



# RWD

## Class 13

# Overview

Prototyping Tips (15 min)

Usability/Accessibility/Technical  
testing (30 min)

Break (5 min)

Usability Study Prep (15 min)

Patterns Part 1 Review + Patterns Part  
2 Work (1 hour)



# Prototyping Tips



# Don't Repeat Yourself (DRY)



# Mobile First CSS



# Put padding/margin on containers (not individual elements)



# Merge Conflicts



# Usability



# What Is Usability Testing?



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# Design To Test

## Goals + Tasks

### Facilitator

### Notetaker

### Participant

### (Observer)



# How Do We Design Effective Tasks?



# Scenario: Mini story

## Direct Task: Find this thing



# Avoid:

Using cues that lead users  
to the answers

# Ambiguity



**Website:** [www.ohio.gov](http://www.ohio.gov)

## Goals:

Provide access to Ohio tax filing and refunds.

Allow residents to easily look up Ohio agency contact information.

Allow residents to search for jobs in Ohio

Provide a list of things to do in Ohio for visitors

Allow Ohio new businesses to easily get started.

Provide access to vehicle registration services.

Provide access to vehicle registration services.

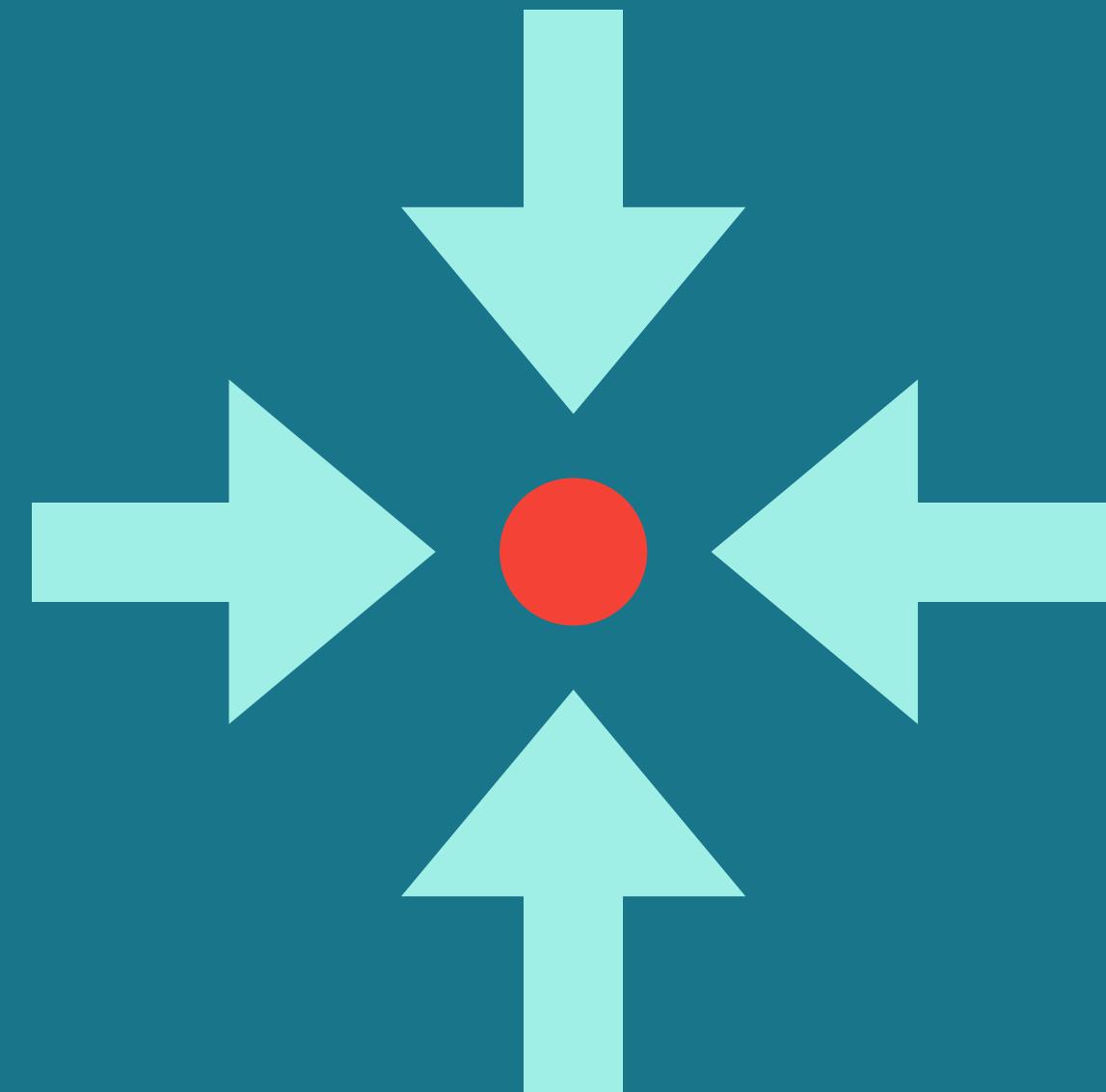
Guide voters to registration services and polling locations.



