



RWD

Class 12

Overview

HTML/CSS Wireframes + Boxes & Layout (45 min)

Usability, Accessibility, Technical Testing (30 min)

Break (5 min)

HTML/CSS Prototype and Usability Assignments Hands-On (60 min)



Wireframes Demos



Usability



What Is Usability Testing?



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

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.

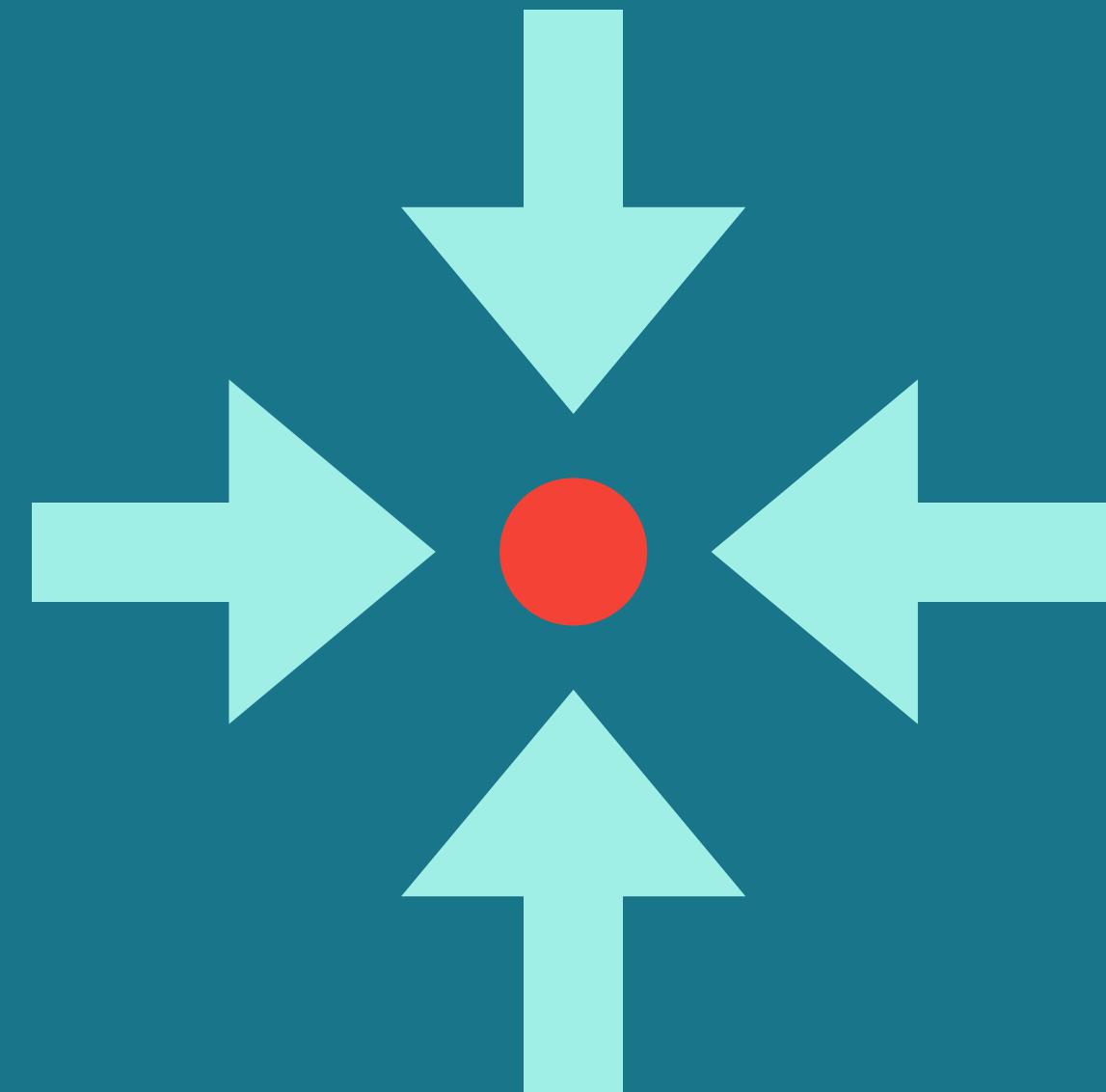
Guide voters to registration services and polling locations.



