Modules ES6 Cheatsheet

Prior to ES6, we used libraries such as Browserify to create modules on the client-side, and require in Node.js. With ES6, we can now directly use modules of all types (AMD and CommonJS).

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Exporting in CommonJS

module.exports = 1:
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module.exports = [ foo: 'bar' ];
module.exports = ['foo', 'bar'];
module.exports = function bar () {};
Exporting in ES6
With ES6, we have various flavors of exporting. We can perform Named Exports:
export let name = 'David';
export let age = 25;ââ
As well as exporting a list of objects:
function sumTwo(a, b) {
      return a + b;
function sumThree(a, b, c) {
     return a + b + c;
export { sumTwo, sumThree };
We can also export functions, objects and values (etc.) simply by using the export keyword:
export function sumTwo(a, b) {
     return a + b;
export function sumThree(a, b, c) {
   return a + b + c;
And lastly, we can export default bindings:
function sumTwo(a, b) {
      return a + b;
function sumThree(a, b, c) {
   return a + b + c;
let api = {
     sumThree
export default api;
/* Which is the same as
 * export { api as default };
               Best Practices: Always use the export default method at the end of the module. It makes it clear what is being exported, and saves time by having to figure out what name a value was exported as. More so, the common practice in CommonJS modules is to export a single value or object. By sticking to this paradigm, we make our code easily readable and allow ourselves to interpolate between CommonJS and ES6 modules.
Importing in ES6
ES6 provides us with various flavors of importing. We can import an entire file
               It is important to note that simply importing an entire file will execute all code at the top level of that file
Similar to Python, we have named imports:
import { sumTwo, sumThree } from 'math/addition';
We can also rename the named imports:
      sumTwo as addTwoNumbers,
      sumThree as sumThreeNumbers
} from 'math/addition';
In addition, we can import all the things (also called namespace import):
import * as util from 'math/addition';
Lastly, we can import a list of values from a module:
import * as additionUtil from 'math/addition';
const { sumTwo, sumThree } = additionUtil;
Importing from the default binding like this:
import api from 'math/addition';
// Same as: import { default as api } from 'math/addition';
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import React, { Component, PropTypes } from 'react';

Note: Values that are exported are bindings, not references. Therefore, changing the binding of a variable in one module will affect the value within the exported module. Avoid changing the public

While it is better to keep the exports simple, but we can sometimes mix default import and mixed import if needed. When we are exporting like this:



When importing a module exported using commonjs syntax (such as React) we can do:

export { foo as default, foo1, foo2 };

import foo, { foo1, foo2 } from 'foos';

const { Component, PropTypes } = React;

interface of these exported values

We can import them like the following:

This can also be simplified further, using: