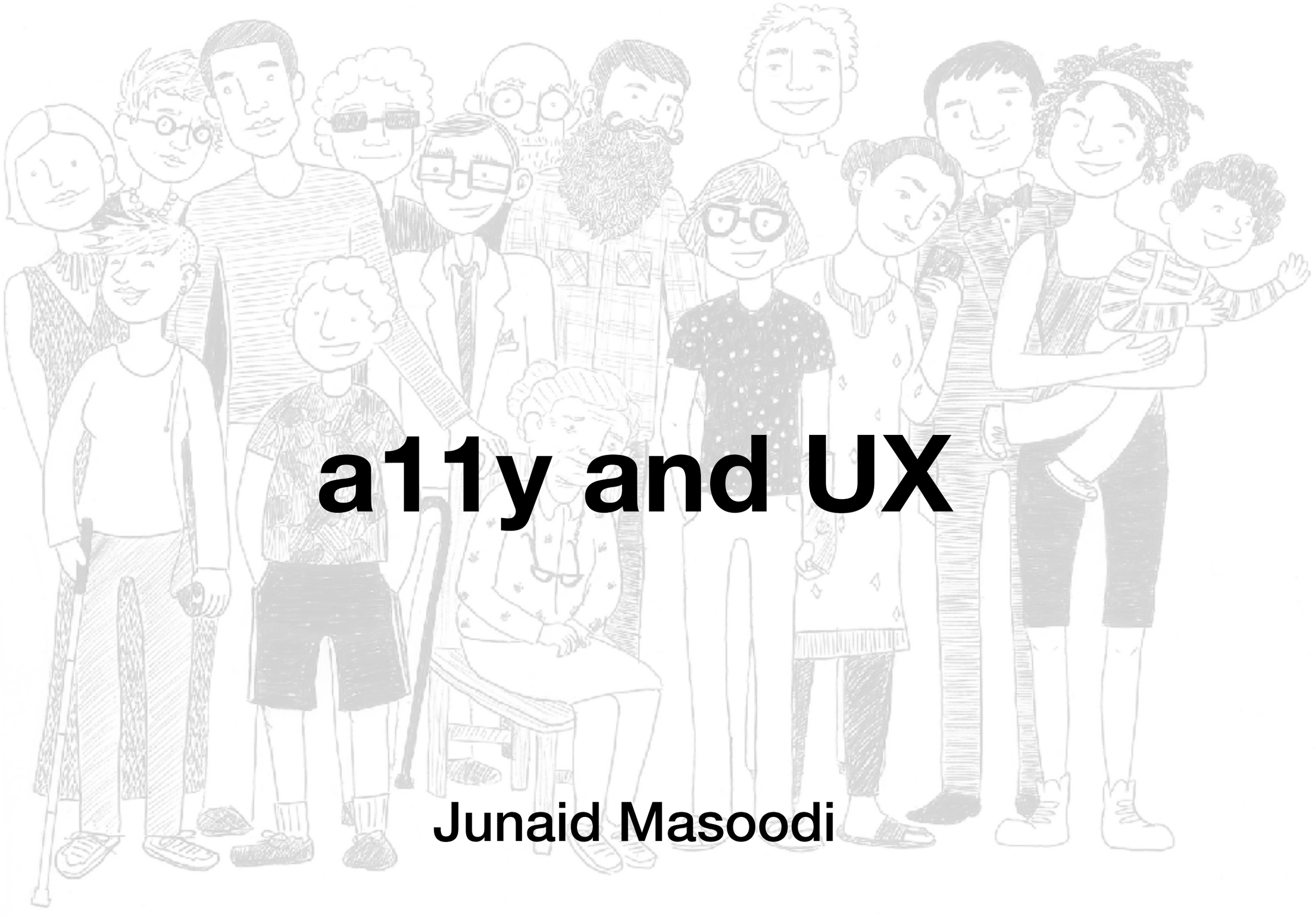

a11y and UX

Junaid Masoodi

YUP

*Accessibility enables people with disabilities to perceive, understand, navigate, interact with, and contribute to the web**

Digital accessibility refers to the practice of building digital content and applications that can be used by a wide range of people, including individuals who have visual, motor, auditory, speech, or cognitive disabilities.

