



Washington Legislature's Approach to Responsive Web Design

Brad Ellis
Legislative Service Center
brad.ellis@leg.wa.gov
360.786.7325

Web Design Principles

- Mobile First
- Responsive Design
- Design for Touch
- Accessibility
- Browsers, operating systems, and testing

Mobile First

- Helps us boil the content down to the bare essentials and work up to displaying it on larger screens instead of dropping content from a desktop screen to make it fit on a small screen
- Mobile users should have the same functionality and content as desktop users, although the display can be different
- It does not necessarily mean it has to be designed specifically for a phone (a mobile device is also a tablet or a laptop)
- The point is to design for the smallest intended screen *first*
 - For the purposes of a public site, that means a phone
 - For an internal site, it might mean a tablet or Surface or a regular desktop

Responsive Design

- For us, why responsive design instead of native apps?
 - Our public sites have a broad audience using a multitude of devices
 - It's more efficient for us to maintain one site than separate native applications or even hybrid apps because that's where our expertise is
 - We don't have a specific audience that uses one device we need to target, although some of our state agencies do
- We use MVC with media queries, jQuery Mobile, Twitter Bootstrap fluid grid, Image Resizer, picturefill (a polyfill for <picture>)
- We have templates for external and internal sites, which allows us to spin up projects quickly

Design for Touch

- We assume every site we build will be used on a touch-enabled device either now or in the future
 - For some internal web apps, that might *seem* highly unlikely, but never say never
- Designing for touch doesn't mean having to include acres of white space and ginormous buttons – just have enough space for a big cursor (a finger tip)
- It's possible to mix-and-match traditional mouse-click controls and touch optimized ones, but it's better to think touch from the start

Browsers and Operating Systems

- Browsers: For external sites in general, we support the current and immediately previous versions of IE, Chrome, Firefox, and Safari for desktops and mobile OS, but there are exceptions (e.g. state agencies)
- OS: it's the same idea with Windows, Mac OS (desktop), iOS (mobile), and Android
- For internal sites, it's IE and Windows, although we currently have three different versions of Windows – 10, 8.1, and 7.

Accessibility

- We aim for WACAG level AA as a balance between good performance and what we can support
 - We have issues with SharePoint on our public site we can't easily resolve
- We use <http://wave.webaim.org/> and <http://achecker.ca/checker/index.php> to spot check pages and we created an accessibility guidelines document for reference
- We used JAWS to test applications for an incoming blind member
- That member showed us the iOS Accessibility > VoiceOver feature is a helpful way to understand how sites are presented verbally

Testing

- We developed “testing suites” as a checklist of what to test and when: internal minimum; internal full; external minimum; external middle; external full
- We use physical devices as much as possible: Two iPads (one retina, one standard resolution); Nexus 9; Galaxy Tab S (10”); Galaxy Tab 4 (7”); Surface Pro 3 with Windows 10; our personal phones
- To cover the rest, we use <http://crossbrowsertesting.com/> for live device testing (we aren’t a fan of emulators)

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Members of the 64th Legislature 2015-2016

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1	Moscoso, Luis (D)	2	King (P), Snohomish (P)
2	Hunt, Graham (R)	1	Pierce (P), Thurston (P)
2	Wilcox, J.T. (R)	2	Pierce (P), Thurston (P)
3	Riccelli, Marcus (D)	1	Spokane (P)
3	Ormsby, Timm (D)	2	Spokane (P)
4	McCaslin, Bob (R)	1	Spokane (P)
4	Shea, Matt (R)	2	Spokane (P)
5	Rodne, Jay (R)	1	King (P)
5	Magendanz, Chad (R)	2	King (P)
6	Parker, Kevin (R)	1	Spokane (P)
6	Holy, Jeff (R)	2	Spokane (P)

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Street *

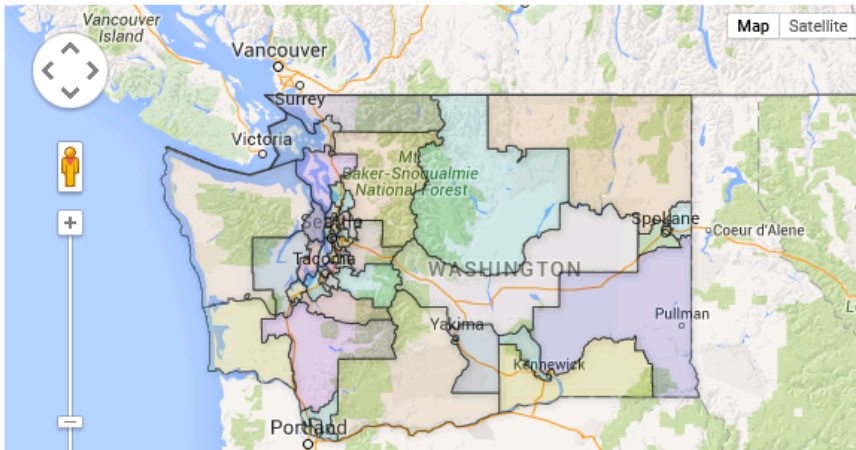
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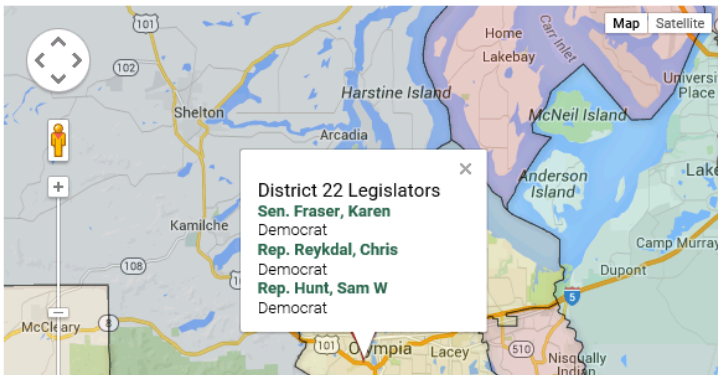
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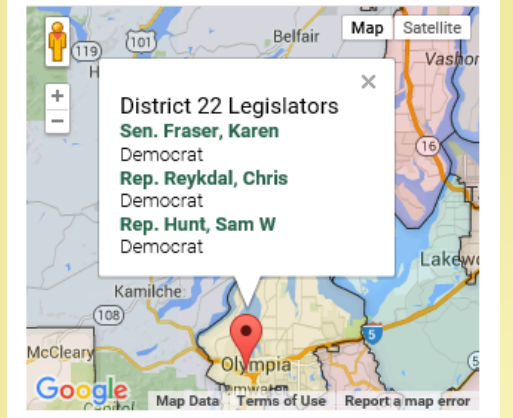
Show Address on Map

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- Legislative District Number: 22
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Thank you

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