

Svelte Snowpack Shoelace

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DevOps & Backend

Svelte

- No virtual DOM
- Compiler...magic disappearing framework
- Quick and easy to learn, esp. for beginners
- You see it used it in New York Times web site, where Svelte creator, Rich Harris works

Snowpack

- Develop faster, with a dev server that starts up/HMRs in 50ms or less.
- See changes reflected instantly in the browser.
- Integrate your favorite bundler for a production-optimized build.
- Enjoy out-of-the-box support for TypeScript, JSX, CSS Modules and more.
- Connect your favorite tools with third-party plugins.

Shoelace

- A forward-thinking library of web components.

Ionic

- An open source mobile UI toolkit for building high quality, cross-platform native and web app experiences.

Svelte Features

- No virtual DOM means it's easier to interface to JS packages that touch the DOM (I'm looking at you, D3)
- Typescript support (good and getting better)
- Syntax and semantics
- Write less code



Rankings

Export

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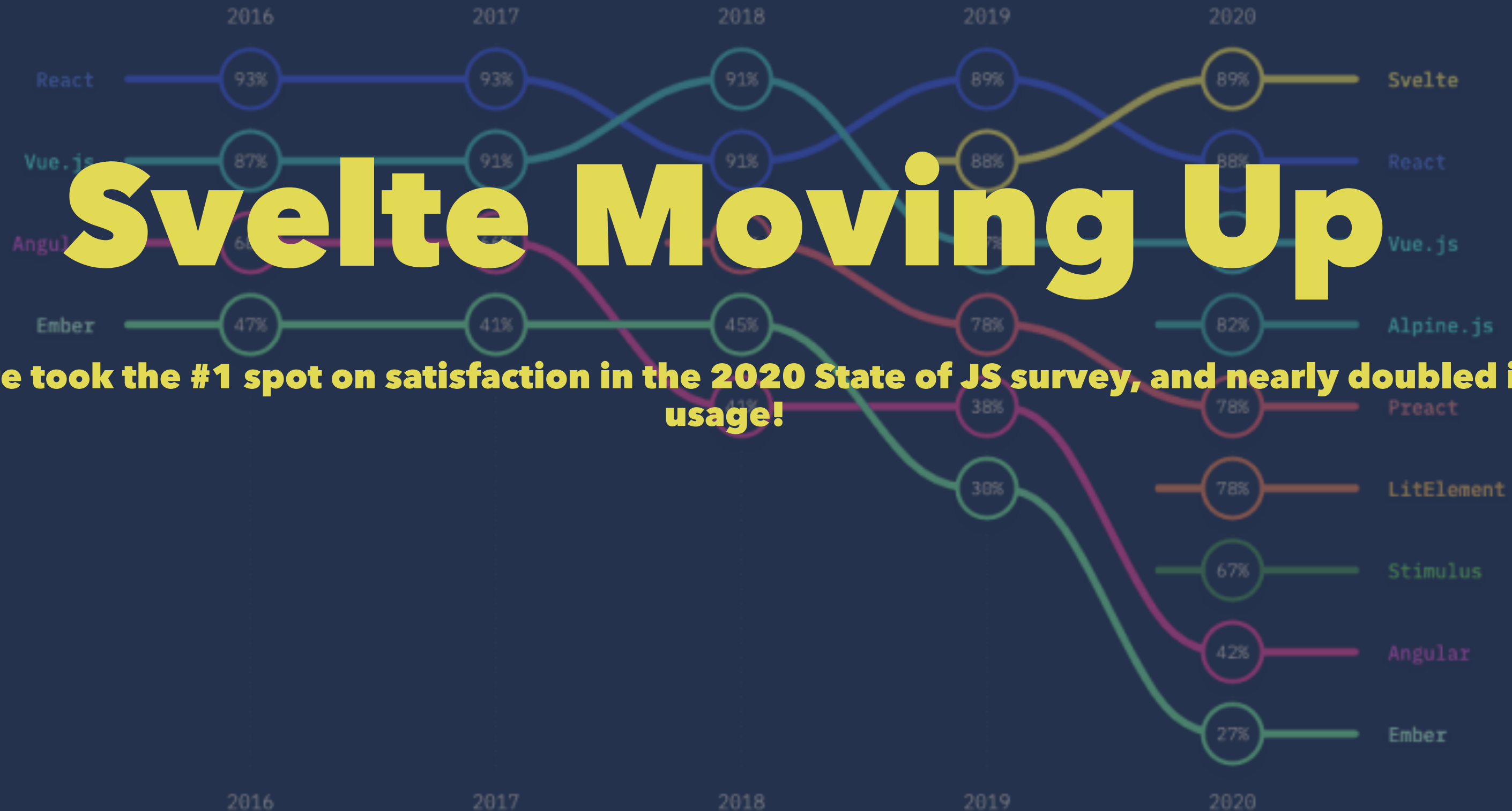
Satisfaction

