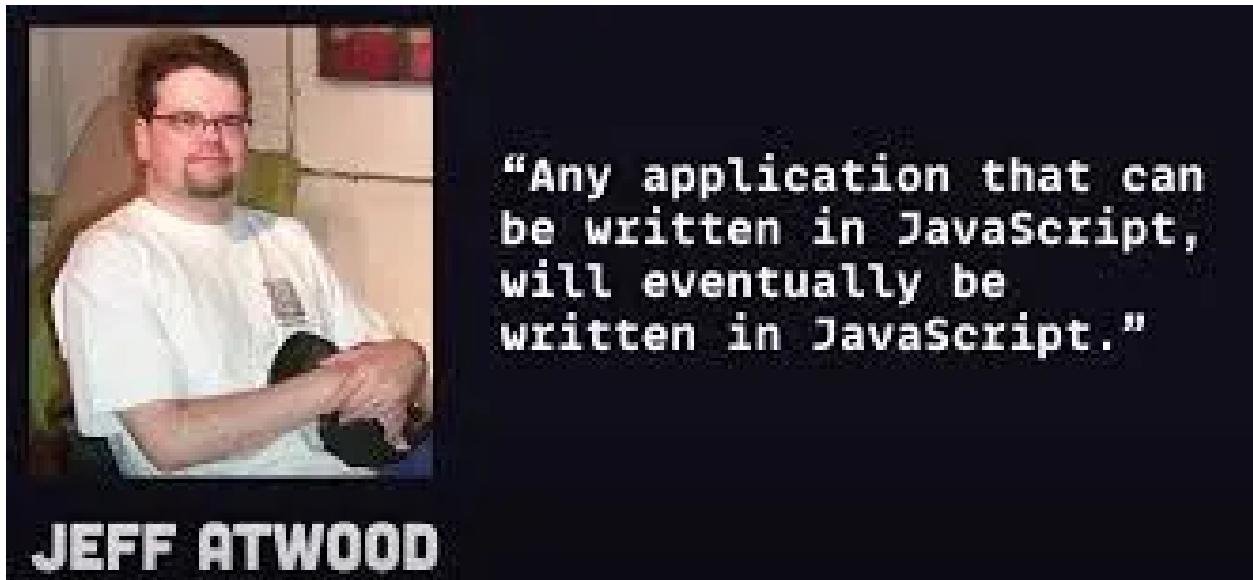




Episode-01 | Introduction to NodeJS



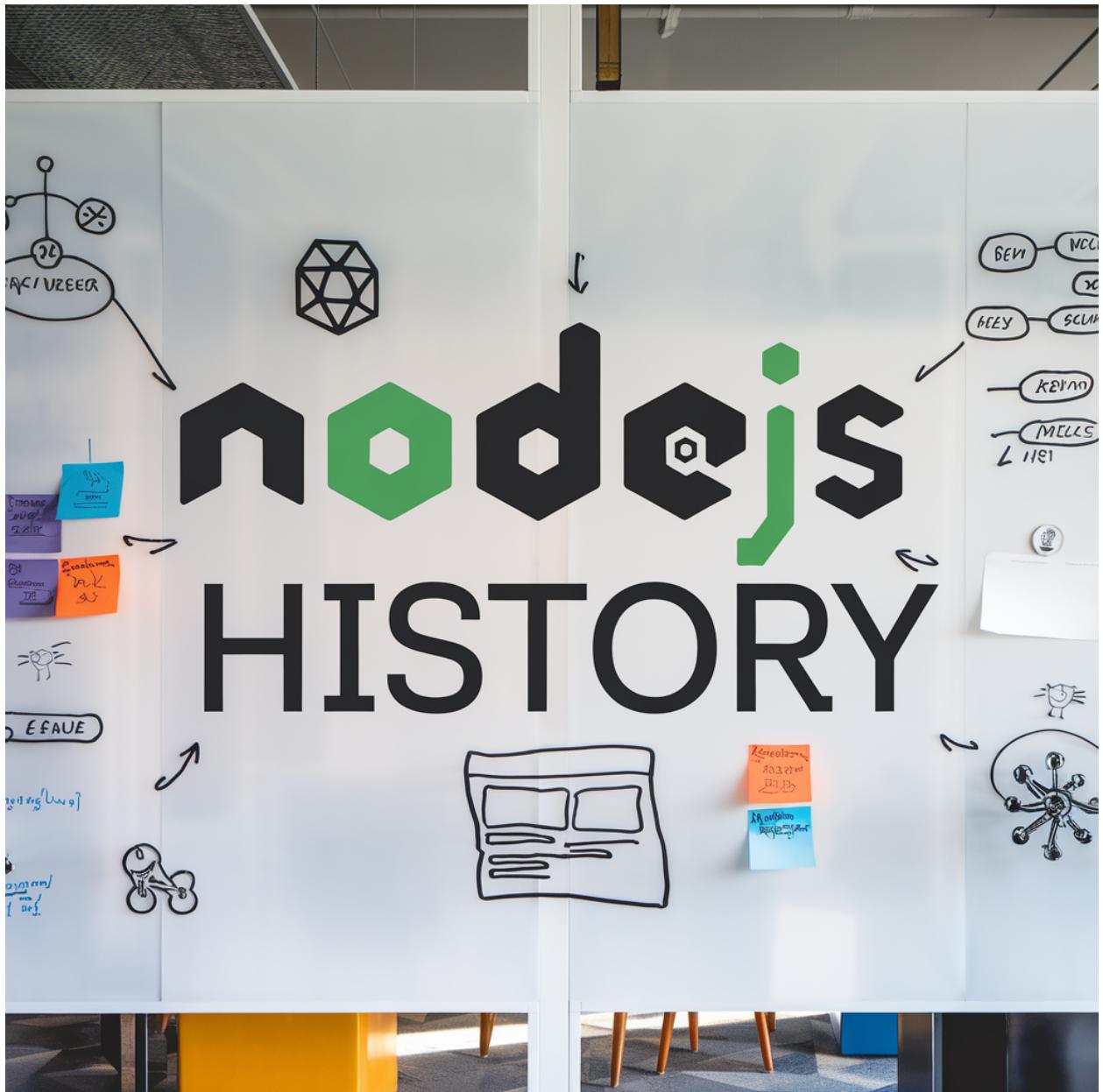
Q: What is Node.js?

Node.js is a [cross-platform, open-source JavaScript runtime environment](#) that can run on [Windows](#), [Linux](#), [Unix](#), [macOS](#), and more. Node.js runs on the [V8 JavaScript engine](#), and executes JavaScript code outside a [web browser](#).