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* because we are talking about web accessibility only

myth
gossip

This is a motherfucking website.

And it's fucking perfect.

Seriously, what the fuck else do you want?

You probably build websites and think your shit is special. You think your 13 megabyte parallax-ative home page is going to get you some fucking Awwward banner you can glue to the top corner of your site. You think your 40-pound jQuery file and 83 polyfills give IE7 a boner because it finally has box-shadow. Wrong, motherfucker. Let me describe your perfect-ass website:

- Shit's lightweight and loads fast
- Fits on all your shitty screens
- Looks the same in all your shitty browsers
- The motherfucker's accessible to every asshole that visits your site
- Shit's legible and gets your fucking point across (if you had one instead of just 5mb pics of hipsters drinking coffee)

Well guess what, motherfucker:

You. Are. Over-designing. Look at this shit. It's a motherfucking website. Why the fuck do you need to animate a fucking trendy-ass banner flag when I hover over that useless piece of shit? You spent hours on it and added 80 kilobytes to your fucking site, and some motherfucker jabbing at it on their iPad with fat sausage fingers will never see that shit. Not to mention blind people will never see that shit, but they don't see any of your shitty shit.

You never knew it, but this is your perfect website. Here's why.

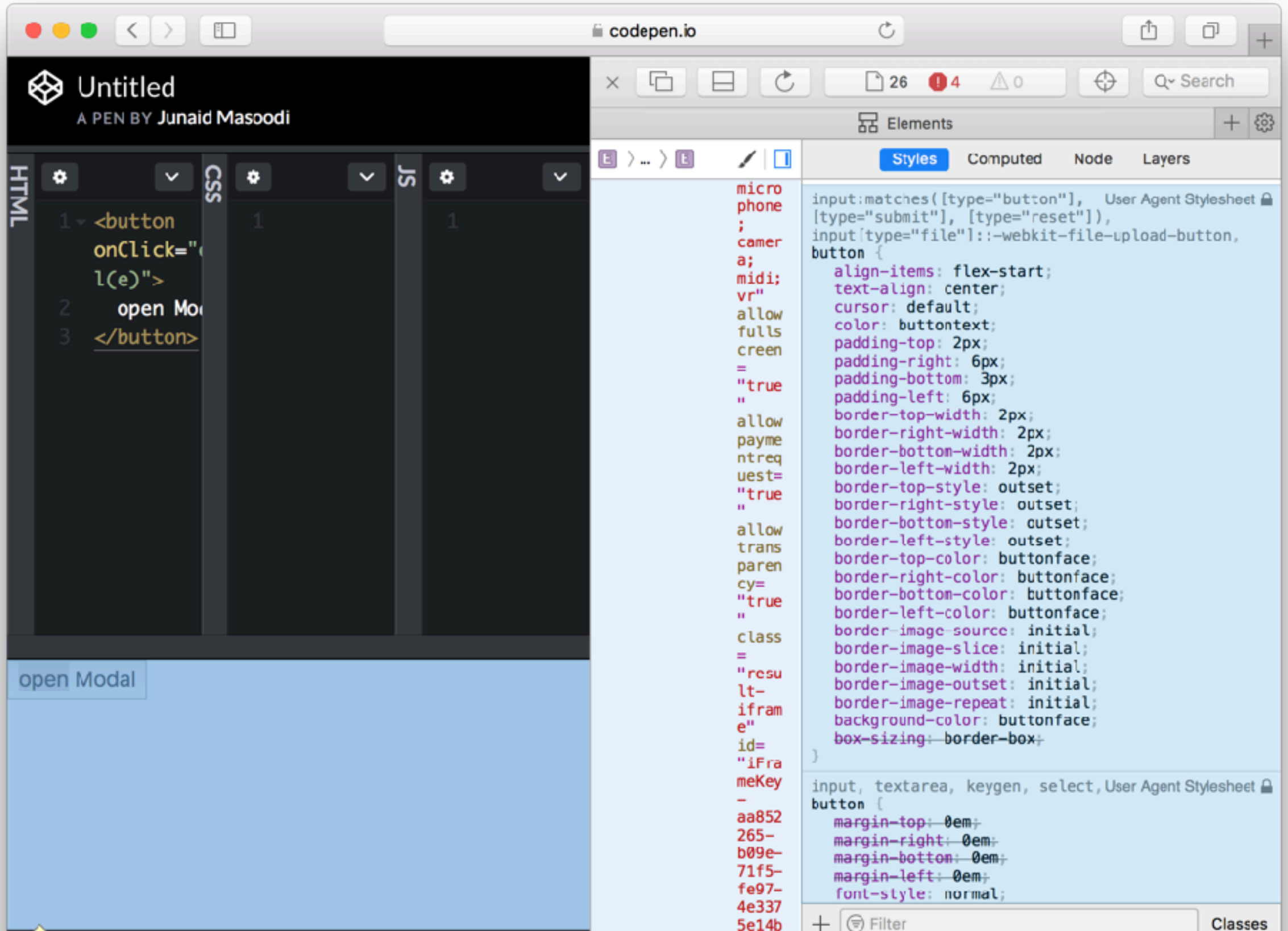
It's fucking lightweight

This entire page weighs less than the gradient-meshed facebook logo on your fucking Wordpress site. Did you seriously load 100kb of jQuery UI just so you could animate the fucking background color of a div? You loaded all 7 fontfaces of a shitty webfont just so you could say "Hi." at 100px height at the beginning of your site? You piece of shit.

```
<button onClick="openModal(e)">
  Open Modal
</button>
```

achieved….

- **Focusable** via the keyboard or screen reader
- Clickable by **Mouse, Enter Key** and **space bar**
- Accessible **name and state** provided to assistive tech
- An **interaction** is expected when clicked


codepen.io
Untitled
A PEN BY Junaid Masoodi
HTML
CSS
JS
<button
onClick="
l(e)">
open Mo
</button>
open Modal
26
4
0
Search
Elements
Styles