## Tasks:

1. You've recently filed your Ohio state taxes and want to check on the status of your refund. How would you do this on [ohio.gov](#)?
2. You've just gotten a letter in the mail telling you that you need to renew your motorcycle's license plates. Start the renewal process.
3. You're voting with an absentee ballot in the upcoming election and need to know the latest date it can be returned by mail in order to be counted.





# Analyzing Results



# What's Actionable?

# High Priority?



Steve Krug



# DON'T MAKE ME THINK

*Revisited*

and Mobile  
A Common Sense Approach to Web Usability



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# Accessibility



# What's Accessibility?



Hearing (Auditory)

Seeing (Visual)

Motor

Cognitive

Temporary



# How Can We Make Websites With Accessibility in Mind?



# Alt Text

alt="<content>"

Use for any image that is used as content. Describes function of an image.



# ARIA (Assistive Rich Internet Applications)

role="<ROLE TYPE>"



banner

search

form

main

navigation

contentinfo



<http://a11yproject.com>



# Example:

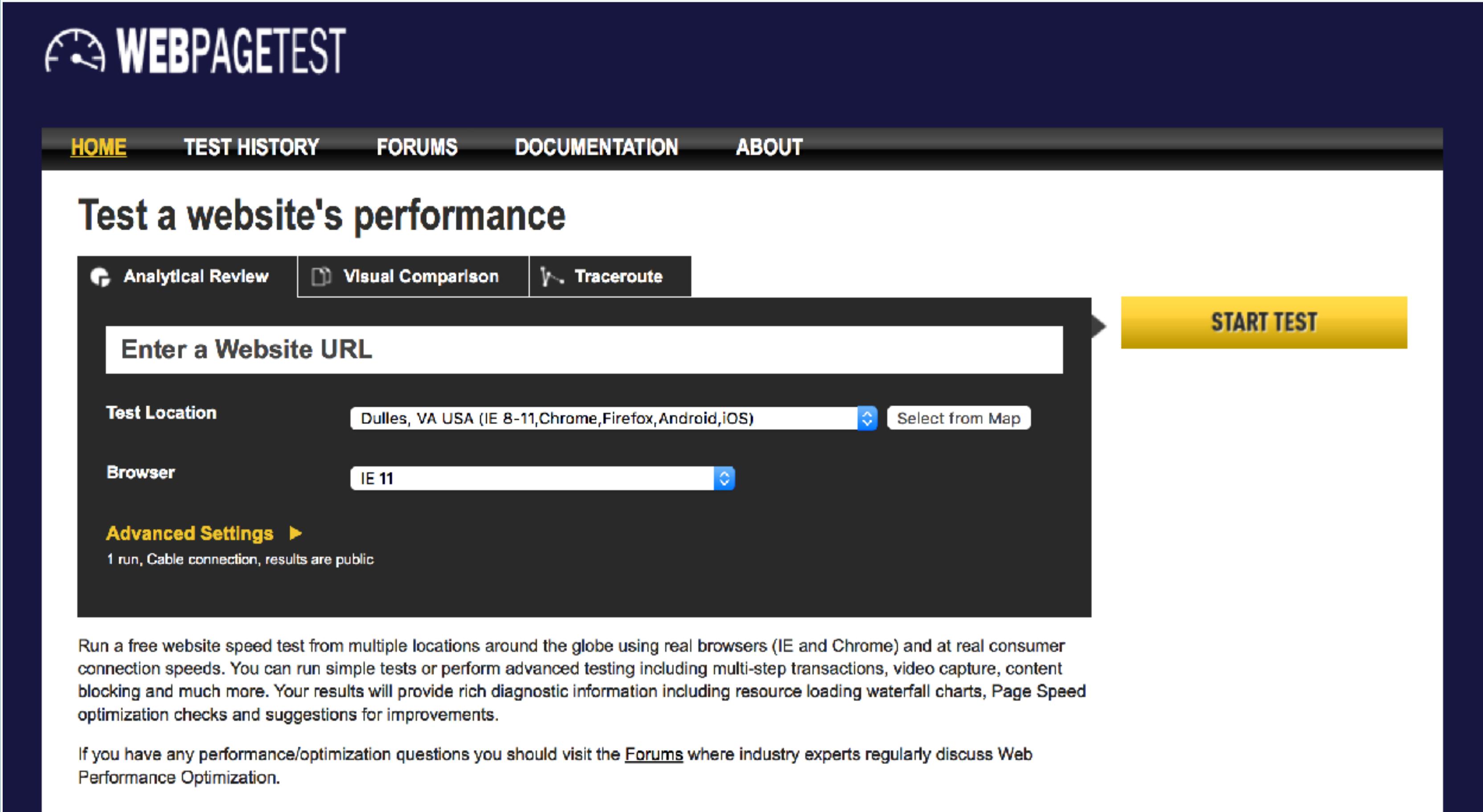
<http://rwdkent.com>

Press Command + F5 on Mac



# Technical & Performance Testing





The screenshot shows the homepage of webpagetest.org. At the top, there's a dark header with the "WEBPAGETEST" logo and a clock icon. Below the header is a navigation bar with links for HOME, TEST HISTORY, FORUMS, DOCUMENTATION, and ABOUT. The main content area has a dark background with white text. It features a large yellow "START TEST" button on the right. In the center, there's a form for testing a website. It includes a text input field for "Enter a Website URL", a dropdown for "Test Location" set to "Dulles, VA USA (IE 8-11,Chrome,Firefox,Android,iOS)", a dropdown for "Browser" set to "IE 11", and a link for "Advanced Settings". Below the form, there's a descriptive paragraph about the service and a note about forums.

**Test a website's performance**

Analytical Review   Visual Comparison   Traceroute

Enter a Website URL

Test Location: Dulles, VA USA (IE 8-11,Chrome,Firefox,Android,iOS)   Select from Map

