

Svelte &
SvelteKit

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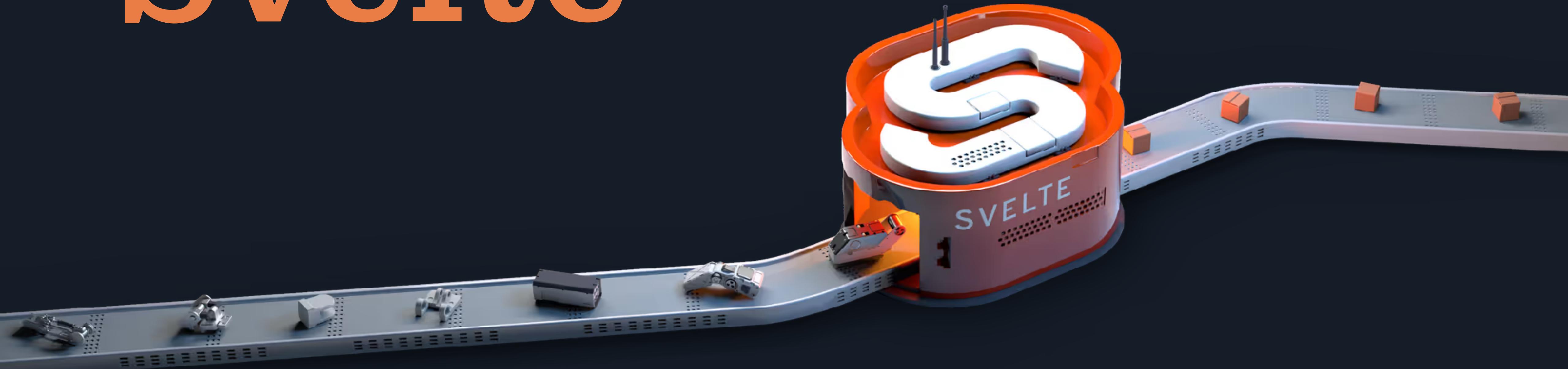
1. Svelte

