<https://www.youtube.com/watch?v=P3aKRdUyr0s>

**What is NPM, and why do we need it? | Tutorial for beginners**

Pre-background

-Sass are not readable by browser, so need to convert them into CSS

NPM

-package manager for node js

-huge repo for open source software

-to use it, install Node js, installs node and npm at same time (JS runtime env that executes JS code outside web browser)

Locally vs Globally

-usually only install global packages that are meant to be run on command line

-npm install -g <packagename>

package.json file

-stores info about project and dependencies

-npm install use package.json (npm init -y to create json file, -y to get default values)

Node\_modules

-npm stores all package files

npm list

-to display a list of all installed packages

Versioning (npm view <packagename?> versions)

-uses semantic major.minor.patch

Major

-big changes, not backwards compatible, will probably break code

Minor

-usually backwards compatible, ideally wont break older builds

Patch

-small bug fixes



-use npm update

-Will update the package to the latest minor and patch version

-You can update to 5 by npm install chalk@latest or npm install chalk@5

npm install chalk@~2.2

-only latest minor version so patch will only be updated

Package-lock.json

-records actual specific versions of each package and dependency



<https://stackoverflow.com/questions/44297803/what-is-the-role-of-the-package-lock-json>