JS

NPM

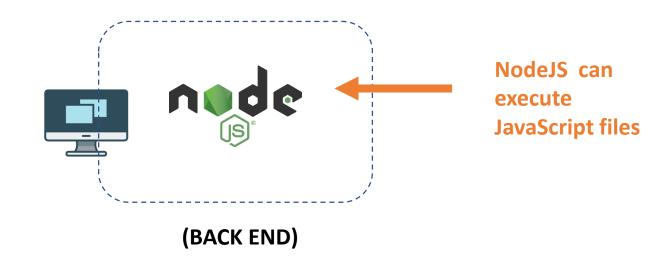
External packages - dependencies



- ✓ What NPM is used for ?
- ✓ Install an NPM PACKAGE
- ✓ Install DEPENDANCIES on an existing project

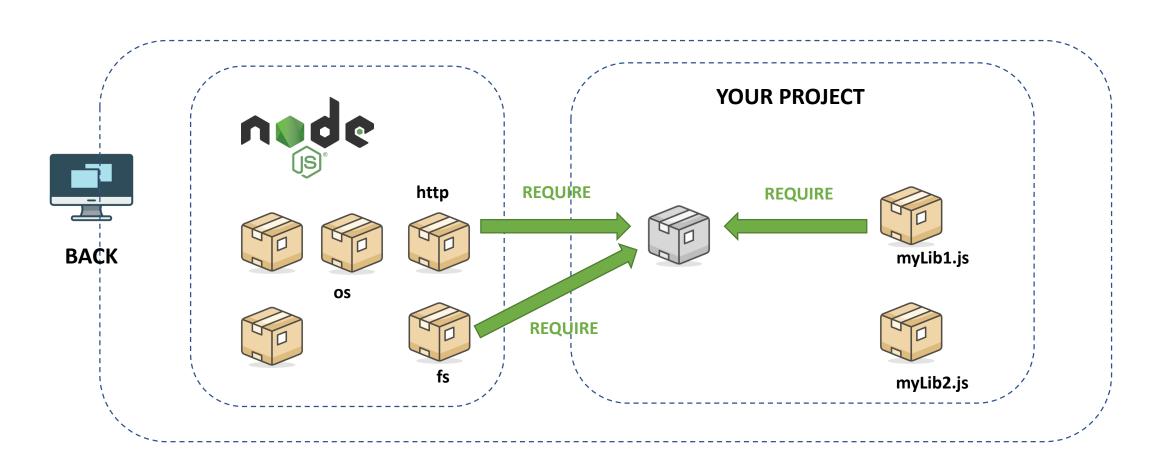
# WHAT DID WE LEARN LAST SESSION?

### A back end is basically a **program** running **all day** on a computer

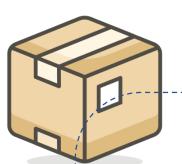


To write your code, you can use other modules

- Use Node built-in modules
- Use your own modules



#### You can export variable or functions



#### library.js

let a=2

let b=2

let c=2

module.exports.a =a;

module.exports.b =b;

#### main.js

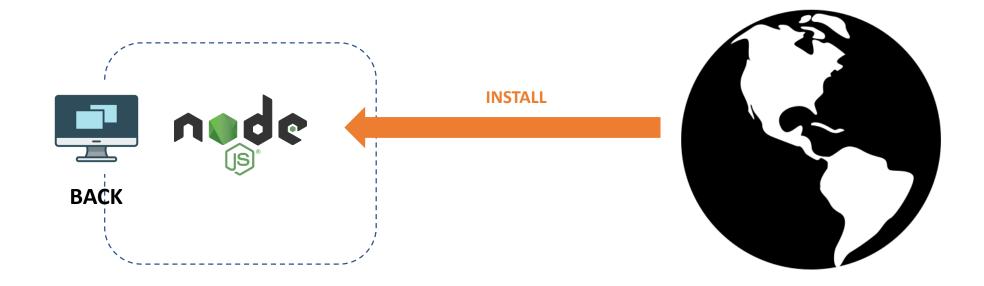
let lib = require("./library.js");

