AGENDA

Review, Homework Q&A

Debugging Lab - Art is Hard

Floats, Clears

Horizontal Navigation

Column Layout - Fashion Blog pt. 2

Busy Hands

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/ga-joe/pen/WxOYmX

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/ga-joe/pen/EyXGBy?editors=110

2 - Creating column layouts without the use of tables:
http://codepen.io/ga-joe/pen/NAgZko?editors=110

3 - Creating navigation:
http://codepen.io/ga-joe/pen/pbwqXr?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 {
    content: " ";
    display: block;
    clear: both;
}
```

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.

CREATING NAVIGATION – THE DEBATE

\<nav\>, \<ul\>, \<li\>, and \<a\>

Or

\<nav\>, \<a\>

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

EXERCISE – HORIZONTAL NAVIGATION

Create the navigation illustrated in the two png's.

CODEALONG – COLUMN LAYOUT

Fashion Blog Two Column

Let's plan this out a bit first, shall we?

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).

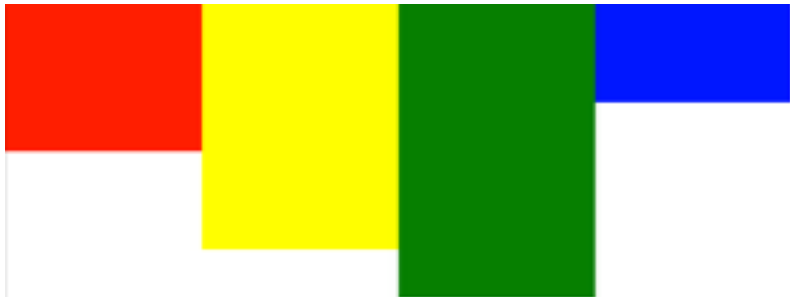IE 6 and 7 don't support display: inline-block;

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;

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.