

This example shows how to use multiple entry points with a commons chunk.

In this example, you have two (HTML) pages `pageA` and `pageB`. You want to create individual bundles for each page. In addition to this, you want to create a shared bundle that contains all the modules used in both pages (assuming there are many/big modules in common). The pages also use Code Splitting to load a less used part of the features on demand.

You can see how to define multiple entry points via the `entry` option.

You can use

You can see the output files:

- `commons.js` contains:
 - module `common.js` which is used in both pages
- `pageA.js` contains: (`pageB.js` is similar)
 - the module system
 - chunk loading logic
 - the entry point `pageA.js`
 - it would contain any other module that is only used by `pageA`
- `406.js` is an additional chunk which is used by both pages. It contains:
 - module `shared.js`

You can also see the info that is printed to console. It shows among others:

- the generated files
- the chunks with file, name, and id
 - see lines starting with `chunk`
- the modules that are in the chunks
- the reasons why the modules are included
- the reasons why a chunk is created
 - see lines starting with `>`

pageA.js

```
var common = require("./common");
require(["./shared"], function(shared) {
  shared("This is page A");
});
```

pageB.js

```
var common = require("./common");
require.ensure(["./shared"], function(require) {
  var shared = require("./shared");
  shared("This is page B");
});
```

webpack.config.js

```
module.exports = {
  // mode: "development" || "production",
  entry: {
    pageA: "./pageA",
    pageB: "./pageB"
  },
  optimization: {
    splitChunks: {
      cacheGroups: {
        commons: {
          name: "commons",
          chunks: "initial",
          minChunks: 2,
          minSize: 0
        }
      }
    },
    chunkIds: "deterministic" // To keep filename consistent between different
    modes (for example building only)
  }
};
```

pageA.html

```
<html>
  <head></head>
  <body>
    <script src="js/commons.js" charset="utf-8"></script>
    <script src="js/pageA.bundle.js" charset="utf-8"></script>
  </body>
</html>
```

dist/commons.js

```
(self["webpackChunk"] = self["webpackChunk"] || []).push([[351], [
/* 0 */,
/* 1 */
/*!*****!\
!*** ./common.js ***!
\*****/
/*! unknown exports (runtime-defined) */
/*! runtime requirements: module */
/*! CommonJS bailout: module.exports is used directly at 1:0-14 */
```

```

/***/ ((module) => {

module.exports = "Common";

/***/ })
}]);

```

dist/pageA.js

```

/*****/ (() => { // webpackBootstrap
/*****/      var __webpack_modules__ = ([
/* 0 */
/*!*****!\
!*** ./pageA.js ***!
\*****/
/*! unknown exports (runtime-defined) */
/*! runtime requirements: __webpack_require__, __webpack_require__.e,
__webpack_require__.oe, __webpack_require__.* */
/***/ ((__unused_webpack_module, __unused_webpack_exports, __webpack_require__) => {

var common = __webpack_require__(/*! ./common */ 1);
__webpack_require__.e(/*! AMD require */ 52).then(function() { var
__WEBPACK_AMD_REQUIRE_ARRAY__ = [__webpack_require__(/*! ./shared */ 3)];
(function(shared) {
    shared("This is page A");
}).apply(null, __WEBPACK_AMD_REQUIRE_ARRAY__);}).catch(__webpack_require__.oe);

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

```

► /* webpack runtime code */

```

/*****/
/*****/      // startup
/*****/      // Load entry module and return exports
/*****/      // This entry module depends on other loaded chunks and execution
need to be delayed
/*****/      var __webpack_exports__ = __webpack_require__.O(undefined, [351], ()
=> (__webpack_require__(0)))
/*****/      __webpack_exports__ = __webpack_require__.O(__webpack_exports__);
/*****/
/*****/      }) ()
;

