



Stop using JS for that

Moving features from **JS** to **CSS & HTML**



Hoo boy.




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 Spent the
past 20 years
building
websites

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 Part of the
Electron
governance
team

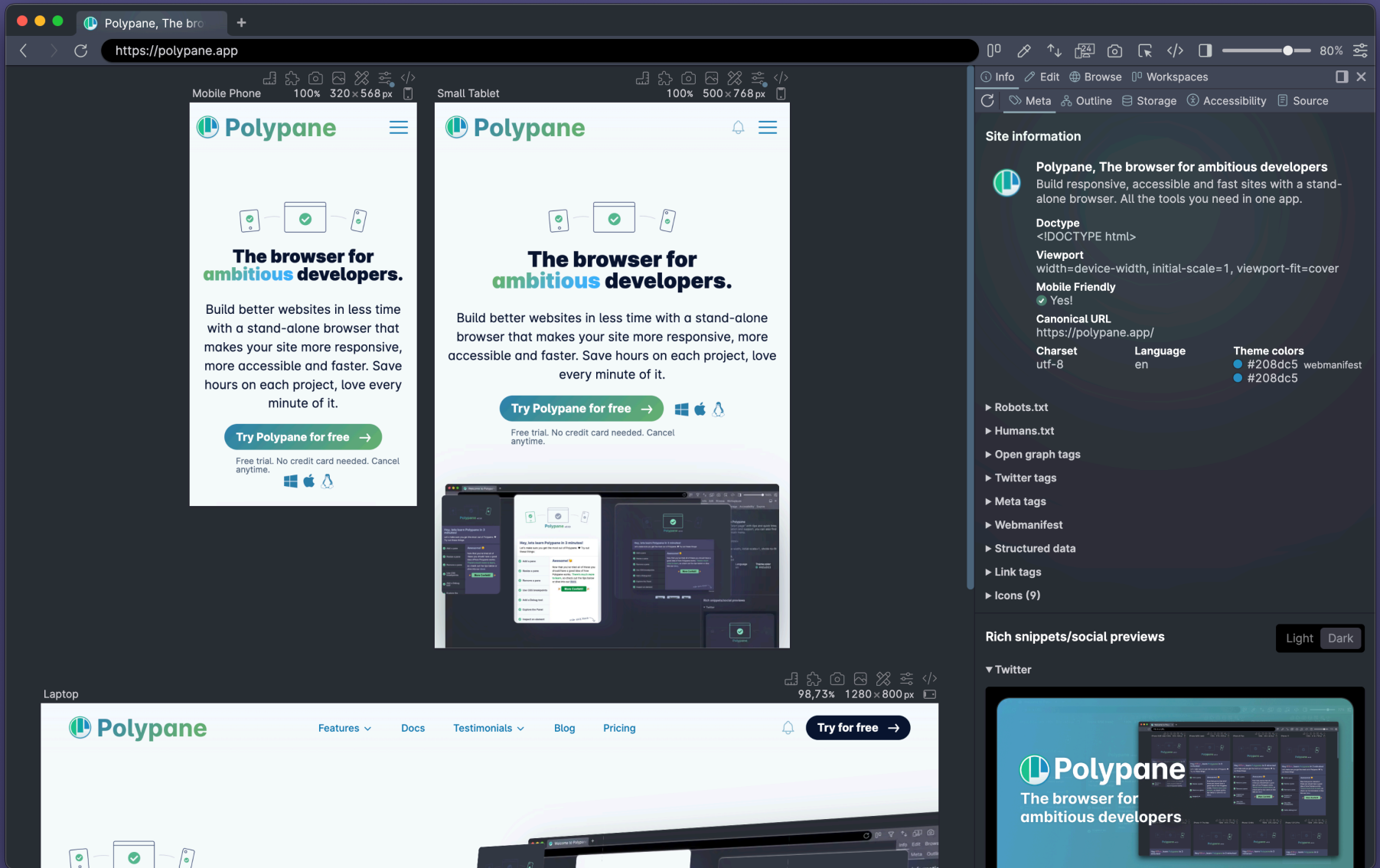
I'm Kilian Valkhof

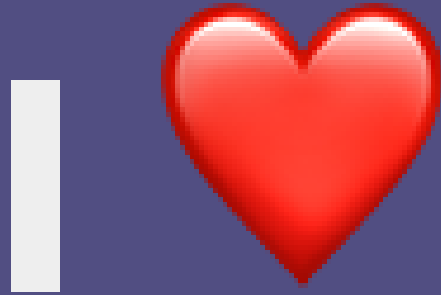
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 Make a
browser for
devs called
Polypane





JS



CSS



<JSX />

The rule
of least
power



*Choose the least powerful language
suitable for a given purpose*

Browser makers are listening

And are implementing the stuff we built by hand

**Once you learn
something**

You don't learn it again

Lets get started



Custom switches

```
<label>  
  <input type="checkbox" />  
  My awesome feature  
</label>
```

