

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 -i to update

```
(base) chris@YINGdeMacBook-Air codesnip % ncu
Checking /Users/chris/UCSDClass/24Fall/CSE210/codesnip/package.json
[=====] 18/18 100%

@types/glob      ^7.1.3  -> ^8.1.0
@types/mocha     ^8.0.0  -> ^10.0.10
@types/mustache  ^4.0.1  -> ^4.2.5
@types/node      ^12.11.7 -> ^22.9.1
@types/vscode    ^1.75.0  -> ^1.95.0
@typescript-eslint/eslint-plugin ^4.1.1  -> ^8.15.0
@typescript-eslint/parser ^4.1.1  -> ^8.15.0
eslint          ^7.9.0  -> ^9.15.0
glob            ^7.1.6  -> ^11.0.0
mocha          ^9.1.3  -> ^10.8.2
mustache        ^4.0.1  -> ^4.2.0
ts-loader       8.2.0   -> 9.5.1
typescript      ^4.0.2  -> ^5.6.3
vscode-test     ^1.4.0  -> ^1.6.1
webpack         ^5.76.0 -> ^5.96.1
webpack-cli     ^4.2.0  -> ^5.1.4
y18n            >=4.0.1 -> >=5.0.8
```

```
(base) chris@YINGdeMacBook-Air codesnip % ncu -u
Upgrading /Users/chris/UCSDClass/24Fall/CSE210/codesnip/package.json
[=====] 18/18 100%

@types/glob      ^7.1.3  -> ^8.1.0
@types/mocha     ^8.0.0  -> ^10.0.10
@types/mustache  ^4.0.1  -> ^4.2.5
@types/node      ^12.11.7 -> ^22.9.1
@types/vscode    ^1.75.0  -> ^1.95.0
@typescript-eslint/eslint-plugin ^4.1.1  -> ^8.15.0
@typescript-eslint/parser ^4.1.1  -> ^8.15.0
eslint          ^7.9.0  -> ^9.15.0
glob            ^7.1.6  -> ^11.0.0
mocha          ^9.1.3  -> ^10.8.2
mustache        ^4.0.1  -> ^4.2.0
ts-loader       8.2.0   -> 9.5.1
typescript      ^4.0.2  -> ^5.6.3
vscode-test     ^1.4.0  -> ^1.6.1
webpack         ^5.76.0 -> ^5.96.1
webpack-cli     ^4.2.0  -> ^5.1.4
y18n            >=4.0.1 -> >=5.0.8
```

3. Run npm install to install the dependencies

- There are some warning, we can ignore them.

```
(base) chris@YINGdeMacBook-Air codesnip % npm install
npm warn deprecated inflight@1.0.6: 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 coalesce async requests by a key value, which is much more comprehensive and powerful.
npm warn deprecated rimraf@2.7.1: Rimraf versions prior to v4 are no longer supported
npm warn deprecated rimraf@3.0.2: Rimraf versions prior to v4 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated glob@7.2.3: 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@1.6.1: This package has been renamed to @vscode/test-electron, please update to the new name
npm warn deprecated glob@8.1.0: Glob versions prior to v9 are no longer supported

added 347 packages, and audited 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
 1. In `src/data/fileDataAccess.ts`, the `fs.readFileSync(this._dataFile, this._encoding);` takes a `BufferEncoding` as the encoding type instead of a `string`

TypeScript ▾

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

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
  });

  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);
      //   }

      // Promise version
      glob('*/*.test.js', { cwd: testsRoot
    })

      .then((files: string[]) => {
        // other stuff are the same...

      });
    });
  });
}
```