## Overview of Current Frontend ecosystem



- 1. <a href="https://2020.stateofjs.com/en-US/technologies/front-end-frameworks/">https://2020.stateofjs.com/en-US/technologies/front-end-frameworks/</a>
- 2. https://www.npmtrends.com/@angular/c ore-vs-angular-vs-react-vs-vue

## React are half as JQuery



Want to feel old? ReactJS was released May 29, 2013, or 2468 days ago.

JQuery was released August 26, 2006, or 2468 days before React was released.

That's right. React has been around as long as JQuery was when React came out.

https://twitter.com/ralex1993/status/1234165541805281280

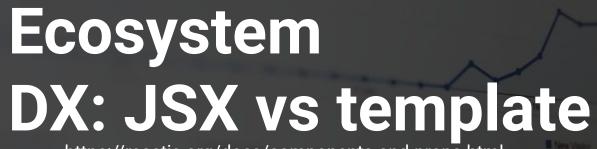
## Complexity

## Perf

https://krausest.github.io/js-framework-benchmark/index.html

## Size

https://medium.com/dev-channel/a-netflix-web-performance-case-study-c0bcde26a9d9



https://reactjs.org/docs/components-and-props.html

https://github.com/gothinkster/vue-realworld-example-app/blob/mast er/src/components/VPagination.vue

## Timing

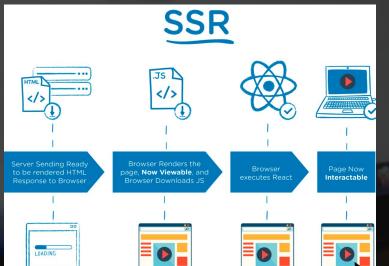
https://www.npmtrends.com/express-vs-koa-vs-fastify

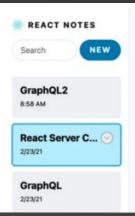
## What's news

 Pre-compile framework: svelte, solidjs Svelte: https://svelte.dev/

Solidjs: <a href="https://www.solidjs.com/">https://www.solidjs.com/</a>

2. Streaming

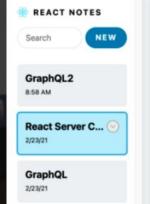






To introduce React Server Components, we have prepared a talk and a demo. If you want, you can check them out during the holidays, or later when work picks back up in the new year.

EDIT







- 1. PostCSS: SASS, LESS
- 2. CSS-in-JS: Styled-Components, Emotions
- 3. Utility: Tailwind CSS

# Scope, DX, type check,tree shaking

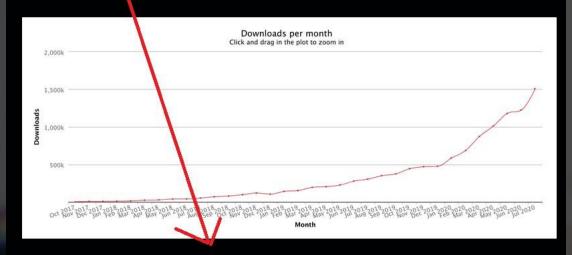
https://2021.stateofcss.com/en-US/technologies

Tailwind: https://tailwindcss.com/

#### <u>Tailwind CSS:</u> From Side-Project Byproduct to Multi-Million Dollar Business

This was originally posted as a **thread on Twitter**, but I thought I'd republish it here to give it a proper home.

So about a month or so ago, Tailwind cracked 10 million total installs, which given its humble beginnings, completely blows my mind.