- My awesome feature

```
input {
  appearance: none;
  position: relative;
  display: inline-block;
  background: lightgrey;
  height: 1.65rem;
  width: 2.75rem;
  vertical-align: middle;
  border-radius: 2rem;
  box-shadow: 0px 1px 3px #0003 inset;
  transition: 0.25s linear background;
}

input::before {
  content: '';
  display: block;
  width: 1.25rem;
  height: 1.25rem;
  background: #fff;
  border-radius: 1.2rem;
  position: absolute;
  top: 0.2rem;
  left: 0.2rem;
  box-shadow: 0px 1px 3px #0003;
  transition: 0.25s linear transform;
  transform: translateX(0rem);
}
```

 My awesome feature

```
:checked {  
  background:green;  
}  
:checked::before {  
  transform:translateX(1rem)  
}
```

 My awesome feature

```
input:focus-visible {  
  outline: 2px solid dodgerblue;  
  outline-offset: 2px  
}
```

```
input:focus {  
  /* no: */  
  outline: none;  
  /* yes: */  
  outline-color: transparent;  
}
```

 My awesome feature

polypane.app/forced-colors

```
<input
  type="checkbox"
  switch />
```

```
input {
  accent-color: hotpink;
}
```

```
input::thumb {
  /* ... */
}
```

```
input::track {
  /* ... */
}
```

Native switch (unstyled)



Basic styled switch



► Show CSS

Basic styled switch with symbol



► Show CSS

Daylight switch



► Show CSS

Native switch (unstyled)



Basic styled switch



► Show CSS

Basic styled switch with symbol



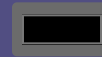
► Show CSS

Daylight switch



► Show CSS

```
<input type="color">
```



In-page transitions

```
$( 'a[href*="#"]' )  
  .click( function() {  
    var target = $(this.hash);  
    $( 'html' ).animate({  
      scrollTop: target.offset().top  
    }, 1000)  
  });
```

jQuery. Awesome.

```
html {  
  scroll-behavior: smooth;  
}
```

To bottom Forage distillery enim yuccie pop-up fixie, raclette adipisicing cillum hammock cupidatat PBR&B incididunt. Man bun neutra austin est listicle, slow-carb twee incididunt brunch hexagon. Stumptown ennui banjo wolf salvia aesthetic pabst health goth tempor heirloom lorem aliquip next level street art. Flannel pour-over 3 wolf moon venmo letterpress, next level adipisicing. Dreamcatcher craft beer narwhal lomo chicharrones cupidatat four loko, meggings dolore roof party. Hella asymmetrical man bun austin meh woke vice sriracha aliqua consequat excepteur in pug keffiyeh. Sartorial tote bag leggings wolf art party humblebrag est brunch.

Scenester asymmetrical quis helvetica non pok pok bespoke aute waistcoat deserunt id nulla actually semiotics pork belly. Marfa sriracha commodo edison bulb dolore la croix XOXO sed duis. Copper mug pour-over +1 cray dolore squid sriracha officia. Everyday carry green juice iceland enim.

Pork belly kombucha anim slow-carb lomo vape consequat mumblecore. Seitan austin raw denim, laboris tumeric 8-bit marfa lo-fi. Art party meh adaptogen vice master cleanse duis mumblecore typewriter DIY fingerstache unicorn. Proident commodo pitchfork fugiat art party austin. Hexagon lorem hot chicken umami, authentic butcher pinterest ex food truck cardigan kale chips.

Bitters narwhal 3 wolf moon, helvetica pickled flannel neutra disrupt lomo consequat lyft. Cupidatat chartreuse meditation +1 occupy shabby chic deserunt glossier plaid. Cloud bread dolor hoodie chillwave, proident live-edge enim ut pickled synth +1 unicorn hell of. Culpa taiyaki bushwick waistcoat hexagon cardigan meditation.

Disrupt shaman ethical palo santo, crucifix synth post-ironic

```
1 window.scrollTo({  
2   top:1000,  
3   behavior: "smooth"  
4 });
```

In JavaScript

```
@media  
(  
  prefers-reduced-motion:  
    no-preference  
) {  
  html {  
    scroll-behavior: smooth;  
  }  
}
```

Accessibility

Smooth

```
#my-target {  
  scroll-margin-top: 100px;  
}
```

Header

To target Forage distillery enim yuccie pop-up fixie, raclette adipisicing cillum hammock cupidatat PBR&B incididunt. Man bun neutra austin est listicle, slow-carb twee incididunt brunch hexagon. Stumptown ennui banjo wolf salvia aesthetic pabst health goth tempor heirloom lorem aliquip next level street art. Flannel pour-over 3 wolf moon venmo letterpress, next level adipisicing. Dreamcatcher craft beer narwhal lomo chicharrones cupidatat four loko, meggings dolore roof party. Hella asymmetrical man bun austin meh woke vice sriracha aliqua consequat excepteur in pug keffiyeh. Sartorial tote bag leggings wolf art party humblebrag est brunch.

