



# 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)



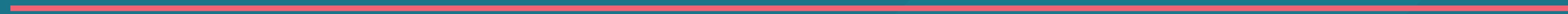
# Quiz Question



# Prototyping Tips



# Don't Repeat Yourself (DRY)



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



# Mobile First CSS



# Exercise

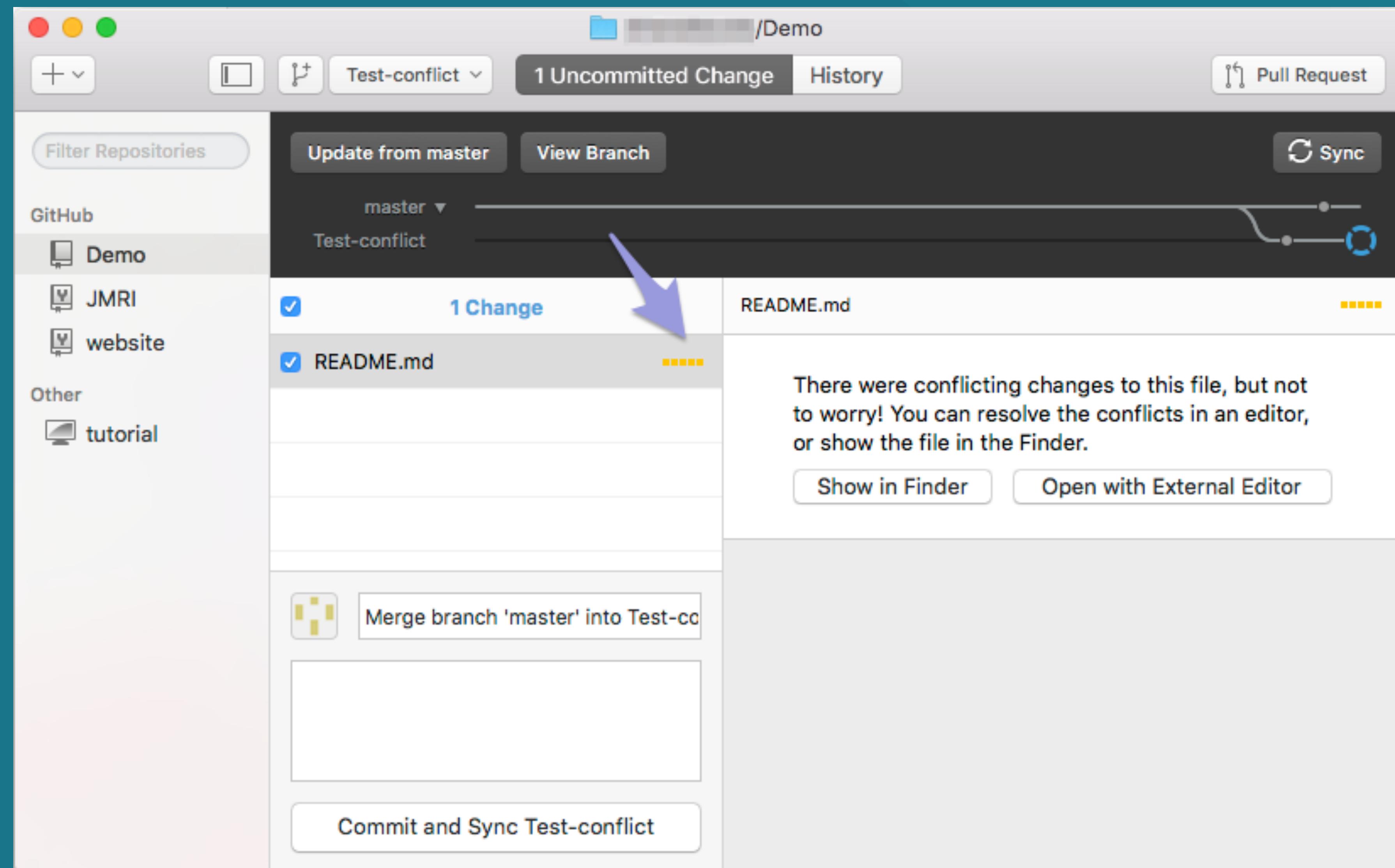
<https://codepen.io/challahan/pen/mqxxzg>

