

Environment Set Up



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▶ React Starter Projects

These are repositories that you copy and modify to create your own React app. Pick a starter project with all the features you need, and none that you don't.

To get started with most of these, you would clone the repository and then start making modifications.

Other starters are installed rather than copied: they become a dependency of your project. These [dependency starters](#) make it easier to get updates and they keep your project directory cleaner (because much of the code is wrapped in the dependency).

filter projects

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AGE

198 Projects

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Option: Build a Dev Environment

Why?

- 1. Understand how it all works**
- 2. Learn how to customize your dev environment**



Building Applications with React 18 and Redux

by Cory House

Learn how to use React, Redux, React Router, and modern JavaScript to build an app with React. Use Webpack, Babel, Jest, React Testing Library, and more to build a custom React development environment and build process from the ground up.

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These exercise files are intended to provide you with the assets you need to create a video-based hands-on experience. With the exercise files, you can follow along with the author and re-create the same solution on your computer.

[Download exercise files](#)

Want to skip the environment setup?
Use the “after” folder in
“03-environment setup”

Course author



Cory House

Cory is an independent consultant with over 15 years of experience in software development. He is the principal consultant at reactjsconsulting.com and a Microsoft MVP.

Course info

Level Intermediate

Rating ★★★★ (2071)

My rating ★★★★

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Our Dev Environment



Compile JSX

Transpile JS

Linting

Generate index.html

Reload on save

One command!



The Plan



Build development environment

- Node
- Webpack
- Babel
- ESLint
- npm Scripts





Run JavaScript Everywhere

Node.js® is a free, open-source, cross-platform JavaScript runtime environment that lets developers create servers, web apps, command line tools and scripts.

[Download Node.js \(LTS\)](#) [Create an HTTP Server](#) [Write Tests](#) [Read and Hash a File](#)

```
1 // server.mjs
2 import { createServer } from 'node:http';
3
4 const server = createServer((req, res) => {
5   res.writeHead(200, { 'Content-Type': 'text
6   res.end('Hello World!\n');
7 });
8
9 // starts a simple http server locally on po
10 server.listen(3000, '127.0.0.1', () => {
11   console.log('Listening on 127.0.0.1:3000')
12 });
13
14 // run with `node server.mjs`
```

Run at least Node 18.

Need to run multiple versions of Node? Two options:

- 1. Install the latest Node for this course, then reinstall your old version when you're done.**
- 2. Try nvm on Mac or nvm-windows on Windows.**

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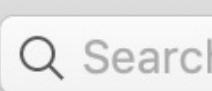
Level Intermediate

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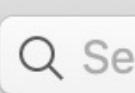
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03-environment-setup



