

This example show how to use Code Splitting with the ES6 module syntax.

The standard `import` is sync.

`import(module: string) -> Promise` can be used to load modules on demand. This acts as a split point for webpack and creates a chunk.

Providing dynamic expressions to `import` is possible. The same limits as with dynamic expressions in `require` calls apply here. Each possible module creates an additional chunk. In this example `import("c/" + name)` creates two additional chunks (one for each file in `node_modules/c/`). This is called "async context".

example.js

```
import a from "a";

import("b").then(function(b) {
  console.log("b loaded", b);
})

function loadC(name) {
  return import("c/" + name);
}

Promise.all([loadC("1"), loadC("2")]).then(function(arr) {
  console.log("c/1 and c/2 loaded", arr);
});
```

dist/output.js

```
/***/ ((() => { // webpackBootstrap
/***/      var __webpack_modules__ = ([
/* 0 */,
/* 1 */
/*!*****!\
*** ./node_modules/a.js ***!
\*****/
/*! unknown exports (runtime-defined) */
/*! runtime requirements: */
/***/ ((() => {

// module a

/***/ }),
/* 2 */
/*!*****!\
*** ./node_modules/c/ lazy ^\.\.*$ namespace object ***!
\*****/
/*! default exports */
```

```

    /*! exports [not provided] [no usage info] */
    /*! runtime requirements: module, __webpack_require__.o, __webpack_require__,
    __webpack_require__.e, __webpack_require__.t, __webpack_require__.* */
    /***/ ((module, __unused_webpack_exports, __webpack_require__) => {

var map = {
  "./1": [
    4,
    346
  ],
  "./1.js": [
    4,
    346
  ],
  "./2": [
    5,
    98
  ],
  "./2.js": [
    5,
    98
  ]
];
};

function webpackAsyncContext(req) {
  if(!__webpack_require__.o(map, req)) {
    return Promise.resolve().then(() => {
      var e = new Error("Cannot find module '" + req + "'");
      e.code = 'MODULE_NOT_FOUND';
      throw e;
    });
  }

  var ids = map[req], id = ids[0];
  return __webpack_require__.e(ids[1]).then(() => {
    return __webpack_require__.t(id, 7 | 16);
  });
}

webpackAsyncContext.keys = () => (Object.keys(map));
webpackAsyncContext.id = 2;
module.exports = webpackAsyncContext;

/***/ })
    /***/
  ]);

```

► /* webpack runtime code */

```

var __webpack_exports__ = {};
// This entry need to be wrapped in an IIFE because it need to be in strict mode.
(() => {
  "use strict";
  /*!*****!*\

```

```

    !*** ./example.js ***!
    \******/
    /*! namespace exports */
    /*! exports [not provided] [no usage info] */
    /*! runtime requirements: __webpack_require__, __webpack_require__.n,
    __webpack_require__.r, __webpack_exports__, __webpack_require__.e,
    __webpack_require__.t, __webpack_require__.* */
    __webpack_require__.r(__webpack_exports__);
    /* harmony import */ var a__WEBPACK_IMPORTED_MODULE_0__ = __webpack_require__(/*! a
    */ 1);
    /* harmony import */ var a__WEBPACK_IMPORTED_MODULE_0__default =
    /*#__PURE__*/__webpack_require__.n(a__WEBPACK_IMPORTED_MODULE_0__);

    __webpack_require__.e(/*! import() */
644).then(__webpack_require__.t.bind(__webpack_require__, /*! b */ 3,
23)).then(function(b) {
        console.log("b loaded", b);
    })

    function loadC(name) {
        return __webpack_require__(2)("./" + name);
    }

    Promise.all([loadC("1"), loadC("2")]).then(function(arr) {
        console.log("c/1 and c/2 loaded", arr);
    });

    })();

    /*****/ }) ()
;

