



RWD

Class 11

Overview

Layout/Media Query Assignment Review
(20 min)

The Verge Rebrand (15 min)

SVG, JavaScript, Performance
(30 min)

Break (5 min)

HTML/CSS Wireframes (45 min)

Boxes and Layout (45 min)



Fonts & Media Queries Review



Responsive Images & SVG



SVG =

Scaleable Vector Graphic



```
ai13625054892.txt
<?xml version="1.0" encoding="utf-8"?>
<!-- Generator: Adobe Illustrator 16.0.4, SVG Export Plug-In . SVG Version: 6.00 Build 0)
-->
<!DOCTYPE svg PUBLIC "-//W3C//DTD SVG 1.1//EN" "http://www.w3.org/Graphics/SVG/1.1/DTD/
svg11.dtd">
<svg version="1.1" id="Layer_1" xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://
www.w3.org/1999/xlink" x="0px" y="0px"
width="612px" height="502.174px" viewBox="0 65.326 612 502.174" enable-
background="new 0 65.326 612 502.174"
xml:space="preserve">
<ellipse fill="#C6C6C6" cx="283.5" cy="487.5" rx="259" ry="80"/>
<path id="bird"
d="M210.333,65.331C104.367,66.105-12.349,150.637,1.056,276.449c4.303,40.393,18.533,63.704,
52.171,79.03

c36.307,16.544,57.022,54.556,50.406,112.954c-9.935,4.88-17.405,11.031-19.132,20.015c7.531-
0.17,14.943-0.312,22.59,4.341

c20.333,12.375,31.296,27.363,42.979,51.72c1.714,3.572,8.192,2.849,8.312-3.078c0.17-8.467-1
.856-17.454-5.226-26.933

c-2.955-8.313,3.059-7.985,6.917-6.106c6.399,3.115,16.334,9.43,30.39,13.098c5.392,1.407,5.9
95-3.877,5.224-6.991

c-1.864-7.522-11.009-10.862-24.519-19.229c-4.82-2.984-0.927-9.736,5.168-8.351l20.234,2.415
c3.359,0.763,4.555-6.114,0.882-7.875

c-14.198-6.804-28.897-10.098-53.864-7.799c-11.617-29.265-29.811-61.617-15.674-81.681c12.63
9-17.938,31.216-20.74,39.147,43.489
```



SVG Demo

<http://codepen.io/challahan/pen/OywabP?editors=110>



‘Mo Images, ‘Mo Problems

What’s the problem with images?





Responsive Images Community Group

<https://responsiveimages.org>



<Picture> Element

Multiple images at different crop sizes
(aka “Art Direction”)

