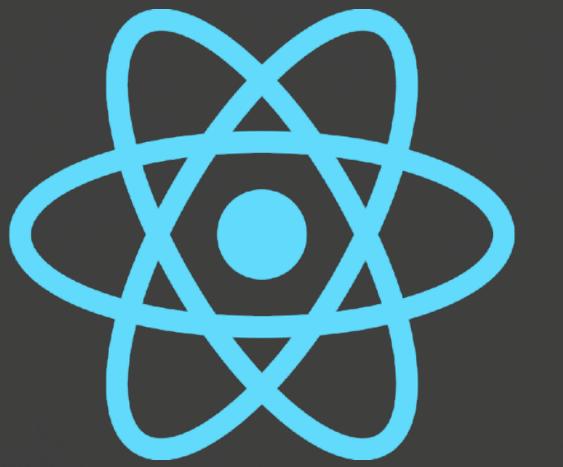


# Frontend tooling

Frameworks & Libraries



Build Tools



PARCEL

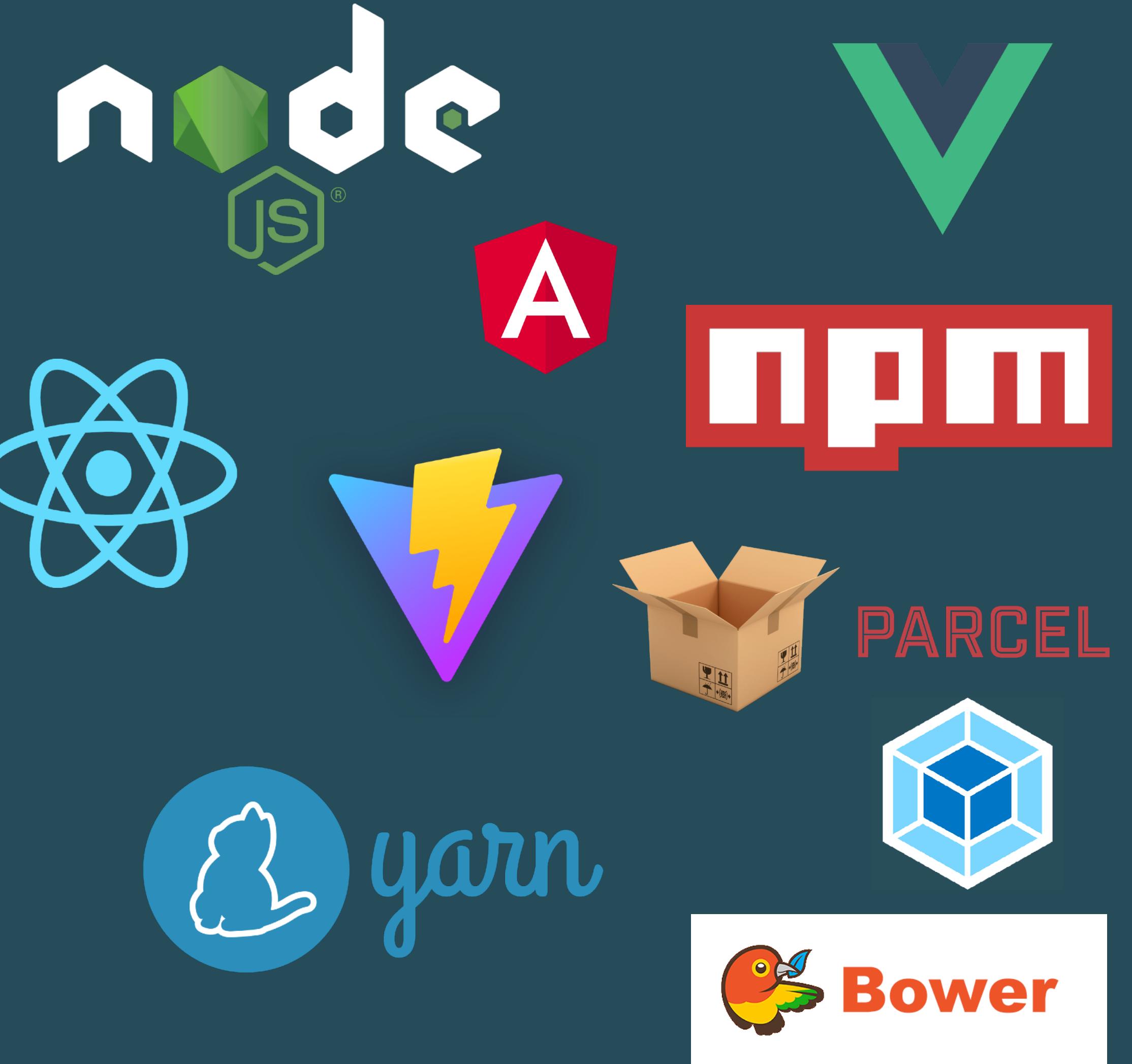
Package managers



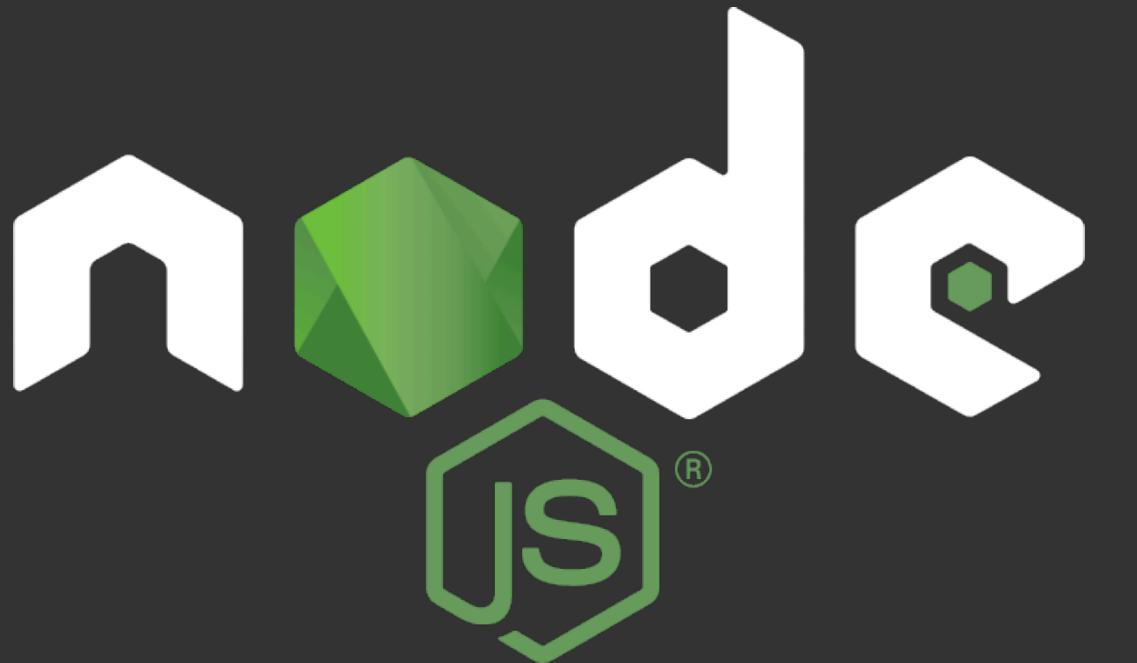
yarn



Frameworks, Libraries,  
Builds tools,  
Package Managers,  
Compilers, Transpilers,  
Module Bundlers &  
Command-line Interface (CLI)



It is simply just tools!



# Getting started

Download & install Node.js & npm: [nodejs.org/en/](https://nodejs.org/en/)



ONE OF MANY PACKAGE MANAGERS

The background features a vibrant, abstract design with diagonal stripes in shades of pink, red, orange, and yellow. Overlaid on this are several thin, colorful lines in yellow, purple, and blue, some of which intersect the text. A large, semi-transparent circular shape is visible in the lower-left quadrant.