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



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:

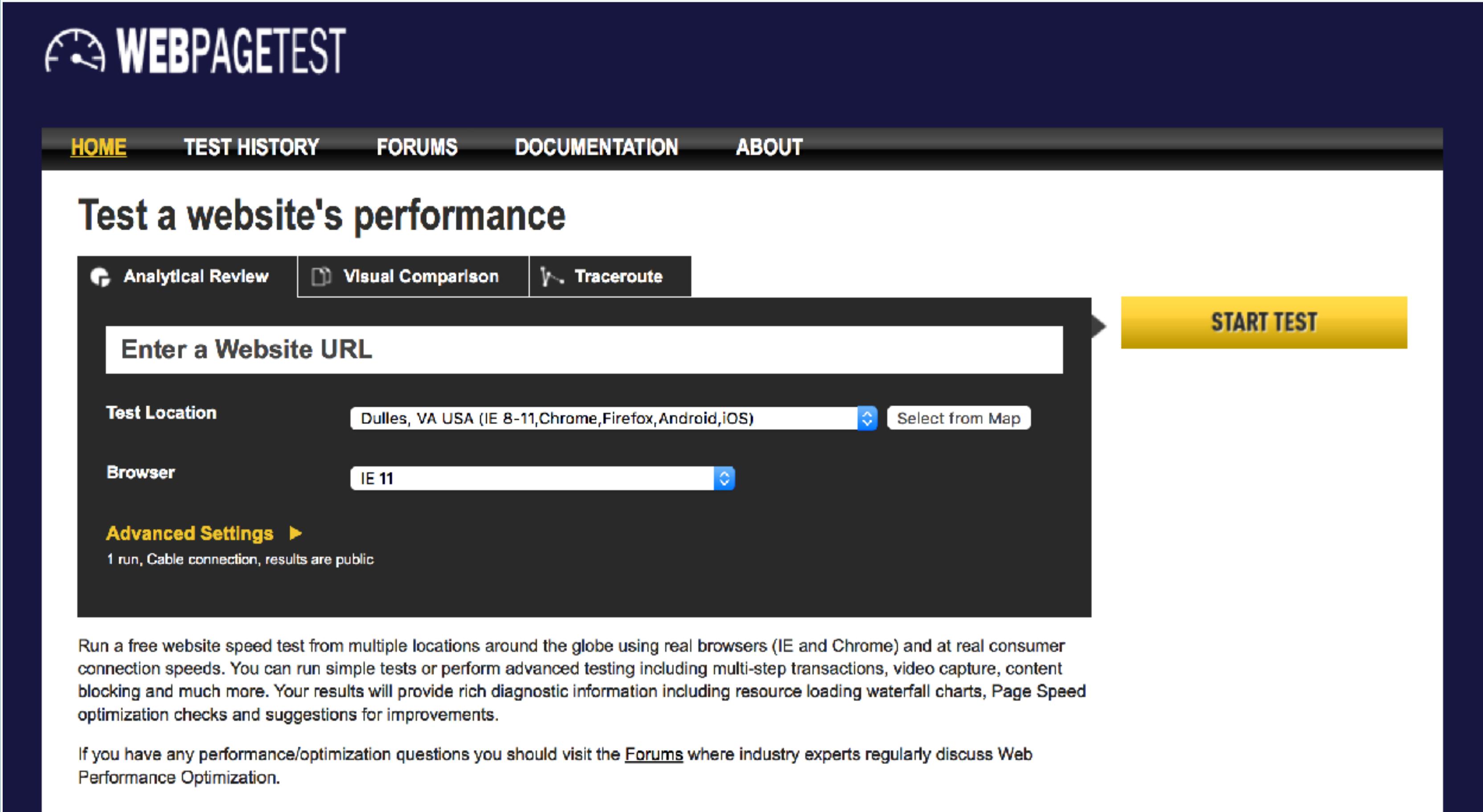
<http://rwdkent.com>

Press Command + F5 on Mac



Technical & Performance Testing





The screenshot shows the homepage of webpagetest.org. At the top, there's a dark header bar with the "WEBPAGETEST" logo on the left and navigation links for "HOME", "TEST HISTORY", "FORUMS", "DOCUMENTATION", and "ABOUT". Below the header, the main content area has a dark background. It features a large yellow "START TEST" button on the right. In the center, there's a form for testing a website. The first input field is a white text box labeled "Enter a Website URL". Above it, there are three small buttons: "Analytical Review" (with a bar chart icon), "Visual Comparison" (with a document icon), and "Traceroute" (with a map pin icon). Below the URL input is a "Test Location" dropdown set to "Dulles, VA USA (IE 8-11, Chrome, Firefox, Android, iOS)" with a "Select from Map" link next to it. Underneath that is a "Browser" dropdown set to "IE 11". At the bottom of the form, there's a "Advanced Settings" link with a yellow arrow icon, followed by the text "1 run, Cable connection, results are public". 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

