



RWD

Class 7

@rwdkent

Overview

TBD

TBD



Fonts + Media Queries 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 not yet fully implemented but will allow for even more flexibility.



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.

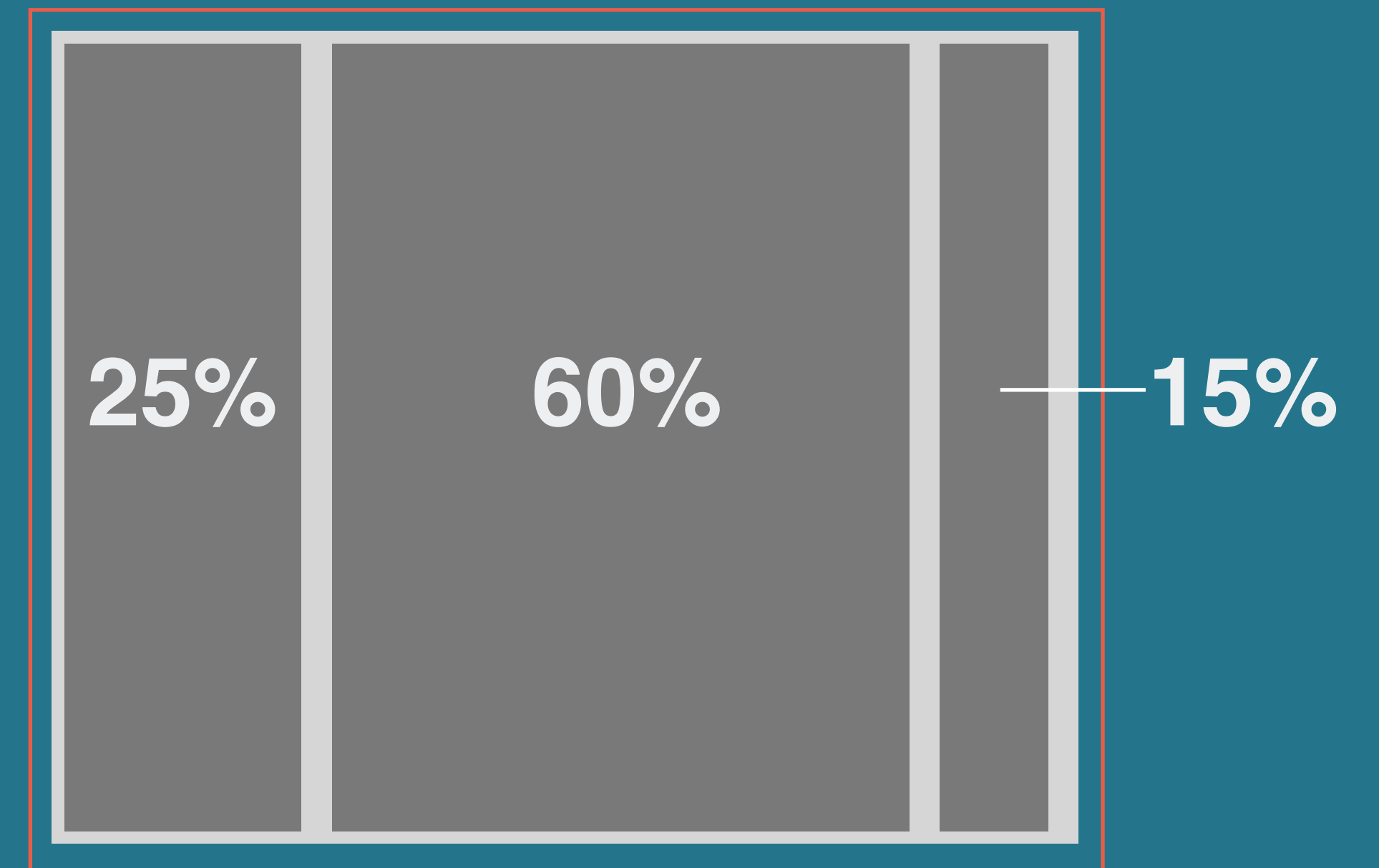
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Praesent nisi dolor, ornare quis sodales id, lacinia ut mauris.

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

Floats

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



Floats

```
.section1 {  
  float: left;  
  width: 25%;  
}
```

```
.section2 {  
  float: left;  
  width: 50%;  
}
```

```
.section3 {  
  float: left;  
  width: 15%;  
}
```



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



[http://codepen.io/challahan/
professor/amrpWE/](http://codepen.io/challahan/pen/amrpWE/)



Pros of Float Layouts

Tried and true - used on most websites today

Works in older 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 flex the size of boxes within a container to create advanced layouts.



Pros of Flexbox

Allows for advanced flexible layouts

Direction agnostic

Vertical and horizontal centering built in

Allows for equal height columns

Doesn't need clearfix



Cons of Flexbox

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

Newer technology, 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.



[http://codepen.io/challahan/
professor/YGgNxR/](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

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:	81.46%	+	4.44%	=	85.91%

Current aligned Usage relative Date relative Show all

IE	Edge [*]	Firefox	Chrome	Safari	Opera	iOS Safari [*]	Opera Mini [*]	Android Browser [*]	Chrome for Android
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			51			8.4 			
		47	52			9.2			
8	13	48	53	9.1		9.3			
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		50	55	TP	41				
		51	56		42				
		52	57						



Flexbox Part 2



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





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



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



Becoming Responsive

Responsive Process (Chapter 5, Responsive Web Design Book)



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



Continue Hands-On with Media Queries/Flexbox



For Next Week

DUE: Boxes and Layout

MINI EXAM: In class, 30 min.

READ: Bringing Design and Research Closer
Together article

