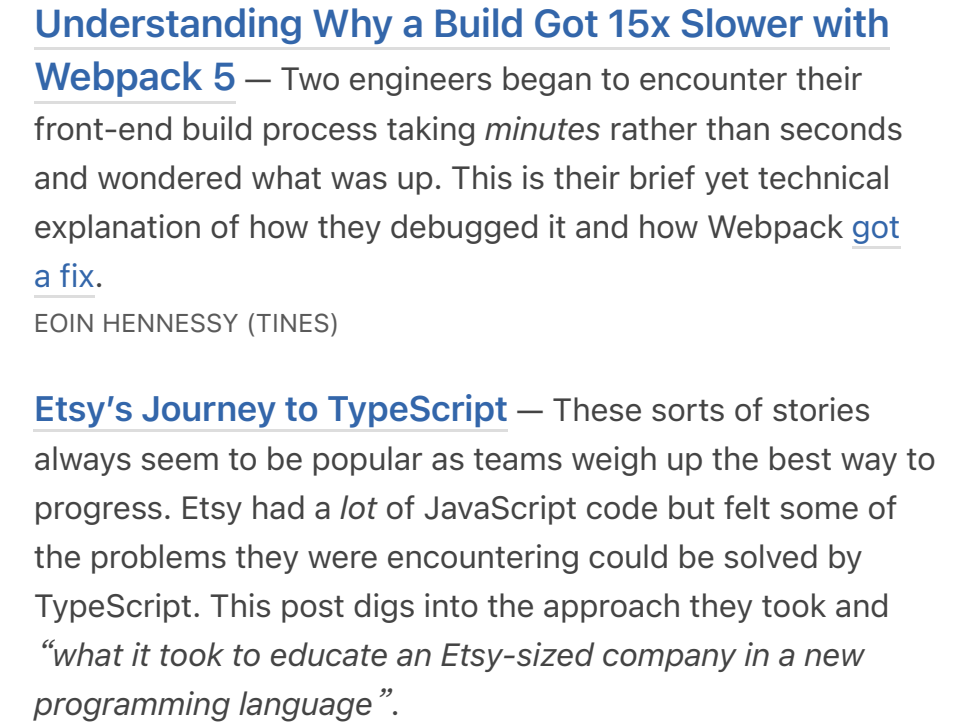


JavaScript Weekly



Understanding Why a Build Got 15x Slower with Webpack 5

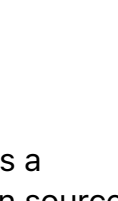
— Two engineers began to encounter their front-end build process taking *minutes* rather than seconds and wondered what was up. This is their brief yet technical explanation of how they debugged it and how Webpack [got a fix](#).

EOIN HENNESSY (TINES)

Etsy's Journey to TypeScript — These sorts of stories always seem to be popular as teams weigh up the best way to progress. Etsy had a *lot* of JavaScript code but felt some of the problems they were encountering could be solved by TypeScript. This post digs into the approach they took and “*what it took to educate an Etsy-sized company in a new programming language*”.

SALEM HILAL

Video API Built to Create Stunning Visual Experiences



— Are videos impacting your page's load time? Now, deliver optimized videos in the right format, quality & size based on the user's device in real-time. Delivering stunning visual experiences just got simpler, Try ImageKit's forever-free plan today.

IMAGEKIT.IO

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Some Notes on Using 'esbuild' — Julia Evans’ walk into the world of JavaScript bundling will be of immediate interest to anyone who’s been doing JavaScript since pre-bundling times, and it digs well into how an experienced developer unfamiliar with [esbuild](#) interprets what it really does.

JULIA EVANS

TypeScript 4.5 Released — Just two weeks after the RC comes the final release. What’s new? The formerly promised ES module support for Node is now [merely experimental](#) and in nightly releases only, but you also get the [Awaited](#) type, tail recursion elimination on conditional types, and naturally *much more*.

DANIEL ROSENWASSER (MICROSOFT)

React 18 Enters Beta Stage

— ..but as the official Twitter account [explains in a thread](#): “*Most developers don’t need to think about React 18 yet..*” while noting they’re keen for people to try it out and leave feedback on the issue tracker.

The final release is due in Q1 2022.