2. SvelteKit

3. Live Coding

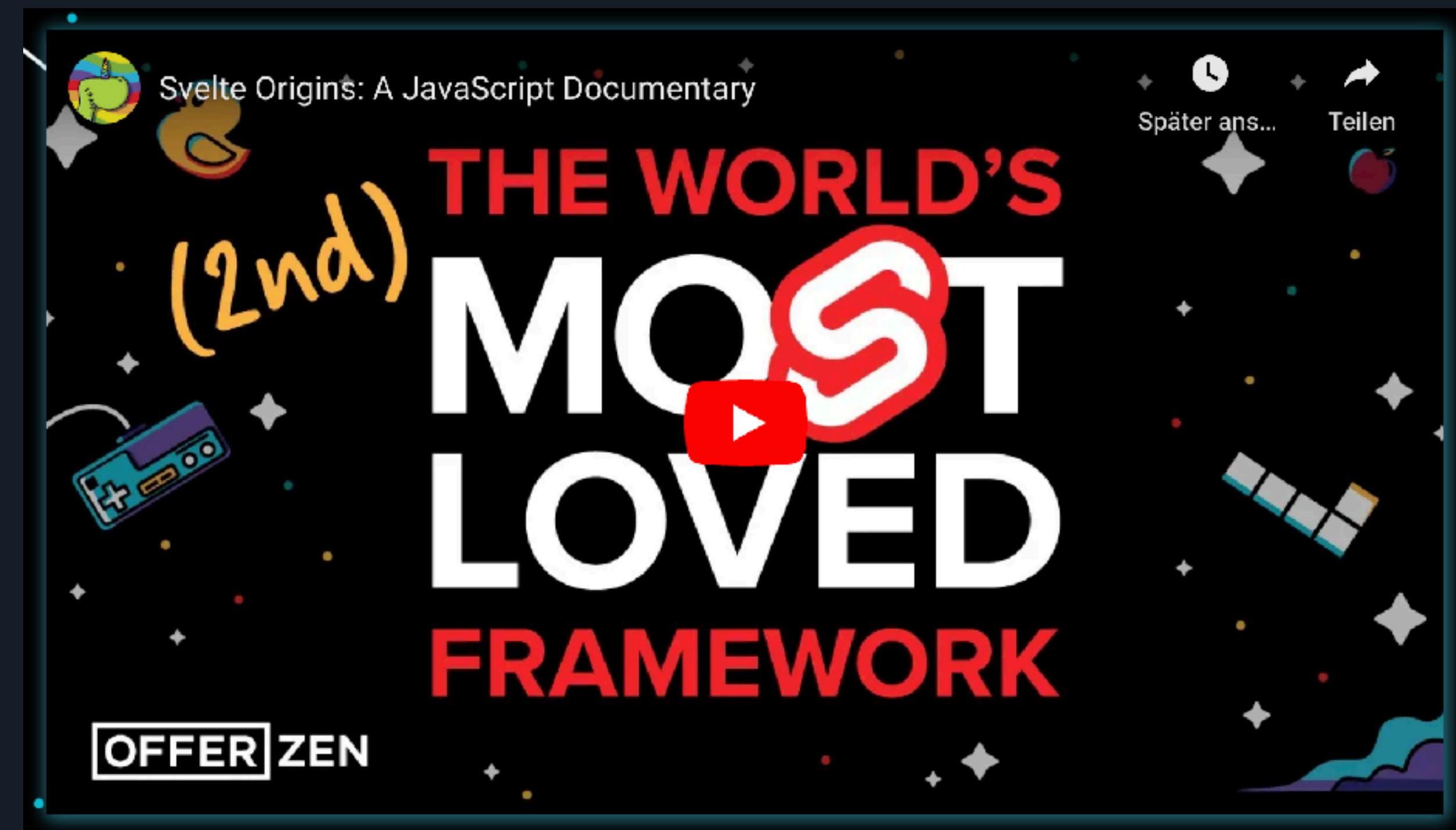
4. Questions

Svelte



What is Svelte?

offerzen.com/community/svelte-origins-documentary



A tool for building web components

- Single file components
- Built-in scoping for real CSS
- Reactivity and bindings
- Animations & transitions
- No additional runtime code

what's a
runtime?

Virtual DOM?

Manual DOM manipulation

Vanilla JS & jQuery

Virtual DOM

- React
- Vue
- Glimmer VM (used in Ember)

Real DOM.

But *automatic!*

1. Write HTML, CSS & JS with Svelte flavoring
2. Compile to DOM nodes & vanilla code
3. There is no extra step.

Done

Svelte Components

HTML is fine

< p > Hello INSERT_NAME_HERE </ p >

```
<input type="text" />  
<p>Hello INSERT_NAME_HERE</p>
```

CSS *is fine*

```
<input type="text"/>  
  
<p>Hello INSERT_NAME_HERE</p>  
  
<style>  
  p { color: rebeccapurple; }  
</style>
```

*JavaScript is fine**

```
<script>  
  let name = 'INSERT_NAME_HERE';  
</script>
```

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

```
<p>Hello INSERT_NAME_HERE</p>
```

```
<style>  
  p { color: rebeccapurple; }  
</style>
```

Svelte syntax

```
<script>  
  let name = 'INSERT_NAME_HERE';  
</script>
```

```
<input type="text" bind:value={name} />  
{#if name}  
  <p>Hello {name}!</p>  
{/if}
```

```
<style>  
  p { color: rebeccapurple; }  
</style>
```

```
<script>  
  export let name = 'INSERT_NAME_HERE';  
  
  $: {  
    console.log(`Hello ${name}!`);  
  }  
  
  $: lowercased = name.toLowerCase();  
</script>  
  
...  
<p>Hello {lowercased}</p>
```

