

#### Class 7







#### Overview

Fonts & Media Queries Becoming Responsive

Mini Exam Study Guide Hands-On Activity

Layout and Flexible Grids Boxes & Layout Assignment



### Fonts + Media Queries Review



#### Hands-On Exercise

http://codepen.io/challahan/pen/ZLgPoR



#### Becoming Responsive

Responsive Process (Chapter 5, Responsive Web Design Book)



# How can design and development become more collaborative in a responsive design project?



#### Mini Exam Review

Mini Exam Review



## HTML Layout, Flexible Grids and Media Queries



## Layouts in HTML/CSS (Flexbox and Floats)



The boxes on screen can be positioned next to one another in two main ways: floats and flexbox



A 3rd way, CSS Grid, is now available and is great for multidimensional (think row+column) layouts



#### Floats

By using the "float: value" property in CSS, you can force elements to float over to the left or the right beside another element. Think of a floated image within text.

Lorem

Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam sodales pretium ipsum. Etiam ut enim augue. Etiam mi tortor, pulvinar at

dictum faucibus, mollis eget nunc.

Morbi justo velit, rutrum vel placerat in, adipiscing vitae sapien. Vivamus sit amet lacus enim, vel scelerisque justo. Nunc dignissim vehicula urna ac porta. Suspendisse potenti.

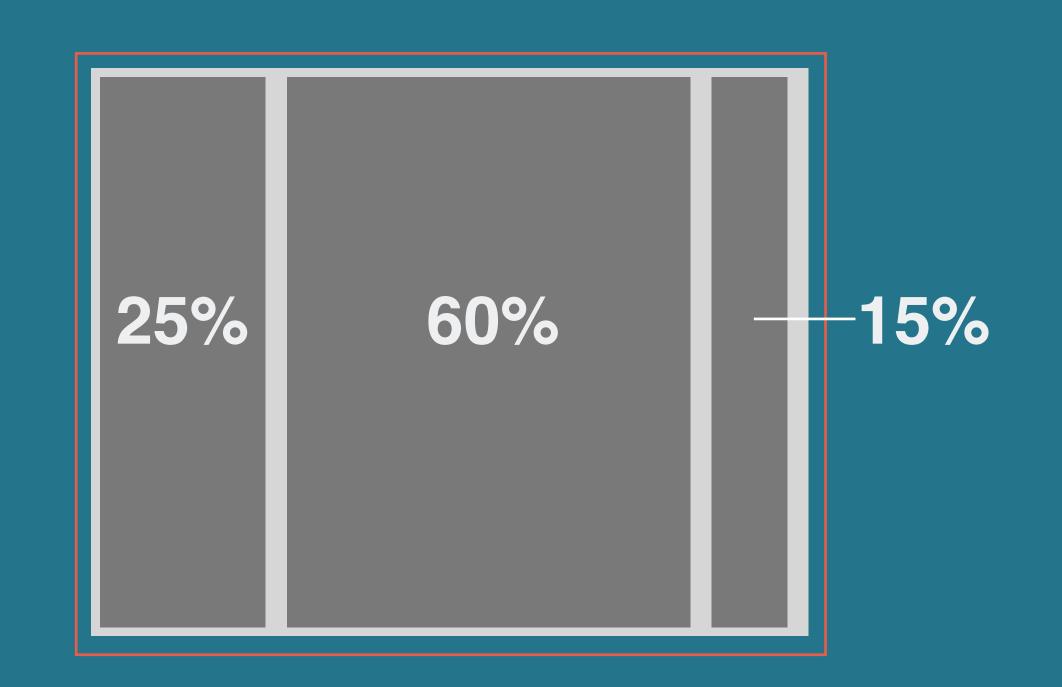
Praesent nisi dolor, ornare quis sodales id, lacinia ut mauris.

```
img {
  float: left;
  width: 50px;
}
```



#### Floats

By using this property, we can create complex float-based column layouts, each column at various sizes.





#### Floats



Problem: Floated columns don't know when to end ("clear") and have no defined height so we must use a clearfix.



#### Pros of Float Layouts

Tried and true - used on most websites today

Works in old browsers



#### Cons of Float Layouts

Requires hacks for simple layout functionality (clearfix, equal height columns, etc.)

Much more code to accomplish than flexbox.



#### So What's Flexbox?



Allows you to change the size of boxes within a container to create advanced row or column layouts.



#### Pros of Flexbox

Allows for advanced flexible layouts
Can change direction/order
Vertical and horizontal centering built in
Allows for equal height columns
Doesn't need "clearfix"



#### Cons of Flexbox

Incompatible with old browsers (requires fallback using floats - IE11 and up)

Newer standard, so sites developed years ago may not use it.

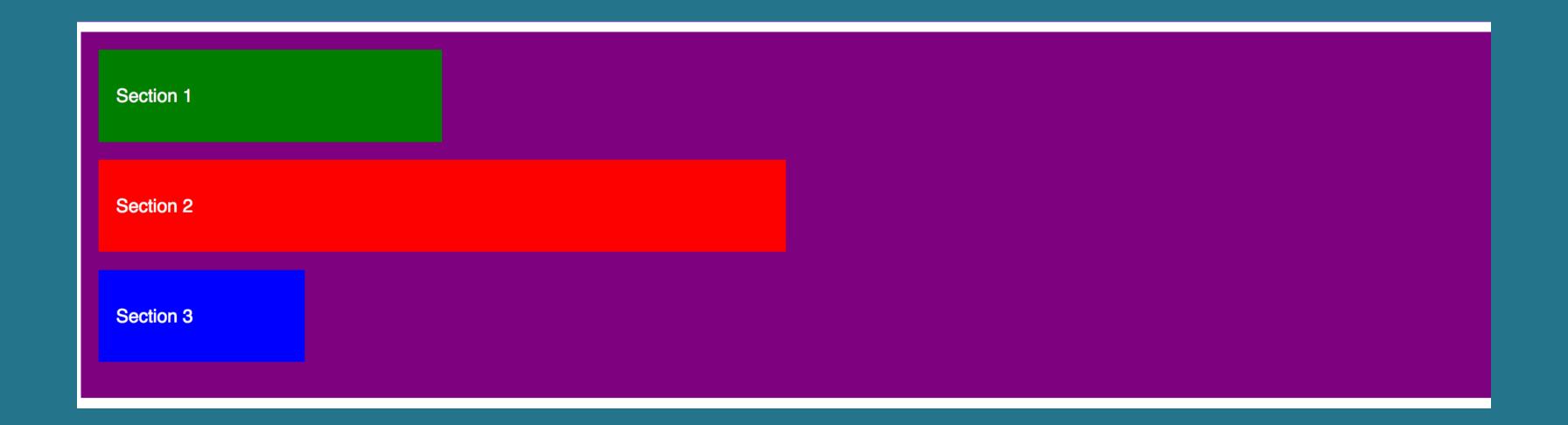


### How Does Flexbox Work?



Start by telling a "container" box element to display: flex. This will make all of its children display as flexible items.







```
Section 1 Section 2 Section 3

This is some paragraph text
```

```
main {
    display: flex;
}
```



### http://codepen.io/challahan/professor/YGgNxR/



# When Can I Use Flexbox? TODAY!



Can I use

#### flexbox

? 🌣 Settings

1 result found

Flexible Box Layout Module CR	
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Method of positioning elements in horizontal or vertical stacks. Support includes the support for the all properties prefixed with flex as well as display: flex, display: inline-flex, align-content, align-items, align-self, justify-content and order.

U.S.A.	85.34% + 11.92% =	97.26%
unprefixed:	83.82% + 9.31% =	93.14%
Global	82.33% + 14.72% =	97.05%
unprefixed:	81 1606 + 1 1106 -	Q5 Q10/