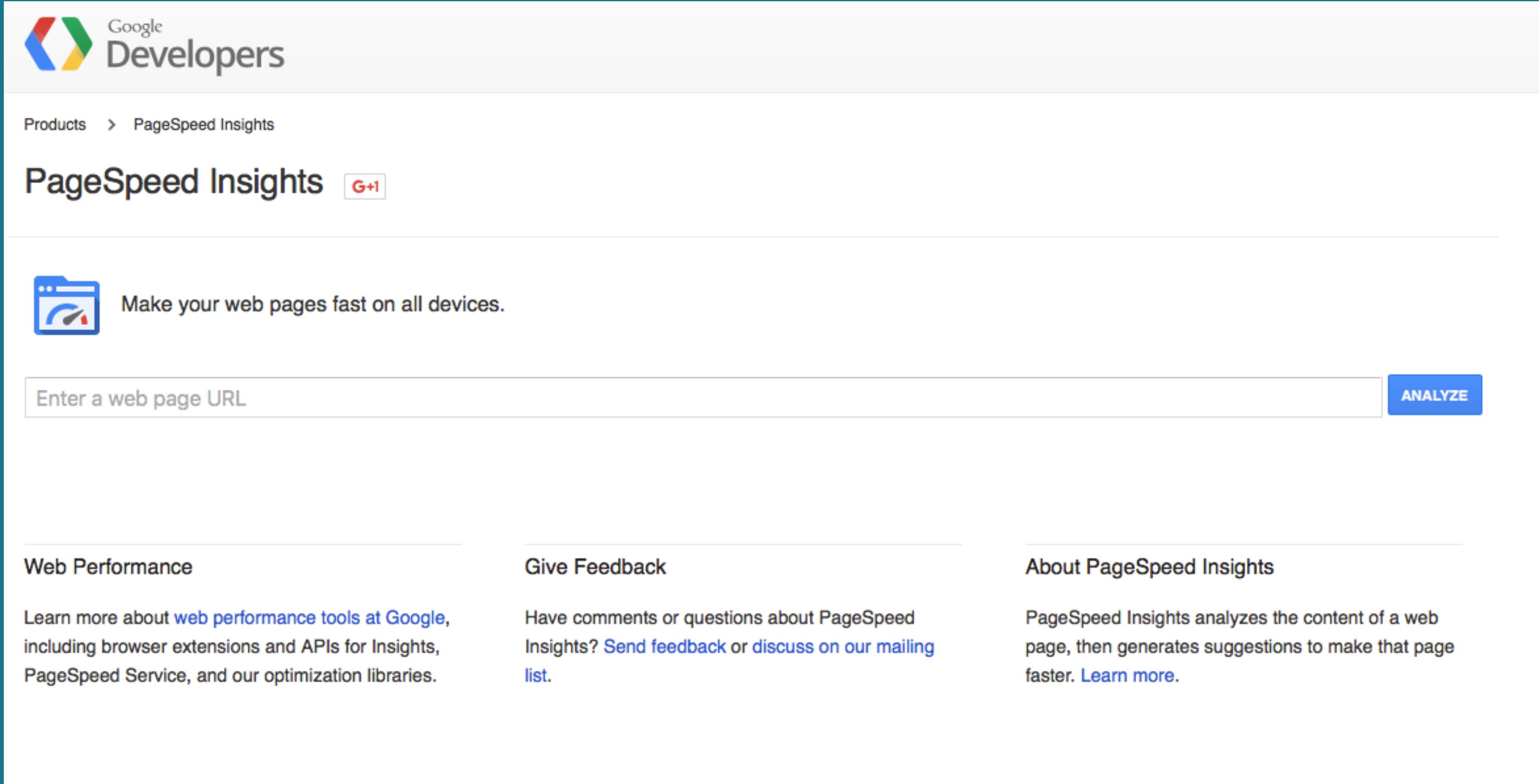
Advanced Settings ▶
1 run, Cable connection, results are public