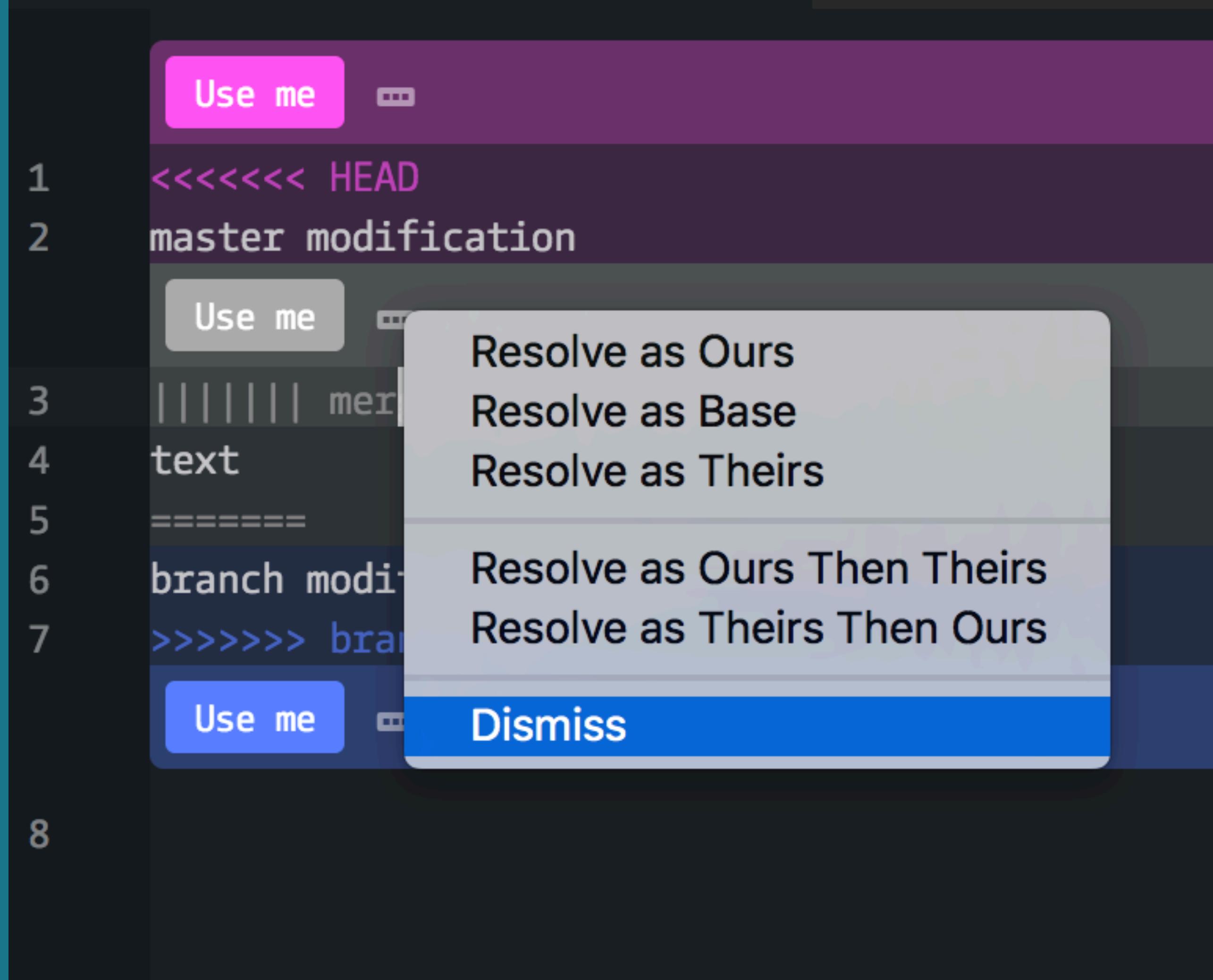


# Merge Conflicts

[https://www.git-tower.com/help/mac/  
branches-and-tags/merge-conflicts](https://www.git-tower.com/help/mac/branches-and-tags/merge-conflicts)