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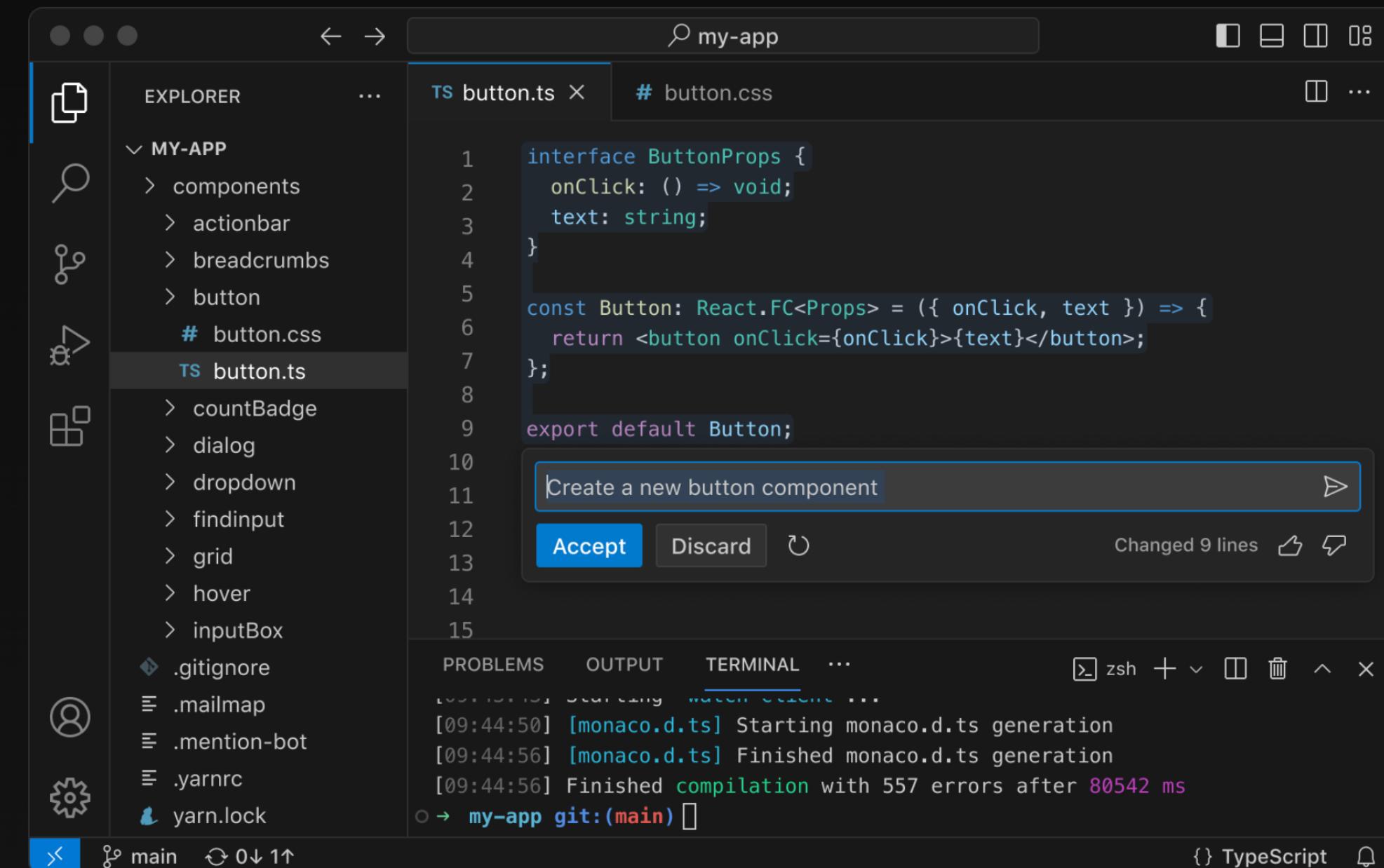
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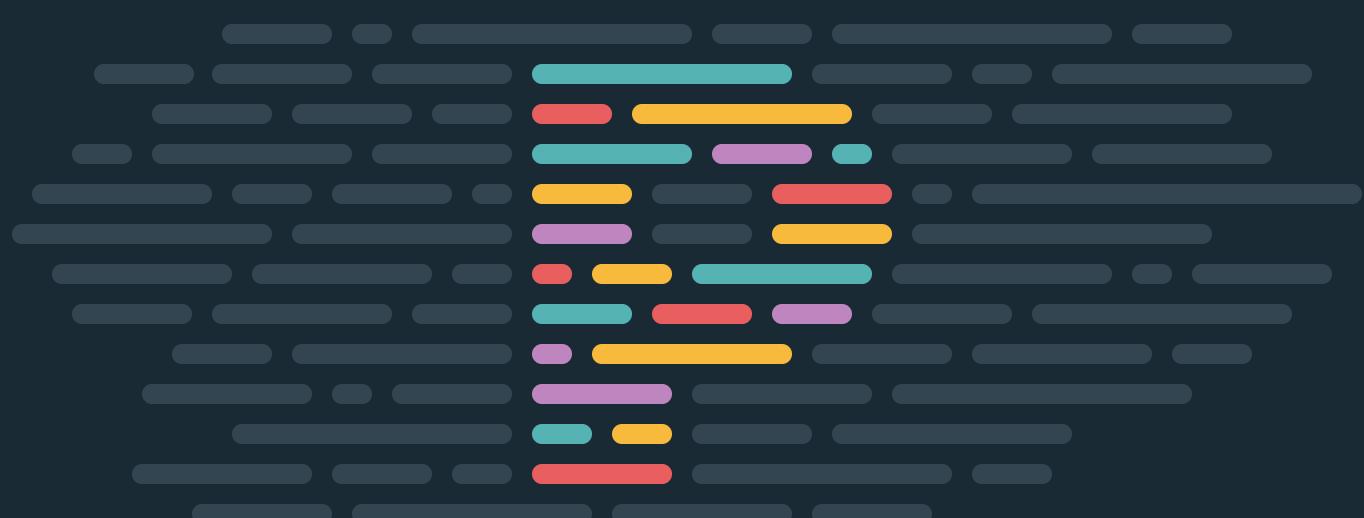
Code Editing. Redefined.

