Learn more about Node.js, one of the software packages that makes Gatsby possible.

What is Node.js?

Node.js is a JavaScript runtime that uses the same engine as Google Chrome. With Node.js, you can run JavaScript applications on your computer, without the need for a web browser.

In the early 2000s, services such as Gmail and Flickr showed us that JavaScript could be used to build robust applications, available to anyone with a web browser and internet connection.

However, those JavaScript applications had a big limitation: they could only perform as well as the runtime allowed. Before 2009, the runtime was almost always a web browser. So Google formed the Chromium Project, in part, to create a faster browser. The result was Google Chrome, released in 2008, and its new JavaScript engine: <u>V8</u>.

A year later, Node is made its debut as a standalone JavaScript runtime using the V8 engine.

Once you've installed Node.js, you can use it to run JavaScript from the <u>command line</u>. Type <u>node</u> at a prompt to launch the Node.js interactive shell. Include the path to a JavaScript file to execute that script: e.g. <u>node</u> /Users/gatsbyfan/hello-world.js.

You will need to <u>install Node.js</u> before using Gatsby. Gatsby is built using JavaScript, and requires the Node.js runtime.

Installing Node.js also installs <u>npm</u>, the Node.js *package manager*. A package manager is specialized software that lets you install and update modules and packages used in your project.

You'll use npm to install Gatsby and its dependencies. Type <code>npm install -g gatsby-cli</code> at a command line prompt to install the Gatsby command line interface or CLI. The <code>-g flag</code> installs Gatsby globally, which means that you can use it by typing <code>gatsby</code> at a prompt. For example, you can use <code>gatsby new</code> to create a new Gatsby site.

Learn more about Node.js

- Node.js official website
- Introduction to Node.js
- NodeSchool offers online and in-person Node.js workshops
- <u>V8</u> developer blog website