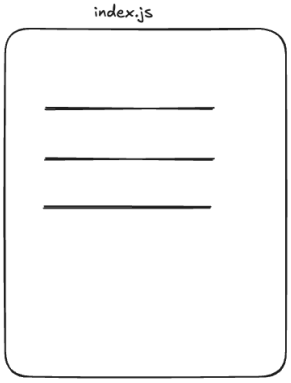


JS -> very functional in nature

```
class Product {
}
```

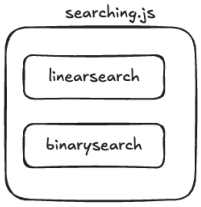
→

```
function Product() {
}
```

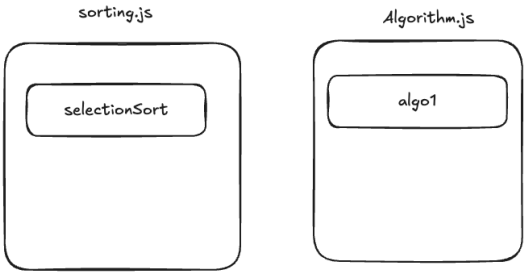
Module in Nodejs

To improve reusability of your code and enhance maintainability as well, we can segregate our functions, classes and variables in different files, and then whenever we need them we can use them in other files.

This concept is called module pattern in nodejs.



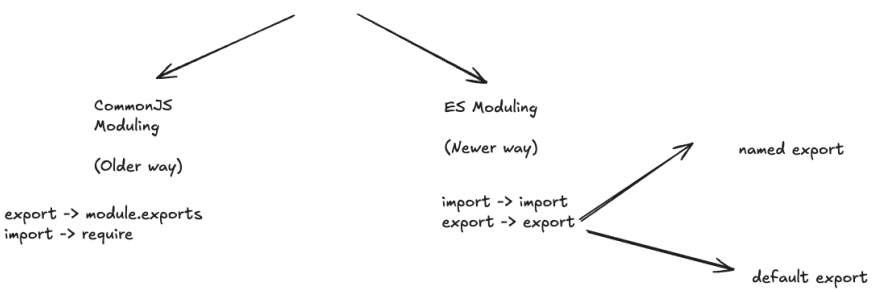
Module is just a reusable piece of js code that is present in a file.



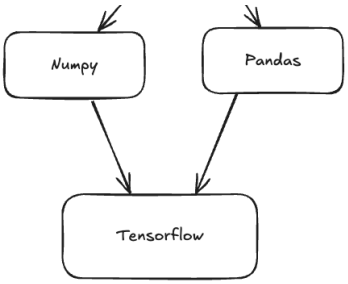
1. Step 1 -> You need expose certain functions, variables, classes etc whatever you want from a module so that it becomes visible to the other modules.

2. Step 2 -> Once you have exposed something, you need to starting consuming it in other modules.

Nodejs gives us two ways to implement this export and import mechanism.



Package/Library/Module management / Build systems



Dependency graph

-> Topological sort

Node -> npm

Python -> pip

Ruby -> bundler

...
...

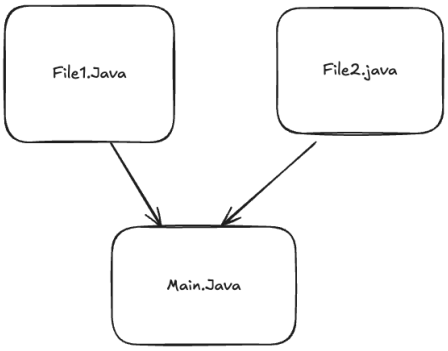
Tool / Software that manage this dependency graph resolution for us

OS level package managers

Linux -> apt (debian)
yum(red hat)

Mac -> brew

Windows -> chocolatey



Dependency graph