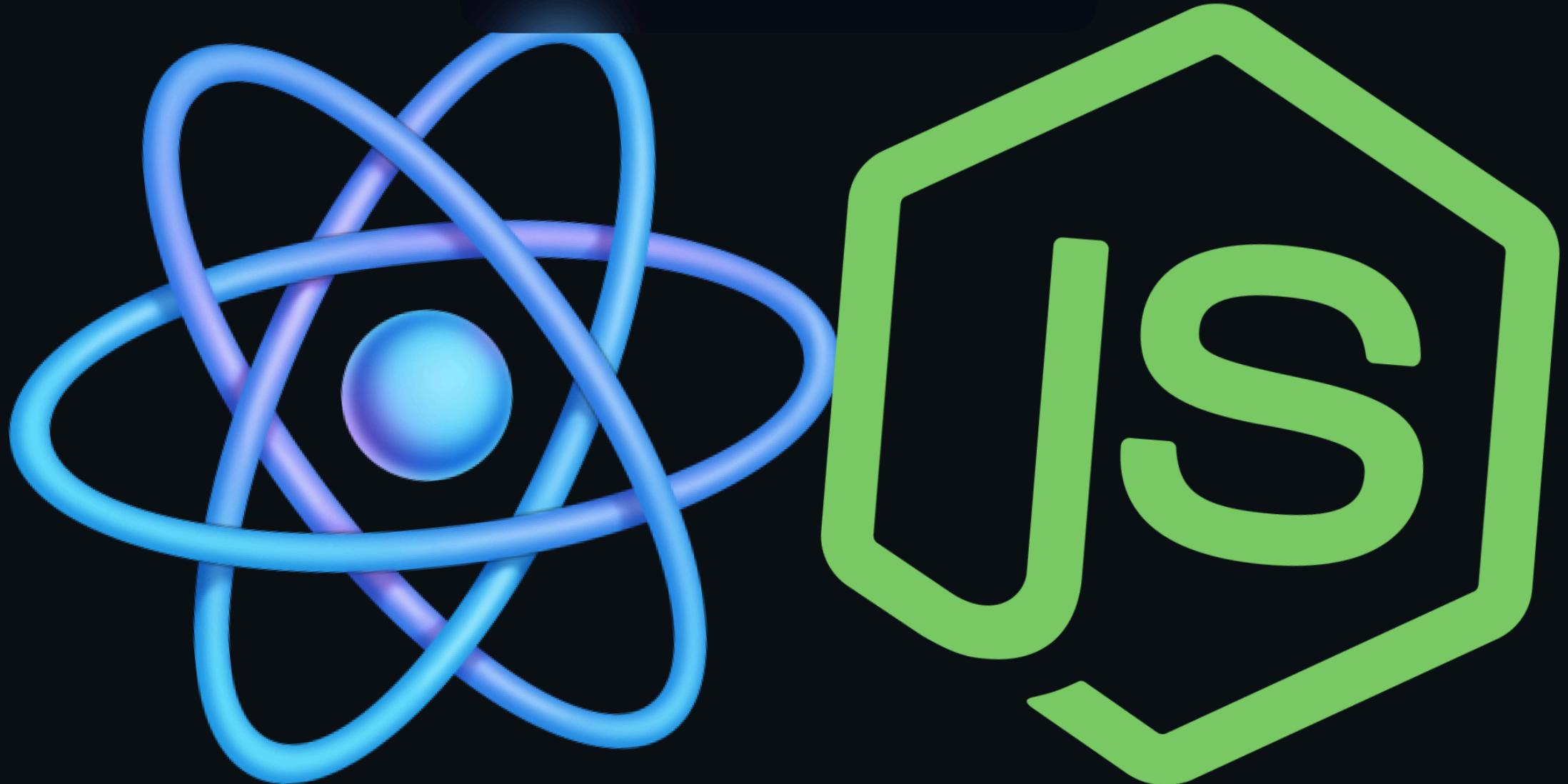


# Spinning up React.js with Node.js!

 JavaScript Mastery



Before creating a React project, you'll need **Node.js** installed on your machine! 

Node is a **JavaScript runtime** that allows you to run JavaScript code **outside of a browser.**

This is essential because React development involves **running tools and scripts on your local machine.**

These tools need **Node.js** to work.

To install Node.js, head over to [nodejs.org](https://nodejs.org) and download the '**LTS**' (or long-term support) version.

## 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 \(LTS\)](#)

Downloads Node.js v22.13.1<sup>1</sup> with long-term support.  
Node.js can also be installed via package managers.

Want new features sooner? Get Node.js v23.6.1<sup>1</sup> instead.

Create an HTTP Server Write Tests Read and Hash a File Streams Pipeline Work with Data

```
1 // server.mjs
2 import { createServer } from 'node:http';
3
4 const server = createServer((req, res) => {
5   res.writeHead(200, { 'Content-Type': 'text/plain' });
6   res.end('Hello World!\n');
7 });
8
9 // starts a simple http server locally on port 3000
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'
```

JavaScript [Copy to clipboard](#)

Learn more what Node.js is able to offer with our [Learning materials](#).

Depending on your operating system, you can install it via a **package manager**. Copy and paste the given code into your terminal.

It's quick and easy!