lib.a AVAILABLE

lib.b AVAILABLE

lib.c NOT AVAILABLE

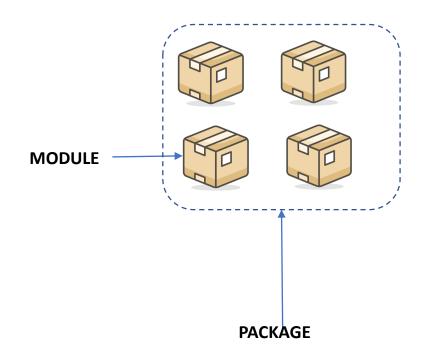
#### What about installing a MODULE from the WEP?







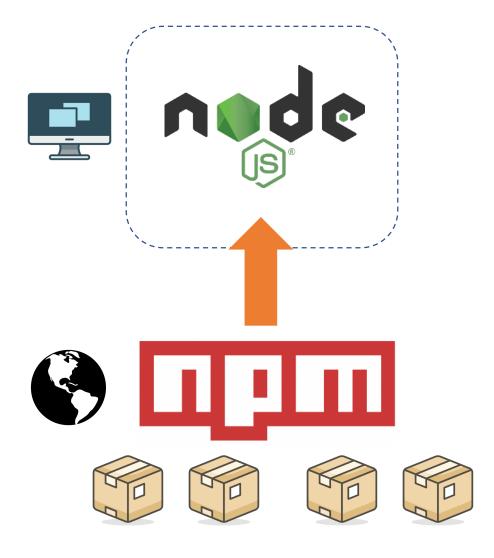
#### A package is just of list of modules



### Using the MARKETPLACE to get some new TOOLS

#### **EXTENSIONS: MARKETPLACE** python **Python** 2019.8.29288 Linting, Debugging (multi-threaded, rei Microsoft **Python for VSCode** 0.2.3 Python language extension for vscode Thomas Haakon Townsend **Python Extension Pack** 1.6.0 Popular Visual Studio Code extensions Don Jayamanne Python Extended 0.0.1 Python Extended is a vscode snippet th Taiwo Kareem **AREPL for python** 1.0.16 real-time python scratchpad **Almenon**

### Using **NPM**to get some new **MODULES**



#### **#STEP 1: Make your project an NPM project**

Create a project and run:

npm init

What happen on your project?

#### **#STEP 2: Install an NPM package**

Install a package

npm install chalk

What happen on your project?