# Usability



# What Is Usability Testing?

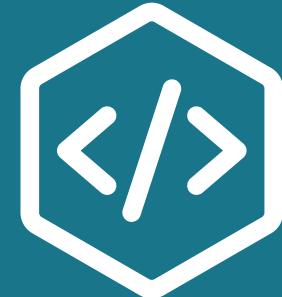


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Design To Test  
Goals + Tasks  
Facilitator  
Notetaker  
Participant  
(Observer)

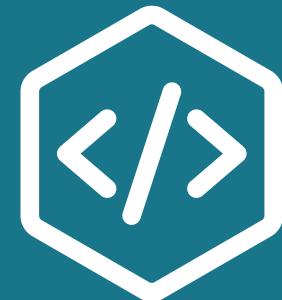


# How Do We Design Effective Tasks?



# 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.

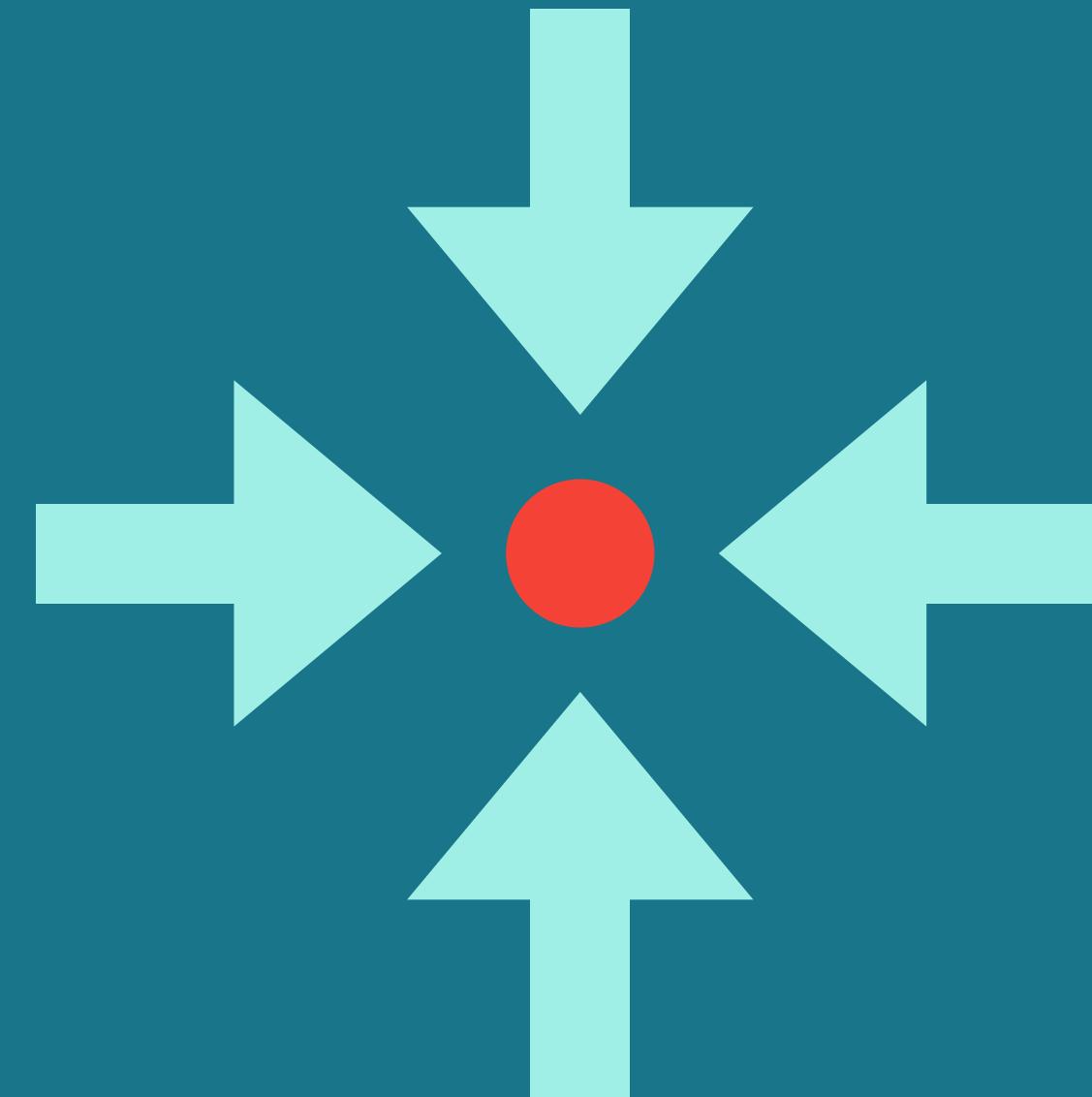
Guide voters to registration services and polling locations.



