60,909,278

edit text blank

Accessibility, Inputs & JavaScript

Slides, Resources & Co.

https://r.ovl.design/jsvidcon

Twitter: @_ovlb

Babelfish

WAI

W3C Web Accessibility Initiative

https://www.w3.org/WAI/

ARIA

Accessible Rich Internet Applications

https://www.w3.org/WAI/standards-guidelines/aria/

«WAI-ARIA provides a collection of accessibility states and properties [...].»

ARIA

https://www.w3.org/TR/wai-aria/#usage

WCAG

Web Content Accessibility Guidelines

https://www.w3.org/WAI/standards-guidelines/wcag/

A11Y

Shorthand for accessibility

«The power of the Web is in its universality. Access by everyone regardless of disability is an essential aspect.»

Tim Berners-Lee, 1997

https://www.w3.org/Press/IPO-announce

«98.1% of home pages had detectable WCAG 2 failures!»

The WebAIM Million – WCAG CONFORMANCE

https://webaim.org/projects/million/

What happened?

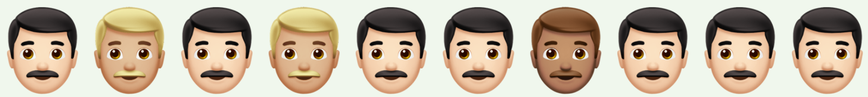
Neglect

Most common types of WCAG 2 failures

WCAG Failure Type	% of home pages in February 2020	% of home pages in February 2019
Low contrast text	86.3%	85.3%
Missing alternative text for images	66.0%	68.0%
Empty links	59.9%	58.1%
Missing form input labels	53.8%	52.8%
Empty buttons	28.7%	25.0%
Missing document language	28.0%	33.1%

Framework	# (and %) of home pages	Avg. # of errors	% decrease/increase of errors
MooTools	27,033 (2.7%)	52.3	−12.6%
TweenMax	25,802 (2.6%)	58.3	−2.3%
Mustache	11,803 (1.2%)	65.5	9.9%
Knockout.js	7,046 (0.7%)	65.6	10.0%
React	31,960 (3.2%)	65.5	10.1%
Backbone.js	22,678 (2.3%)	69.3	16.6%
Angular	14,939 (1.5%)	70.9	19.2%
RequireJS	21,168 (2.1%)	71.1	19.7%
Handlebars	15,307 (1.5%)	73.5	23.6%
Vue.js	6,639 (0.7%)	73.7	23.7%
Prototype	14,376 (1.4%)	74.2	24.8%

24% of organisations think they are WCAG compliant



It’s not us. It’s society.

But also us.

#PerfMatters
CONFERENCE
April 2 & 3, 2019, Redwood City, CA
www.PerfMattersConf.com

How Privilege Defines Performance

Tatiana Mac

«Privilege is not my fault.

But it is my responsibility.»

Tatiana Mac

https://www.youtube.com/watch?v=Hzs_8e3Xhhc

Complexity

Accessibility is no rocket science.

WE NEED TO ACT.

If we don’t want to look like a bunch of overpaid bollocks.

Making the Web Accessible

COLLABORATION

«The only way this work gets done is if we start small, and if we work together.»

Ethan Marcotte – The web we broke

https://ethanmarcotte.com/wrote/the-web-we-broke/

USE SEMANTIC MARKUP.

And ARIA where applicable.

USE ASSISTIVE TECHNOLOGY.

ASK USERS.

They are the experts.

PUT ACCESSIBILITY IN THE DEFINITION OF DONE

... and be it your own.

Accessible Inputs

https://playground.owlish.dev/inclusive-inputs/

«56% of the 3.4 million form inputs identified were unlabeled (either via `<label>`, `aria-label`, or `aria-labelledby`), down from 59% in 2019.»

The WebAIM Million – Form Labeling

https://webaim.org/projects/million/#labels

```
<form action="/contact" method="POST">
  <div class="form-group">
    <label>Name <span class="required">*</span></label>
    <input type="text">
  </div>
</form>
```

edit text blank

LABELING

```
<input type="text" id="name" name="name" />
```

```
<label for="name">Name <span class="required">*</span></label>
```

```
<label for="name">Name <span class="required">*</span>
  <input type="text" id="name" name="name" />
</label>
```

× NAME *, edit text with autofill menu

aria-label

```
<button @click="likePost">💞 </button>
```

, button

DON’T MAKE YOUR USERS GUESS.