Computed
Node
Layers
micro
phone
;
camer
a;
midi;
vr"
allow
fulls
creen
=
"true
"
allow
payme
ntreq
uest=
"true
"
allow
trans
paren
cy=
"true
"
class
=
"resu
lt-
ifram
e"
id=
"iFra
meKey
-
aa852
265-
b09e-
71f5-
fe97-
4e337
5e14b
input:matches([type="button"], [type="submit"], [type="reset"]), input[type="file"]::-webkit-file-upload-button, button {
User Agent Stylesheet
align-items: flex-start;
text-align: center;
cursor: default;
color: buttontext;
padding-top: 2px;
padding-right: 6px;
padding-bottom: 3px;
padding-left: 6px;
border-top-width: 2px;
border-right-width: 2px;
border-bottom-width: 2px;
border-left-width: 2px;
border-top-style: outset;
border-right-style: outset;
border-bottom-style: outset;
border-left-style: outset;
border-top-color: buttonface;
border-right-color: buttonface;
border-bottom-color: buttonface;
border-left-color: buttonface;
border-image-source: initial;
border-image-slice: initial;
border-image-width: initial;
border-image-outset: initial;
border-image-repeat: initial;
background-color: buttonface;
box-sizing: border-box;
}
input, textarea, keygen, select, button {
User Agent Stylesheet
margin-top: 0em;
margin-right: 0em;
margin-bottom: 0em;
margin-left: 0em;
font-style: normal;
Filter
Classes

Change in markup..

```
<div onClick="openModal(e)">
  Open Modal
</div>
```

Costs extra work

```
<div
 tabindex="0"
 role="button"
 onKeyPress="handleBtnKeyPress(e)"
 onClick="openModal(e)">
  Open Modal
</div>
```

Costs more extra work

```
function handleBtnKeyPress(e) {

  // Check to see if space or enter were pressed
  if ( e.keyCode === 32 || e.keyCode === 13) {

    // Open modal dialog
    openModal(e);
  }

}
```

Costs more and more extra work

```
[role="button"] {
  align-items: flex-start;
  text-align: center;
  cursor: default;
  color: buttontext;
  background-color: buttonface;
  box-sizing: border-box;
  padding: 2px 6px 3px;
  border-width: 2px;
  border-style: outset;
  border-color: buttonface;
  border-image: initial;
  text-rendering: auto;
  letter-spacing: normal;
  word-spacing: normal;
  text-transform: none;
  text-indent: 0px;
  text-shadow: none;
  display: inline-block;
  margin: 0em;
  font: 11px system-ui;
  -webkit-appearance: button;
}
```

^well it isn’t hard

Web is for everyone, ~~it doesn’t have to be hard~~!