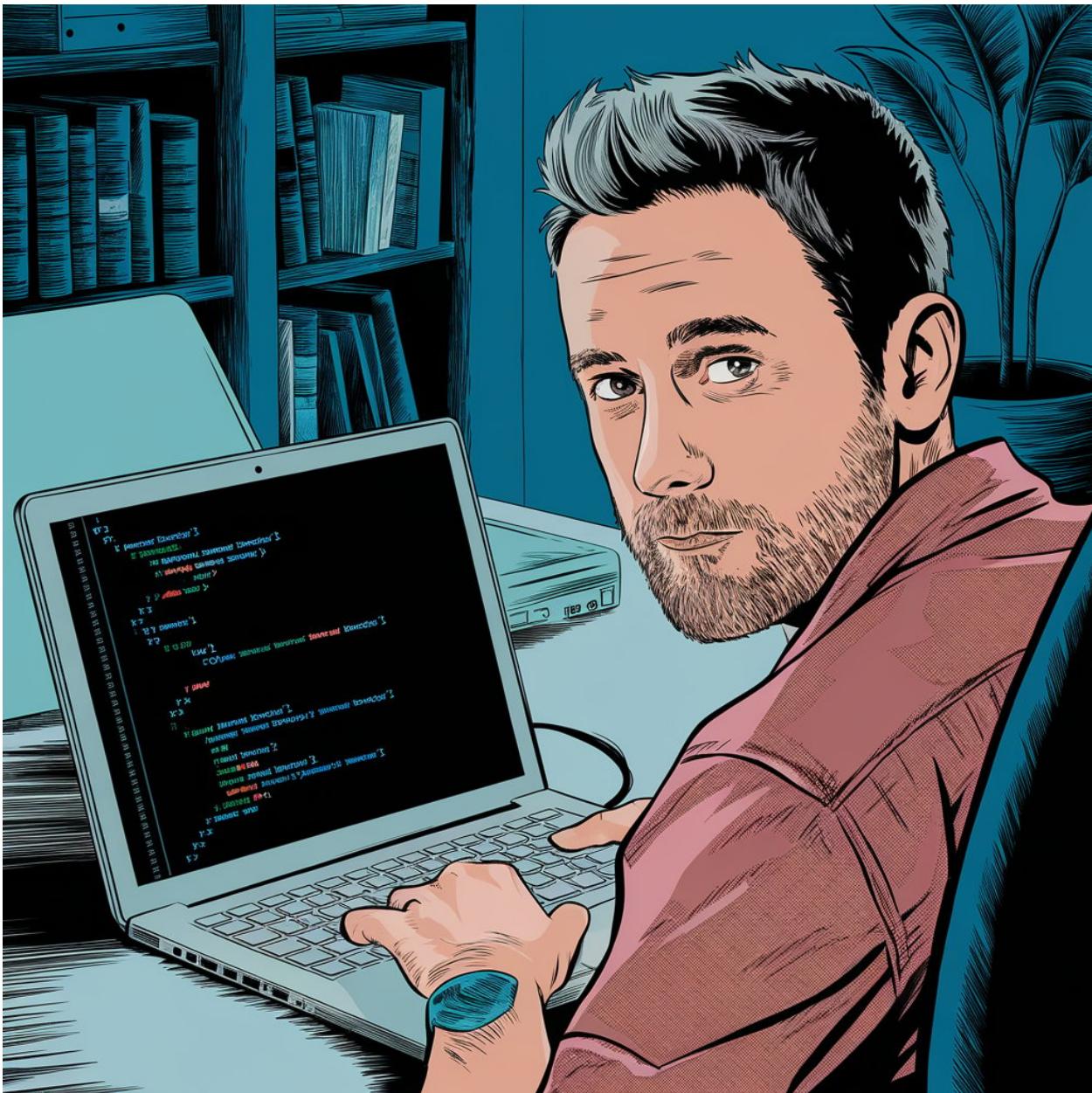
- Node.js is a JavaScript runtime built on **Chrome's V8** JavaScript engine.
- It is maintained by the **OpenJS** Foundation.
- Node.js allows JavaScript to be executed **outside of a web browser**.

This means that while JavaScript is traditionally associated with the web and browsers, Node.js extends its reach, allowing you to run JavaScript code on servers, desktops, and even embedded systems. This is why Node.js is often described with the phrase "Run JavaScript Everywhere."