Unless you write the crosswords
for the New York Times.

```
<button
  aria-label="Like Post"
  @click="likePost"
>💞 </button>
```

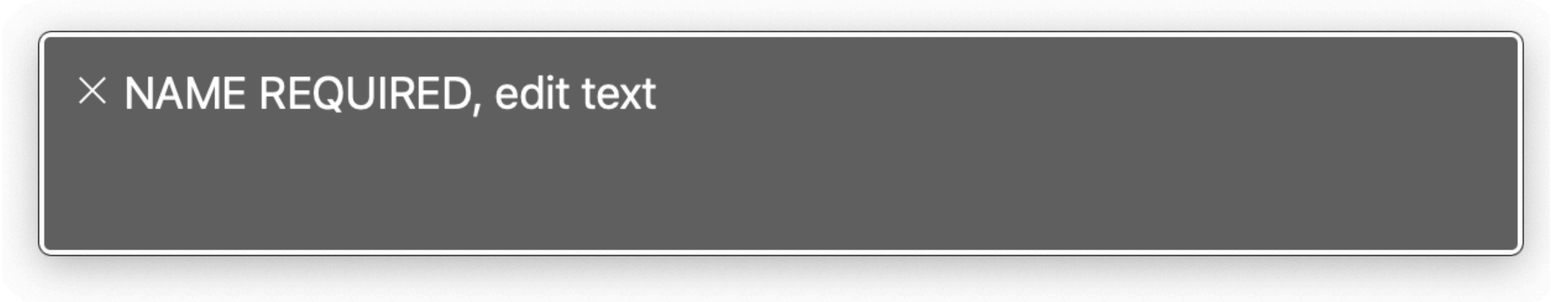
Like Post, button

ACCESSIBLE ICON BUTTONS

https://www.sarasoueidan.com/blog/accessible-icon-buttons/

MARKING REQUIRED FIELDS

```
<div class="form-group">
  <label for="name">
    Name
    <span class="required">required</span>
  </label>
  <input type="text" id="name" name="name">
</div>
```


NAME REQUIRED, edit text

`aria-hidden`

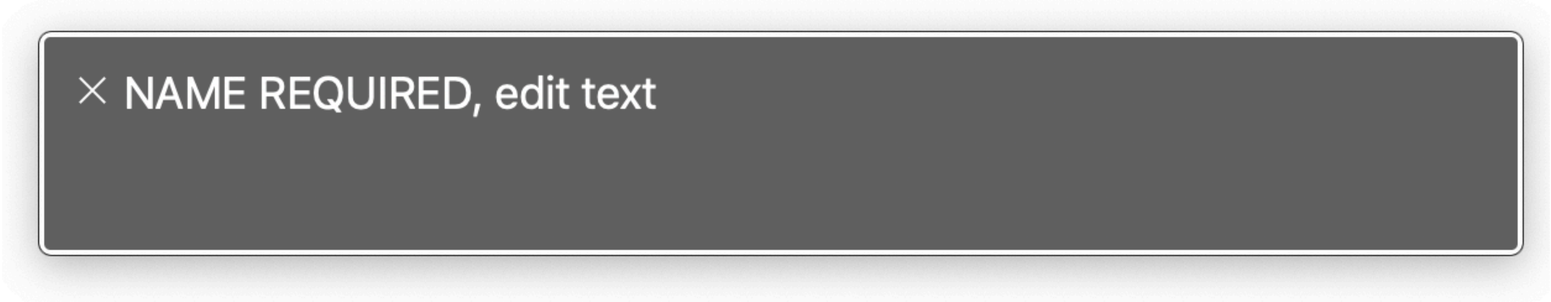
Hide an element from Assistive Technology

HIDING ELEMENTS FROM SCREEN READERS USING `aria-hidden`

https://www.accessibility-developer-guide.com/examples/sensible-aria-usage/hidden/

```
<label for="name_required_sr_text">
  Name
  <span
    class="required"
    aria-hidden="true"
  >*</span>
  <span class="sr-only">required</span>
</label>
```

```css
.sr-only {
  clip-path: inset(100%);
  clip: rect(0 0 0 0);
  height: 1px;
  overflow: hidden;
  position: absolute;
  white-space: nowrap;
  width: 1px;
}
```


