

# yarn berry

An alternative package manager, mark II

# yarn berry

Yarn v2

No `node_modules`

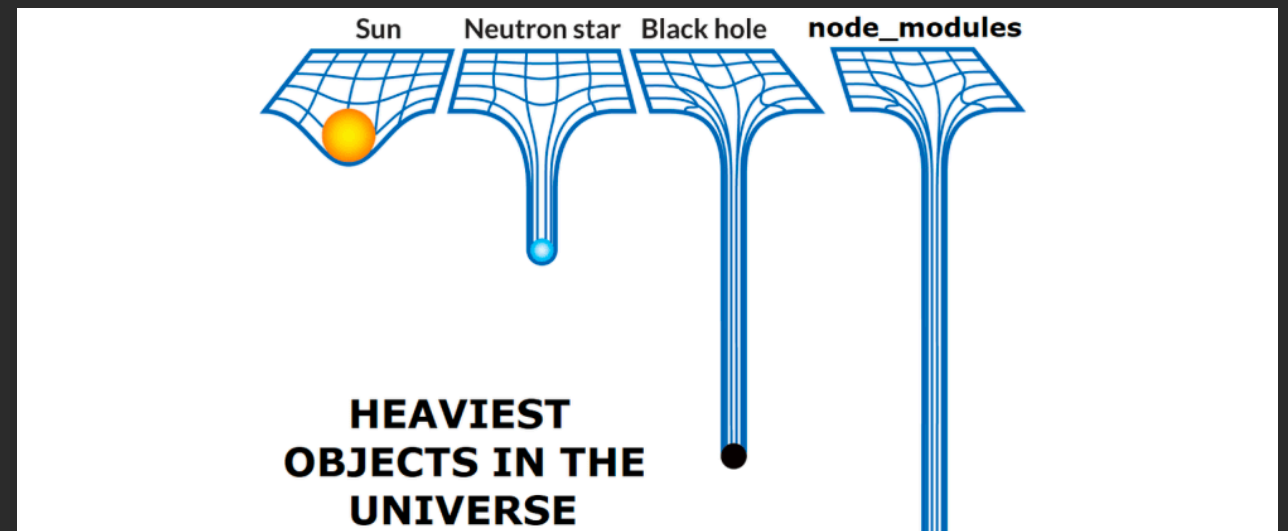
Plug'n'Play

# node\_modules

What's the problem?

