



# RWD

## Class 12

# Overview

**Wireframes Work + Review (1 hour)**

**Responsive Images, Performance and  
JavaScript (30 min)**

**Common Patterns (10 min)**

**Break (5 min)**

**Global Patterns Part 1 (1 hour)**



# CSS Grids + Background Video



# Wireframes Work + 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

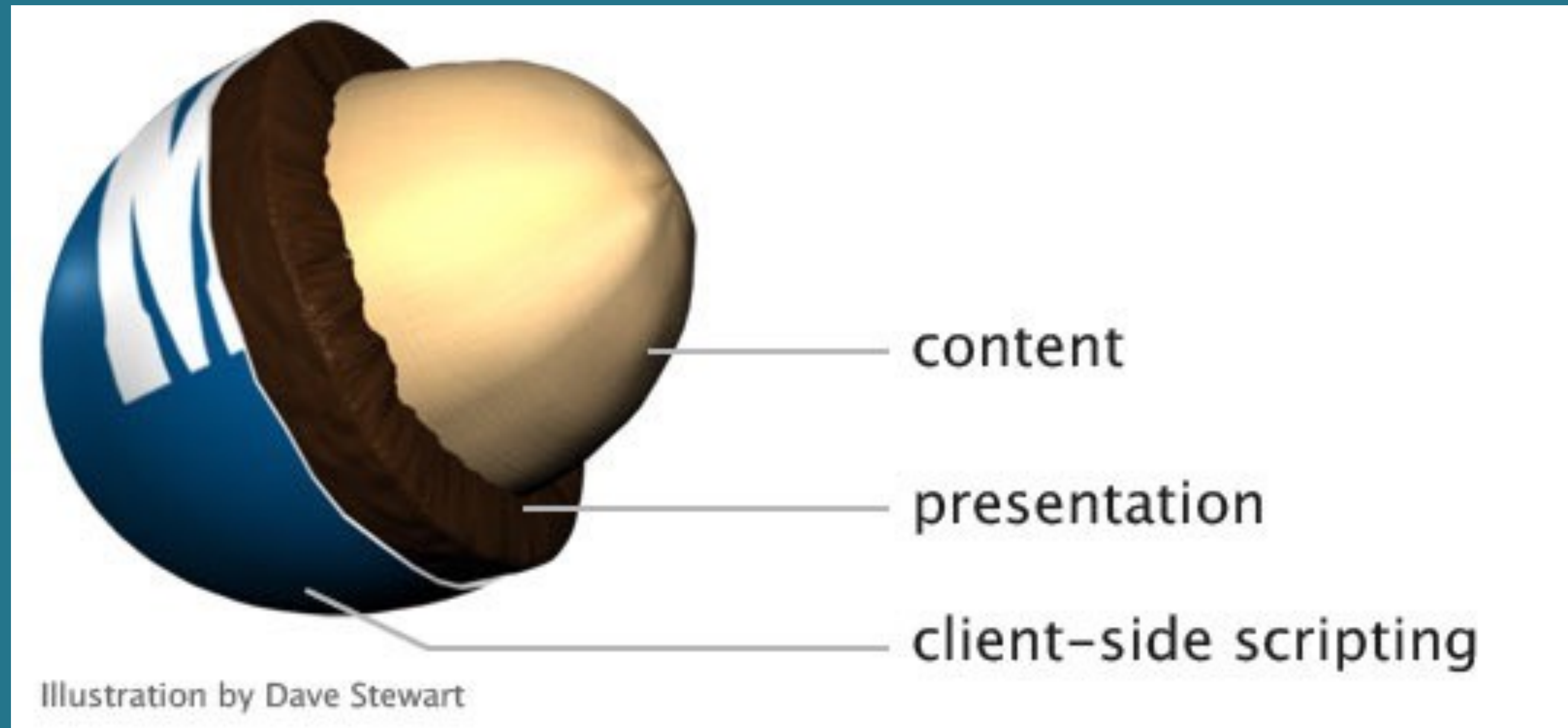


How can we organize our  
CSS for both better mobile  
performance and  
maintainability?



# 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

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Scott Jehl

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# RESPONSIBLE RESPONSIVE DESIGN

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# Common RWD Patterns Examples

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



# Global Patterns (Part of HTML Templates Assignment)

<https://rwdkent.com/class/assignments/templates/>





# For Next Time

**DUE:** Patterns Part 1: Global Patterns in HTML/CSS

**PAST ASSIGNMENTS:** Check and ensure you have submitted the Style and CSS Grid Assignments (last chance to submit)

**READ:** Usability Testing & Accessibility

