RWD

Class 7

@rwdkent

Overview

Fonts & Media Queries

Mini Exam Study Guide

Layout and Flexible Grids

Becoming Responsive

Hands-On Activity Continued

Boxes & Layout Assignment

Fonts + Media Queries Review

Mini Exam Review

Mini Exam Review

HTML Layout, Flexible Grids and Media Queries

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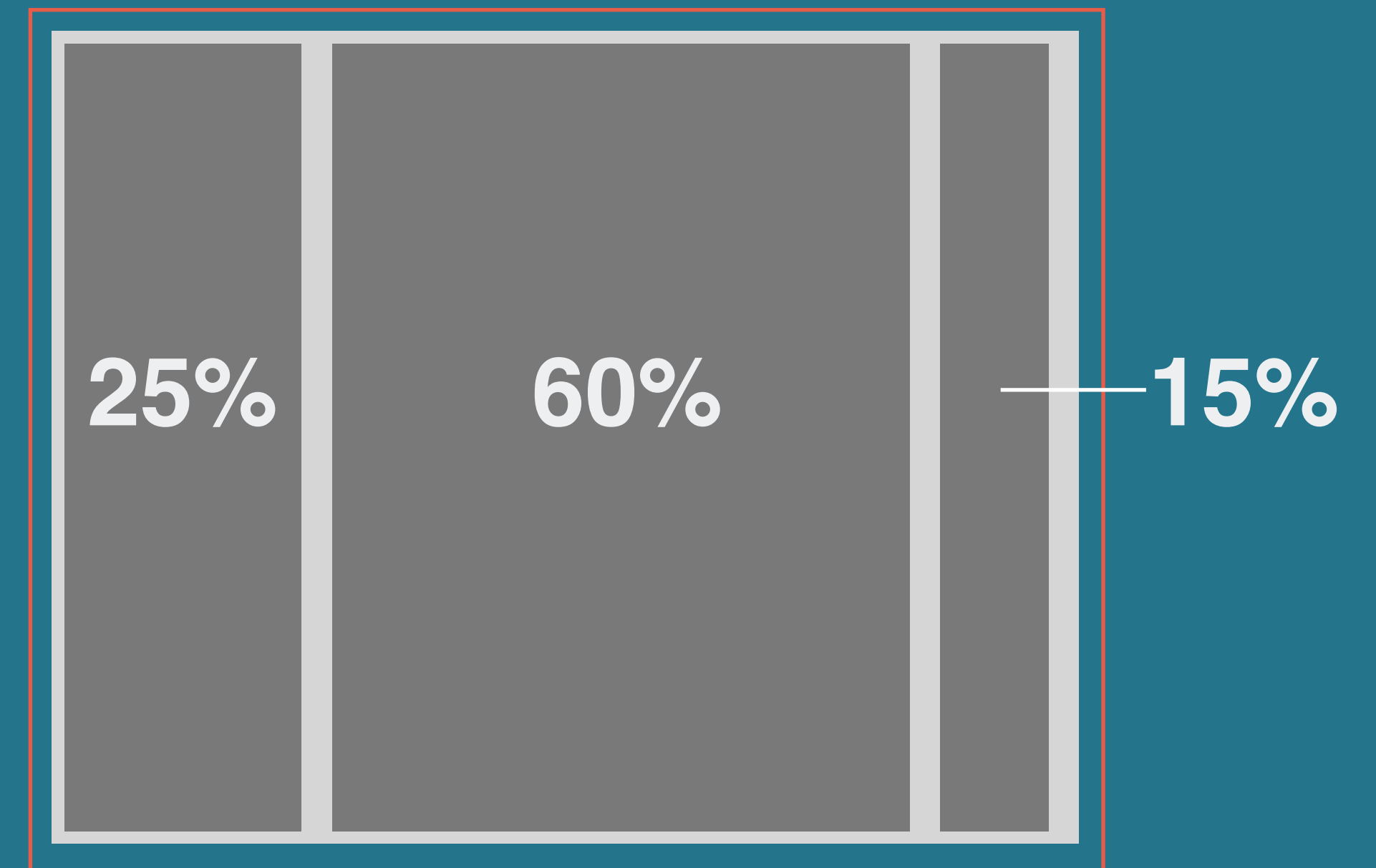
Morbi justo velit, rutrum vel placerat in, adipiscing vitae sapien. Vivamus sit amet lacus enim, vel scelerisque justo. Nunc dignissim vehicula urna ac porta. Suspendisse potenti.

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

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

Floats

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

25% **60%** 15%

Floats

```
.section1 {        .section2 {        .section3 {
 float: left;       float: left;       float: left;
 width: 25%;        width: 50%;        width: 15%;
}                  }                  }
```

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 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.

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!

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
			49						
			51			8.4			
		47	52			9.2			
8	13	48	53	9.1		9.3			
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/

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