6

Creating Layout with Div Tags .................................................................................................................. 6

Float .......................................................................................................................................................... 8
Web Page Layouts

There are many ways to layout a web page. When people first started creating web pages the pages contained text only and it was one column of text. Now that we are adding items such as images, tables, video and navigation the pages have become much more complex. In order to create pages that encompass all the complexities and are easy to read we have to work on more complex layouts. We want headers, footers, navigation areas as well as content areas.

Layout Tables

Web pages can be laid out with tables. Tables can be created with a fixed pixel dimension or with a relative size with % or ems. Relative sizes will resize with the browser size. This resizing may alter your design. Some tables have cells that are liquid or autostretch. Some tables have both fixed and liquid cells. Web pages designed with tables may or may not be accessible. There are many tables that will layout well (in a linear fashion). Tables will be read from top to bottom, from left to right. If there is a nested table within a main table, when a screen reader sees the nested table it will read that whole table before it moves on.

If you use tables for layout, make sure you set the header row as a th (table header). The newer and frequently more approved method of laying out web pages is to use CSS to organize the content on a web page. Div tags are used to contain the content on the page. A Div tag acts as a container for page elements. Div tags can be AP (absolutely positioned) with x and y coordinates or relatively with a distance from other page elements. Div tags can create headers and footers as well as sidebars and main content containers.

A simple table like this can be used for layout, but it is not the preferred method.
Tables can be created with a fixed size such as 750 pixels. Tables can also be set up as liquid or autostretch. To accomplish this, you would give your table a % width. Then as a browser window was increased in size so would the table.

Each column can be set as a fixed amount of pixels each. Or the columns can be set with a percent. For example, with a two column layout as in the picture above, if you want to make sure your Navigation column is 1/3 of the table, set the width (W) to 33% in the property inspector panel. Then the other column will fill the rest of the table. If you want the Navigation column to stay at 250 pixels, set the width to 250 pixels, then if you change the size of the table at a later time the Navigation column will always stay at 250 pixels.

**CSS Layout**

One way to create a CSS based layout is to choose a preset layout in Dreamweaver and add your content.

From the File menu choose New and then click on Blank Template > HTML Template. This gives many choices of templates.

The Layout choices include Fixed, Elastic, Liquid, and Hybrid.
CSS Column Types

Fixed – Column size is set in pixels

Elastic – Column width is set in units relative to the size of the text (ems). The size changes if the user changes the size of the text.

Liquid – Columns are set as a percentage of the browser window. The columns would change size if the user resizes the browser window.

Hybrid – Columns are a combination of the other options. You could have a Navigation column that resizes to the users text and a main content that would increase in size as the user resizes the browser.

If you are using a Dreamweaver layout Dreamweaver will give you the choice of adding the CSS to the head of the page or to a separate CSS page.

Creating Layout with Div Tags

To create your own layout, once you have the HTML formatted add div tags to the sections of your page that you want to move around.

Div tags take a section of code out of the normal flow of the document. Normal flow starts at the top left of the page. Then with floats and margins you can move items around the page.

Start by creating a container for the page. Set the width for the container and add margins. Usually we add a top margin in pixels. Side margins can be set with pixels or if you want to center the content, you can add auto for the left and right margins. This takes the space in the browser window outside of the container and divides it in half for the left and right margin. The width of the container can be a fixed width or a percentage or it can be set in ems. When you set a width remember to add all the widths of each column you want in your page and include border size and padding (consider box model). If the container is not wide enough to contain the other columns your design will not work properly. A column that should be on the right may get pushed down underneath the left container.
Box Model

Create div tags for each section of your page. Determine where you want the sections to be. A header section will be at the top of the page if it is the first item in your document and you don’t add a location for it. If you want a section to be a left column, add a property of float left. Add the width in pixels, %, or ems. Add padding as desired. At this point the next section in the flow of the document will move up to the right of the first section and may overlap. If that section is to be on the right it could be given it a code of float right and a width or you could set a left margin that was wider than the left column to push it over to the right.

To make a section like a footer not move up in empty space left by previous columns, use a code of clear:both. That will push that columns down to where there is no other columns on either side of it.

To add a border between columns add a border to one side of the column that should consistently have the greater amount of content.
Vertical Margin Collapse

When two elements are touching in a web page and both have a margin the vertical margins collapse
down to the larger of the two. If two paragraphs are on top of each other, and the paragraphs have a
margin of 20px, there will only be 20px not 40px of margin between the two.
If an element has a margin of 30px and the one below has 20px there will be margin collapse and you
end up with only 30px of margin.
To prevent the vertical margin collapse, add a border or padding to the element and then the margins
will not collapse. You do have to add in the added size of the border or padding to your overall height.

```html
.box {
  margin: 10px;
}
.box1 {
  margin: 9px;
  padding: 1px
}
.a {
  background: #777;
}
.b {
  background-color: #09C;
}
.c {
  background: #bbb;
}
.d {
  background-color: #0C0;
}
.e {
  background: #fff;
}

<div class="box a">
  <div class="box b">
    <div class="box c">
      <div class="box d">
        <div class="box e">
          The vertical margins collapse but the horizontal margins don't.
        </div>
      </div>
    </div>
  </div>
</div>
<p>&nbsp;</p>
<p>&nbsp;</p>
<div class="box1 a">
  <div class="box1 b">
    <div class="box1 c">
      <div class="box1 d">
        <div class="box1 e">
          The vertical margins here don't collapse because something solid such as a border or padding is in the way.
        </div>
      </div>
    </div>
  </div>
</div>
```
Float

Items can be floated left or right and they float to the edge of the containing element. The containing element could be another div or the body.

No Float

When items are floated they are pulled out of the normal flow of the document. And the elements below move up to take over the available space.

Floated Right
If the items below are wider than the floated element they can wrap around the floated items.