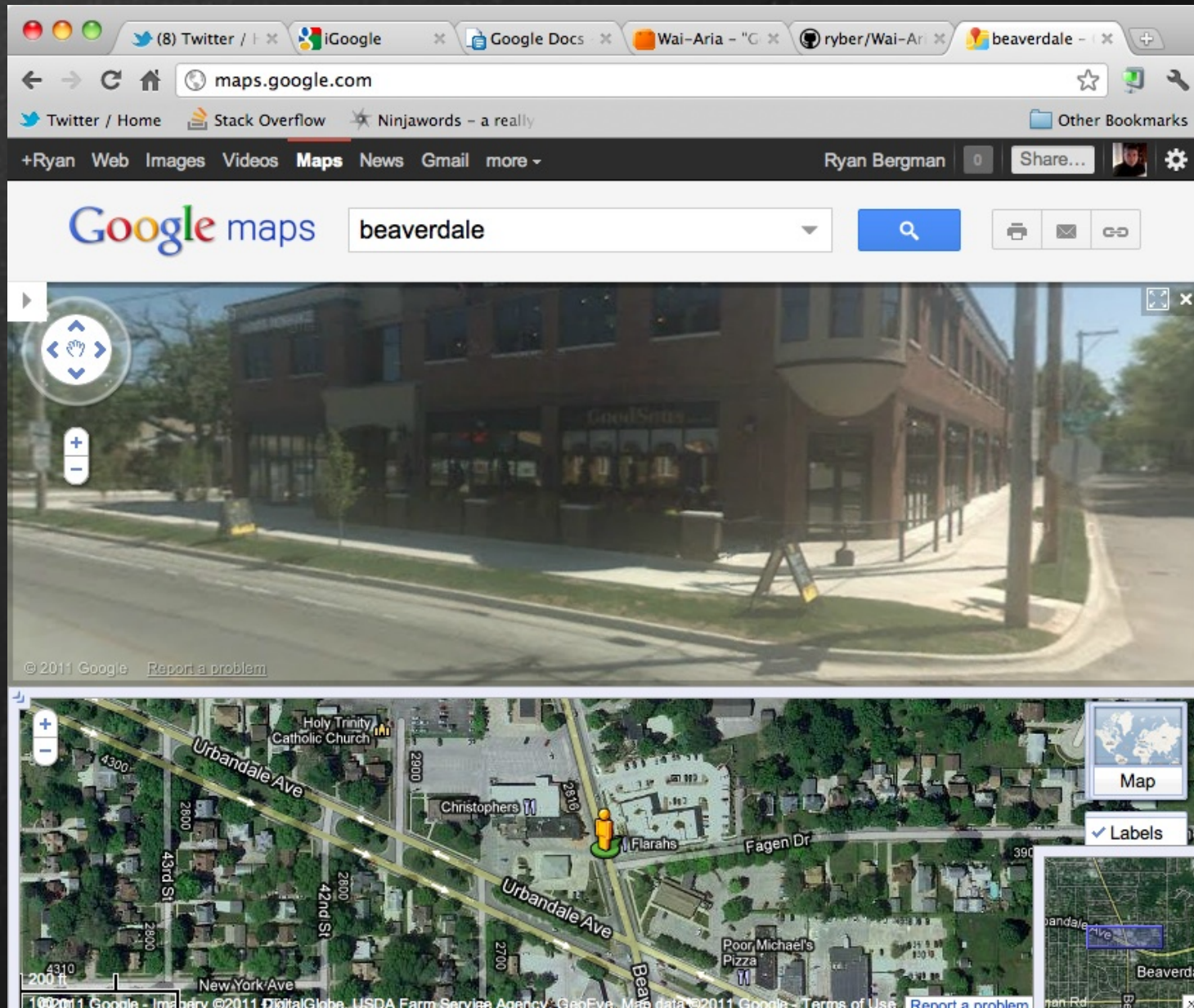# WAI-ARIA

Web Accessibility Initiative -
Accessible Rich Internet
Applications Suite

In '94 standards had to deal with this…
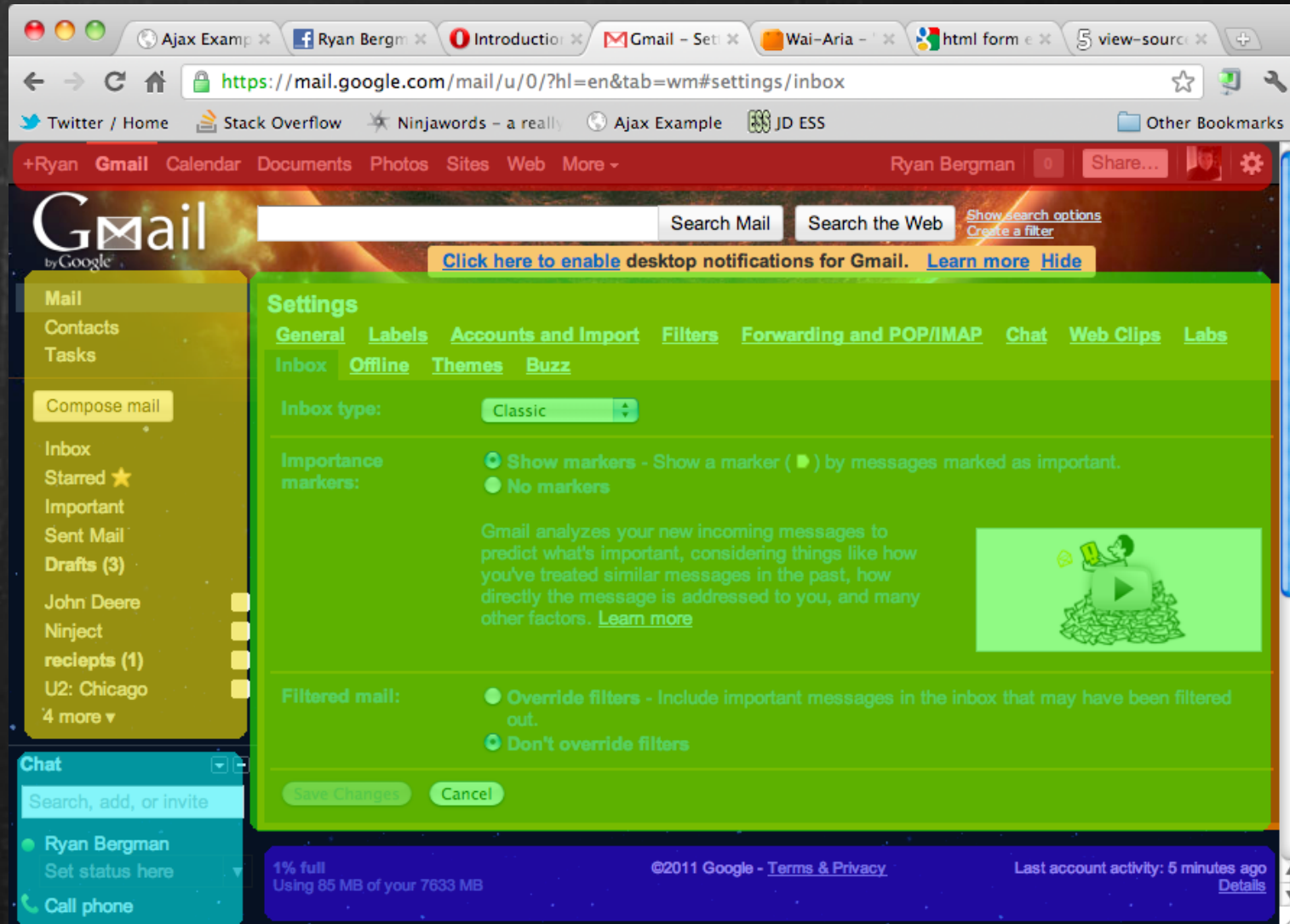
508 and the W3C didn't expect this:

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?

WHEN an element is changing? Do we Care?

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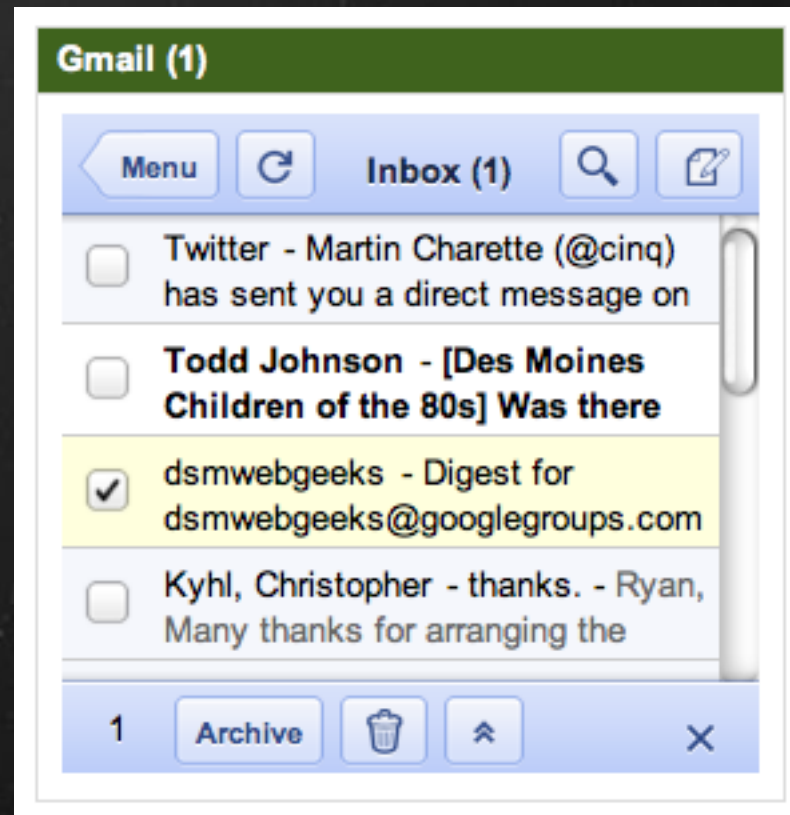
Basic Elements

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