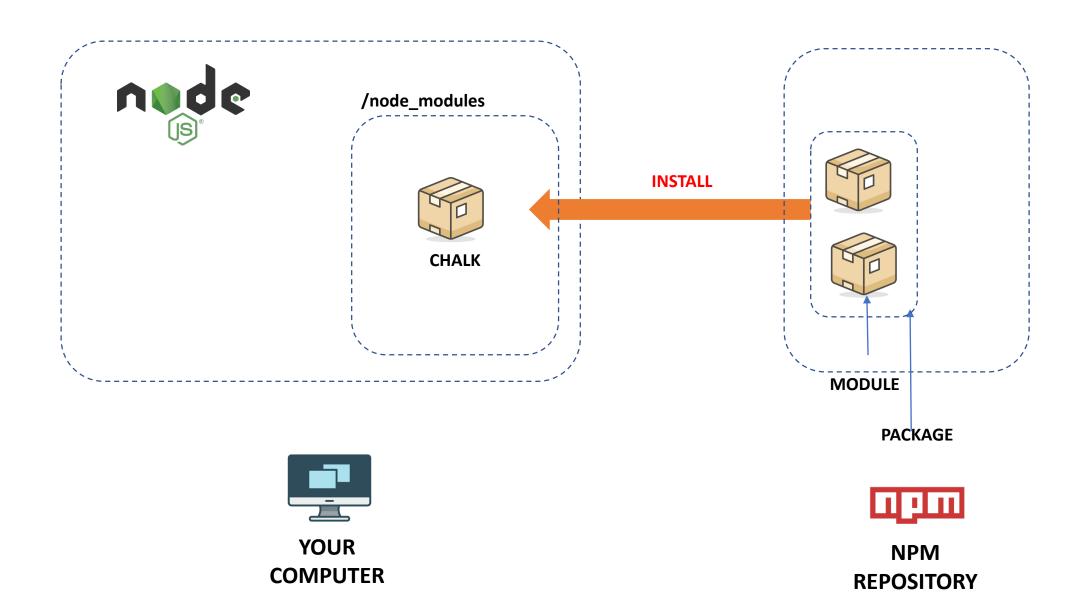
#### **#STEP 3 : Use your package**

Create a JS file and require the package

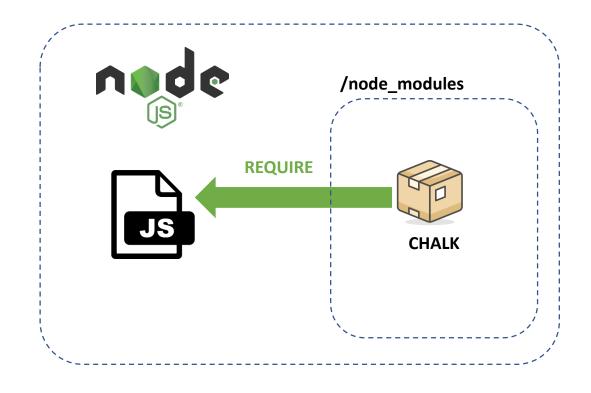
```
const chalk = require('chalk');
console.log(chalk.blue('Hello world!'));
```

What happen when you run your code?

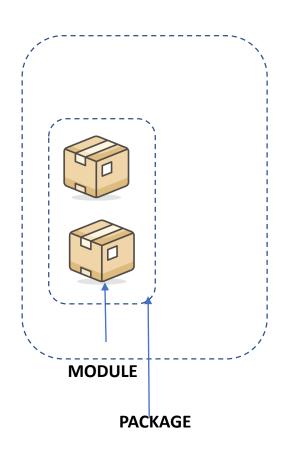
#### NPM downloads the package to the folder /node\_modules



#### Then you can use it : require









NPM REPOSITORY

#### What it the package.json?

#### **Project informations** "name": "npm-test", "version": "1.0.0", "description": "folder to test stuff about npm for the npm course", "main": "index.js", "scripts": { "test": "echo \"Error: no test specified\" && exit 1" "author": "", "license": "ISC", **Packages installed** "dependencies": { = dependencies "chalk": "^4.1.1"

#### Can we remove /node\_modules?

1 – Install another package : axios

```
npm install axios
```

What happen on your package.json?
What happen on your /node\_modules?

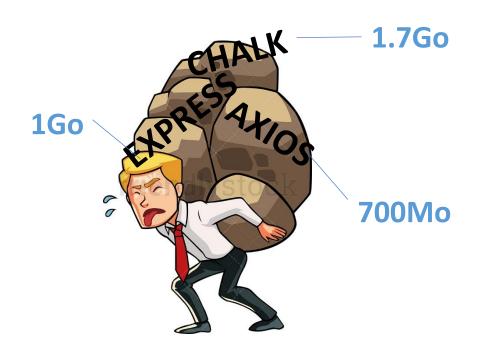
- 2 Remove the folder /node\_modules
- 3 Install all your package dependencies again:

npm install

What happen on your /node\_modules?

## You should not send /node\_modules folder to your friend!

Contain a lot of data



Instead run:

npm install





Will download dependancies defined in package.json

# ACTIVITY-1 Follow instructions on main.js

# ACTIVITY-2 Follow instructions on main.js



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