NAME REQUIRED, edit text

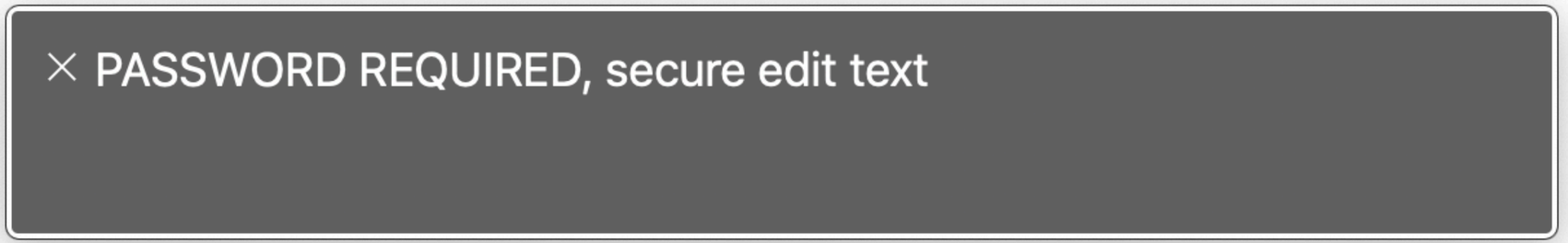
```
<input type="text" id="name" name="name" required />
```

REQUIRED ATTRIBUTE REQUIREMENTS

https://developer.paciellogroup.com/blog/2019/02/required-attribute-requirements/

DESCRIBING FIELDS

```
<div class="form-group">
  <label for="password">
    Password
    <span class="required">required</span>
  </label>
  <input
    type="password"
    id="password"
    name="password"
  >
  <small class="aside">
    Your password should be unique to this site. And please use a
 Password Manager.
  </small>
</div>
```


PASSWORD REQUIRED, secure edit text

`aria-describedby`

Describe an element using the text content of another

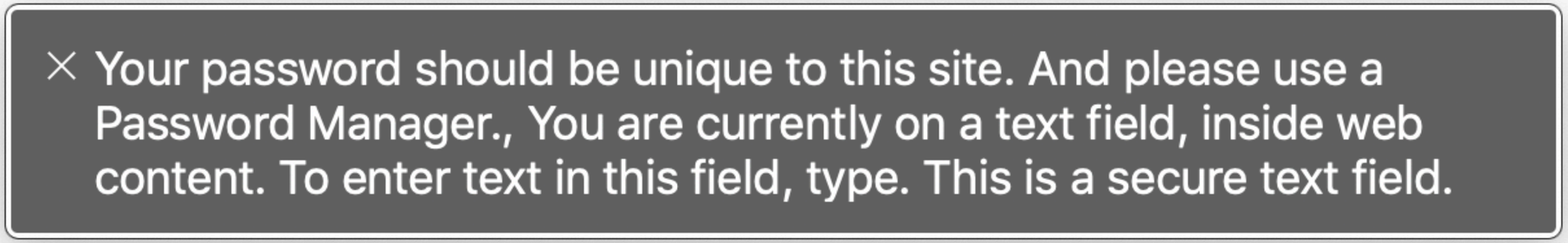
DESCRIBING aria-describedby

https://developer.paciellogroup.com/blog/2018/09/describing-aria-describedby/

```
<small
  id="desc_pw"
  class="aside"
>
Your password should be unique to this site. And please use
 a Password Manager.
</small>
```

```
<input
  type="password"
  id="password"
  name="password"
  aria-describedby="desc_pw"
>
```

PASSWORD REQUIRED, secure edit text


Your password should be unique to this site. And please use a Password Manager., You are currently on a text field, inside web content. To enter text in this field, type. This is a secure text field.

Expanding the Toolbox

«The only way this work gets done is if we start small, and if we work together.»

Ethan Marcotte – The web we broke

https://ethanmarcotte.com/wrote/the-web-we-broke/

https://www.ovl.design/text/inclusive-inputs/

```
npm i @tournant/input
```

Slides, Resources & Co.

https://r.ovl.design/jsvidcon

Twitter: @_ovlb

https://www.flickr.com/photos/acampadabcnfoto/39943411872/

Fotomovimiento.org

Unbreak the web.

tournant

https://ui.tournant.dev
@tournantdev