## 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

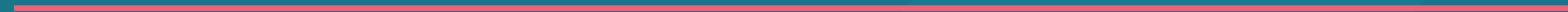


# DON'T MAKE ME THINK

*Revisited*

and Mobile

A Common Sense Approach to Web Usability



# 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.



# Captioning on Videos



# ARIA (Assistive Rich Internet Applications)

role="<ROLE TYPE>"



banner

search

form

main

navigation

contentinfo



# Skip to main content link

A hidden link that allows screen reader users to jump straight to the main content for faster access.

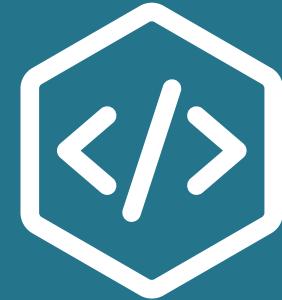
## HTML

```
<a id="skip-to-content" href="#content">skip to main content</a>
```

```
<main id="content" role="main" tabindex="-1">
```



<http://a11yproject.com>



# Example:

<http://rwdkent.com>

Press Command + F5 on Mac



# Technical & Performance Testing



# https://web.dev

# Measure

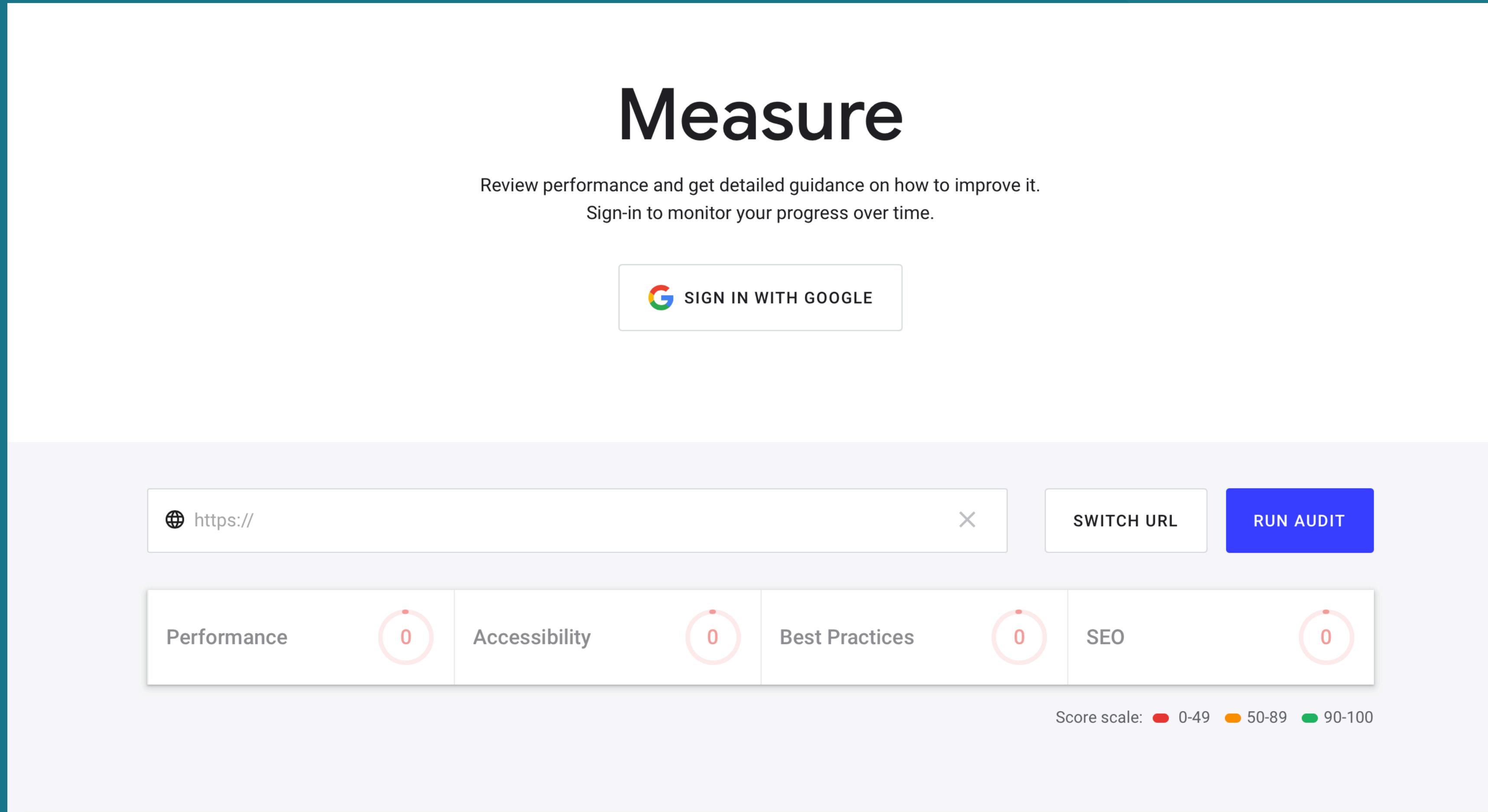
Review performance and get detailed guidance on how to improve it.  
Sign-in to monitor your progress over time.

 SIGN IN WITH GOOGLE

🌐 https:// X SWITCH URL RUN AUDIT

Performance 0 Accessibility 0 Best Practices 0 SEO 0

Score scale: 0-49 50-89 90-100



The screenshot shows the homepage of [www.webpagetest.org](http://www.webpagetest.org). The page has a dark blue header with the "WEBPAGETEST" logo. Below the header is a navigation bar with links: HOME (highlighted in yellow), TEST HISTORY, FORUMS, DOCUMENTATION, and ABOUT. The main content area is titled "Test a website's performance". It features three tabs: Analytical Review, Visual Comparison (selected), and Traceroute. Below the tabs is a large input field labeled "Enter a Website URL". To the right of the URL input is a yellow "START TEST" button. Underneath the URL input are two dropdown menus: "Test Location" set to "Dulles, VA USA (IE 8-11,Chrome,Firefox,Android,iOS)" and "Browser" set to "IE 11". At the bottom of the main content area is a descriptive paragraph about the service, followed by a link to the 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