```

Info

Unoptimized

```

asset output.js 13.6 KiB [emitted] (name: main)
asset 346.output.js 296 bytes [emitted]
asset 98.output.js 295 bytes [emitted]
asset 644.output.js 288 bytes [emitted]
chunk (runtime: main) 98.output.js 13 bytes [rendered]
  > ./2 ./node_modules/c/ lazy ^\.\/*$ namespace object ./2
  > ./2.js ./node_modules/c/ lazy ^\.\/*$ namespace object ./2.js
  ./node_modules/c/2.js 13 bytes [optional] [built] [code generated]
  [used exports unknown]
  import() context element ./2 ./node_modules/c/ lazy ^\.\/*$ namespace object ./2
  import() context element ./2.js ./node_modules/c/ lazy ^\.\/*$ namespace object
  ./2.js

```

```

chunk (runtime: main) output.js (main) 414 bytes (javascript) 6.92 KiB (runtime)
[entry] [rendered]
  > ./example.js main
  runtime modules 6.92 KiB 10 modules
  dependent modules 171 bytes [dependent] 2 modules
  ./example.js 243 bytes [built] [code generated]
    [no exports]
    [used exports unknown]
  entry ./example.js main
chunk (runtime: main) 346.output.js 13 bytes [rendered]
  > ./1 ./node_modules/c/ lazy ^\.\/*$ namespace object ./1
  > ./1.js ./node_modules/c/ lazy ^\.\/*$ namespace object ./1.js
  ./node_modules/c/1.js 13 bytes [optional] [built] [code generated]
    [used exports unknown]
    import() context element ./1 ./node_modules/c/ lazy ^\.\/*$ namespace object ./1
    import() context element ./1.js ./node_modules/c/ lazy ^\.\/*$ namespace object
  ./1.js
chunk (runtime: main) 644.output.js 11 bytes [rendered]
  > b ./example.js 3:0-11
  ./node_modules/b.js 11 bytes [built] [code generated]
    [used exports unknown]
    import() b ./example.js 3:0-11
webpack 5.51.1 compiled successfully

```

Production mode

```

asset output.js 2.88 KiB [emitted] [minimized] (name: main)
asset 346.output.js 69 bytes [emitted] [minimized]
asset 644.output.js 69 bytes [emitted] [minimized]
asset 98.output.js 67 bytes [emitted] [minimized]
chunk (runtime: main) 98.output.js 13 bytes [rendered]
  > ./2 ./node_modules/c/ lazy ^\.\/*$ namespace object ./2
  > ./2.js ./node_modules/c/ lazy ^\.\/*$ namespace object ./2.js
  ./node_modules/c/2.js 13 bytes [optional] [built] [code generated]
    [used exports unknown]
    import() context element ./2 ./node_modules/c/ lazy ^\.\/*$ namespace object ./2
    import() context element ./2.js ./node_modules/c/ lazy ^\.\/*$ namespace object
  ./2.js
chunk (runtime: main) output.js (main) 403 bytes (javascript) 6.66 KiB (runtime)
[entry] [rendered]
  > ./example.js main
  runtime modules 6.66 KiB 9 modules
  dependent modules 160 bytes [dependent] 1 module
  ./example.js 243 bytes [built] [code generated]
    [no exports]
    [no exports used]
  entry ./example.js main
chunk (runtime: main) 346.output.js 13 bytes [rendered]
  > ./1 ./node_modules/c/ lazy ^\.\/*$ namespace object ./1
  > ./1.js ./node_modules/c/ lazy ^\.\/*$ namespace object ./1.js
  ./node_modules/c/1.js 13 bytes [optional] [built] [code generated]

```

```
[used exports unknown]
import() context element ./1 ./node_modules/c/ lazy ^\.\/*$ namespace object ./1
import() context element ./1.js ./node_modules/c/ lazy ^\.\/*$ namespace object
./1.js
chunk (runtime: main) 644.output.js 11 bytes [rendered]
> b ./example.js 3:0-11
./node_modules/b.js 11 bytes [built] [code generated]
[used exports unknown]
import() b ./example.js 3:0-11
webpack 5.51.1 compiled successfully
```