

ECMAScript MODULES

introduction

enabling

package.json "type" field

package scope & file extensions

--input-type flag.

packages.

package entry points.

main entry point export

subpath exports

package exports fallbacks.

exports sugar

conditional exports

nested conditions

self-referencing a package using its name

dual commonjs / es module packages

dual package hazard

writing dual packages while avoiding or minimizing hazards.

approach #1 use an ES module wrapper

approach #2 isolate state
↳ SLG

import specifiers.

terminology

data: imports

import.meta.

differences between ES modules and commonJS.

- mandatory file extensions

- no NODE_PATH

- no require, exports, module.exports, ^{--dirname} _{--filename}

- no require.resolve

- no require.extensions

- no require.cache

- URL-based paths.

interoperability with commonJS.

- require

- import statements

- import expressions

CommonJS, JSON, and native modules.

- builtin modules

- experimental JSON modules

- experimental Wasm modules.

- experimental top-level await

- experimental loaders

hooks.

- resolve hook

- getFormat hook

- getSource hook

- transformSource hook

- getGlobalPreloadCode hook

- dynamicInstantiate hook

example

- HTTPs loader

- transpiler loader

resolution algorithm

features

resolver algorithm

customizing ECM specifier resolution algorithm.

{ import tinyurl like unpkg, SHA sum }