Build amazing  
things

PACKAGE MANAGER & INSTALLER

THE WORLD'S LARGEST SOFTWARE LIBRARY (CODE PACKAGES)



JavaScript runtime environment.

Executes JavaScript outside of the browser.

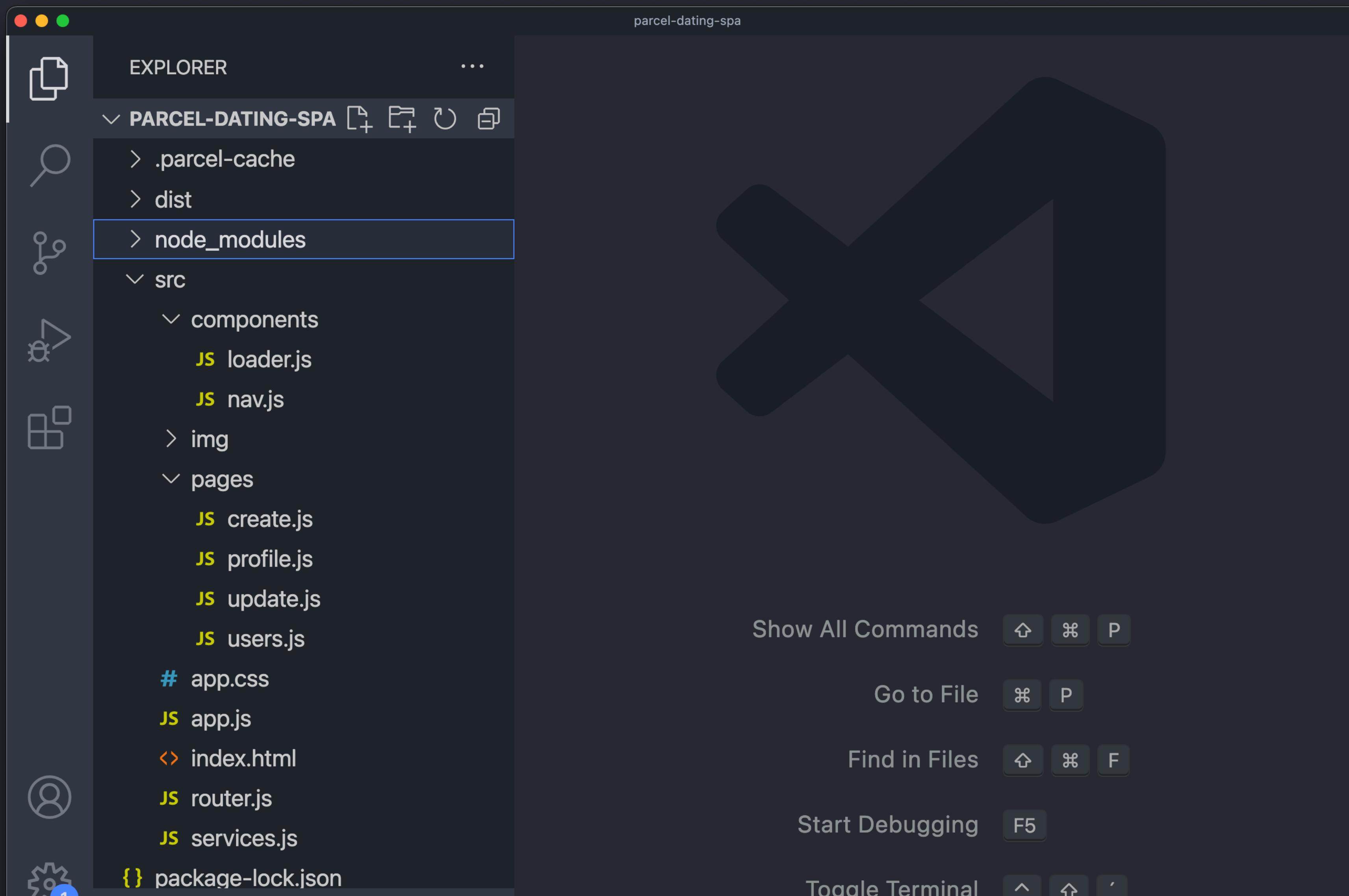
A tool for running JavaScript on your computer - instead of in your browser. A tool to run server-side tools and applications in JavaScript.

npm is a package manager for node.js packages  
- or modules 🤔

Node.js packages contain all the files you need for  
a module.