Interest

Usage

Awareness

Satisfaction, interest, usage, and awareness ratio rankings.



Svelte Moving Up

Svelte took the #1 spot on satisfaction in the 2020 State of JS survey, and nearly doubled in usage!

Svelte Features (more)

- Compiler does a lot of work for you
- Great performance
- Feels straightforward
- Aligns with the web platform
- Built in store support
- Scoped CCS styling
- Built in `svelte-head` component

Svelte Issues?

- Compilers moves the complexity, harder to debug when stuck
- Reactive syntax is for components only, but you can easily use svelte stores
- Rendering blocks the main thread (as do others)

Svelte Potential drawbacks?

- Semi-immature tools, but skyrocketing interest on github
- Best practices are still evolving
- Young library ecosystem
- Fewer jobs today
- It's a volunteer effort (as is Vue, etc.)

Syntactic Sugar for Reactivity

Like a spreadsheets for UI

- reactive assignments
- reactive declarations
- reactive statements
- Reactive Debugger

More Syntactic Sugar

- declaring props
- store auto subscriptions, rxjs **observable** compatible
- transitions
- event forwarding, alternative to prop handler drilling
- optional two-way binding, makes forms simple!

Batteries Included

From: Why I Enjoy Svelte

- Transitions: `transition:fn` and `in:fn/out:fn` vs React Transition Group
- Animations: `animate:fn` vs React Spring/Framer Motion
- Static Scoped Styling: `<style>` vs Linaria/AstroTurf/Styled-Components + Babel Plugin
- Head management: `<svelte:head>` vs react-helmet/react-async-helmet

Demo: A Few Feature examples

Intro

2 Way Binding

Directive shortcuts

Scoped CSS

DOM Event Modifiers

Loop "else" clause

Transitions

Slot props and the let:variable directive

Demo: *Snowpack* with *Svelte*







Demo Code

- simple
- tailwind
- shoelace

Snowpack

- ES Modules
- Super fast dev - update as you type
- You may have odd issues with some older NPM packages
- HMR - Hot Module Reloading

Shoelace: Their words

- Works with all frameworks 
- Works with CDNs 
- Fully customizable with CSS 
- Includes an official dark theme 
- Built with accessibility in mind 
- Open source 

Shoelace

- Modern web component ui components
- Fast, easy to style, lazy loaded
- Focus on accessibility, theming, dark mode
- Uses modern web tech:
 - Web components
 - CSS part styling
 - Constraint Validation API

UI Libs for Svelte

- Tailwind CSS
- Material UI Web Components
- Framework7 & Framework7 Svelte
- Svelte Native
- Bootstrap, MUI and other variants exist

Resources: Svelte

- [Svelte Docs](#)
- [Svelte REPL Tutorial](#)
- [Why Svelte](#)
- [Svelte Intro](#)
- [Svelte Quick Start](#)
- [Why I Enjoy Svelte](#)
- [7 Svelte features that bring me joy](#)

More Resources: Svelte

- [React Hooks vs Svelte](#)
 - [Blog Entry](#)
- [Joy of Svelte](#)
- [Front End Masters](#)
- [Tommertom/svelte-ionic-app](#)
- [Awesome Svelte](#)

Svelte Repls

- [Svelte & Shoelace](#)
- [Svelte & Ionic](#)
- [Svelte & Ionic/Shoelace](#)
- [Examples](#)

Resources: *Snowpack*

- [Snowpack Docs](#)

Resources: Shoelace & Ionic

- [Shoelace Web Components](#)
- [More Shoelace Info](#)
- [Shoelace Intro](#)
- [Ionic](#)
 - [also easy to use with Svelte](#)
- [Shoelace, Ionic & Svelte](#)

Thanks!

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