Browser: IE 11

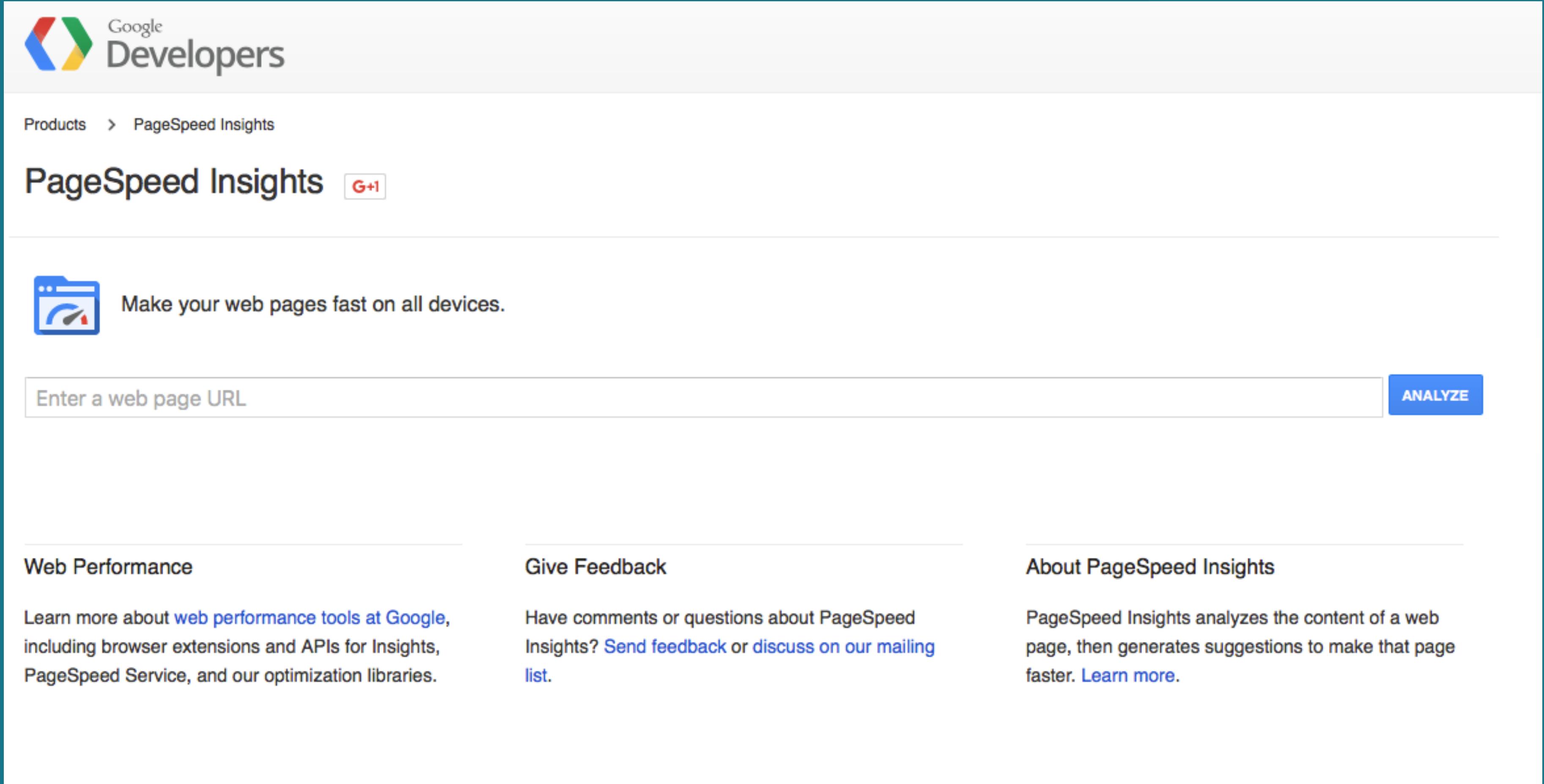
**Advanced Settings ▶**  
1 run, Cable connection, results are public

Run a free website speed test from multiple locations around the globe using real browsers (IE and Chrome) and at real consumer connection speeds. You can run simple tests or perform advanced testing including multi-step transactions, video capture, content blocking and much more. Your results will provide rich diagnostic information including resource loading waterfall charts, Page Speed optimization checks and suggestions for improvements.

If you have any performance/optimization questions you should visit the [Forums](#) where industry experts regularly discuss Web Performance Optimization.



# Google PageSpeed



The screenshot shows the Google PageSpeed Insights homepage. At the top left is the Google Developers logo. Below it, a breadcrumb navigation shows "Products > PageSpeed Insights". The main title is "PageSpeed Insights" with a "G+1" button next to it. A sub-header says "Make your web pages fast on all devices." followed by a file icon. Below this is a search bar labeled "Enter a web page URL" and a blue "ANALYZE" button. The page is divided into three columns: "Web Performance" (with a link to learn more about web performance tools), "Give Feedback" (with a link to send feedback or discuss on a mailing list), and "About PageSpeed Insights" (with a link to learn more about the service). The background is white with a light gray header bar.

Google Developers

Products > PageSpeed Insights

## PageSpeed Insights G+1

Make your web pages fast on all devices.

Enter a web page URL ANALYZE

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**Web Performance**

Learn more about [web performance tools at Google](#), including browser extensions and APIs for Insights, PageSpeed Service, and our optimization libraries.