Modules are JavaScript libraries you can include in  
your project.

# node\_modules



# npm consists of

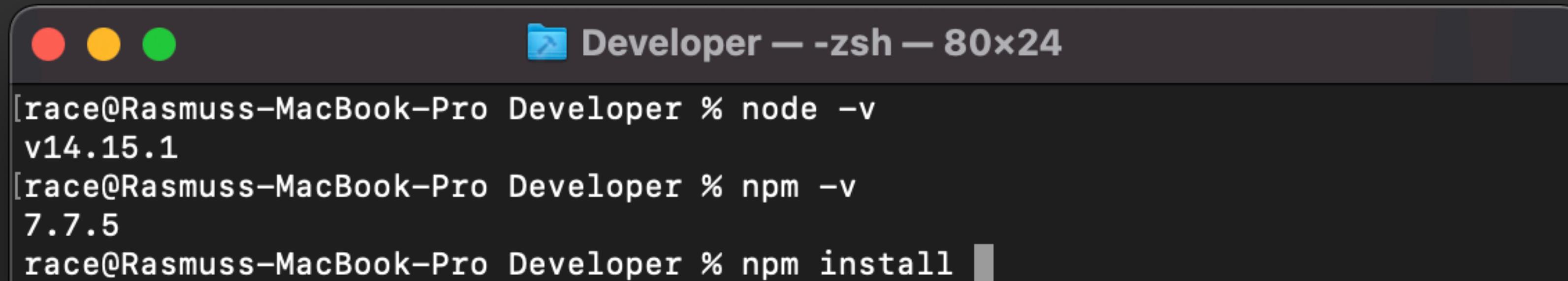
1. Website to discover packages
2. Command line interface (cli)
3. A registry - database with JS software / node modules