### Download Node.js®

Get Node.js® v22.13.1 (LTS) for macOS using nvm with npm

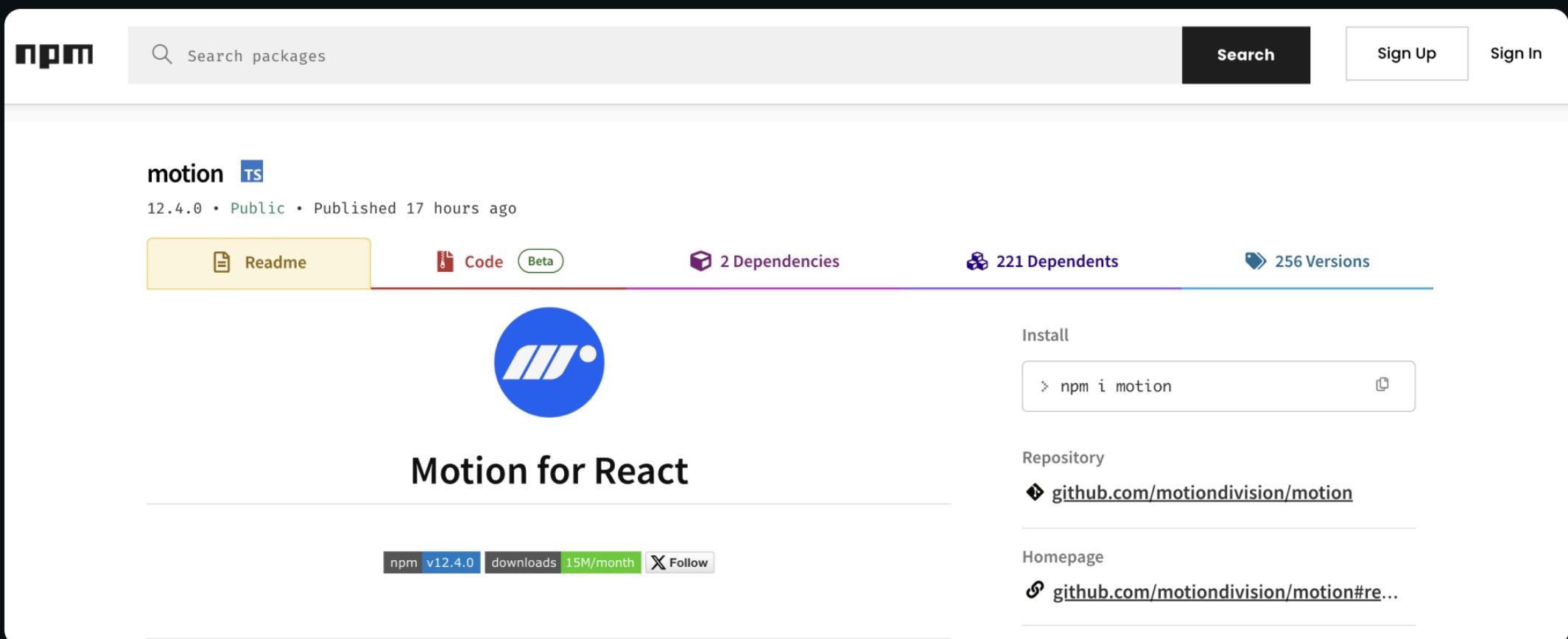
```
1 # Download and install nvm:  
2 curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.40.1/install.sh | bash  
3  
4 # Download and install Node.js:  
5 nvm install 22  
6  
7 # Verify the Node.js version:  
8 node -v # Should print "v22.13.1".  
9 nvm current # Should print "v22.13.1".  
10  
11 # Verify npm version:  
12 npm -v # Should print "10.9.2".
```

Alternatively, you can **download the installer** and then follow the provided steps.

When you install Node.js, you'll also get a handy tool called **NPM** - short for **Node Package Manager**.



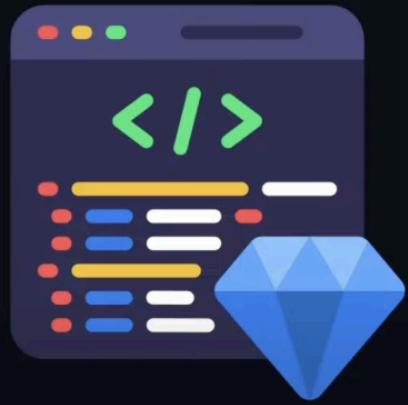
**Instead of writing everything from scratch, you can use NPM to quickly add features like animations, form handling, or even full frameworks by pulling them from its massive collection of ready-to-use-libraries.**



The screenshot shows the npm package page for 'motion'. At the top, there's a search bar with 'Search packages' and a 'Search' button. To the right are 'Sign Up' and 'Sign In' buttons. Below the header, the package name 'motion' is shown with a 'TS' badge, indicating it's a TypeScript library. It was published 17 hours ago. The package has version 12.4.0, is public, and has 256 versions. The 'Readme' tab is active, highlighted in yellow. Other tabs include 'Code' (Beta), '2 Dependencies', '221 Dependents', and '256 Versions'. A large blue circular logo for 'Motion for React' is displayed. Below the logo, the text 'Motion for React' is written. On the left, there are badges for 'npm v12.4.0', 'downloads 15M/month', and a 'Follow' button. On the right, there are sections for 'Install' (with a command 'npm i motion'), 'Repository' (link to [github.com/motiondivision/motion](https://github.com/motiondivision/motion)), and 'Homepage' (link to [github.com/motiondivision/motion#re...](https://github.com/motiondivision/motion#re...)).

**NPM** will save you time and effort by giving you access to **a lot of packages** to help you build your modern apps more **efficiently**.

It also makes it super-easy to keep your **tools and code up-to-date**, ensuring everything works together smoothly.





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JAVASCRIPT MASTERY

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