<https://responsiveimages.org/demos/basic-implementation/index.html>



Srcset

Same image at different resolutions

<http://codepen.io/martinwolf/pen/hFxyj/>



Performance & Progressive Enhancement

Fast Enough, Loading RWD Fast as Heck, Progressive Enhancement

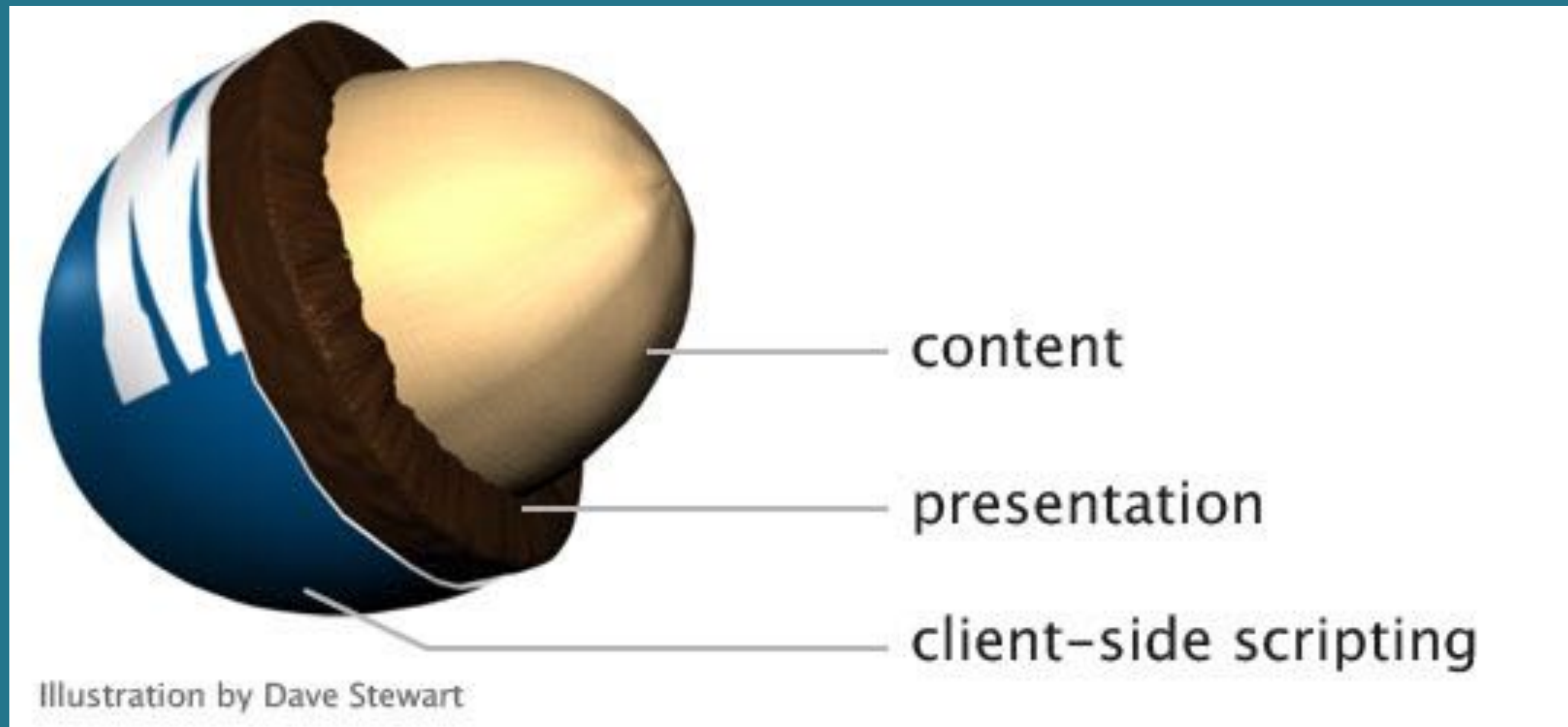


How can we organize our
CSS for both better mobile
performance and
maintainability?



What is Progressive Enhancement and why is it important?





A Progressively Enhanced website should still provide the core content with CSS and JavaScript disabled.



JavaScript



JavaScript is a programming language for adding interactivity and state changes to your web site.



Dynamically loading new content or content from other sources (AJAX, web fonts)

Animation/Movement of page elements

Change an element in some way based on some condition

Validating input values of forms

Transmitting information about browsing activity (analytics, ad tracking, personalization)



JavaScript can be disabled in browsers. Usually unavailable to screen readers.



JavaScript can significantly increase
page load time and CPU usage
when not used efficiently.



Inline JavaScript

```
<script>  
JavaScript Goes Here  
</script>
```



External JavaScript

Place in your HTML

```
<script src="scripts.js">  
</script>
```



Simple JavaScript Example

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



jQuery is an open source library of JavaScript files that makes implementing JavaScript easier. jQuery is not part of browser by default - must be loaded.



Many third-party JavaScript plugins
(galleries, etc) require jQuery in
order to work.




Performance



How Can We Make Sure Pages Load Quickly?



 A BOOK APART

13

Scott Jehl

RESPONSIBLE RESPONSIVE DESIGN



Common RWD Patterns Examples

<http://www.rwdkent.com/common-patterns>



For Next Week

Chris Coyier, CSS-Tricks, ShopTalkShow, CodePen (Tentative) -
Questions?

HTML Wireframes - 3 Templates

Reading: Usability, Accessibility, Device/Performance Testing