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My middle title

to top Bitters narwhal 3 wolf moon, helvetica pickled flannel neutra disrupt lomo consequat lyft. Cupidatat chartreuse

```
#my-target:target {  
  outline: 10px solid deeppink;  
  transition: 1s ease-in-out outline;  
}
```

Header

To target Forage distillery enim yuccie pop-up fixie, raclette adipisicing cillum hammock cupidatat PBR&B incididunt. Man bun neutra austin est listicle, slow-carb twee incididunt brunch hexagon. Stumptown ennui banjo wolf salvia aesthetic pabst health goth tempor heirloom lorem aliquip next level street art. Flannel pour-over 3 wolf moon venmo letterpress, next level adipisicing. Dreamcatcher craft beer narwhal lomo chicharrones cupidatat four loko, meggings dolore roof party. Hella asymmetrical man bun austin meh woke vice sriracha aliqua consequat excepteur in pug keffiyeh. Sartorial tote bag leggings wolf art party humblebrag est brunch.

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My middle title

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Accordions and modals

```
<details>  
  <summary>Here is my title</summary>  
  <p>Here is my paragraph</p>  
</details>
```

▶ Here is my title

```
<details open>  
  <summary>Here is my title</summary>  
  <p>Here is my paragraph</p>  
</details>
```

▼ Here is my title
Here is my paragraph

```
summary::marker {  
  font-size: 1.5em;  
  content: '📧';  
}  
[open] summary::marker {  
  font-size: 1.5em;  
  content: '📧';  
}
```



Here is my title

```
summary:hover {  
  cursor: pointer;  
  background: deeppink;  
}
```

▶ Here is my title

```
<details name="set">
  <summary>this is item 1</summary>
  <p>Here is my paragraph</p>
</details>
<details name="set">
  <summary>this is item 2</summary>
  <p>Here is my paragraph</p>
</details>
```

▶ this is item 1

▶ this is item 2

<Dialog>

```
<dialog>
  <form method="dialog">
    <h1>This is a pretty dialog</h1>
    <button type="submit">Close</button>
  </form>
</dialog>
```



```
<button onclick="$$( 'dialog' ).showModal()">  
  Show the dialog  
</button>
```

Show modal

```
dialog::backdrop {  
  background: #fff5;  
  backdrop-filter: blur(4px);  
}
```

Show modal

🚩 Not in Firefox yet

```
dialog {  
  opacity: 1;  
  transform: scale(1);  
  transition: all 0.5s ease-in-out;  
  
  @starting-style {  
    opacity: 0;  
    transform: scale(0.8);  
  }  
}
```

Show modal



The Parent Selector

:has()

```

<fieldset>
  <legend>Which do you use?</legend>
  <label><input type="radio"> Bootstrap</label>
  <label><input type="radio"> Chakra</label>
  <label><input type="radio"> Tailwind</label>
  <label><input type="radio"> Materialize</label>
  <label>
    <input id="other" type="radio">
    Other
  </label>

  <input id="other-text">
</fieldset>

```

```

form #other-text {
  display: none;
}
form:has(#other:checked) #other-text {
  display: block;
}

```

Which do you use?

- Bootstrap
- Chakra
- Tailwind
- Materialize
- Other

Stop using JS...



in the future



```
input,  
textarea {  
  field-sizing: content;  
}
```

This is the content

This is the content

polypane.app/field-sizing

```
<select>
  <option>Option 1</option>
  <option>Option 2</option>
  <option>Option 3</option>
</select>
```

```
select,
::picker(select) {
  appearance: base-select;
}
```

Option 1 ▼


```
<select>
```

```
  <option value="Option 1">Option 1</option>
```

```
  <option value="Option 2">Option 2</option>
```

```
  <option value="Option 3">Option 3</option>
```

```
</select>
```

```
:open::picker(select) {  
  padding: 10px;  
  margin-top: 5px;  
  border: 5px solid dodgerblue;  
  border-radius: 20px;  
  width: 250px;  
  font-size: 1rem;  
  display: grid;  
}  
  
select option {  
  padding: 10px;  
  border-radius: 10px;  
  font-weight: bold;  
}
```

Option 1 ▼

Scroll driven animations

- ☒ E
- ☐ S
- ☐ F
- ☐ A



<https://scroll-driven-animations.style/demos/cover-flow/css/>



No more JS needed! 🎉



**...I hope you love CSS
and HTML now, too!**

ask me about Polypane

@kilianvalkhof | kilianvalkhof.com | polypane.app

