Svelte

Svelte is a free and open-source front end compiler[4] created by Rich Harris and maintained by the Svelte core team members.[5] Svelte applications do not include a framework script. Instead, building a Svelte application generates the necessary code to manipulate the DOM within each component, which may reduce the size of transferred files and give better client startup and run-time performance. Svelte has its compiler for converting app code into client-side JavaScript at build time. It is written in TypeScript,[6][7] unlike the traditional frameworks (React and Vue), which carry out the bulk of their work in the *browser*; meanwhile, Svelte shifts that work into a *compile step* that happens when an app is built.[8] The Svelte source code is licensed under MIT License and hosted on GitHub.[9]

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Svelte	
Original author(s)	Rich Harris
Initial release	November 26, 2016[1]
Stable release	3.46.4[2] ✏ / 3 February 2022
Repository	Svelte Repository (https://github.com/sveltejs/svelte)
Written in	TypeScript
Platform	Web platform
Size	4.1 KB[3]
Type	Web framework
License	MIT License
Website	svelte.dev (https://svelte.dev/)

History

The predecessor of Svelte is Ractive.js, which Rich Harris had developed earlier.[10]

Version 1 of Svelte was written in JavaScript and was released on 29 November 2016.

Version 2 of Svelte was released on 19 April 2018.

Version 3 of Svelte is written in TypeScript and was released on 21 April 2019.

The SvelteKit web framework was announced in October 2020 and entered beta in March 2021.[11][12]

Example

Svelte applications and components are defined in `.svelte` files, which are HTML files extended with templating syntax that is similar to JSX. Svelte repurposes JavaScript's native labeled statement syntax `$:` to mark reactive statements. Top-level variables become the component's state and exported variables become the properties that the component receives.

```
<script>
    let count = 1;
    $: doubled = count * 2;
</script>

<p>{count} * 2 = {doubled}</p>

<button on:click={() => count = count + 1}>Count</button>
```

Associated projects

The Svelte maintainers created SvelteKit as the official way to build projects with Svelte. The Svelte maintainers also maintain a number of integrations for popular software projects under the Svelte organization including integrations for Vite, Rollup, Webpack, TypeScript, VS Code, eslint, prettier, and more.[13]

Sapper (predecessor of SvelteKit) is a Next.js-style framework that dramatically reduces the amount of code that gets sent to the browser.[14]

Influence

Vue.js modeled its API and single-file components after Ractive.js, the predecessor of Svelte.[10]

Adoption

Svelte is widely praised by developers. Taking the top ranking in multiple large scale developer surveys, it was chosen as the Stack Overflow 2021 most loved web framework[15] and 2020 State of JS frontend framework with the most satisfied developers.[16]

Svelte has been adopted by a number of high-profile web companies including The New York Times, Apple, Spotify, Square, Rakuten, Bloomberg, Reuters, Ikea, Facebook, and Brave.[17][18][19]

A community group of non-maintainers run the Svelte Summit conference, write a Svelte newsletter, host a Svelte podcast, and host a directory of Svelte tooling, components, and templates.[20]

See also

- JavaScript framework
- HTML
- Cascading Style Sheets
- Comparison of JavaScript frameworks
- React (web framework)
- Vue.js
- JavaScript library

References

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External links

- Svelte (https://svelte.dev/)

- GitHub - sveltejs/svelte (https://github.com/sveltejs/svelte)
- Svelte tutorials at MDN (https://developer.mozilla.org/en-US/docs/Learn/Tools_and_testing/Client-side_JavaScript_frameworks#Svelte_tutorials)
- Svelte reference documentation (https://svelte.dev/docs)

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