Download for macOS

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By using VS Code, you agree to its [license](#) and [privacy statement](#).



[TRY IT OUT](#)[GET STARTED](#)[OPTIONS](#)

What is Prettier?

- * An opinionated code formatter
- * Supports many languages
- * Integrates with most editors
- * Has few options

Why?

- * You press save and code is formatted
- * No need to discuss style in code review
- * Saves you time and energy
- * And more

Works with the Tools You Use



ES2017
JSX
Flow
TypeScript
JSON



HTML5
Vue
Angular



CSS3+
Less
SCSS
styled-components
styled-jsx



GraphQL
GraphQL Schemas



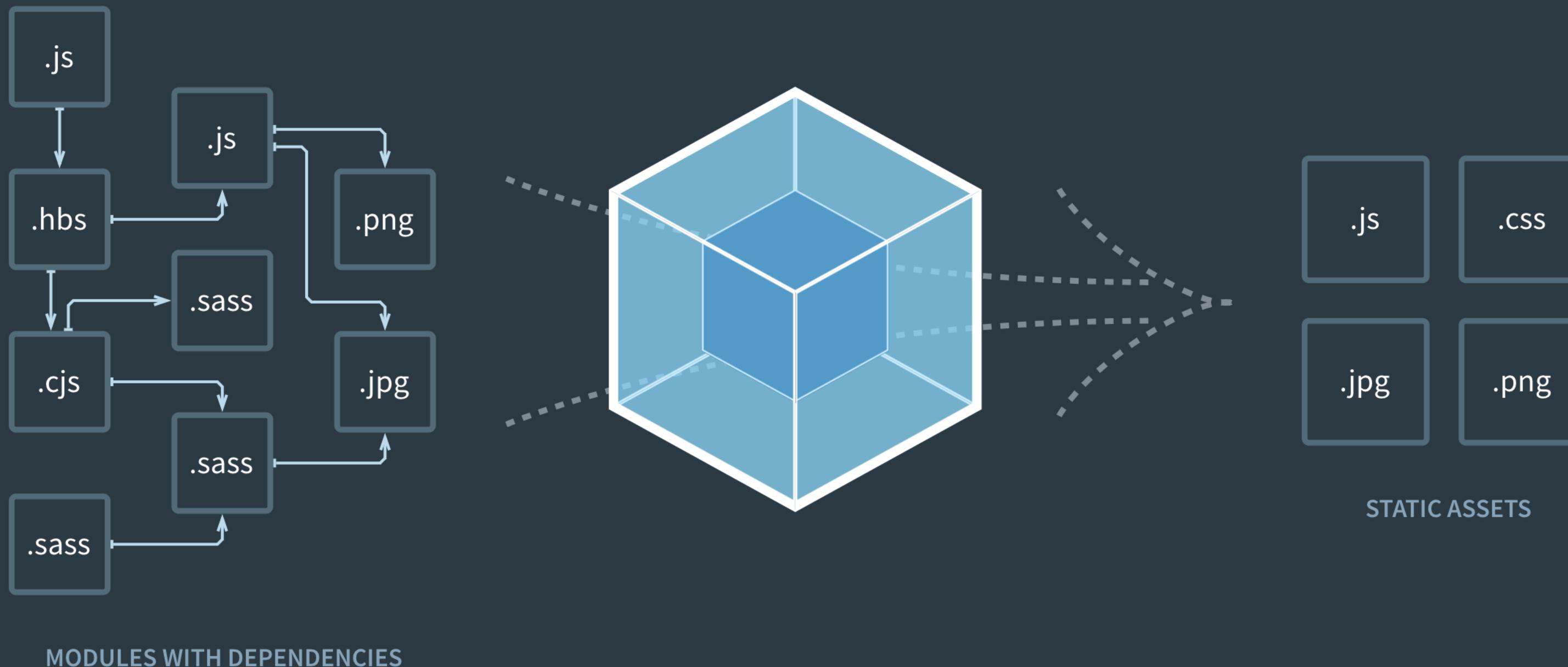
CommonMark
GitHub Flavored Markdown
MDX



YAML

Work in Progress
Elm (via [elm-format](#))
Java
PHP
PostgreSQL
Python

bundle your assets



GET BABEL HOLIDAY APPAREL 

Babel is a JavaScript compiler.

Use next generation JavaScript, today.

Babel 7 is out! Please read our [announcement](#) and [upgrade guide](#) for more information.