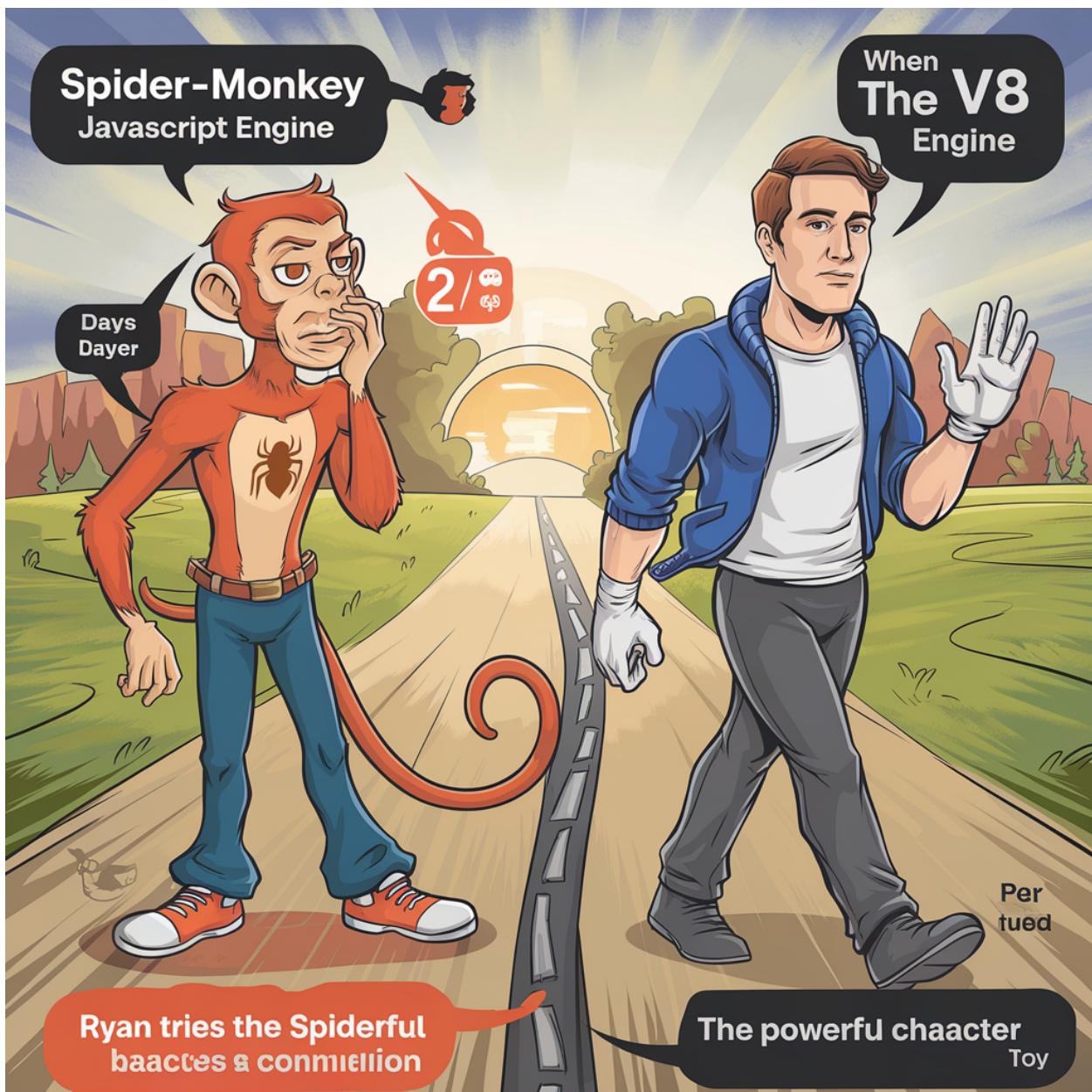
- Node.js features an **event-driven architecture** and supports **asynchronous I/O (non-blocking I/O)**. [\[Covered in depth in Episode 06\]](#)