<https://docs.npmjs.com/about-npm/>

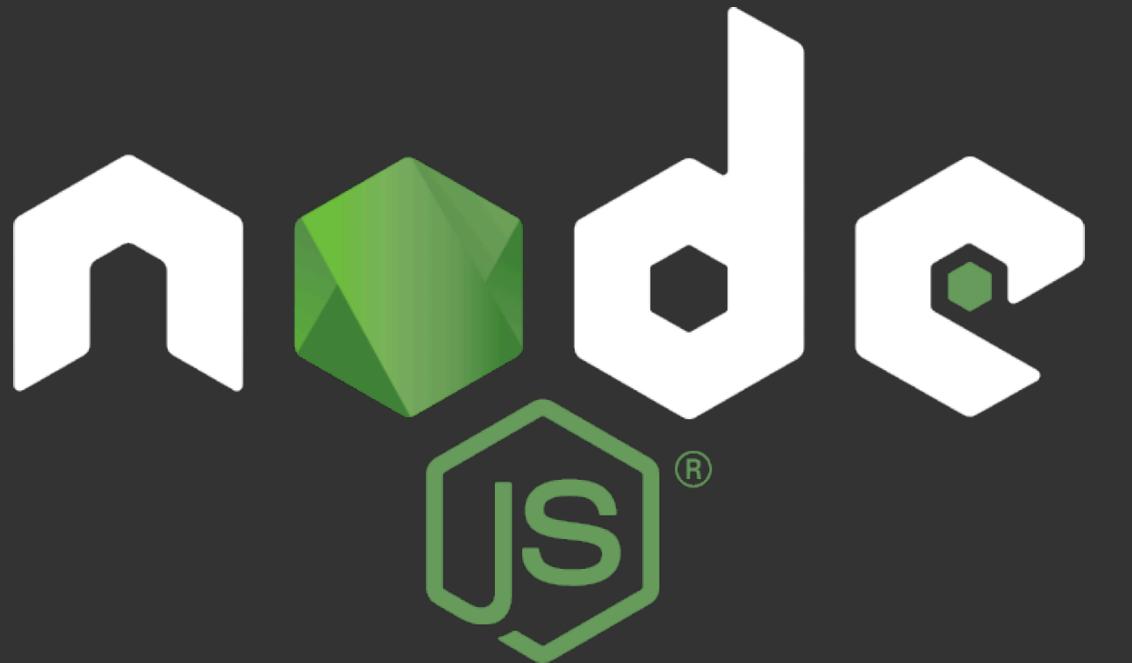
# Command Line Interface

... a program that allows users to type text commands to execute functions.

npm uses CLI to install software & packages.

