

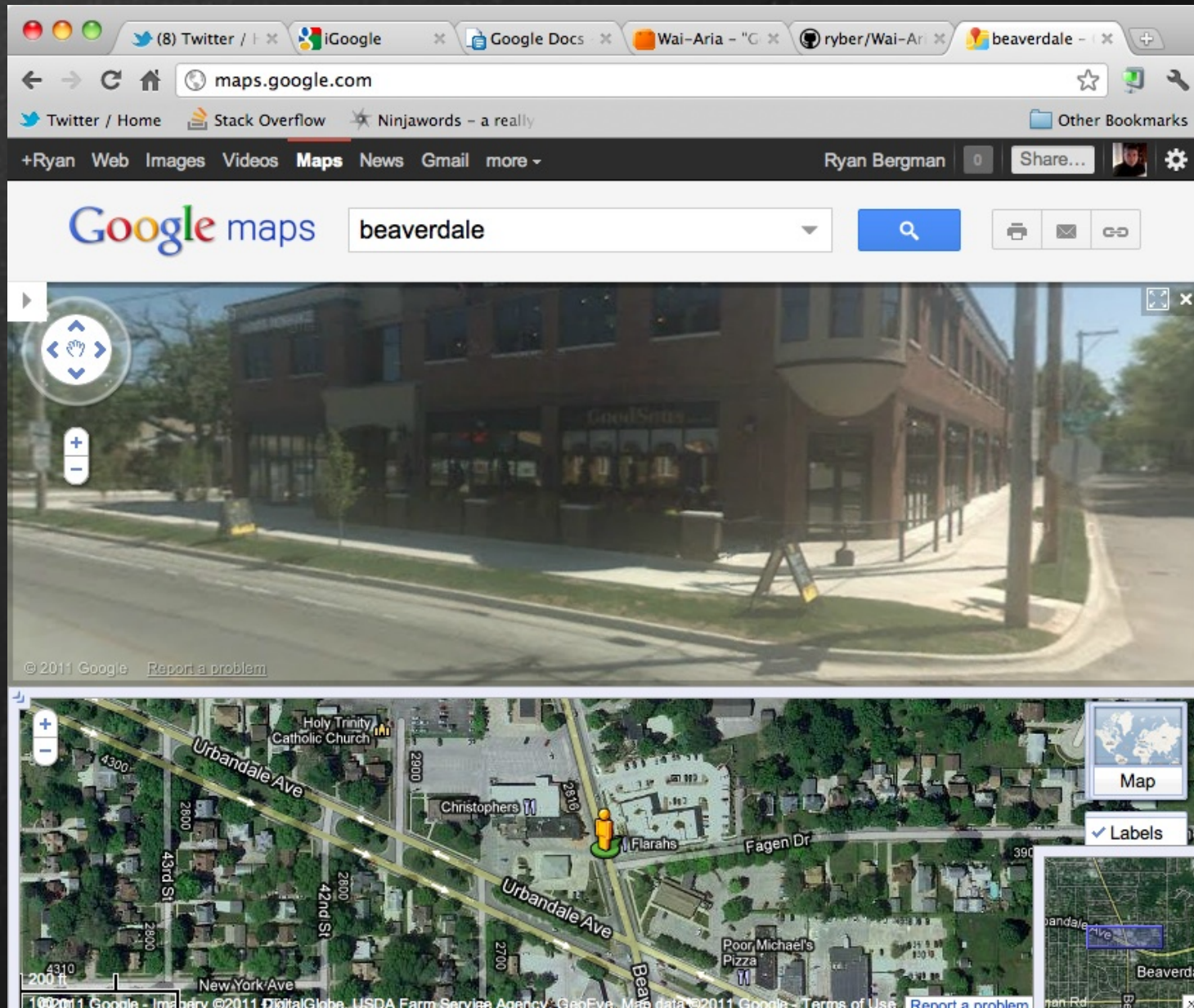
WAI-ARIA

Web Accessibility Initiative -
Accessible Rich Internet
Applications Suite

In '94 standards had to deal with this...