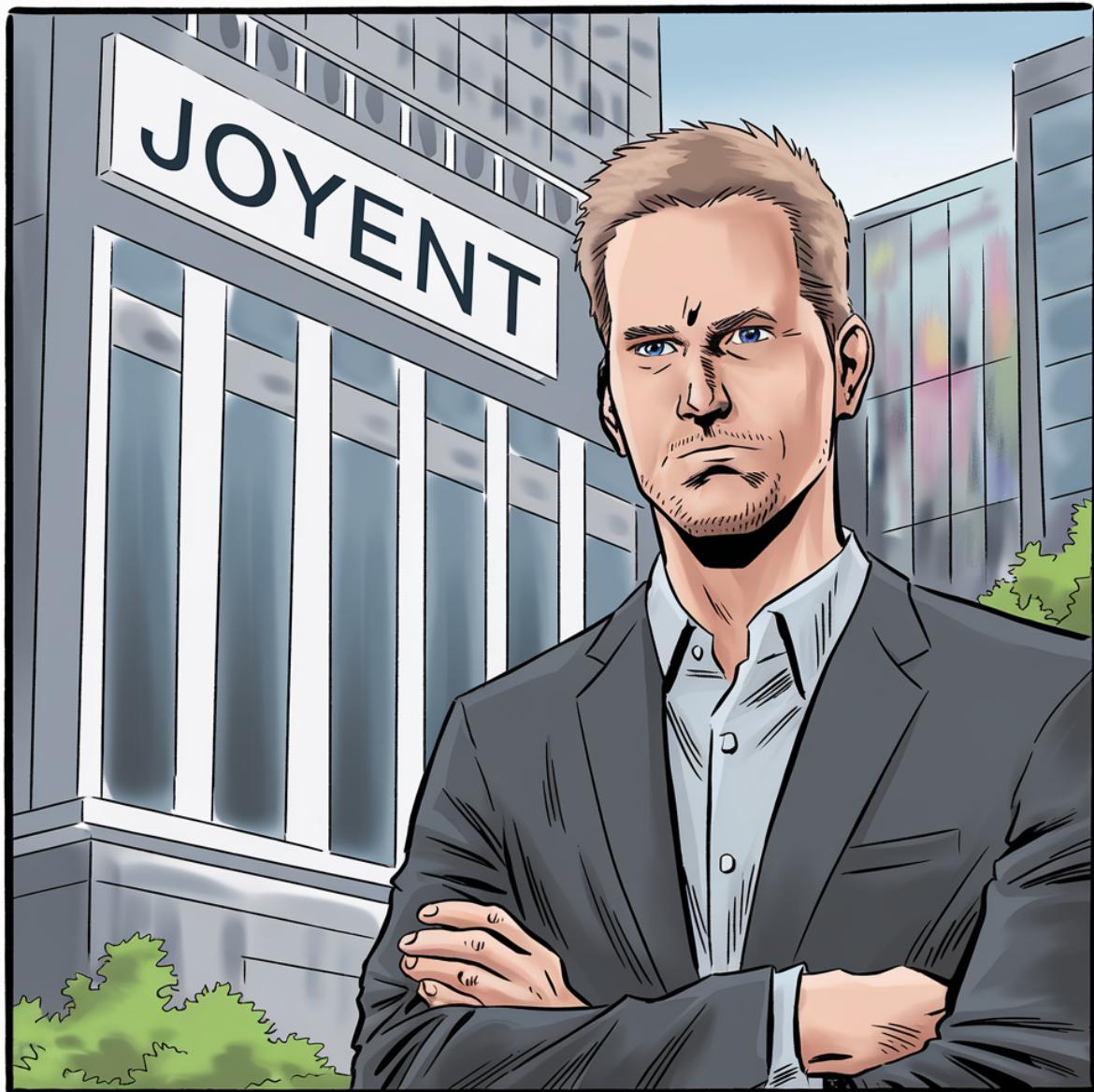
- NodeJS was built by Ryan Daul in 2009.



- To run the JS, you always need an **JS engine**.
- Everywhere you write JS code, there is an JS engine, that executes the code.
- Ryan started with the **Spider-Monkey Js Engine**, which is found on Firefox. but in two days he tried using **v8** and never looked back.