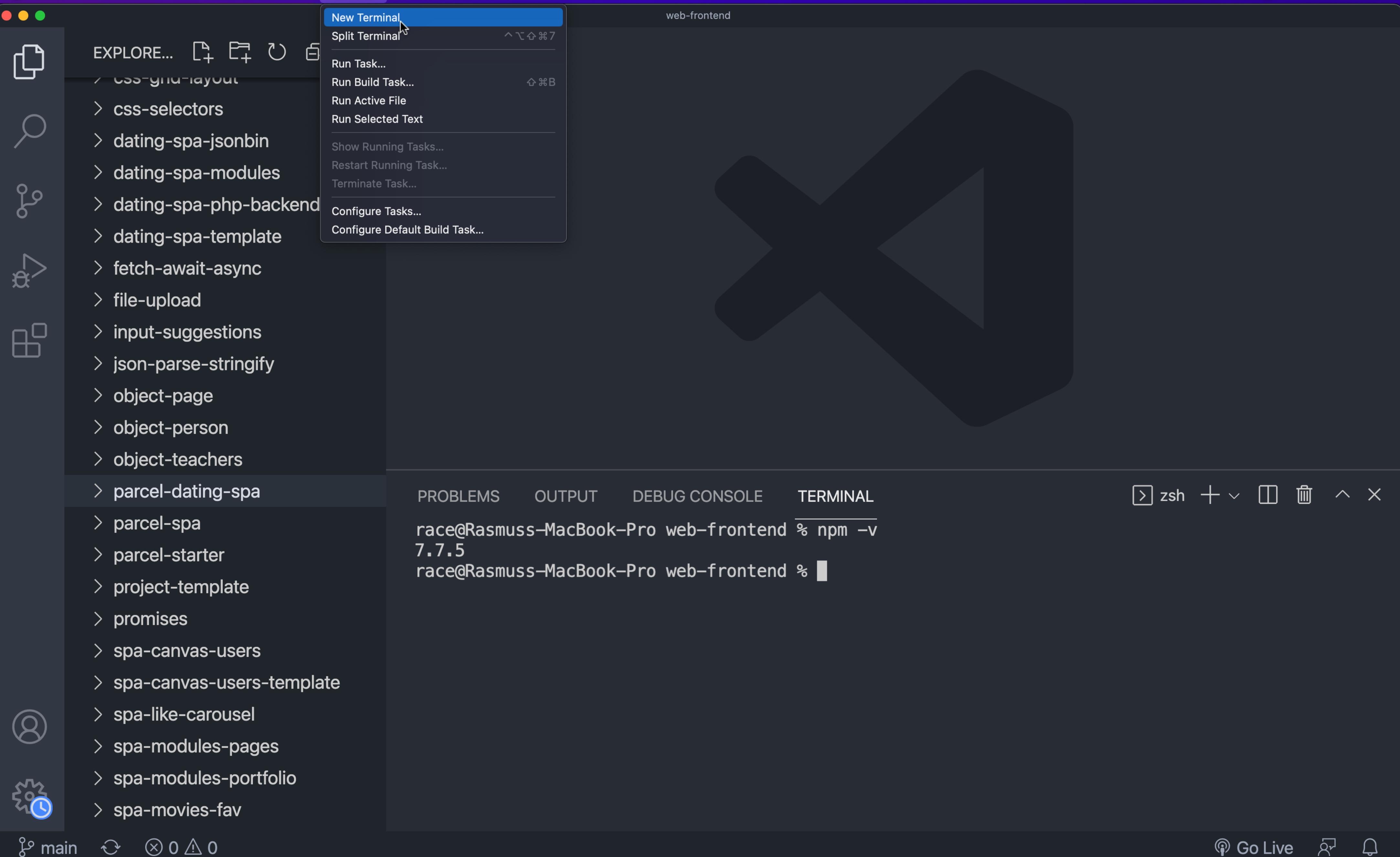


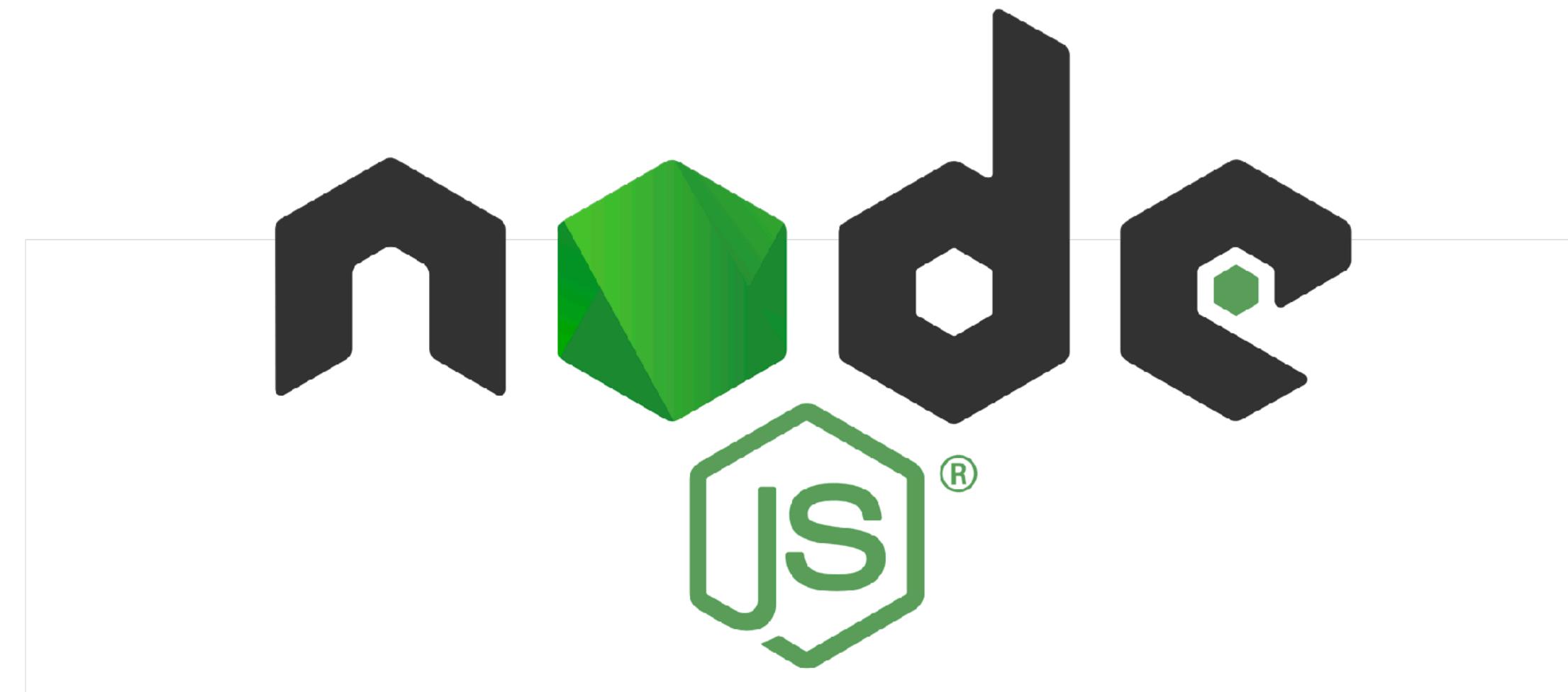
```
[race@Rasmuss-MacBook-Pro Developer % node -v
v14.15.1
[race@Rasmuss-MacBook-Pro Developer % npm -v
7.7.5
race@Rasmuss-MacBook-Pro Developer % npm install ]
```



