

<p>If you are totally new to JavaScript (Not familiar with JavaScript Lexical Structure, Loops, conditionals, classes, prototypes, objects, functions etc.)</p>	<p>Must Read</p>	<p>Additional Reading</p>	<p>Optional</p>
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JavaScript

Chapter 0:

Basics and fundamentals:

1. <https://www.w3schools.com/js/default.asp>
or
2. https://developer.mozilla.org/en-US/docs/Learn/JavaScript/First_steps
3. https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Building_blocks
4. <https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Objects>

Chapter 1:

this in javascript:

1. https://www.w3schools.com/js/js_this.asp

Difference between Normal Functions and Arrow Functions:

1. <https://dmitripavlutin.com/differences-between-arrow-and-regular-functions/>

ES6 features:

1. https://www.w3schools.com/js/js_es6.asp

Scopes in JavaScript:

1. https://www.w3schools.com/js/js_scope.asp

Template Literals:

1. https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Template_literals

Strict Mode:

1. https://www.w3schools.com/js/js_strict.asp

Execution Context:

1. https://www.youtube.com/watch?v=Wk0-6b1W_VQ&t=1838s

Prototypes:

1. https://www.w3schools.com/js/js_object_prototypes.asp

Closures in JavaScript:

1. https://www.youtube.com/watch?v=9acXwUkddZI&ab_channel=LearnwithSumitBangladesh

Chapter 2:

Asynchronous Concept:

1. <https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Asynchronous/Concepts>

Asynchronous JavaScript:

1. <https://www.freecodecamp.org/news/javascript-async-await-tutorial-learn-callbacks-promises-async-await-by-making-icecream/> [MUST]
2. <https://javascript.info/async-await>
3. [Practice Questions]
<https://www.codingame.com/playgrounds/347/javascript-promises-mastering-the-asynchronous/what-is-asynchronous-in-javascript>
4. <https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Asynchronous/Introducing>
5. https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Asynchronous/Timeouts_and_intervals
6. <https://nodejs.dev/en/learn/discover-javascript-timers>
7. <https://nodejs.dev/en/learn/javascript-asynchronous-programming-and-callbacks>
8. <https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Asynchronous/Promises>
9. <https://nodejs.dev/en/learn/understanding-javascript-promises>
10. https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Asynchronous/Async_await
11. <https://nodejs.dev/en/learn/modern-asynchronous-javascript-with-async-and-await>

JavaScript Event Loop:

1. <https://www.youtube.com/watch?v=8aGhZQkoFbQ>

Asynchronous Under the Hood:

1. <https://www.youtube.com/watch?v=SrNQS8J67zc>

Chapter 3:

Google Chrome Developer Tools Crash Course:

1. <https://www.youtube.com/watch?v=x4q86ljJFag>

Chapter 4:

Manipulating DOM:

1. https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Client-side_web_APIs/Manipulating_documents
2. <https://www.youtube.com/playlist?list=PLHiZ4m8vCp9MJDxMOzhYVuTrO1b5n-Tq>

Fetching Data:

1. https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Client-side_web_APIs/Fetching_data

Client-Side Storage:

1. https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Client-side_web_APIs/Client-side_storage

Video and Audio API:

1. https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Client-side_web_APIs/Video_and_audio_APIs

W3Schools JS blogs:

<https://www.w3schools.com/js/default.asp>

JavaScript Video Tutorials in Bangla: Interested ones can go through this playlist in their own time. We won't encourage you to go through this as official learning material because of the video lengths.

https://www.youtube.com/watch?v=rePN-VFo1Eo&list=PLHiZ4m8vCp9OkrURufHpGUUTBjJhO9Ghy&ab_channel=LearnwithSumitBangladesh

NodeJS

Chapter 0:

History of NodeJS:

1. <https://www.youtube.com/watch?v=WC-g0JtElwM&list=PLHiZ4m8vCp9PHnOIT7gd30PCBoYCpGoQM>
2. <https://www.youtube.com/watch?v=qImH1bFubW4&list=PLHiZ4m8vCp9PHnOIT7gd30PCBoYCpGoQM&index=2>

How to install NodeJS:

1. <https://nodejs.dev/en/learn/how-to-install-nodejs>
2. <https://www.youtube.com/watch?v=J5sCarsKX1s&list=PLHiZ4m8vCp9PHnOIT7gd30PCBoYCpGoQM&index=3>

Difference between NodeJs and Browser:

1. <https://nodejs.dev/en/learn/differences-between-nodejs-and-the-browser/>

What is V8 Engine:

1. <https://nodejs.dev/en/learn/the-v8-javascript-engine>

Asynchronous NodeJS:

1. https://www.youtube.com/playlist?list=PLC3y8-rFHvwj1_l8acs_IBi3a0HNb3bAN

Blocking vs Non Blocking:

1. <https://nodejs.org/en/docs/guides/blocking-vs-non-blocking/>

Event Loop Timers and Next Tick: *

1. <https://nodejs.org/en/docs/guides/event-loop-timers-and-nexttick/>

Don't Block the Event Loop:

1. <https://nodejs.org/en/docs/guides/dont-block-the-event-loop/>

How to run NodeJS from command line:

1. <https://nodejs.dev/en/learn/run-nodejs-scripts-from-the-command-line>
2. <https://nodejs.dev/en/learn/how-to-exit-from-a-nodejs-program>

Expose Functionality using exports:

1. <https://nodejs.dev/en/learn/expose-functionality-from-a-nodejs-file-using-exports>

What is NPM package manager and its alternatives (Yarn) ?

1. <https://nodejs.dev/en/learn/an-introduction-to-the-npm-package-manager>

Difference between installing a package locally and globally:

1. <https://nodejs.dev/en/learn/where-does-npm-install-the-packages>
2. <https://nodejs.dev/en/learn/npm-global-or-local-packages>

Package.json and package.lock.json? What's the difference?

1. <https://nodejs.dev/en/learn/the-package-json-guide>
2. <https://nodejs.dev/en/learn/the-package-lock-json-file>

Semantic Versioning:

1. <https://nodejs.dev/en/learn/semantic-versioning-using-npm>

Dev Dependencies:

2. <https://nodejs.dev/en/learn/npm-dependencies-and-devdependencies>

Event Emitter:

3. <https://nodejs.dev/en/learn/the-nodejs-event-emitter/>

Chapter 1:**Build an HTTP server:**

1. <https://nodejs.dev/en/learn/build-an-http-server>
2. <https://nodejs.dev/en/learn/making-http-requests-with-nodejs>
3. <https://nodejs.dev/en/learn/make-an-http-post-request-using-nodejs>
4. <https://nodejs.dev/en/learn/get-http-request-body-data-using-nodejs>
5. <https://nodejs.dev/en/learn/the-nodejs-http-module>
6. <https://nodejs.org/en/docs/guides/anatomy-of-an-http-transaction/>

Fs module in NodeJS:

1. <https://nodejs.dev/en/learn/working-with-file-descriptors-in-nodejs>
2. <https://nodejs.dev/en/learn/nodejs-file-stats>
3. <https://nodejs.dev/en/learn/nodejs-file-paths>
4. <https://nodejs.dev/en/learn/reading-files-with-nodejs>
5. <https://nodejs.dev/en/learn/writing-files-with-nodejs>
6. <https://nodejs.dev/en/learn/working-with-folders-in-nodejs>
7. <https://nodejs.dev/en/learn/the-nodejs-fs-module>

Path Module in NodeJs:

1. <https://nodejs.dev/en/learn/the-nodejs-path-module>

OS module in Nodejs:

1. <https://nodejs.dev/en/learn/the-nodejs-os-module>

Events module in NodeJs:

1. <https://nodejs.dev/en/learn/the-nodejs-events-module>

Buffers and Streams in Nodejs:

1. <https://nodejs.dev/en/learn/nodejs-buffers>
2. <https://nodejs.dev/en/learn/nodejs-streams>

Environments:

1. <https://nodejs.dev/en/learn/nodejs-the-difference-between-development-and-production>

Error Handling and Logs in NodeJS:

1. <https://nodejs.dev/en/learn/error-handling-in-nodejs>
2. <https://nodejs.dev/en/learn/how-to-log-an-object-in-nodejs>

Express:

<https://www.youtube.com/playlist?list=PLHiZ4m8vCp9PHnOIT7gd30PCBoYCpGoQM>

(From Video #15 to #23)

Dockerize NodeJs app:

1. <https://nodejs.org/en/docs/guides/nodejs-docker-webapp/>

Git & Github

1. <https://www.youtube.com/playlist?list=PLNMnAEqLBwmqnr-hhla2z-2janfkIDV4A>
2. <https://www.youtube.com/watch?v=oe21Nlq8GS4>

REACTJS

- [Think in react way - playlist](#)
- React Official Doc : <https://reactjs.org/docs/getting-started.html>
- [React hook](#)
- [MERN project by FreeCodeCamp](#)