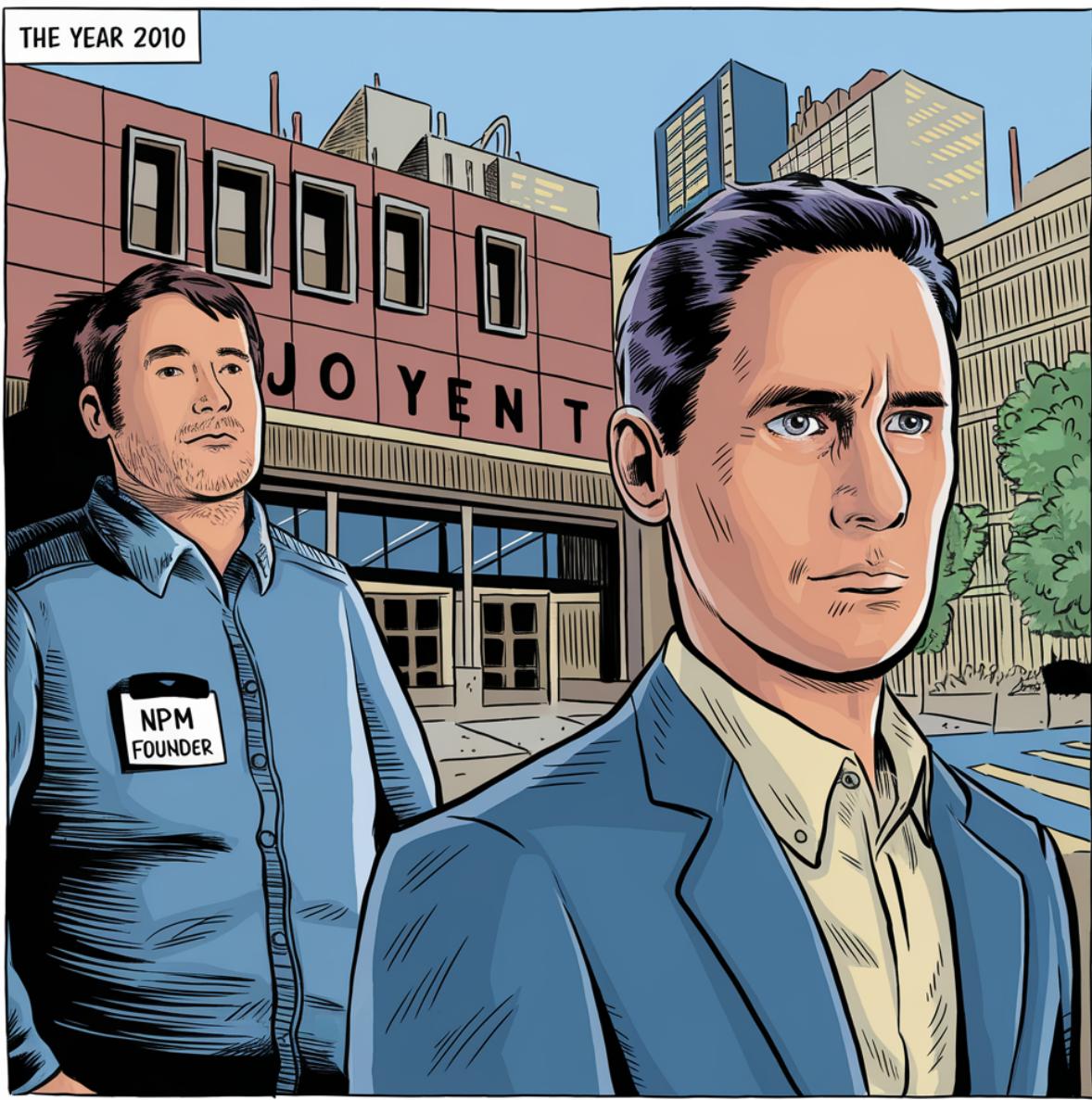


- earlier, Ryan was working independently, but there was a company named **Joyent**, and this company was working on something similar to NodeJS. and they hire Ryan to work under us, we will fund your project. big contribution to Joyent Company.



- The earlier name of Node.js was **Web.js**, but Ryan Dahl later renamed it to **Node.js** because it was intended to be used for more than just web servers.
- **Apache HTTP Server** was a blocking server, so Ryan wanted to create a non-blocking server, which is why **Node.js** is a non-blocking I/O. The advantage of a non-blocking server is that it can handle multiple requests with a smaller number of threads.
- In **2010, NPM (Node Package Manager)** was introduced. NPM is a package manager for Node.js, and it played a critical role in the success of Node.js.