Reactive Stores

```
<script>

  import { writable } from 'svelte/store';

  export const count = writable(0);

  function increment() {
    count.update((n) => n + 1);
  }

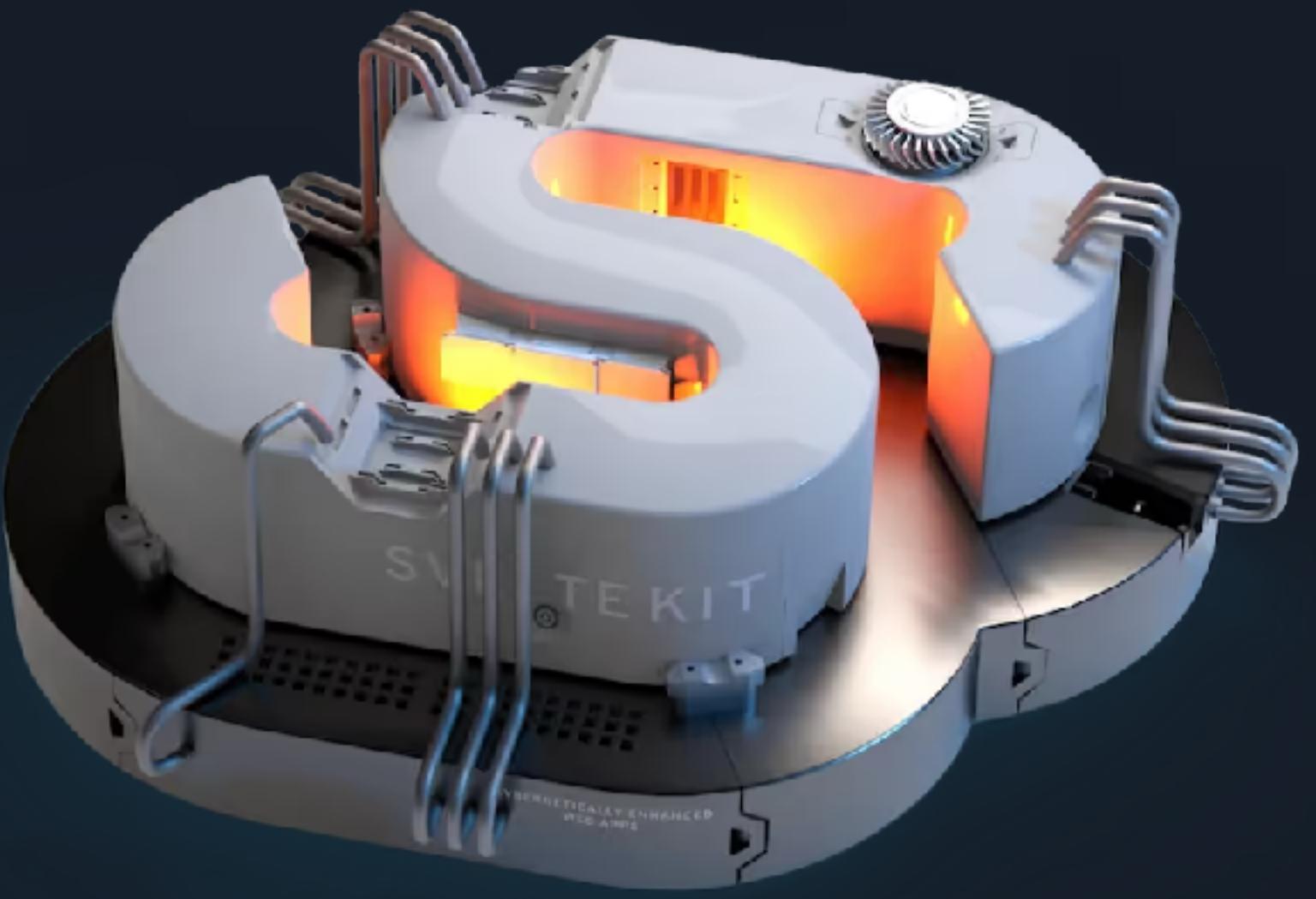
</script>
```

```
<h1>The count is {$count}</h1>
<button type="button" on:click={increment}>+</button>
```

Summary

- Regular HTML, CSS, JavaScript
- Little additional syntax for logic
- Built-in Reactivity
- Compiled to plain JavaScript

SvelteKit



**SPA,
MPA,
SSR,
& SSG.**

- Single-Page Applications
- Multi-Page Applications
- Server-Side Rendering
- Static Site Generation

A bit like Next.js

If you're familiar with React.

A bit like Nuxt

If you're familiar with Vue.

But less work!

- Opinionated: Less configuration
- Fast: Setup, development workflow, build times, page loads, render times, navigation, deploy times
- Adapters for many deploy targets
- Fast

- Vite
- File-based Routing for Server *and* Client
- Data loading and streaming
- Form actions*
- Server-only functions*

More!

- Comprehensive documentation
- Interactive tutorials
- REPL: svelte.dev
- Built-in testing setup: Playwright and Vitest
- Very kind and helpful community

Demotime!

Disclaimer Time

*While I work with Svelte most days,
I'm still learning.*

~~1. Build a simple component~~

~~2. Build stuff~~

~~3. Built an app~~

~~4. Disable JavaScript~~

Questions?

<https://svelte.dev>

<https://kit.svelte.dev>

Thanks!



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