

JS Runtime

- JavaScript runtime refers to where your JavaScript code is executed when you run it.
- JS is a single threaded language which means that only one set of instructions can be executed at a time. There is only one call stack. Except behind the scenes we do not only have the JS Engine but also there is the JS Runtime. The runtime is the whole package including all the tools, the engine is responsible of composing JS.
- The browser comes with the web API which is not native to JS. The web API can take care of asynchronous actions. You can access the web API by using methods on the window object. If we look at the Node.js, which is a runtime that enables us to run JS outside of the browser written in C++, it uses the V8 engine from the browser but extends it with a global API instead of the web API the browser uses.
- JavaScript can be executed on google chrome, in which case your JavaScript runtime is v8, if on Mozilla - it is spider monkey, if IE - then its chakra and if on node, again its v8.