# node\_modules

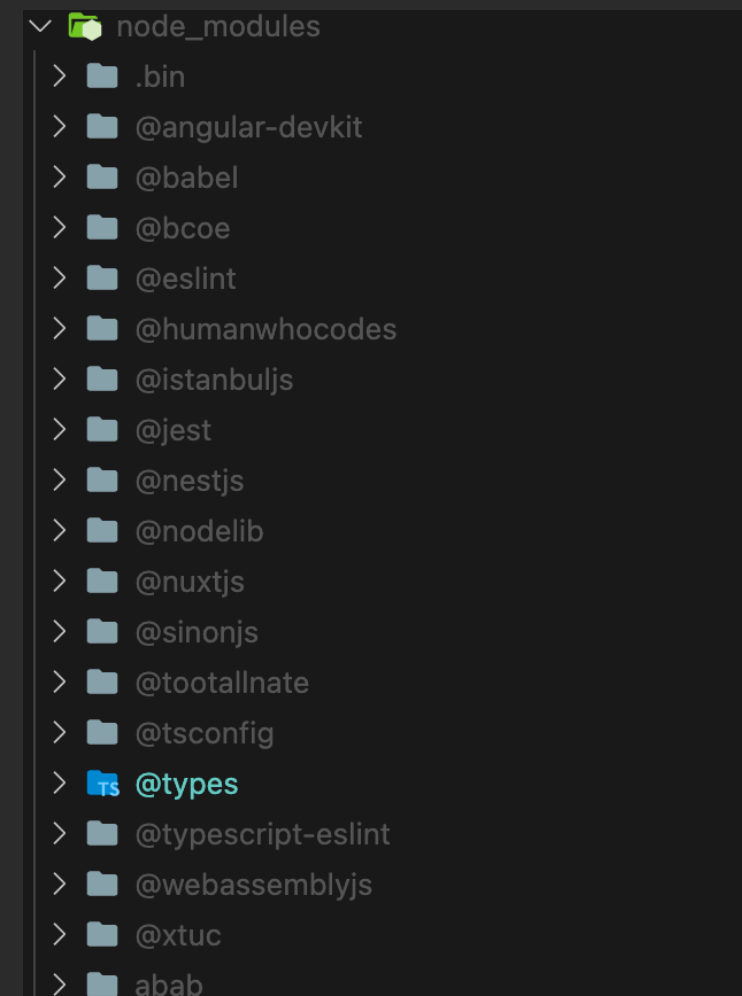
Too many files



# node\_modules

Too many files

Less Optimization Chances



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Phantom Dependency



# node\_modules

Too many files

Less Optimization Chances

Phantom Dependency

Slow Booting

```
require(X) from module at path Y
1. If X is a core module,
   a. return the core module
   b. STOP
2. If X begins with '/'
   a. set Y to be the filesystem root
3. If X begins with './' or '/' or '../'
   a. LOAD_AS_FILE(Y + X)
   b. LOAD_AS_DIRECTORY(Y + X)
   c. THROW "not found"
4. If X begins with '#'
   a. LOAD_PACKAGE_IMPORTS(X, dirname(Y))
5. LOAD_PACKAGE_SELF(X, dirname(Y))
6. LOAD_NODE_MODULES(X, dirname(Y))
7. THROW "not found"
```

# PnP

**A new way to resolve dependencies**



# PnP

Dependency Resolution: Node → Yarn

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Dependency Resolution: Node → Yarn

node\_modules → .pnp.cjs

```
    ["@apidevtools/json-schema-ref-parser", [
      ["npm:9.0.7", {
        "packageLocation": "./.yarn/cache/@apidevtools-j
        "packageDependencies": [
          ["@apidevtools/json-schema-ref-parser", "npm:9
          ["@jsdevtools/ono", "npm:7.1.3"],
          ["call-me-maybe", "npm:1.0.1"],
          ["js-yaml", "npm:3.14.1"]
        ],
        "linkType": "HARD",
      }]
    ]],
    ["@apidevtools/openapi-schemas", [
      ["npm:2.0.4", {
        "packageLocation": "./.yarn/cache/@apidevtools-o
        "packageDependencies": [
          ["@apidevtools/openapi-schemas", "npm:2.0.4"]
        ],
        "linkType": "HARD",
      }]
    ]],
  ]],
```

# PnP

Dependency Resolution: Node → Yarn

node\_modules → .pnp.cjs

Fast, Optimized

```
    ["@apidevtools/json-schema-ref-parser", [
      ["npm:9.0.7", {
        "packageLocation": "./.yarn/cache/@apidevtools-j",
        "packageDependencies": [
          ["@apidevtools/json-schema-ref-parser", "npm:9",
          ["@jsdevtools/ono", "npm:7.1.3"],
          ["call-me-maybe", "npm:1.0.1"],
          ["js-yaml", "npm:3.14.1"]
        ],
        "linkType": "HARD",
      }],
    ]],
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        ],
        "linkType": "HARD",
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    ]],
  ],
```

# Usage



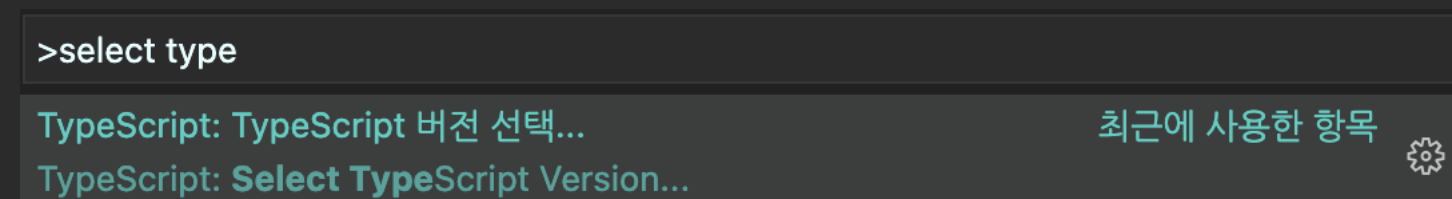
# Usage

## Set version to berry

```
yarn set version berry && yarn
```

## Setup VSCode integrations

```
yarn dlx @yarnpkg/sdks vscode
```



## Plugins

### Typescript

```
yarn plugin import typescript
```

### For non-compatible environment

```
$ cat "nodeLinker: node-modules" >> .yarnrc.yml
```

# Questions