REACT WORKING GROUP

IN BRIEF:

- **Kent C Dodds has joined** the Remix team – [Remix](#) is a promising looking framework being unveiled as open source next Monday (you can learn [more of what it's about here](#)).
- If you're into (or interested) in serverless platforms, [Cloudflare Workers](#) has had a *huge* week with [a beta of v2](#) of its popular Wrangler developer tools, its [Durable Objects storage system](#) going GA, and a new [Services abstraction](#) to easier build composable apps. Oh, and Workers now [supports ES modules too](#).
- The main npm registry, now run by GitHub, [had a big security flaw](#) where attackers had the theoretical potential to 'publish new versions of any npm package' without proper authorization. Ouch.
- [Ember 4.0](#) has been released.. maybe: it's not on their official blog or Twitter yet. More info [on their v4 process here](#).
- Netlify has [raised \\$105M](#) to double down on the Jamstack ecosystem and, hopefully, to increase Cassidy Williams' whimsy budget 😊

RELEASES:

Tagify 4.9 – Elegant input component for tags.

Vuetify 2.6 – Material Component Framework for Vue.

execa 6.0 – A better Node process launcher.

Plottable 3.12.0 – Modular chart components on D3.

Teaful 0.8 – Tiny React state library.

Dann.js 2.4 – Neural network library.

Electron.js 16

Jobs

JavaScript Developer at X-Team (Remote) — Join the most energizing community for developers and work on long-term projects for Riot Games, FOX, Sony, Coinbase, and more.

X-TEAM

Mid/Senior Software Engineer at Carbon Five (LA / SF / NYC / CHA) — Join our team of creative full-stack devs to work with exciting clients in tech. Great benefits, growth opps, caring team & more.

CARBON FIVE

Find JavaScript Jobs with Hired — Create a profile on Hired to connect with hiring managers at growing startups and Fortune 500 companies. It's free for job-seekers.

HIRED

Tutorials, Opinions & Stories

```
// rotate the box
useFrame((state, delta) => {
  mesh.current.rotation.x = mesh.
});
// draw the box
return (
  <mesh {...props} ref={mesh}>
    <boxGeometry args={[1, 1, 1]}
    <meshStandardMaterial color="
  </mesh>
);
```

How to Build Stunning 3D Scenes with React Three Fiber

— If you want to build neat 3D visualizations in the browser using the React concepts you’re already familiar with, here’s how to get started. A great intro.

VARUN VACHHAR

Powerful Command Line Tools for Modern Web Development

— What’s your favorite command-line tool? In this post, Louis shares a collection of relevant command-line apps and utilities that he has personally come across in the past few years.

LOUIS LAZARIS

Migrating from Puppeteer to Playwright

— [Puppeteer](#) is a popular Node library to remote control Chrome/Chromium browsers, whereas [Playwright](#) is a little broader and newer. This post digs through what you need to consider if you switch between the two.

CHECKLY

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Using Web Workers to Boost Third-Party Script Performance

— A look at [Partytown](#), a still experimental library that aims to improve third-party script performance using Web Worker technology.

AREK NAWO

How to Debounce and Throttle Callbacks in Vue

— How to debounce and throttle watchers and event handlers in Vue components.

DMITRI PAVLUTIN

Detecting Objects with Serverless, Twilio Video, and TensorFlow.js

LIZZIE SIEGLE (TWILIO)

Code & Tools

```
// Find some old friends
const oldFriends = await db.friends
  .where('age').above(75)
  .toArray();
```

Exie.js 3.2: The IndexedDB Wrapper is Now Reactive

— Exie provides a well thought out wrapper around the IndexedDB API offered by most mainstream browsers and now it integrates even better with reactive UI libraries too. The [homepage](#) has had a facelift too and includes framework specific examples.

DAVID FAHLANDER

Electron 16.0.0 Released — [Electron](#), the toolkit for building cross platform desktop apps with JavaScript, is now one of those projects with a fast, regular release cadence, so no *huge* changes here, but you get Chrome 96, Node 16.9.1 and V8 9.6 support, as well as the [WebHID API](#).

OPENJS FOUNDATION

App Performance Blocked By Your Database? — PolyScale provides a plug-and-play database edge cache. Scale globally in minutes without writing code.

POLYSCALE.AI

MicroDiff: Lightweight, No Dependency Object and Array Comparison — Given two objects or arrays, it returns the differences. Boasts high performance and TypeScript support.

ASYNCBANANA

React Location: A New 'Enterprise-Grade' React App Router — An effort which got its start “as a wrapper around the long-winded [React Router] v6 beta release” has spun off as a standalone project of its own.

TANNER LINSLEY

browser-or-node 2.0: Figure Out Where Your Code is Running — Provides a simple way to tell if your code is currently running in a browser, in Node, in a Web Worker, or in Deno.

DINESH PANDIYAN

Free Activity Feeds & Chat APIs for Qualifying Teams

STREAM

Geodesy Functions Implemented in JavaScript v2.3.0 — Geodesy is the science of measuring the earth, its shape, distances, etc. If you have a need to work with such concepts, these examples will be useful.

CHRIS VENESS

μPlot 1.6: Fast, Tiny, Canvas-Based Time Series Chart Library

LEON SOROKIN

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