## **Update Dependencies**

Class Note • 1 backlink • Tag

1. Update npm

```
npm install -g npm@10.9.0
```

```
    (base) chris@YINGdeMacBook-Air codesnip % npm install -g npm@10.9.0
    removed 25 packages, and changed 97 packages in 2s
    25 packages are looking for funding run `npm fund` for details
```

2. Run ncu to check available update and ncu -r to update

```
^8.1.0
^10.0.10
^4.2.5
^22.9.1
                                         ^8.0.0 →

^4.0.1 →

^12.11.7 →
@types/mocha
@types/mustache
@types/node
 @types/vscode
@typescript-eslint/eslint-plugin
@typescript-eslint/parser
eslint
 glob
mocha
mustache
 typescript
                                                           ^1.6.1
vscode-test
webpack
                                                          ^5.96.1
^5.1.4
>=5.0.8
                                           ^5.76.0
 webpack-cli
 y18n
                                           >=4.0.1
```

- 3. Run npm install to install the dependencies
  - There are some warning, we can ignore them.

```
© base) chrisgYINGdeMacBook-Air codesnip % npm install npm warn deprecated inflighted, 0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache if you want a good and tested way to coales a sync requests by a key value, which is much more comprehensive and powerful.
npm warn deprecated rimmrefa2.1.2: Rimmref versions prior to v4 are no longer supported npm warn deprecated rimmrefa2.0.2: Rimmref versions prior to v4 are no longer supported npm warn deprecated globe? 2.2: Glob versions prior to v9 are no longer supported npm warn deprecated globe? 2.2: Glob versions prior to v9 are no longer supported npm warn deprecated globe? 2.2: Glob versions prior to v9 are no longer supported npm warn deprecated fstream@1.0:12. This package is no longer supported npm warn deprecated vscode-test@1.0:1: This package is no longer supported npm warn deprecated vscode-test@1.0:1: This package has been renamed to @vscode/test-electron, please update to the new name npm warn deprecated globe@3.1.0: Glob versions prior to v9 are no longer supported
added 347 packages, and addited 348 packages in 23s
71 packages are looking for funding run 'npm fund' for details
found 0 vulnerabilities
```

- 4. Run npm run compile to try to compile the files
  - There are errors in the
    - 1. src/data/fileDataAccess.ts
    - 2. src/test/suite/index.ts
  - Fix the errors
    - In src/data/fileDataAccess.ts , the
       fs.readFileSync(this.\_dataFile, this.\_encoding); takes a
       BufferEncoding as the encoding type instead of a string, so we
       changed \_encoding to BufferEncoding type.

```
TypeScript \
//private _encoding = 'utf8';
// fs.readFileSync() takes BufferEncoding instead of string
private _encoding: BufferEncoding = "utf-8";
```

2. In index.ts, the way to import glob has changed.

## **Correct Import for glob (with Promise support)**

If you are using **glob** and want to work with the **Promise-based version** of the function, you need to make sure you're importing the correct version of glob.

Here's how you can import and use it correctly, assuming you're using the newer version (glob 8.x or higher), which supports promises:

```
TypeScript \
// import * as glob from 'glob'; // For glob 7.x and below
import glob from 'glob';
```

This is because glob has moved to exporting the function as the default export in the newer versions. In older versions, you might have been using import \* as glob from 'glob', but now it's the default export.

## Using glob with Promises

With glob 8.x+ and the correct import, you can use it with Promises as follows (glob 7.x and below is call-back only):

```
TypeScript ~
export function run(): Promise<void> {
    // Create the mocha test
    const mocha = new Mocha({
        ui: 'tdd',
        color: true
    3);
    const testsRoot = path.resolve(__dirname, '..');
    return new Promise((c, e) => {
        // Call-back version
        // glob('**/**.test.js', { cwd: testsRoot }, (err, files) => {
                if (err) {
        //
                    return e(err);
                3
        //
        // Promise version
        glob('**/**.test.js', { cwd: testsRoot })
            .then((files: string[]) => {
            // other stuff are the same...
       3);
   3);
3
```

- ESLint
  - The new ESLint configuration format introduced in ESLint v8.21.0. In this format, eslint.config.js and certain command-line flags, such as --ext, are no longer supported. And we need to migrate the .eslintrc.json file to eslint.config.js using:

```
TypeScript \
// https://eslint.org/docs/latest/use/configure/migration-
guide#migrate-your-config-file
npx @eslint/migrate-config .eslintrc.json
```

• We need to change the ESLint command for npm

```
TypeScript ~
// package.json
// "lint": "eslint src --ext ts",
"lint": "eslint src",
```

• And change the test configue for GitHub test

- name: Run ESLint

```
TypeScript ~
// .github/workflows/unit-tests.yml
// node-version: 16.x
node-version: 22.x
TypeScript ~
// .github/workflows/code-analysis.yml
```

// run: npx eslint src --ext ts --max-warnings=0

run: npx eslint src --max-warnings=0