CommonJS vs ES Modules

CommonJS

- Older type of writing modules
- Popularized by NodeJS
 - CommonJS modules were the only supported style of modules in NodeJS up until version 12.

Using CommonJS

- You can mark your file as a CommonJS module by either
 - Naming it with the .cjs extension
 - Ousing type: "commonjs" in package.json (default)

CommonJS syntax

```
module.exports.add = function (a, b) {
  return a + b;
```

anotherfile.cjs

```
const { add } = require("./util");
console.log(add(5, 5)); // 10
```

EcmaScript (ES) Modules

- EcmaScript standard way of writing modules.
 - Newer system
- Natively supported module style in browsers and all modern runtimes

Using ESM

- You can mark your file as a ES module by either
 - Naming it with the .mjs extension
 - Ousing type: "module" in package.json

ESM syntax

```
util.mjs

export function add(a, b) {
  return a + b;
}

app.mjs
```

import { add } from "./util.mjs"; // Note the extension is required.
console.log(add(5, 5)); // 10

Comparison



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Comparison

https://dev.to/greenteaisgreat/the-ongoing-war-between-cjs-esm-a-tale-of-two-module-systems-1jdg

TypeScript

https://www.typescriptlang.org/docs/handbook/modules/theory.html#module-resolution