1. Download & install Node.js & npm: [nodejs.org/en/](https://nodejs.org/en/)
2. Check your version of npm & Node.js

```
race@macbookpro-9720 ~ % node -v
v16.13.1
race@macbookpro-9720 ~ % npm -v
8.6.0
race@macbookpro-9720 ~ %
```





# express

**Express** is the most popular **Node** web framework. Fast,  
unopinionated, minimalist web framework.

“Makes it easier for developers to write server-side JS and  
implement routing, handle HTTP requests and responses, etc.”



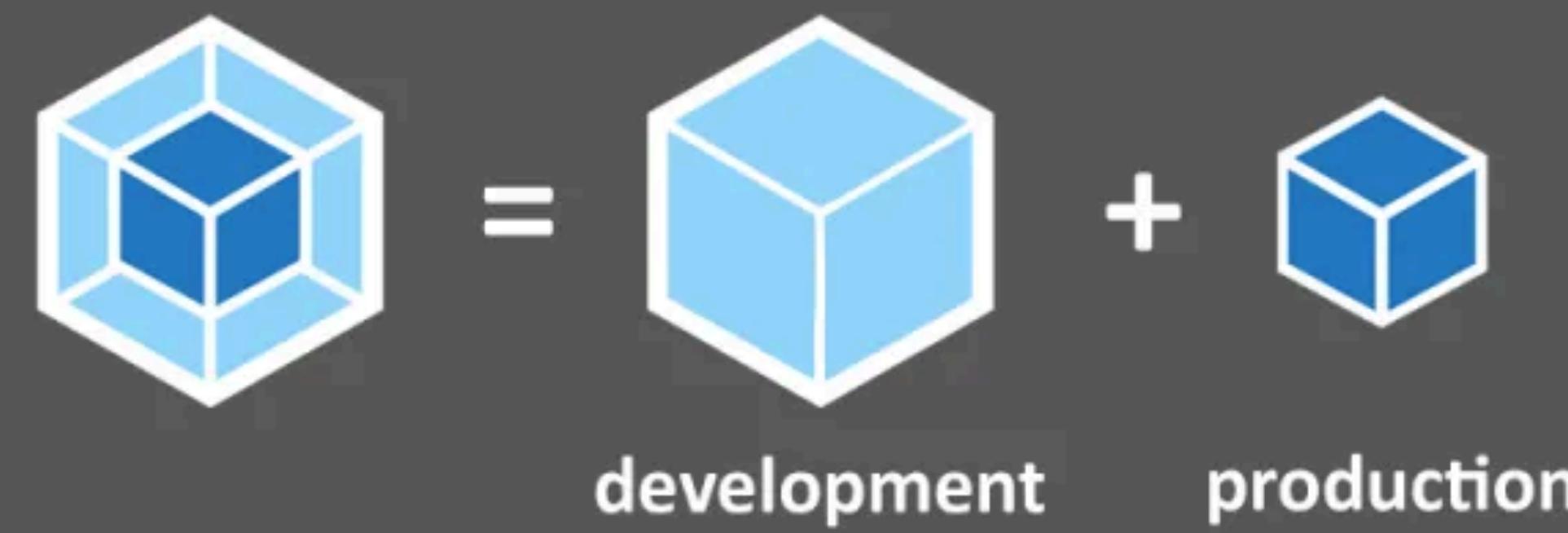
# webpack

... A NODE.JS MODULE

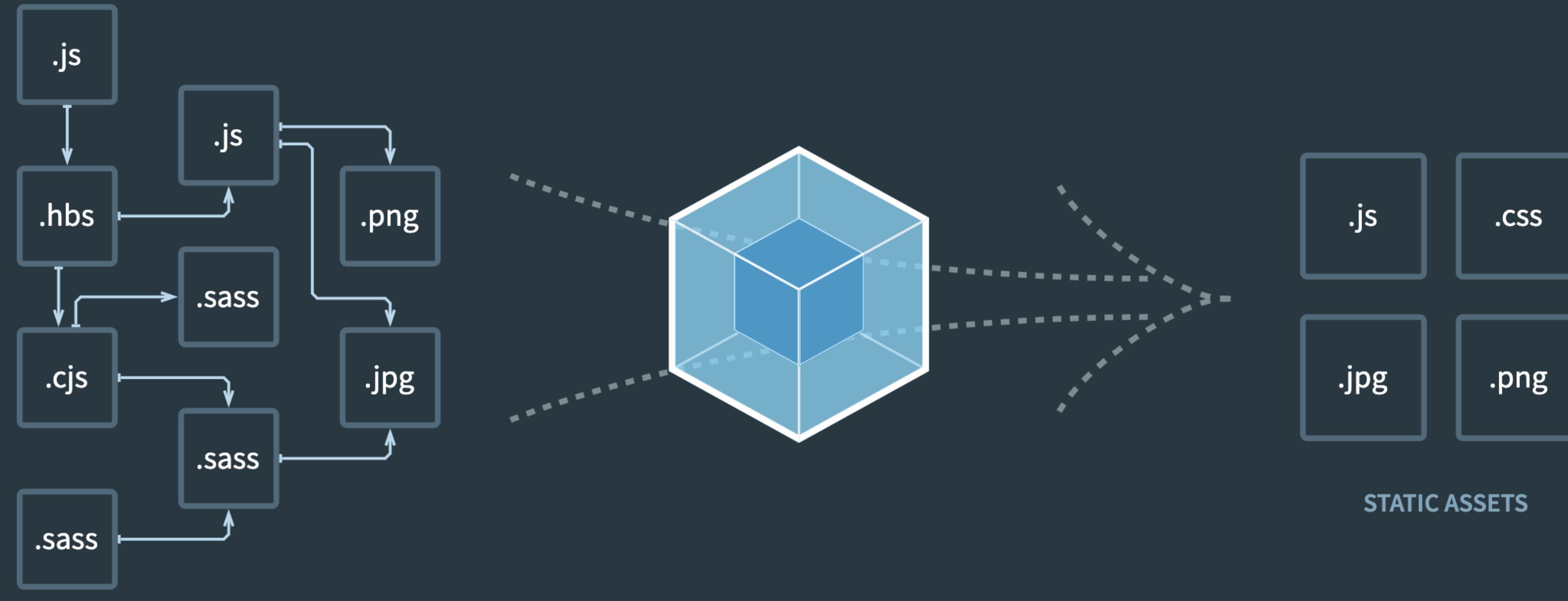
... A MODULE BUNDLER / BUILD TOOL

ONE OF MANY NODE PACKAGES  
FROM DEVELOPMENT TO PRODUCTION

# MODULE BUNDLER: FROM DEV TO PROD



# bundle your scripts



STATIC ASSETS



# PARCEL

[parceljs.org](https://parceljs.org)



# Vite

## Next Generation Frontend Tooling

Get ready for a development environment that  
can finally catch up with you.



A modern build tool for web projects

<https://vitejs.dev/>

<https://race.notion.site/Getting-started-with-Vite-86e62ae9776041b38e99cb227eac4e0b>