

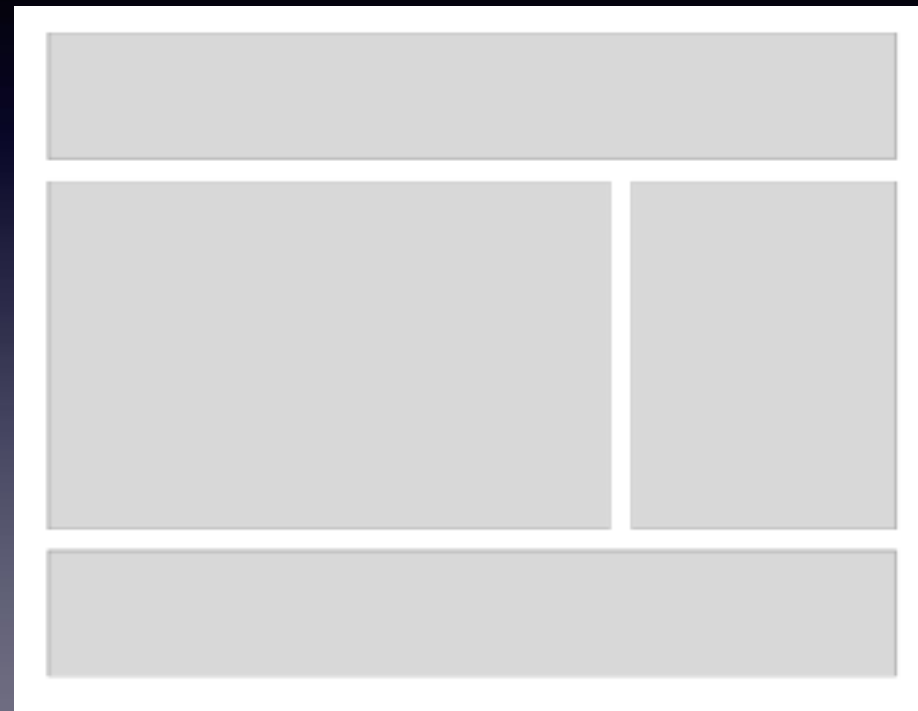
Fewd

Lesson 4 - layouts

Objectives

- Apply semantic tags for layouts - single column with dom tree prediction
- Apply header, footer, sidebar, and multi-column layouts to develop a web page.
- Experiment and predict effects of floats and clearing CSS positioning.

We want to make this layout



Schedule

- Styling multiple and singular elements (error message) -20mins
- positioning - 30 mins
- floats - 50 mins
- lab time - rest of time

review

How do we center a div with a set width?

<https://codepen.io/bigkat73/pen/xdEbYz>

Set a width,
and margin: auto

CENTERED
margin: auto;
width: 300px;

Center an inline element

- if it's standalone, wrap it in a div and text-align center

like an image

<https://codepen.io/bigkat73/pen/wrPKKZ>

review

`display: inline; padding / margins` only work left + right, not top and bottom.

Top and bottom spacing is controlled by `line-height` property because the content is in line.

Preview Layout

- content = message
- html = structure
- css = presentation

ID

- Each element can have only one id
- Each page can have only one element with that id

<https://codepen.io/bigkat73/pen/Xezmbj>

if more than one id is used, it will fail html validation

<https://www.freeformatter.com/html-validator.html>

Class

- you can use the same class on multiple elements
- you can use multiple classes on the same element

<https://codepen.io/bigkat73/pen/Xezmbj>

Adding a class name or ID to an element does nothing to that element without css.

elements can also have both an id and a class

<https://codepen.io/bigkat73/pen/pPgoNE>



Let's look at slightly more complex example

Can also be found in error_message exercise

browser with id

- <http://mydomain.com#comments>
- https://bigkat73.github.io/about_me/#more-things-i-like

classes are not magic

the browser will attempt to locate the element with an ID of "comments" and will automatically scroll the page to show that element

One more note

- Javascript depends on id's and classes

When we start working in javascript, we will see the importance of id's in context.

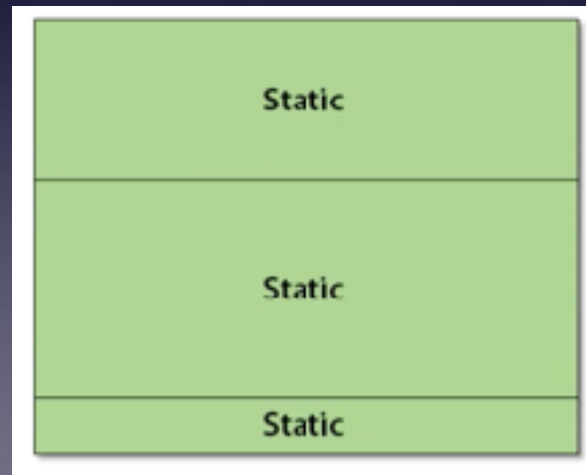
Positioning

Static Positioning

- HTML elements are positioned statically by default
- static element are positioned in normal document flow

