

WEEK 3 – FLOATS, CLEAR, AND LAYOUT LAB

CA GENERAL ASSEMBLY

FEWD



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AGENDA

Review, Homework Q&A

Horizontal Centering

HTML5 Elements

Debugging Lab - Art is Hard

Floats, Clears

Column Layout

Horizontal Navigation

Sprites

Busy Hands

COFFEE TALK WITH CHANDLER



FASHION BLOG

Q&A

CODEALONG - HORIZONTAL CENTERING

We can center an inline object by setting `text-align: center;` on its block object parent.

We can center a block object by setting a width on it and `margin: 0 auto;`

HTML5 ELEMENTS

The following behave exactly like `<div>`'s, but add semantic value to your code:

`<header>`

`<footer>`

`<nav>`

`<section>`

`<aside>`

`<article>`

HTML5 ELEMENTS

`<header>`

- Defines a header for a document or section

`<footer>`

- Defines a footer for a document or section

`<nav>`

- Defines navigation links

HTML5 ELEMENTS

`<section>`

- Defines a section in a document

`<aside>`

- Defines content aside from the page content

`<article>`

- Defines an article (as in a blog or news site)

CODEALONG - HTML5 ELEMENTS

Let's incorporate these into the Fashion Blog.

Which elements that we are already using will be replaced with HTML5 elements with more semantic value than just a `<div>`?

EXERCISE - DEBUGGING LAB

Art is Hard. So is debugging code.

Pick a partner (that you've not worked with before).

Between the two of you, try to find all of the errors in this code example.

FLOATS



MOVIE TIME!



**NOTHING MADE YOU HAPPIER
THAN SEEING THIS WHEN
WALKING INTO A CLASSROOM
AS A KID.**

WHAT ARE FLOATS

<http://codepen.io/josephjbliss/pen/zoCtj>

FLOATS - A MORE FORMAL DEFINITION



float

/flōt/ 

verb

1. rest or move on or near the surface of a liquid without sinking.
"she relaxed, floating gently in the water"
synonyms: stay afloat, stay on the surface, be buoyant, be buoyed up [More](#)
2. move or hover slowly and lightly in a liquid or the air; drift.
"clouds floated across a brilliant blue sky"
synonyms: [hover](#), [levitate](#), be suspended, [hang](#), defy gravity [More](#)

noun

1. a thing that is buoyant in water, in particular.
2. a platform mounted on a truck and carrying a display in a parade.
"a carnival float"

FLOATS – A MORE FORMAL DEFINITION

A left-floated box will shift to the left until its leftmost margin edge touches either the edge of the containing block, or the edge of another floated box.

If the size of the floated box exceeds the available horizontal space, the floated box will be shifted down.

Non-positioned, non-floated, block elements act as if the floated element is not there.

Inline elements flow next to the floated element.

FLOATS – A MORE FORMAL DEFINITION

A floated element should always have an explicit width set. If no width is set, it will collapse to be the width of the content within it (which may vary browser-to-browser / depend on font-size).

Block level elements above a floated element will not be affected by it. However, elements below will wrap around the floated element. To fix this, you need to do what we call “clearing” the float.

FLOAT AND CLEAR



FLOAT - 3 EXAMPLE SCENARIOS

1 - Creating “magazine”-like layout:

<http://codepen.io/josephjbliss/pen/zFCIb?editors=110>

2 - Creating column layouts without the use of tables:

<http://codepen.io/josephjbliss/pen/dlsBe?editors=110>

3 - Creating navigation:

<http://codepen.io/josephjbliss/pen/sAzxr?editors=110>

CLEARING

Floated objects do not add to the height of the object that they reside in. Which creates two problems:

- 1 - Objects further down the page don't "know where to go".
- 2 - If there are only floated objects within an object, it will collapse.

The solution is to use a method called clearing.

