**NODE JS**

           Node.js is an open-source run-time environment developed by Ryan Dahl in 2009 for creating server-side applications using Javascript. It is a JavaScript framework built on Google Chrome’s JavaScript Engine, otherwise known as V8 Engine, and runs single-threaded, non-blocking and asynchronous programming.

<!--- video here ---!>

package.json

This file can be initialized from the command line using **npm init**, and is a required file for a Node.js project. This goes in the root of your package/ application, and tells npm how your package is structured and what to do to install it. The file also holds things like the name of your application, its version, main entry point to the app, author, license, and dependencies.

npm

Also known as Node.js Package Manager, this is used to install node modules created by the community (all modules can be searched for on npmjs.com, and are installed into the node\_modules folder). If dependencies have already been specified in the package.json file, npm will check the file for the list of dependencies before downloading it with **npm install**.

Examples on downloading/installing a module:

npm install moduleName – module will be installed in the node\_modules folder

npm install moduleName -g – module will be installed globally, in your system so you can access it not only in that location/ directory

npm install moduleName --save – module will be installed, and it will be written as a dependency in the package.json file.

Popular modules

1. Express – Web development framework
2. Connect – Extensible HTTP server framework, the baseline for express
3. Socket.io – Server-side component for websockets
4. Pug – Template engine inspired by HAML
5. Mongo/Mongoose – Wrappers to interact with MongoDB

How to run a node.js server:

run the main .js file from the command line. If the entry point to the app is index.js, for example, run node index.js