Static Flow

block elements flow from top to bottom, making a new line after every box



Typical layout of page with html elements

- <https://codepen.io/bigkat73/pen/MmKWop>

This is how I like to start layouts, everything is staticly positioned

Relative

- Takes element out of normal flow, allowing it to be moved to the top, left, right, or bottom
- does not affect elements surrounding it
- position it relative to where it would have been

Absolute

- Also outside of the normal flow
- can be either positioned absolutely on the page or the first element that is not static
- other elements not affected by it

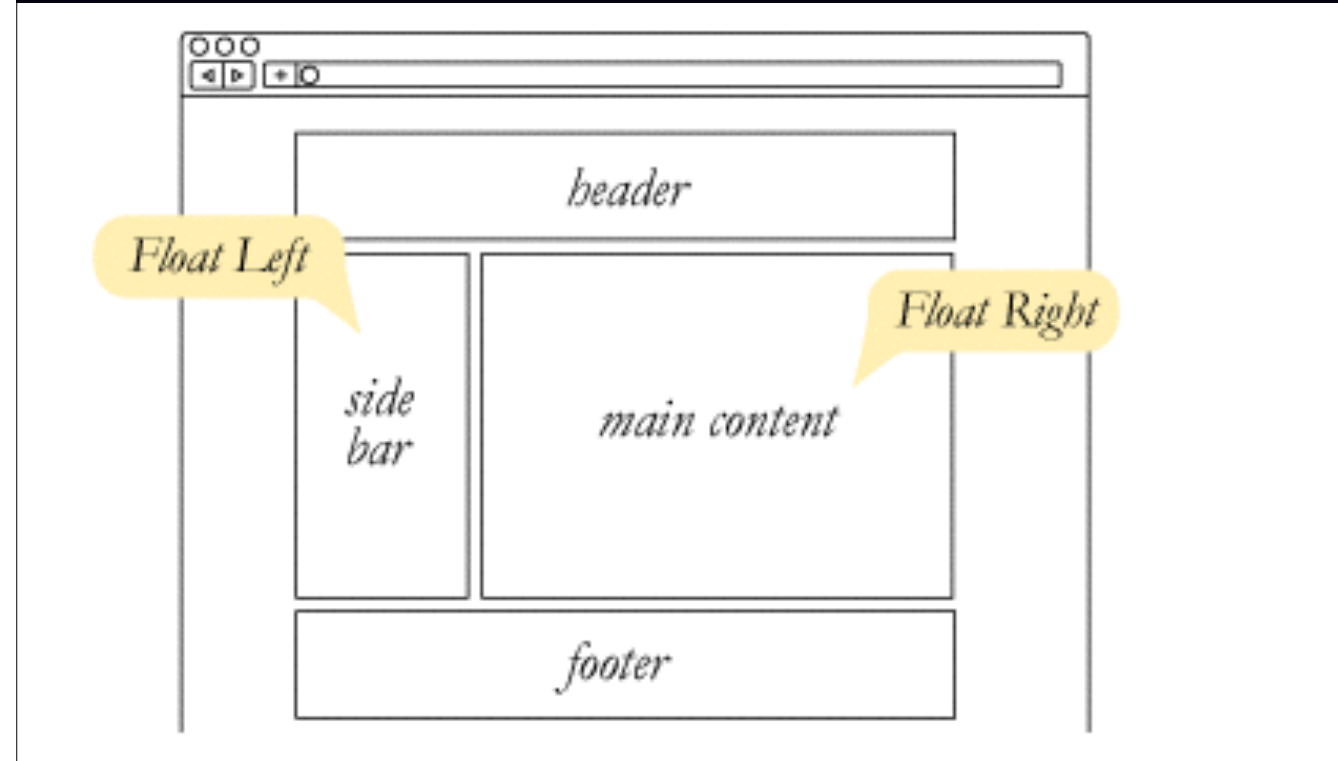
Gotchas

- elements that are not positioned in the normal flow can overlap.
- use z-index for element you want on top

Without any z-index value, elements stack in the order they appear in your markup.

Elements with non-static positioning (relative/absolute/fixed) will always appear on top of elements with default static positioning.

example with floats



breaking static flow

float

- normal flow is changed
- float property specifies whether or not a box will float and where it floats
- Elements, like paragraphs or lists, will wrap around the floated element
- specify a width otherwise a wide element will take up whole line

clear

specify clear:both to go back into the normal flow
and clear anything floated

- clear:right
- clear:left

float example

- <https://codepen.io/bigkat73/pen/bWEGLE>

inline-block

`display: inline-block;` - combination of the two concepts. The item(s) will display inline with other items but you can use all margin, padding, height and width properties on an inline-block.

using the display property

<https://codepen.io/bigkat73/pen/veWLyB>

where could inline-block be useful?

- talk and turn

layout lab challenge



let's look at the first two example here and see how we might do this

Assignment Time

- lab time

thoughts

<https://www.sitepoint.com/give-floats-the-flick-in-css-layouts/>