CLEARING - METHOD 1

CLEAR: BOTH;

If you just want to say to the browser that you've floated a couple block elements, start the next object on it's own line, add this to the next object.

```
clear: both;
```

CLEARING - METHOD 2

THE “CLEAR” CLASS AND OBJECT

Define the following in your CSS.

```
.clear {  
  clear: both;  
}
```

```
<div class="clear"> </div>
```

Create an element and add the class to it after the elements that have been floated.

CLEARING – METHOD 3

THE “CLEARFIX” CLASS

Only works for collapsed elements. Define the following in your CSS.

```
.clearfix:after {  
    visibility: hidden;  
    display: block;  
    font-size: 0;  
    content: " ";  
    clear: both;  
    height: 0;  
}
```

Add the class “clearfix” to the element that has collapsed.

CLEARING - METHOD 4

THE OVERFLOW METHOD

Only works for collapsed elements, add this to the CSS for the collapsed element.

```
overflow: hidden;
```

It's a way to tell the browser to pay attention to the height of the content. The most straightforward, but also probably the least intuitive.

CLEARING IN OUR 3 SCENARIOS

- 1 - Creating “magazine”-like layout. Inline text wrapping a floated element. - May or may not need to be cleared.
- 2 - Creating column layouts. Must be cleared if there is content following.
- 3 - Creating navigation. Must be cleared or parent element will collapse.

CODEALONG - COLUMN LAYOUT

Two, Three, and More Columns

EXERCISE - HORIZONTAL NAVIGATION

Create the navigation illustrated in the two png's.

You can use this CodePen as a reference:

<http://codepen.io/josephjbliss/pen/sAzxr>

CREATING NAVIGATION – THE DEBATE

`<nav>`, ``, ``, and `<a>`

Or

`<nav>`, `<a>`

<http://css-tricks.com/navigation-in-lists-to-be-or-not-to-be/>

DISPLAY: INLINE-BLOCK;

Best (and worst) of both worlds!

Great for certain things in place of floating, but also has its quirks.

Displays the object inline, but allows it to retain its box model properties, e.g. height, width, padding, margin.

DISPLAY: INLINE-BLOCK;

Objects appear on the same baseline, regardless of height.

Objects retain whitespace (like inline objects).

IE 6 and 7 don't support display: inline-block;

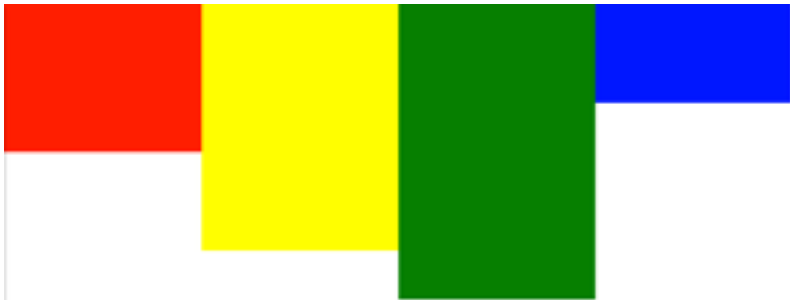
Some additional resources:

<http://learnlayout.com/inline-block.html>

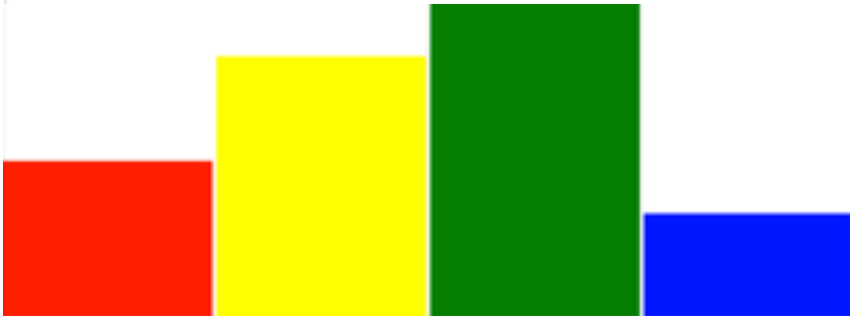
<http://www.ternstyle.us/blog/float-vs-inline-block>

DISPLAY: INLINE-BLOCK;

Four divs set to float: left;



Four divs set to display: inline-block;



CHANDLER'S CORNER



SPRITES - NO, NOT THESE ...