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

Web Performance

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

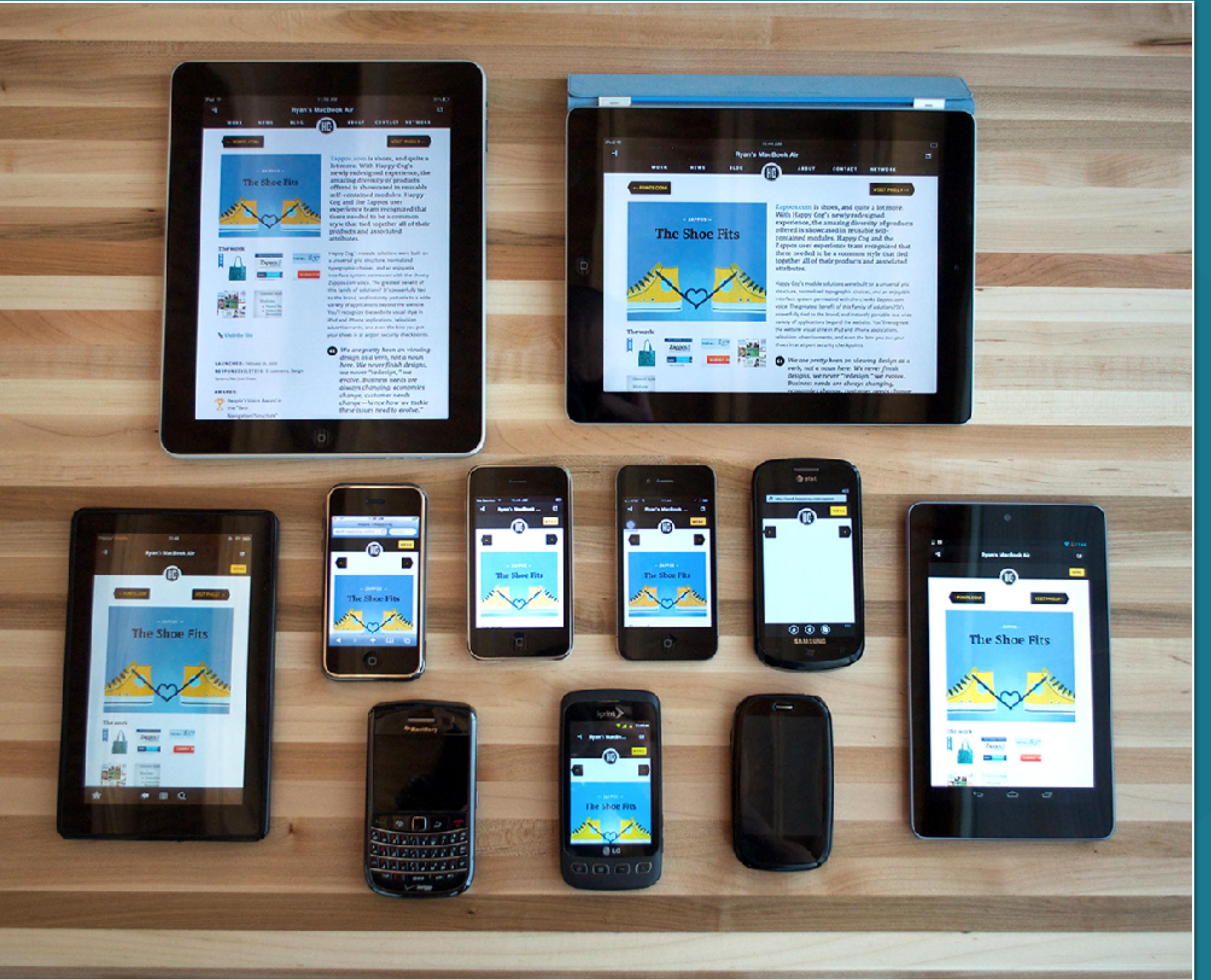
Give Feedback

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

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



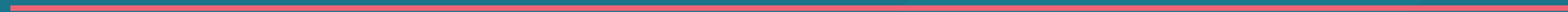
HTML/CSS Templates/ Prototypes

www.rwdkent.com/class/assignments/templates



HTML/CSS Templates

Hands-On



Linking multiple stylesheets.



Include @import
url('about.css'); at top of
CSS file



Pros

Separate styles for specific types
of content.

Prevents conflicts in Git.



Cons

Less efficient (takes longer) to load multiple stylesheets.

OK for prototyping.



For Next Time

Refine your usability/performance testing plan

Work on your HTML/CSS prototypes

Articles on Pattern Library & Style Guides

Special Guest: Brad Frost (via Skype)