How do I get started with a11y

https://www.w3.org/TR/WCAG21/

W3C Recommendation

Web Content Accessibility Guidelines (WCAG) 2.1

W3C Recommendation 05 June 2018

This version:

https://www.w3.org/TR/2018/REC-WCAG21-20180605/

Latest published version:

https://www.w3.org/TR/WCAG21/

Latest editor's draft:

https://w3c.github.io/wcag/21/guidelines/

Implementation report:

https://www.w3.org/WAI/WCAG21/implementation-report/

Previous version:

https://www.w3.org/TR/2018/PR-WCAG21-20180424/

Previous Recommendation:

https://www.w3.org/TR/2008/REC-WCAG20-20081211/

Editors:

Andrew Kirkpatrick (Adobe)

Joshue O Connor (Invited Expert, InterAccess)

Alastair Campbell (Nomensa)

Michael Cooper (W3C)

WCAG 2.0 Editors (until December 2008):

Ben Caldwell (Trace R&D Center, University of Wisconsin-Madison)

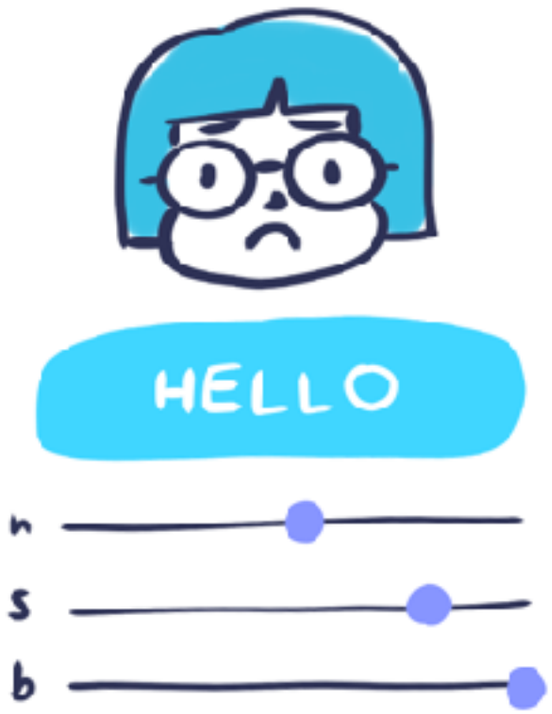
Loretta Guarino Reid (Google, Inc.)

User experience (UX) design is the process of creating products that provide meaningful and relevant experiences to users.

a11y + UX = ?

Why designing for accessibility?

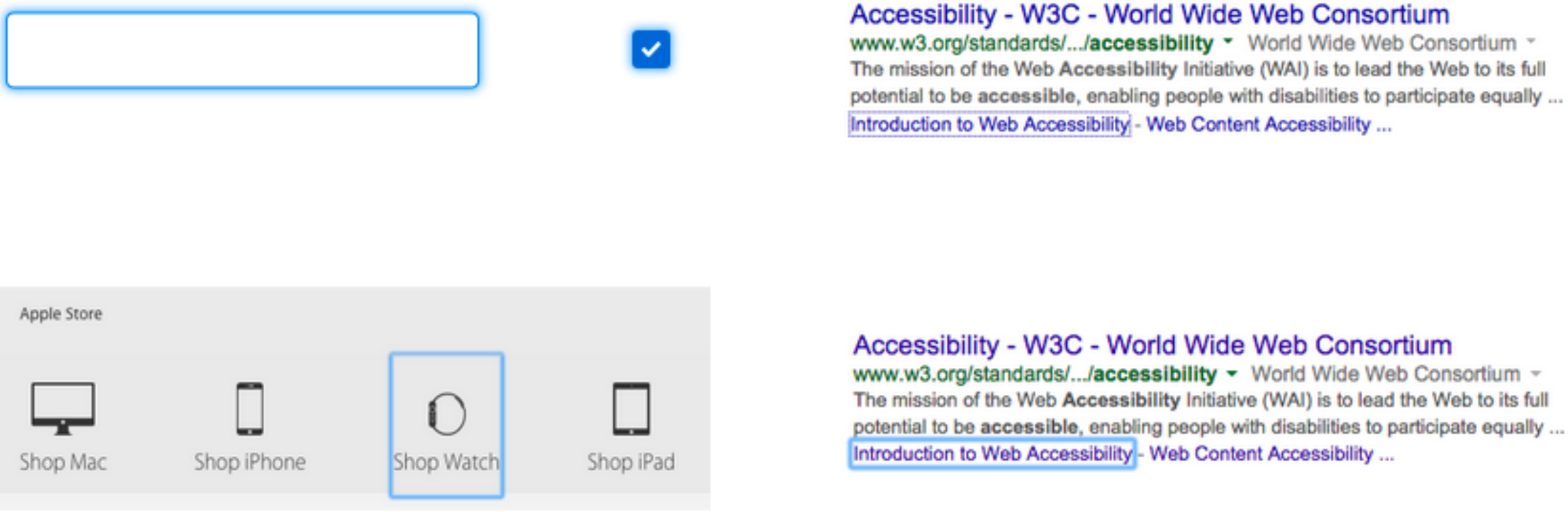
- Better experience irrespective of context or situation
- It is important
- Have bigger out reach
- SEO Friendly
- Faster than ordinary (normal in informal) websites
- Best practises