SPRITES - WHAT THEY ARE

Collections of images put into one single image.

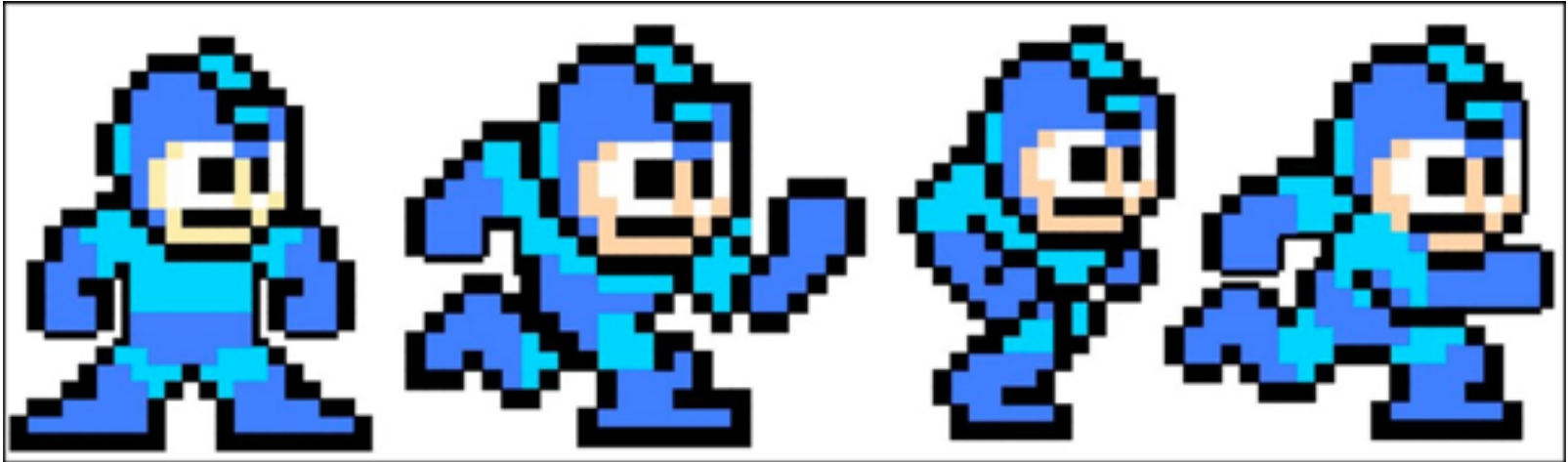
Facebook - facebook.com

https://fbstatic-a.akamaihd.net/rsrc.php/v2/yi/r/VbMsTLH_nZe.png

SPRITES - EXAMPLES

<http://codepen.io/josephjbliss/pen/cnpxm>

SPRITES - EXAMPLES



SPRITES - EXAMPLES



SPRITES - EXAMPLES



SPRITES - WHY WE USE THEM

Faster load time

- Reduce the number of server requests and save bandwidth.

Easier for designers to manage

- All images stored in one place.

No “Blips”

- <http://jobs.smashingmagazine.com>

CODEALONG - SOCIAL MEDIA SPRITES

EXERCISE - BUSY HANDS

Idle hands are the Devil's workshop. Get Busy Hands!

How would you mark-up the site? How you would <div>-up the site? What have we done already in class today that you can repurpose?

IDOL HANDS



FINAL PROJECTS

Start thinking about what you want to work on for your final project.

A proposal will be due next class.