

# nodejs

## NPM lesson1

If you've been working with JavaScript for a while, you might have heard of MPM. MPM makes it easy for JavaScript developers to share the code that they've created to solve particular problems, and for other developers to reuse that code in their own applications. Once you're depending on this code from other developers, MPM makes it really easy to check to see if they've made any updates to it and to download those updates when they're made. These bits of reusable code are called packages or sometimes modules. A package is just a directory with one more files in it that also has a file called package.json with some metadata about this package. A typical application, such as a website, will depend on dozens or hundreds of packages. These packages are often small. The general idea is you create a small building block which solves one problem and solves it well. This makes it possible for you to compose larger custom solutions out of these small shared building blocks. There's lots of benefits to this. It makes it possible for your team to draw on expertise from outside of your organization by bringing in packages from people who have focused on particular problem areas. But even if you don't reuse code from people outside of your organization, using this kind of module-based approach can actually help your team work together better and can also make it possible for you to reuse code across projects. You can find packages to help people with your application by browsing the MPM website. When you're browsing the website, you'll find different kinds of packages. You'll find lots of node modules. MPM started as the node package manager. So you'll find lots of modules which can be used on the server side. There are also lots of packages which add commands for you to use on the command line. And at this point, you can find a number of packages which can be used in the browser on the front end. So now that you have an idea of what MPM can do, let's talk about how it works. When people talk about MPM, they can be talking about one of three things. They could be talking about the website which we've just been looking at. Or they could be talking about the registry which is basically a big database of information about packages that people are sharing. Or the third thing they could be talking about is the MPM client. When a developer decides to share their code, they use the MPM client which is installed on their computer to publish that code up to the registry. And once there's an entry for this package in the registry, then other developers can use their MPM clients to install the package from the registry. The entry in the registry for this package is also reflected on the website where there's a page dedicated to the new package. So that's what MPM is. It's a way to reuse code from other developers and also a way to share your code with them. And it makes it easy to manage the different versions of code. Now that you have a handle on the basic concepts, you can check out our channel for more videos which will help get you started using MPM.

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