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**Give Feedback**

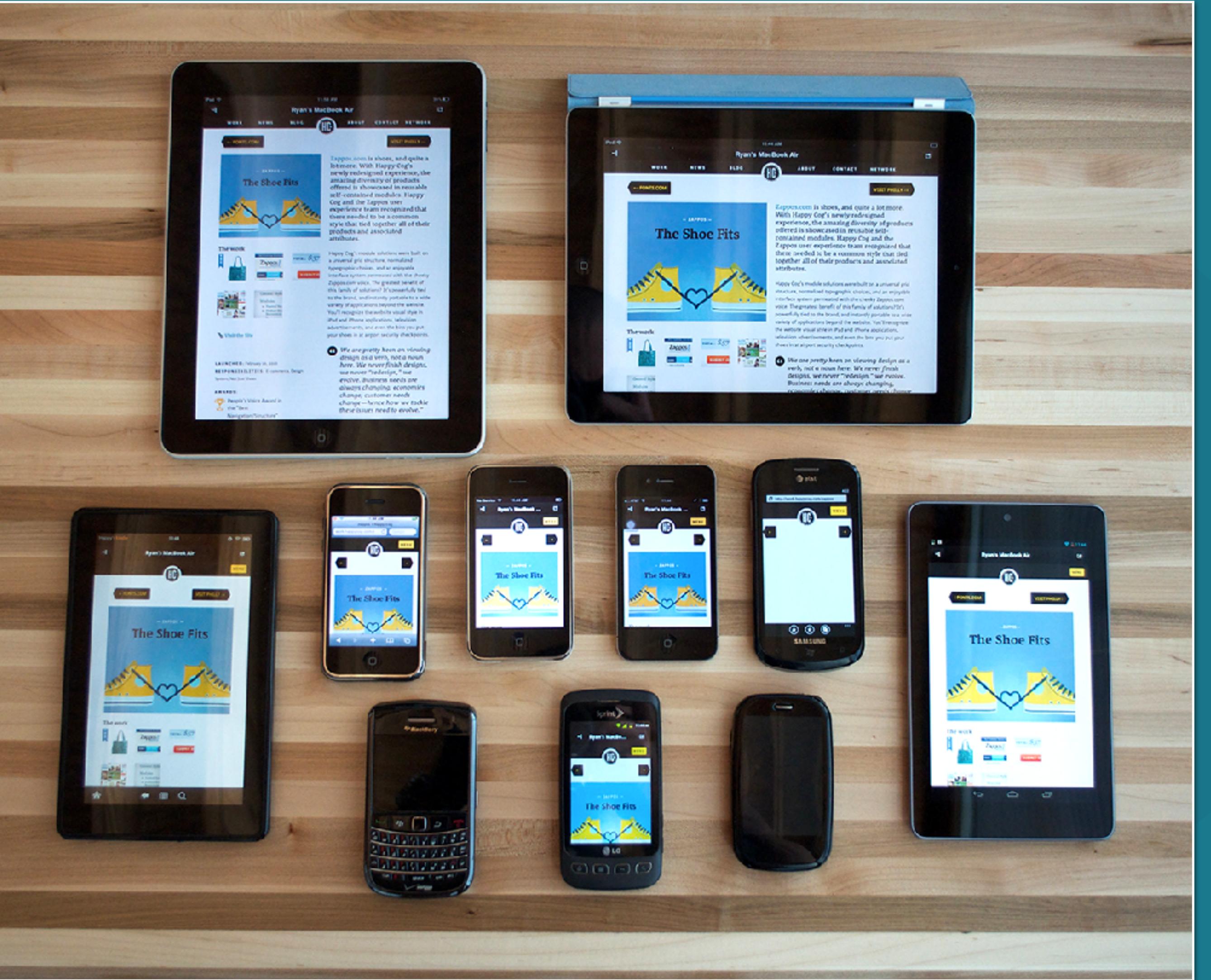
Have comments or questions about PageSpeed Insights? [Send feedback or discuss on our mailing list](#).

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**About PageSpeed Insights**

PageSpeed Insights analyzes the content of a web page, then generates suggestions to make that page faster. [Learn more](#).





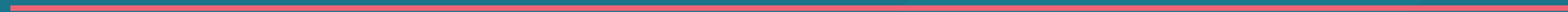
<http://cognition.happycog.com/m/content/devicelab.png>

# opendevicelab.com



<http://cognition.happycog.com/m/content/devicelab.png>

# Browser Testing



# Usability Study Preparation



# Performance & Usability Testing Assignment

[www.rwdkent.com/class/assignments/testing](http://www.rwdkent.com/class/assignments/testing)



# Patterns Part 2

[www.rwdkent.com/class/assignments/templates](http://www.rwdkent.com/class/assignments/templates)



# Patterns 2 Hands-On



# Due Dates

**Patterns Part 2 (Review in Class): Next Week**

**Usability Testing Plan + In Class Testing (Turn In In Class): May 2**

**HTML/CSS Prototypes/Templates: May 9**

**Review Session/Pattern Library/Critiques In Class: May 9**

**Self/Group Evaluation: May 9**



# For Next Week

**Patterns Part 2 (Review in Class)**

**Reading On Pattern Libraries/Style Guides**