Curi	rent aligned IE	Jsage relative Date re		Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Chrome for Android
				49						7 11 10 10 10
				51			8.4			
			47	52			9.2			
	8	13	48	53	9.1		9.3			
4	11	14	49	54	10	40	10	all	53	53
		50	55	TP	41					
			51	56		42				
			52	57						



https://css-tricks.com/snippets/css/a-guide-to-flexbox/



#### Single Dimension

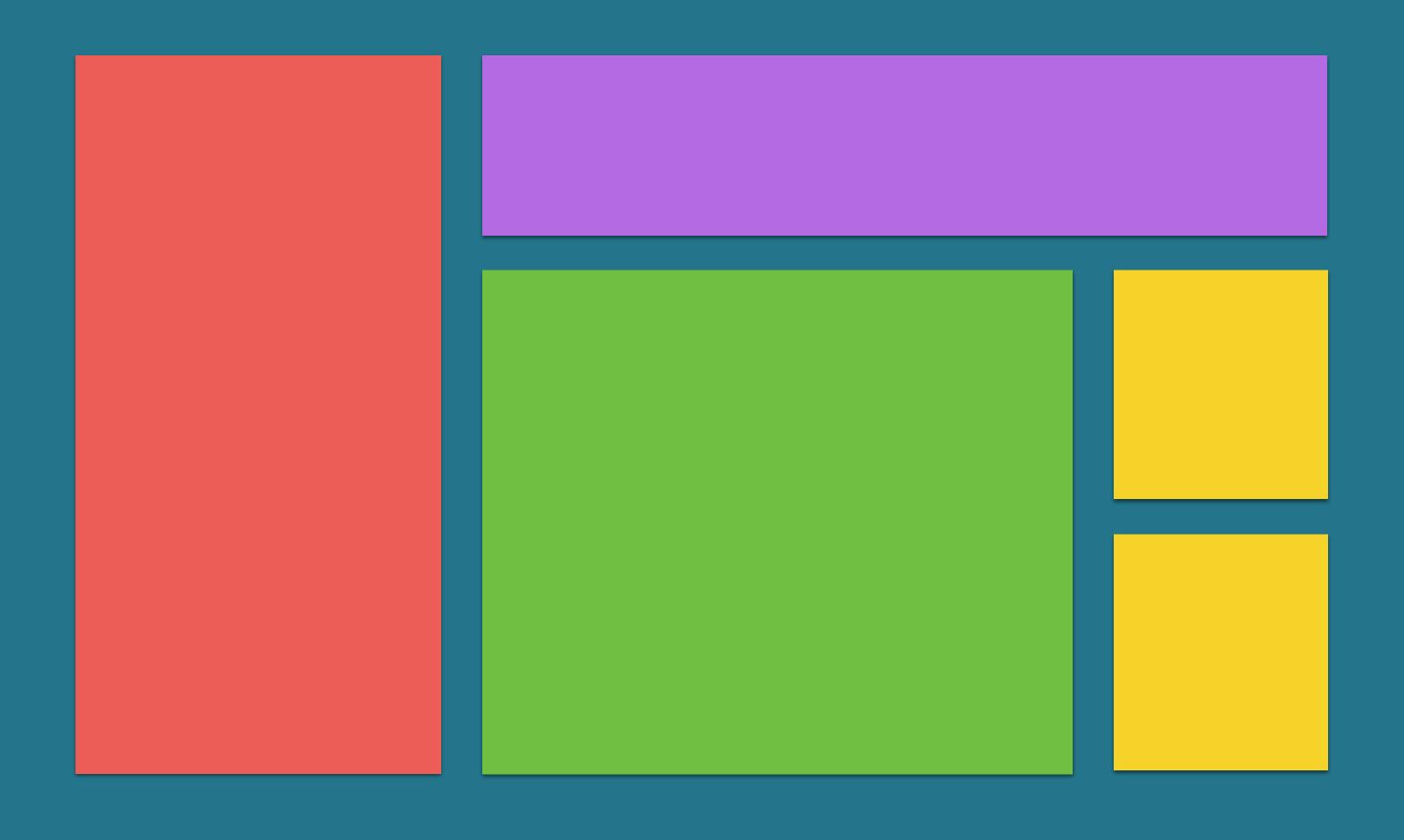




#### CSS Grid



#### Multi-Dimension





### Better support for 2 dimensional grids

Deals with things like gutters and uneven rows better.



## Boxes & Layout Assignment



#### For Next Week

DUE: Boxes and Layout

MINI EXAM: In class, 30 min.

READ: Bringing Design and Research Closer Together article

READ: CSS Grid Article