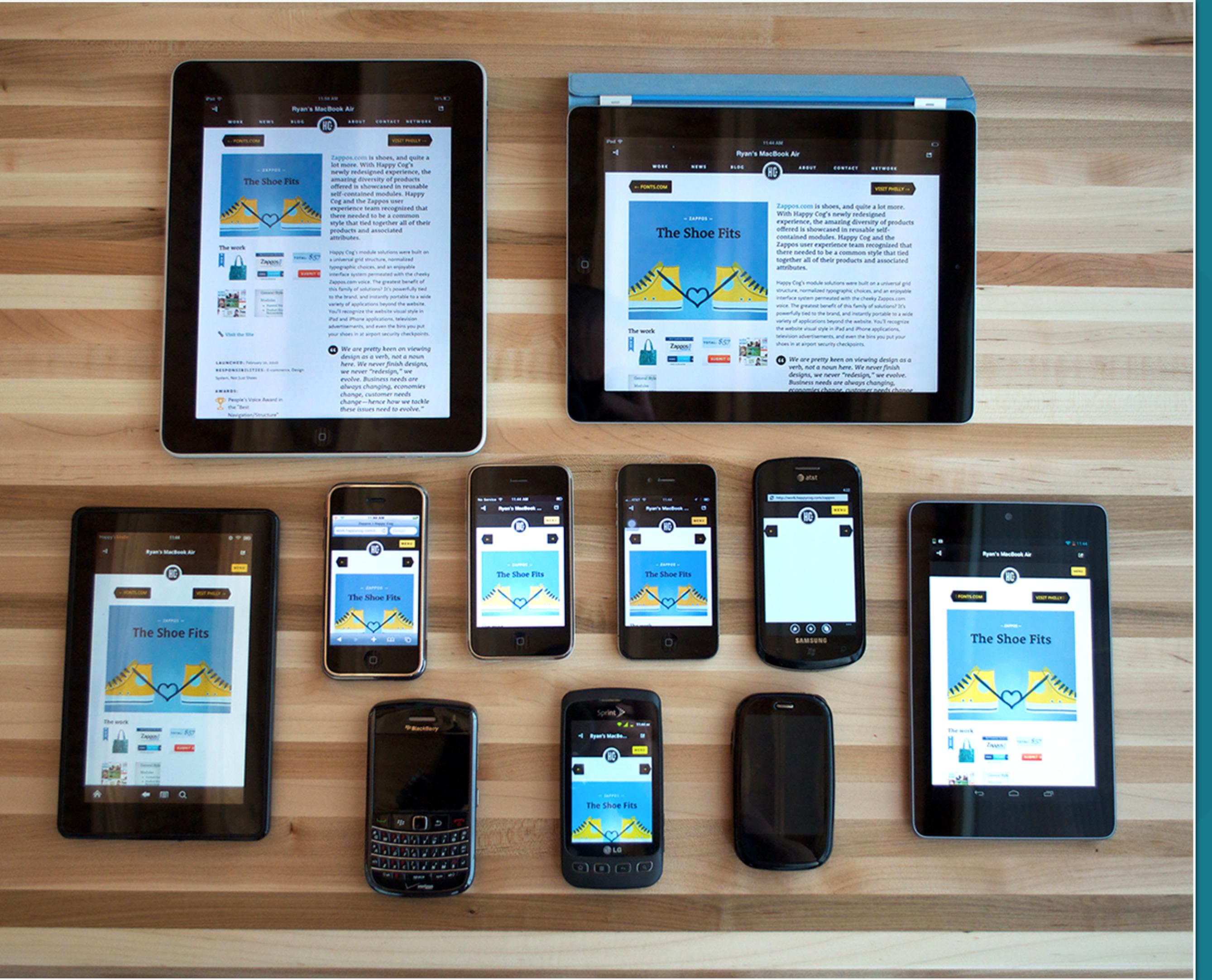
Browser: IE 11

**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.



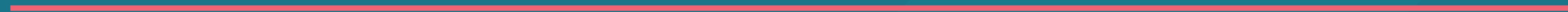


<http://cognition.happycog.com/m/content/devicelab.png>

# 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 During Class): Week 15

HTML/CSS Prototypes/Templates: Week 16 (Finals)

Review Session/Pattern Library/Critiques In Class: Week 16 (Finals)

Self/Group Evaluation: Week 16 (Finals)



# For Next Week

Patterns Part 2 (Review in Class)

Finish Usability Goals & Tasks

Reading On Pattern Libraries/Style Guides