508 and the W3C didn't expect this:



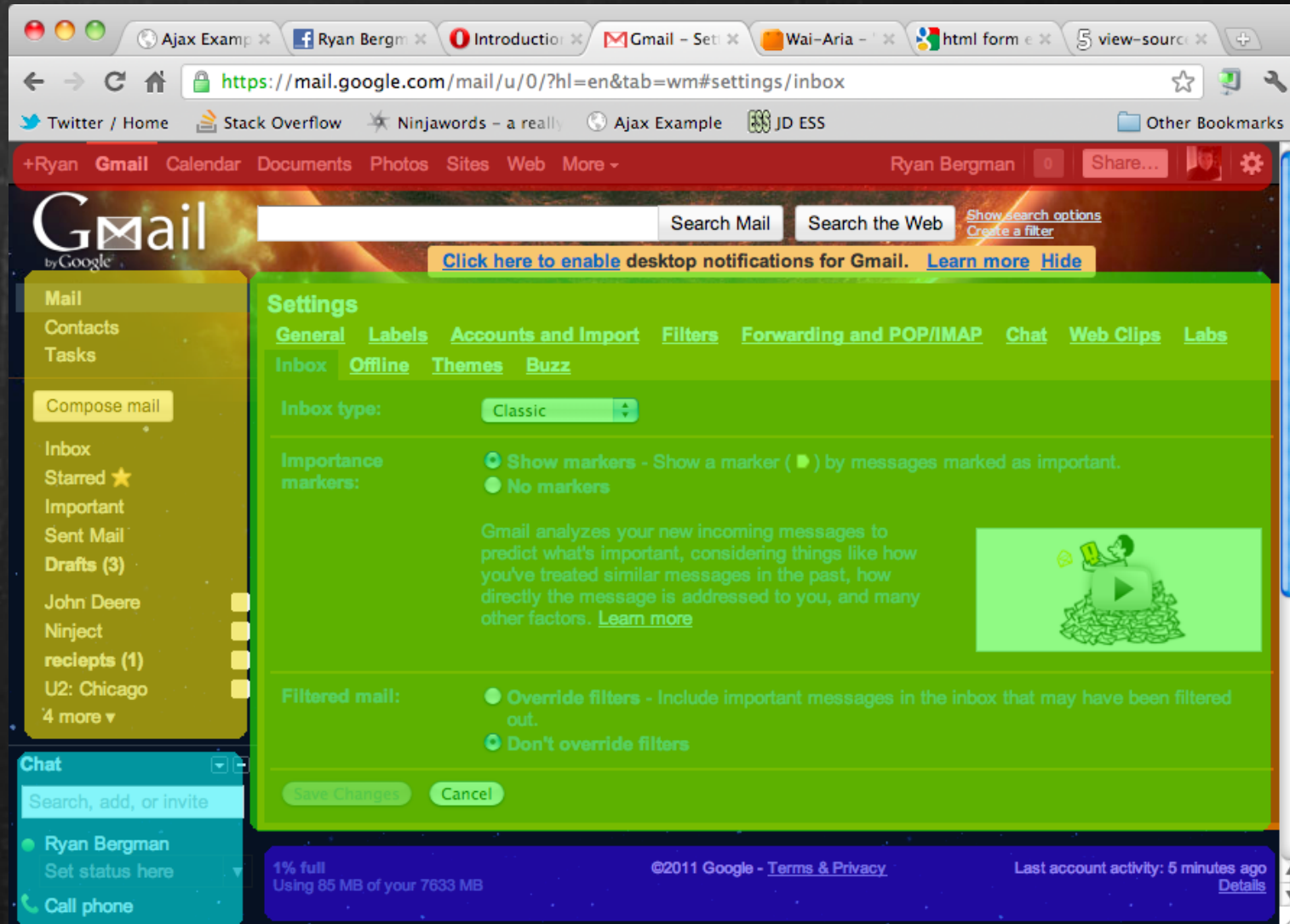
Web
Accessibility
Initiative

Accessible
Rich
Internet
Applications

"Web accessibility means that people with disabilities can use the Web"

So what does Wai-Aria Tell
Us That Regular HTML does
not?

What is the layout of the site? (landmarks)



What are the controls?

The screenshot shows the Gmail Settings page for the account 'Ryan Bergman'. The browser's address bar displays the URL `https://mail.google.com/mail/u/0?hl=en&tab=wm#settings/inbox`. The page layout includes a left sidebar with navigation links like 'Mail', 'Contacts', 'Tasks', and 'Compose mail'. The main content area is titled 'Settings' and contains several tabs: 'General', 'Labels', 'Accounts and Import', 'Filters', 'Forwarding and POP/IMAP', 'Chat', 'Web Clips', and 'Labs'. The 'General' tab is active, showing options for 'Inbox type' (set to 'Classic'), 'Importance markers' (with 'Show markers' selected), and 'Filtered mail' (with 'Don't override filters' selected). A blue oval highlights the 'Classic' dropdown menu, a red oval highlights the 'Show markers' radio button, and a green oval highlights a video player showing a person digging for coins. At the bottom, there are links for 'Save Changes', 'Cancel', 'Terms & Privacy', and 'Last account activity: 5 minutes ago'.