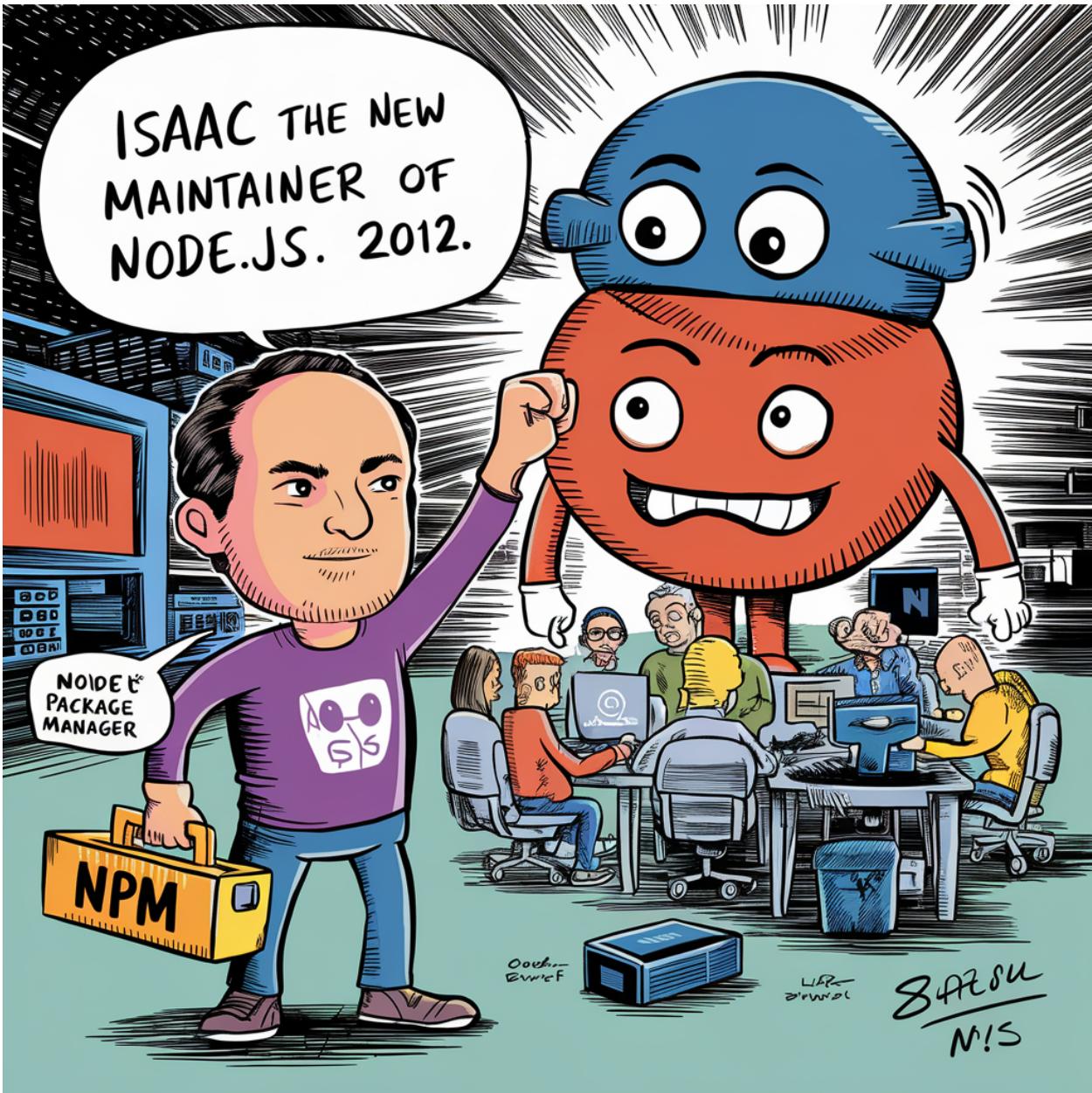
Without NPM, Node.js might not have become as successful as it is today.



