

Svelte

The future of FrontEnd Development

Agenda

- History of Frontend Development
- UX vs DX
- Current Status of Frontend
- Introducing to Svelte
- Components
- Micro-Workshop - Reactivity, Workflow, Composition
- Routing
- Fin

History of Frontend

Brief History of Frontend

— — —

The frontend development ecosystem has been in a constant churn since DHTML and ajax was introduced in the early 2000s. The browsers have gotten more powerful and feature rich. The complexity of the web has constantly grown by staggering amounts.

- AJAX
- Prototype
- MooTools
- JQuery
- Backbone
- Angular
- React
- Vue
- Svelte

Today

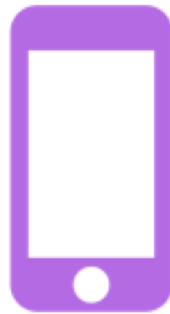


4 Billion People
Online

$\frac{1}{2}$ the world's population

Mobile is here!

The internet is mobile!



The result of this radical change, is that it is more complicated to develop for the web.

UX vs DX

There is an epic battle between UX and DX

Users want speed,
Developers want
productivity(sanity)



Current Status

=

Build Tools + Frameworks



Frameworks

webpack



babel



typescript



react



emotion



**a static
blog
with 3
posts**



**What if there was a
different approach?**

**What if there was a
way to achieve UX
and DX with a Fx?**

Introducing Svelte

Svelte

Cybernetically enhanced
web apps

<https://svelte.dev>



What if there was a framework that worked much like HTML, CSS, and Javascript in 1999?



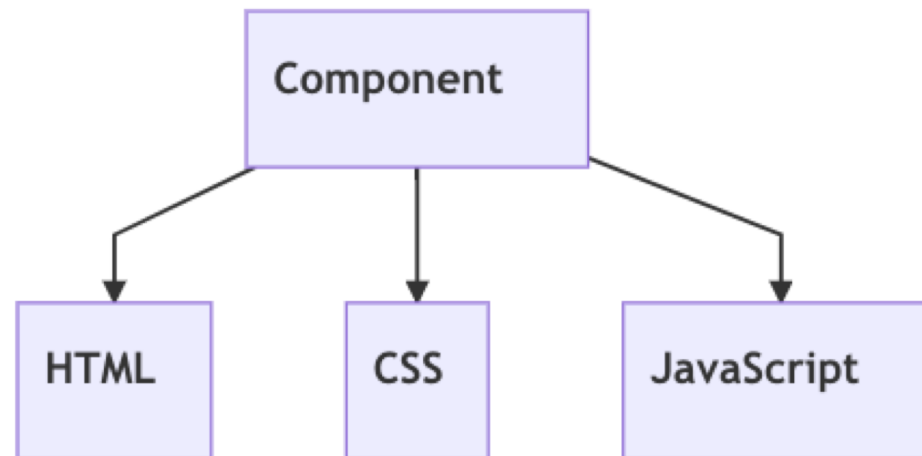
What do you mean like 1999?

HTML First Components

```
1 <div>
2   <h1>Welcome to {name}!</h1>
3   <p>Counter: {count}</p>
4   <button type="button" on:click={inc}>+</button>
5 </div>
6 <script>
7   let name = 'Svelte'
8   let count = 0
9
10  function inc () {
11    count += 1
12  }
13 </script>
14 <style>
15   h1 {
16     color: rebeccapurple;
17     font-family: Georgia;
18   }
19 </style>
```

<https://glitch.com/edit/#!/remix/svelte-talk-demo-1>

A Svelte Component is a HTML File with a twist



Components

Hello World


Component



```
1 <h1>Hello World</h1>
```

Hello

Component



```
1 <h1>Hello {name}</h1>
2 <script>
3   let name = 'World'
4 </script>
```

Styled Hello

Component

```
1 <h1>Hello {name}</h1>
2 <script>
3   let name = 'World'
4 </script>
5 <style>
6   h1 {
7     color: dodgerblue;
8   }
9 </style>
```

Counter

Component

```
1 <div>
2   <h1>Count {count}</h1>
3   <button on:click="{inc}">+</button>
4   <button on:click="{dec}">-</button>
5 </div>
6 <script>
7   // state
8   let count = 0
9
10  function inc () {
11    count += 1
12  }
13
14  function dec () {
15    count -= 1
16  }
17 </script>
```

Live Demos

Reactivity, Workflow, and Composition

Let's build a Movie
Search, to
demonstrate,
Reactivity, Workflow,
and Composition

<https://movies.twilson63.sh>

When finished our project should look like this.

<https://glitch.com/edit/#!/svelte-v3-movie-demo>

Getting Started Remix this App

Routing

page.js

yarn add page

```
1 <svelte:component this={page} />
2 <script>
3   import router from 'page'
4
5   import Start from './pages/Start.html'
6   import Page2 from './pages/Page2.html'
7   import About from './page/About.html'
8
9   let page = Start
10
11  router('/', () => page = Start)
12  router('/page2', () => page = Page2)
13  router('/about', () => page = About)
14
15  router.start()
16
17 </script>
```

The Best Part! - Got the need for speed!

Svelte compiles your code to vanilla js, this means it ships with no framework, it ships with optimized javascript ready to run! You get small bundles that are fast!

The movie search demo is 4.6K GZipped!

Resources

<https://svelte.dev>

Wait, There is more...

- Want Server-Side rendering solution?

Checkout Sapper - <https://sapper.svelte.technology/>

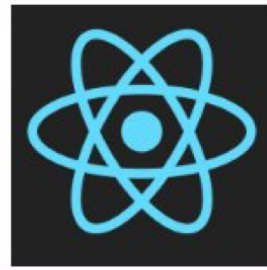
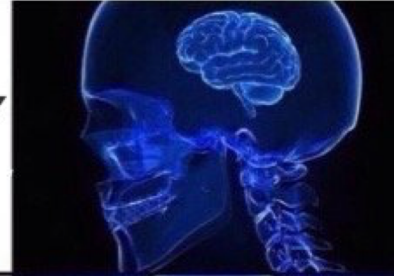
- Want mobile development?

Check out SvelteNative - <https://svelte-native.technology/>

- Join the Chat

<https://discord.gg/yy75DKs>

 **jQuery**
write less, do more.





Thank you!!

Other Reading/Listening Material

<https://medium.com/@Holben/why-sveltejs-may-be-the-best-framework-for-new-web-devs-df9300a26ec2>

<https://github.com/sveltejs/rfcs/tree/master/text>

<https://svelte.technology/blog/svelte-on-the-changelog>

<https://www.listennotes.com/podcasts/shoptalk-podcast/349-talking-svelte-with-rich-od-asw57IHJ/>

<https://twitter.com/sveltejs>

Why should I learn Svelte?

- Great for Beginners
- Ok, I am going to learn Svelte, how can I leverage this new skill if my place of work requires ___ Framework.
 - Personal Projects
 - Prototypes, proof of concepts
 - Shared Reusable Components
- Looking at different ways at solving problems will make you a better developer.
- Other questions?