Ajax Examp x Ryan Bergm x Introducior x Gmail - Seti x Wai-Aria - x html form e x view-sourc x

Twitter / Home Stack Overflow Ninjawords - a really Ajax Example JD ESS Other Bookmarks

+Ryan Gmail Calendar Documents Photos Sites Web More - Ryan Bergman 0 Share... Settings

Gmail by Google

Search Mail Search the Web Show search options Create a filter

Click here to enable desktop notifications for Gmail. Learn more Hide

Settings

General Labels Accounts and Import Filters Forwarding and POP/IMAP Chat Web Clips Labs

Inbox Offline Themes Buzz

Inbox type: Classic

Importance markers:

- Show markers - Show a marker () by messages marked as important.
- No markers

Gmail analyzes your new incoming messages to predict what's important, considering things like how you've treated similar messages in the past, how directly the message is addressed to you, and many other factors. [Learn more](#)

Filtered mail:

- Override filters - Include important messages in the inbox that may have been filtered out.
- Don't override filters

Save Changes Cancel

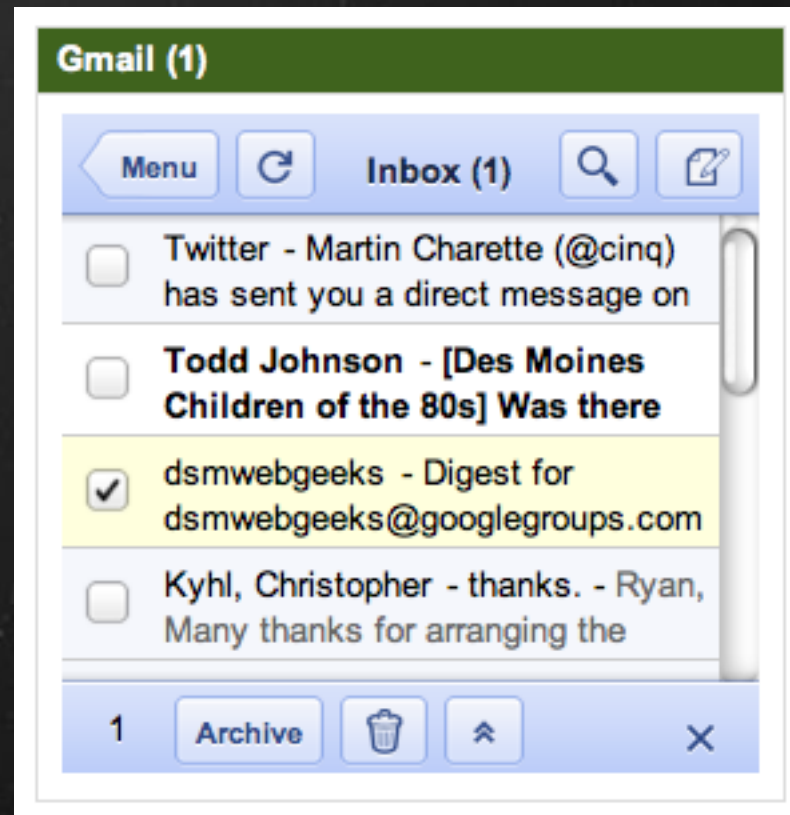
1% full Using 85 MB of your 7633 MB

©2011 Google - [Terms & Privacy](#) Last account activity: 5 minutes ago [Details](#)

WHEN an element is changing? Do we Care?



Why is an element changing? and What is causing the change?



Basic Elements

Keyboard Navigation

- HTML 4: tabindex limited to a, area, button, input, object, select, and textarea
- Wai-Aria / HTML5 extends to ALL elements

```
<div tabindex="0"> </div>
```


Role: describes what it is

```
<input type="image" src="thumb.gif" alt="
Effectiveness" role="slider" aria-valuemin="0"
aria-valuemax="100" aria-valuenow="42" aria-
valuetext="42 percent" aria-labelledby="
leffective">
```

Landmark Roles

```
<div role="banner"> ... </div> <div role="navigation"> ... </div>  
<div role="main"> ... </div>
```

State Attributes

```
<input type="text" alt="User" role="slider" aria-valuemin="0" aria-valuemax="100" aria-valuenow="42" aria-valuetext="42 percent" aria-labelledby="leffective">
```

Live Regions

```
<div id="results"  
  role="region"  
  aria-live="assertive"  
  aria-atomic="true"  
  aria-relevant="additions removals">  
  
</div>
```


Refs

- <http://www.w3.org/WAI/intro/aria>
- <http://wiki.codetalks.org/>
- <http://test.cita.uiuc.edu/aria/>
- <https://github.com/ryber/Wai-Aria>