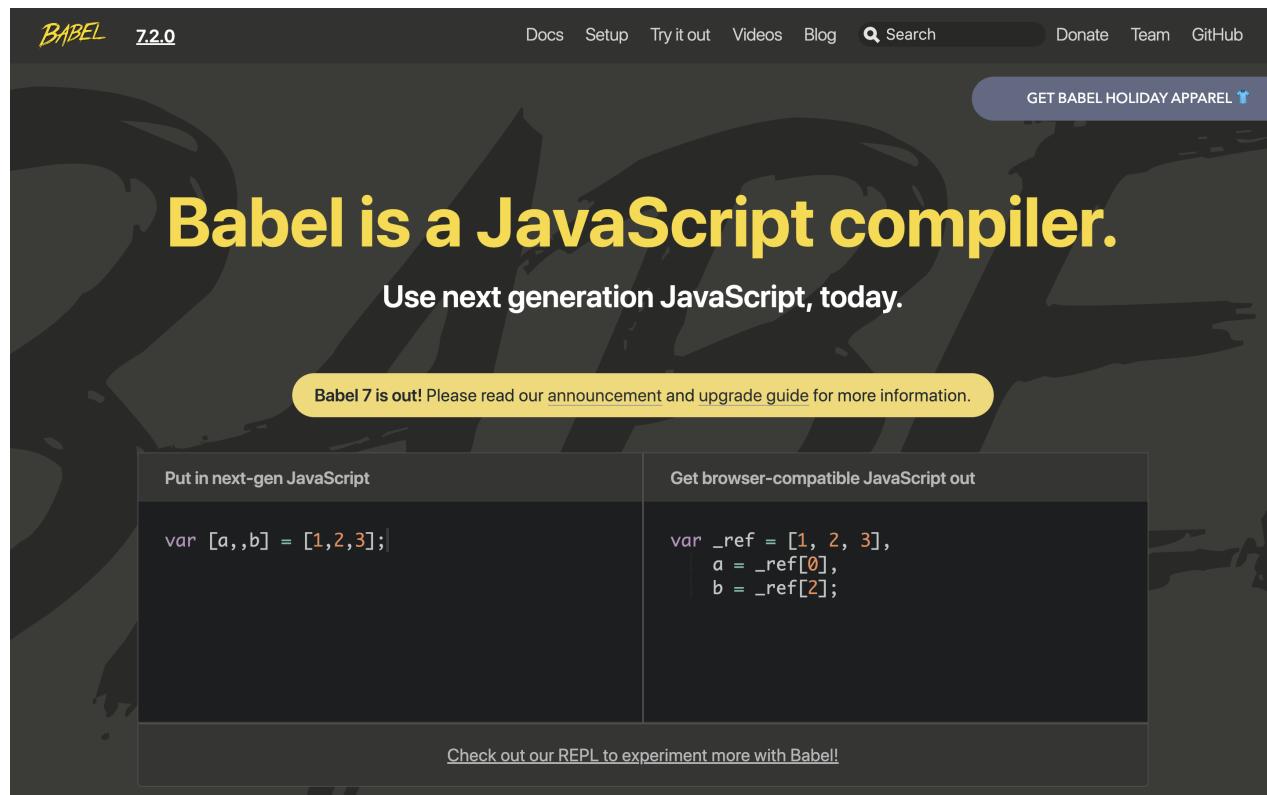
Put in next-gen JavaScript

```
var [a,,b] = [1,2,3];
```

Get browser-compatible JavaScript out

```
var _ref = [1, 2, 3],  
    a = _ref[0],  
    b = _ref[2];
```

Why Babel?



1. Transpile modern JS
2. Compile JSX to JS





ESLint

Team Blog Docs Store Playground

Donate

Find and fix problems in your JavaScript code

ESLint statically analyzes your code to quickly find problems. It is built into most text editors and you can run ESLint as part of your continuous integration pipeline.

 `npm init @eslint/config@latest`

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ES



and more...

Latest Version

 [v9.9.0](#) on 9 Aug

Upcoming Version

 [v9.10.0](#) on 23 Aug

Development

 [HEAD](#) on 18 Aug

[Version Support](#)

Summary



Dev environment complete!

- Transpile: Babel
- Bundle: Webpack
- Lint: ESLint
- Web server: Webpack
- Generating index.html: Webpack
- Loading changes on save: Webpack
- One command via npm scripts



Up Next:

React Component Approaches