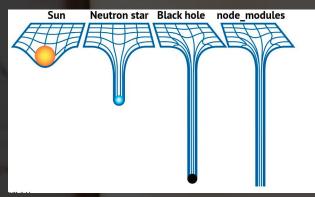
We're also about to cross \$2 million in revenue from <u>Tailwind UI</u>, our first commercial Tailwind CSS product which was released about 5 months ago — a



## 3. package manager

- 1. npm
- 2. yarn
- 3. pnpm

https://www.npmtrends.com/npm-vs-yarn-vs-pnpm



#### Project structure

- Work space

#### Web Team repos:

- web-client
- rolo-conference
- rolo-ui
- icons

#### corepack

https://nodejs.org/api/corepack.html



Min Valor B have

#### Behind the scenes of 1Password for Linux

- https://dteare.medium.com/behind-the-scenes-of-1password-for-linux-d59b19143a23

- File stats: 7,528 files, 1,038,929 lines total, 813,514 lines of code, 161,095 comments
- Start date: ~18 months ago for Linux; Rust experiments started earlier
- Date of first commit that mentions Linux: Dec 17, 2019
- Total commits since Dec 17: 40,575
- Merge requests: 7,365
- Issues created: 7,529 (assume each and every one was fixed and closed 😌)
- CI/CD: 183,905 pipelines, 1,74 5% success ratio)
- How many Node package managers does it take to create an app? 3.5! During
  development we switched from <u>npm</u> to <u>yarn</u> to yarn 2 and then to <u>pnpm</u>.
- Usability testing: 39 1-on-1 sessions with both new and long-time users

### 4. Bundler

- Webpack
- Parcel
- esbuild, vite,

## DX, Perf







## Gap PWA SUMMIT 2021







Capable

Reliable

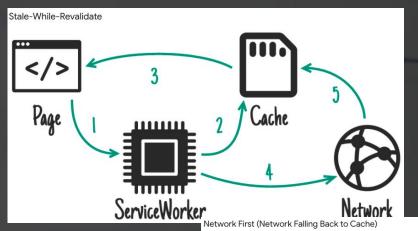
Installable

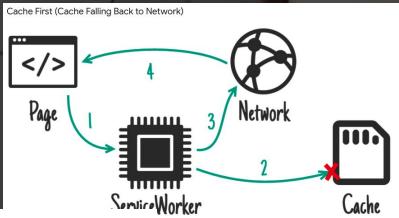


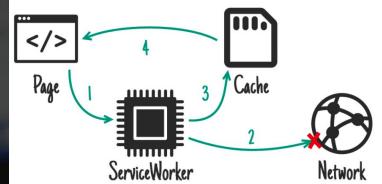
- File System Access
- Service worker

https://www.youtube.com/watch?v=VI1BUNbPKqA

### Service worker, strategy







https://developers.google.com/web/ tools/workbox/modules/workbox-str ategies

https://squoosh.app/

https://twitter.com/search?q=webpack%20after&src=typed\_query&f=image





## 6. Webassembly

Myth1: Webassembly is for Web Myth2: Webassembly will replace JS

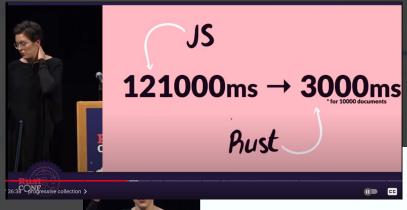


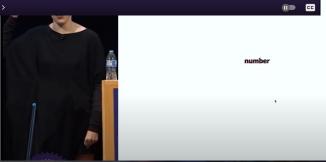
#### Solomon Hykes @solomonstre

If WASM+WASI existed in 2008, we wouldn't have needed to created Docker. That's how important it is. Webassembly on the server is the future of computing. A standardized system interface was the missing link. Let's hope WASI is up to the task!

#### For JS Develop

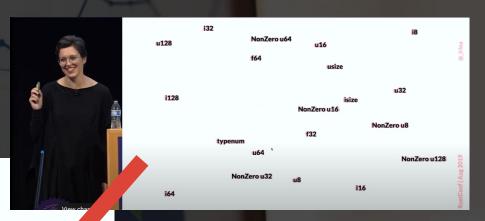
- RustConf 2019 From Electron, to Wasm, to Rust (Aaand Back to Electron) by Irina Shestak
  - https://www.youtube.com/watch?v=Yo83yhRN\_Ss







- https://github.com/GoogleChromeLabs/squoosh



Cloudflare - workers https://developers.cloudflare.com/workers

https://developers.cloudflare.com/workers/learning/how-workers-works

https://en.wikipedia.org/wiki/V8\_(JavaScript\_engine)