Add enough colour contrast 🖍️

Don’t use colour alone to make critical information understandable 💈

Design usable focus states



Default visual focus states for Chrome and Firefox

Use labels or instructions with form fields and inputs

sacrificing usability in favour of simplicity

Write useful alternative text for your images and other non-text content

- Within the `<alt>` attribute of the image element.
- Within context or surroundings of the image itself.

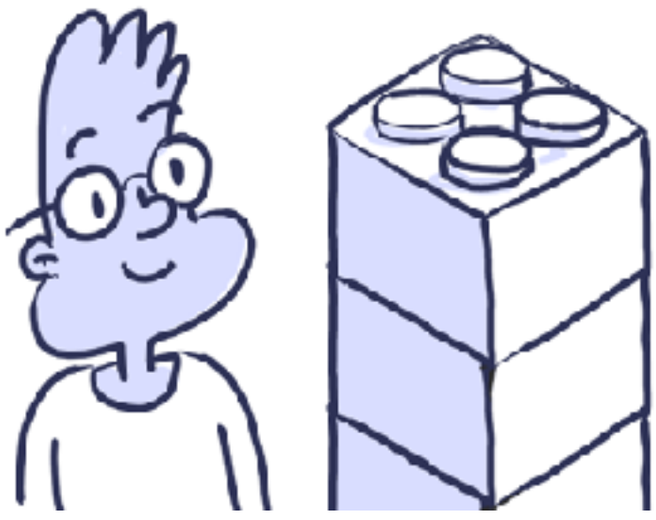
Search
Junaid
Home
Create
Front End Developer at Acquia
Former Microsoft Tech evangelist at Microsoft
Photo/Video
Feeling/Activity
Posts
Manage Posts
Balcony B
Chat (86)
Elements
Console
Performance
Sources
<div class="fbPhotoSnowliftContainer snowliftPayloadRoot uiContextualLayerParent" data-ft="{"tn":"+F"}">

<div class="stage" data-ft="{"tn":"E"}">
…

<img class="spotlight" alt="Image may contain: 3 people, including Junaid Masoodi, Nida Ismail Shah and Hitesh Jain, people smiling" src="https://scontent-iad3-1.xx.fbcdn.net/v/t1.0-9/12717028_11747074592060_4203021790_n.jpg?_nc_cat=0&oh=2a324c5…&oe=58F426F8" aria-busy="true" style="width: 660px; height: 439px;">

<div class="videoStage" data-ft="{"tn":"F"}">
…
<div class="stageActions" id="snowliftStageActions" data-ft="{"tn":"+\u8040"}">…

"}" role="button">…
…
… body #photos_snowlift div div div div div div div img.spotlight
Styles
Event Listeners
DOM Breakpoints
Properties
Accessibility
:hov .cls +
element.style {
margin



Use correct markup on your content

Support keyboard navigation

Avoid component identity crises.

Q: When is a menu no longer a menu?

A: When it's a non-modal dialog.

Design responsibly

Thank you

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iam@junaidmasoodi.com

@junaidmasudi