

This example shows the automatically created async commons chunks.

The example entry references two chunks:

- entry chunk
 - async require -> chunk X
 - async require -> chunk Y
- chunk X
 - module `a`
 - module `b`
 - module `c`
- chunk Y
 - module `a`
 - module `b`
 - module `d`

These chunks share modules `a` and `b`. The optimization extract these into chunk Z:

Note: The optimization compares the size of chunk Z to some minimum value, but this is disabled from this example. In practice, there is no configuration needed for this.

- entry chunk
 - async require -> chunk X & Z
 - async require -> chunk Y & Z
- chunk X
 - module `c`
- chunk Y
 - module `d`
- chunk Z
 - module `a`
 - module `b`

Pretty useful for a router in a SPA.

example.js

```
// a chunks with a, b, c
require(["./a", "./b", "./c"]);

// a chunk with a, b, d
require.ensure(["./a"], function(require) {
  require("./b");
  require("./d");
});
```

dist/output.js

```

/*****/ (() => { // webpackBootstrap
/*****/      var __webpack_modules__ = ({});

```

► /* webpack runtime code */

```

var __webpack_exports__ = {};
/*!*****!*\
  !*** ./example.js ***!
  \*****/
/*! unknown exports (runtime-defined) */
/*! runtime requirements: __webpack_require__, __webpack_require__.e,
__webpack_require__.oe, __webpack_require__.* */
// a chunks with a, b, c
Promise.all(/*! AMD require */[__webpack_require__.e(394),
__webpack_require__.e(460)]).then(function() {[__webpack_require__(/*! ./a */ 1),
__webpack_require__(/*! ./b */ 2), __webpack_require__(/*! ./c */
3)];}).catch(__webpack_require__.oe);

// a chunk with a, b, d
Promise.all(/*! require.ensure */[__webpack_require__.e(394),
__webpack_require__.e(767)]).then(function(require) {
  __webpack_require__(/*! ./b */ 2);
  __webpack_require__(/*! ./d */ 4);
}).bind(null, __webpack_require__).catch(__webpack_require__.oe);

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

```

dist/394.output.js

```

(self["webpackChunk"] = self["webpackChunk"] || []).push([[394], [
/* 0 */,
/* 1 */
/*!*****!*\
  !*** ./a.js ***!
  \*****/
/*! unknown exports (runtime-defined) */
/*! runtime requirements: module */
/*! CommonJS bailout: module.exports is used directly at 1:0-14 */
/***/ ((module) => {

  module.exports = "a";

/***/ }]),
/* 2 */
/*!*****!*\
  !*** ./b.js ***!
  \*****/

```

```

    /*! unknown exports (runtime-defined) */
    /*! runtime requirements: module */
    /*! CommonJS bailout: module.exports is used directly at 1:0-14 */
    /***/ ((module) => {

    module.exports = "b";

    /***/ })
  });

```

dist/460.output.js

```

(self["webpackChunk"] = self["webpackChunk"] || []).push([[460],{

/***/ 3:
/*!*****!*\
  !*** ./c.js ***!
  \*****/
/*! unknown exports (runtime-defined) */
/*! runtime requirements: module */
/*! CommonJS bailout: module.exports is used directly at 1:0-14 */
/***/ ((module) => {

    module.exports = "c";

    /***/ })

  }]);

```

dist/767.output.js

```

(self["webpackChunk"] = self["webpackChunk"] || []).push([[767],{

/***/ 4:
/*!*****!*\
  !*** ./d.js ***!
  \*****/
/*! unknown exports (runtime-defined) */
/*! runtime requirements: module */
/*! CommonJS bailout: module.exports is used directly at 1:0-14 */
/***/ ((module) => {

    module.exports = "d";

    /***/ })

  }]);

```

Info

Unoptimized

```
asset output.js 9.18 KiB [emitted] (name: main)
asset 394.output.js 610 bytes [emitted]
asset 460.output.js 338 bytes [emitted]
asset 767.output.js 338 bytes [emitted]
chunk (runtime: main) output.js (main) 164 bytes (javascript) 4.98 KiB (runtime)
[entry] [rendered]
  > ./example.js main
runtime modules 4.98 KiB 6 modules
./example.js 164 bytes [built] [code generated]
  [used exports unknown]
  entry ./example.js main
chunk (runtime: main) 394.output.js 42 bytes [rendered] split chunk (cache group:
default)
  > ./a ./b ./c ./example.js 2:0-30
  > ./example.js 5:0-8:2
./a.js 21 bytes [built] [code generated]
  [used exports unknown]
  cjs self exports reference ./a.js 1:0-14
  amd require ./a ./example.js 2:0-30
  require.ensure item ./a ./example.js 5:0-8:2
./b.js 21 bytes [built] [code generated]
  [used exports unknown]
  cjs self exports reference ./b.js 1:0-14
  amd require ./b ./example.js 2:0-30
  cjs require ./b ./example.js 6:1-15
chunk (runtime: main) 460.output.js 21 bytes [rendered]
  > ./a ./b ./c ./example.js 2:0-30
./c.js 21 bytes [built] [code generated]
  [used exports unknown]
  cjs self exports reference ./c.js 1:0-14
  amd require ./c ./example.js 2:0-30
chunk (runtime: main) 767.output.js 21 bytes [rendered]
  > ./example.js 5:0-8:2
./d.js 21 bytes [built] [code generated]
  [used exports unknown]
  cjs self exports reference ./d.js 1:0-14
  cjs require ./d ./example.js 7:1-15
webpack 5.51.1 compiled successfully
```

Production mode

```
asset output.js 1.81 KiB [emitted] [minimized] (name: main)
asset 394.output.js 104 bytes [emitted] [minimized]
asset 460.output.js 81 bytes [emitted] [minimized]
```

```
asset 767.output.js 81 bytes [emitted] [minimized]
chunk (runtime: main) output.js (main) 164 bytes (javascript) 4.98 KiB (runtime)
[entry] [rendered]
  > ./example.js main
runtime modules 4.98 KiB 6 modules
./example.js 164 bytes [built] [code generated]
  [no exports used]
  entry ./example.js main
chunk (runtime: main) 394.output.js 42 bytes [rendered] split chunk (cache group:
default)
  > ./a ./b ./c ./example.js 2:0-30
  > ./example.js 5:0-8:2
./a.js 21 bytes [built] [code generated]
  [used exports unknown]
  cjs self exports reference ./a.js 1:0-14
  amd require ./a ./example.js 2:0-30
  require.ensure item ./a ./example.js 5:0-8:2
./b.js 21 bytes [built] [code generated]
  [used exports unknown]
  cjs self exports reference ./b.js 1:0-14
  amd require ./b ./example.js 2:0-30
  cjs require ./b ./example.js 6:1-15
chunk (runtime: main) 460.output.js 21 bytes [rendered]
  > ./a ./b ./c ./example.js 2:0-30
./c.js 21 bytes [built] [code generated]
  [used exports unknown]
  cjs self exports reference ./c.js 1:0-14
  amd require ./c ./example.js 2:0-30
chunk (runtime: main) 767.output.js 21 bytes [rendered]
  > ./example.js 5:0-8:2
./d.js 21 bytes [built] [code generated]
  [used exports unknown]
  cjs self exports reference ./d.js 1:0-14
  cjs require ./d ./example.js 7:1-15
webpack 5.51.1 compiled successfully
```