

MERN Stack Resources

Resources | horizontech.dev | Ravi Kumar Vykuntham

Web Development Tools

Command Line

Setup

1. If you are using Windows, you can use the Git Bash terminal bundled with the Git installer as your command line. You can download it from <https://gitforwindows.org/>
2. If you are using a GNU/Linux system, use the Terminal emulator bundled in your distribution.
3. If you are on MacOS, you can use the Terminal app installed by default in Mac. You can also checkout iTerm for a more feature rich Terminal.

Command Line : Tutorials

1. [Command Line Crash Course](#)
2. [Learn enough command line to be dangerous](#)
3. [Codecademy command line course](#)

Git and version control

Setup

1. For Windows, download git bash from <https://gitforwindows.org/>
2. For Linux based distributions, see the installation notes at <https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>

Git and version control : Tutorials

1. [Learn enough Git to be dangerous](#)
2. <https://try.github.io/>
3. [Git Book](#)

Visual studio code

Setup

1. Download from here - <https://code.visualstudio.com/Download>

Visual studio code : Tutorials

1. <https://code.visualstudio.com/docs>
2. [The Coding Train tutorial](#)

Chrome developer tools

1. Bundled inside Chrome (or Chromium) browser.
2. Tutorial: [Google tutorial home](#)

CodePen

1. Setup : Signup at <https://codepen.io/>
2. Tutorial : <https://www.youtube.com/watch?v=pd1NX--k29c>

HTML : Tutorials

1. <https://htmldog.com/guides/html/>
2. <https://learn.shayhowe.com/html-css/>
3. <https://diveintohtml5.info/>

HTML : Reference

1. <https://developer.mozilla.org/en-US/docs/Web/HTML>
2. <http://www.scriptingmaster.com/html/HTML-reference-pages.asp>
3. [Dev Docs](#) - Contains documentation for HTML & CSS along with many other open source technologies.

HTML : Further Reading

1. [New HTML5 structural elements](#)
2. [HTML5 video introduction](#)
3. [input tag reference](#)
4. [HTML validator](#)

CSS : layout tutorials

1. [Floats](#)
2. [Centering elements](#)
3. [CSS layouts](#)
4. [The box model](#)
5. [Create a simple CSS grid system](#)
6. [More CSS floats](#)
7. [CSS positioning in depth](#)
8. [CSS layout - interactive tutorial](#)

CSS : Reference

1. <https://developer.mozilla.org/en-US/docs/Web/CSS/Reference>
2. https://tympanus.net/codrops/css_reference/
3. <https://cssreference.io/>
4. [CSS vocabulary](#)
5. [Dev Docs](#) - Contains documentation for HTML & CSS along with many other open source technologies.

CSS : libraries

1. [Eric Meyer's CSS reset](#)
2. [Normalize.css](#)
3. [Bootstrap](#)

CSS : useful links

1. [Styling lists](#)
2. [CSS validator](#)
3. [Magic of CSS](#)

JavaScript : Tutorials

1. <https://html5dog.com/guides/javascript/>
2. [JavaScript for cats](#) - Easy one to complete compared to others.
3. [Eloquent JavaScript book](#)
4. [Mozilla Developer Network JavaScript tutorial](#)
5. [A re-introduction to JavaScript](#) From MDN again. Kind of a crash course.
6. [The JS way](#)
7. [You don't know JS](#) A book about many JavaScript language features in detail.

JavaScript : Reference & Books

1. <https://developer.mozilla.org/bm/docs/Web/JavaScript>
2. [JS Garden](#) - A collection of docs about quirky parts of JavaScript.
3. [Professional JavaScript for web developers](#)
4. [JavaScript: The definitive guide](#)

JavaScript : E6 Specific Resources

1. [ES6 features in bullet points](#)
2. [Understanding ES6 \(book\)](#)
3. [JS event loop explained](#)

jQuery : Tutorials

1. <https://learn.jquery.com/>
2. <https://www.codecademy.com/learn/learn-jquery>
3. <https://css-tricks.com/lodge/learn-jquery/>

NodeJS : Setup

1. Download from here - <https://nodejs.org/en/>
2. If you are using a GNU/Linux distribution, please use your package managed to install NodeJS.

NodeJS : Tutorials

1. [Art of Node](#)
2. [Mastering Node](#)
3. [How to Node, A collection of node tutorials](#)
4. [Node event loop and event driven programming](#)
5. [How does Node work](#)
6. [Interactive guide](#)
7. [You don't know Node](#)
8. [Teach yourself Node in 10 steps](#)
9. [JavaScript for everyone](#)

ExpressJS : Setup

1. If you have Node and NPM installed, run **npm install express**
2. [Hello World example](#)
3. [Routing Guide](#)
4. [Template engine Wiki](#)

ExpressJS : Tutorials

1. [Examples for Express apps](#)
2. [Node and Express introduction](#)

Handlebars

Setup

Follow the instruction here - <https://github.com/pillarjs/hbs#install>

Documentation : <https://handlebarsjs.com/>

Tutorials : [Learn everything about Handlebars](#)

Express body parser

Setup

After **cd** ing into your project directory, run **npm install body-parser**

Documentation : <https://github.com/expressjs/body-parser>

MongoDB : Setup

1. Windows users - Download and install from here -
<https://www.mongodb.com/download-center/community>
2. Linux users - Follow the setup instruction here -
<https://docs.mongodb.com/manual/administration/install-on-linux/>

MongoDB : Installation Notes & Docs

1. For those who are on Windows 8 and below, you might need to start the MongoDB server manually. Go to the installation directory in your command line and run **./mongod.exe** to start the server.
2. [Mongo manual](#)
3. [Mongo University](#) From the creators of MongoDB itself.

MongoDB : Tutorials

1. MongoDB "CRUD" operations -

<https://docs.mongodb.com/manual/crud/>

Using MongoDB with NodeJS

1. To install the native driver, run **npm install mongodb**
2. Documentation - <https://mongodb.github.io/node-mongodb-native/>
3. <https://www.mongodb.com/blog/post/the-modern-application-stack-part-2-using-mongodb-with-nodejs>