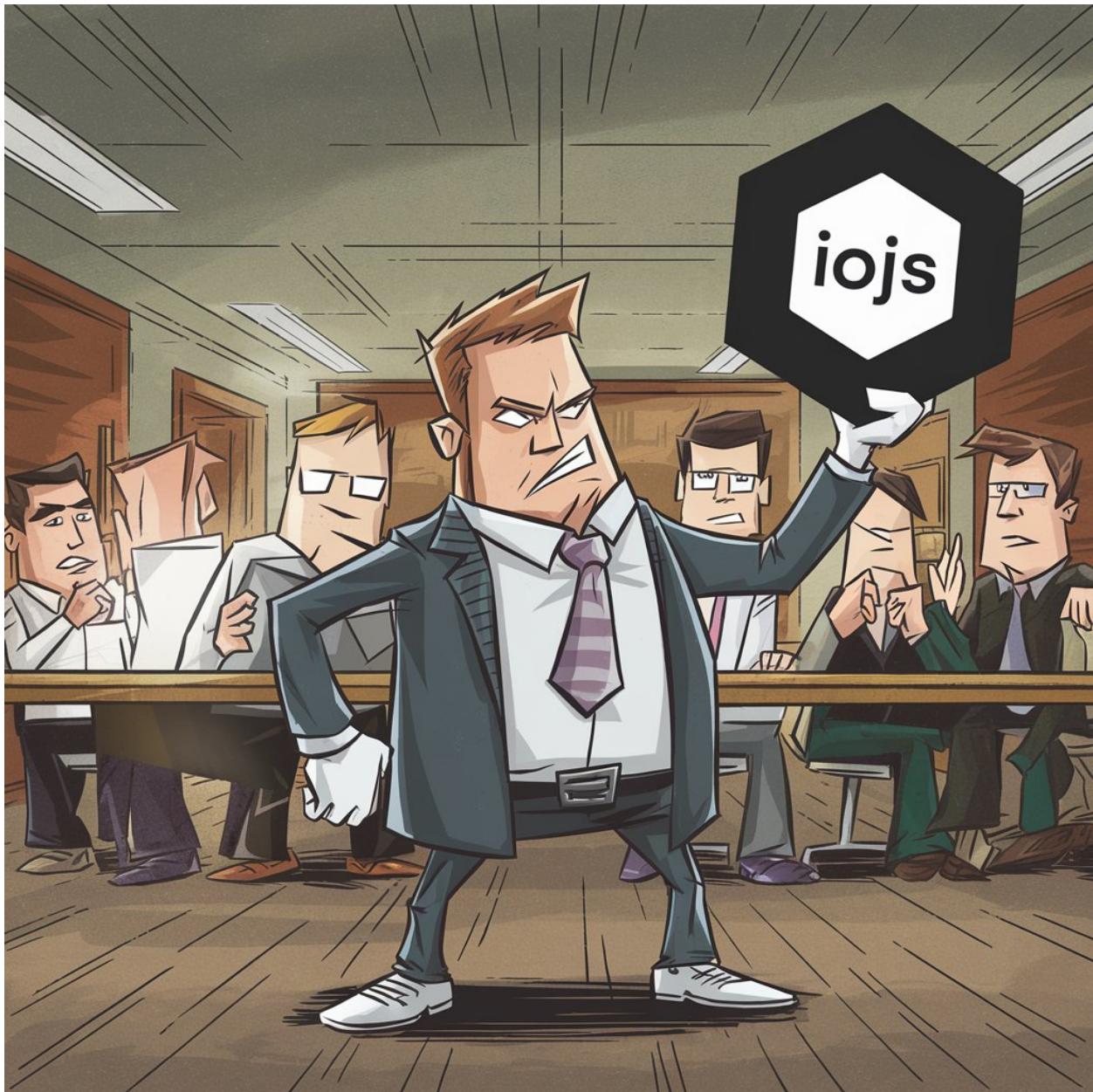
- Initially, Node.js was built only for macOS and Linux, but in **2011**, it gained support for Microsoft Windows as well.



- In **2012**, **Isaac Z. Schlueter** began maintaining Node.js; he is also the creator of **NPM**.



- In **2014**, a developer named **Fedor** created a fork of Node.js called **io.js**, which led to controversy within the company. As a result, 3 to 4 developers began maintaining the io.js branch.



- In **September 2015**, **Node.js** and **io.js** were merged, and the combined project was named the **Node.js Foundation**.



- In 2019, the **JS Foundation** and the **Node.js Foundation** merged to form the **OpenJS Foundation**, which now maintains Node.js.



Summary





In 2015, both Node.js and io.js were merged, and they called it the Node.js Foundation.

In 2019, there is committee known as js foundation and committee node.js foundation both this merged and openjs foundation has build which maintains nodejs at present.