```

dist/pageB.js

```

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

/****/ 2:
/****/  !********!\
    !*** ./pageB.js ***!
    \*****/
/****/  !*** unknown exports (runtime-defined) */
/****/  !*** runtime requirements: __webpack_require__, __webpack_require__.e,
    __webpack_require__.* */
/****/  (() (__unused_webpack_module, __unused_webpack_exports, __webpack_require__) => {

var common = __webpack_require__(/****/  !*** ./common */ 1);
__webpack_require__.e(/****/  !*** require.ensure */ 52).then((function(require) {
    var shared = __webpack_require__(/****/  !*** ./shared */ 3);
    shared("This is page B");
}).bind(null, __webpack_require__)).catch(__webpack_require__.oe);

/****/ })

/*****/      });

```

► /**** webpack runtime code ****/

```

/*****/
/*****/      // startup
/*****/      // Load entry module and return exports
/*****/      // This entry module depends on other loaded chunks and execution
need to be delayed
/*****/      var __webpack_exports__ = __webpack_require__.O(undefined, [351], ()
=> (__webpack_require__(2)))
/*****/      __webpack_exports__ = __webpack_require__.O(__webpack_exports__);
/*****/
/*****/  }) ()
;

```

dist/52.js

```

(self["webpackChunk"] = self["webpackChunk"] || []).push([[52],{

/****/ 3:
/****/  !********!\
    !*** ./shared.js ***!
    \*****/
/****/  !*** unknown exports (runtime-defined) */
/****/  !*** runtime requirements: module, __webpack_require__ */
/****/  !*** CommonJS bailout: module.exports is used directly at 2:0-14 */
/****/  ((module, __unused_webpack_exports, __webpack_require__) => {

```

```

var common = __webpack_require__(/*! ./common */ 1);
module.exports = function(msg) {
    console.log(msg);
};

/***/ })

});

```

Info

Unoptimized

```

asset pageA.js 10.7 KiB [emitted] (name: pageA)
asset pageB.js 10.7 KiB [emitted] (name: pageB)
asset 52.js 506 bytes [emitted]
asset commons.js 364 bytes [emitted] (name: commons) (id hint: commons)
Entrypoint pageA 11.1 KiB = commons.js 364 bytes pageA.js 10.7 KiB
Entrypoint pageB 11 KiB = commons.js 364 bytes pageB.js 10.7 KiB
chunk (runtime: pageA, pageB) 52.js 88 bytes [rendered]
  > ./shared ./pageA.js 2:0-4:2
  > ./pageB.js 2:0-5:2
  ./shared.js 88 bytes [built] [code generated]
    [used exports unknown]
    from origin ./pageB.js
      require.ensure item ./shared ./pageB.js 2:0-5:2
      cjs require ./shared ./pageB.js 3:14-33
      amd require ./shared ./pageA.js 2:0-4:2
      cjs self exports reference ./shared.js 2:0-14
chunk (runtime: pageB) pageB.js (pageB) 148 bytes (javascript) 5.92 KiB (runtime)
[entry] [rendered]
  > ./pageB pageB
  runtime modules 5.92 KiB 7 modules
  ./pageB.js 148 bytes [built] [code generated]
    [used exports unknown]
    entry ./pageB pageB
chunk (runtime: pageA, pageB) commons.js (commons) (id hint: commons) 26 bytes
[initial] [rendered] split chunk (cache group: commons) (name: commons)
  > ./pageA pageA
  > ./pageB pageB
  ./common.js 26 bytes [built] [code generated]
    [used exports unknown]
    cjs self exports reference ./common.js 1:0-14
    cjs require ./common ./pageA.js 1:13-32
    cjs require ./common ./pageB.js 1:13-32
    cjs require ./common ./shared.js 1:13-32
chunk (runtime: pageA) pageA.js (pageA) 105 bytes (javascript) 5.92 KiB (runtime)
[entry] [rendered]

```

```
> ./pageA pageA
runtime modules 5.92 KiB 7 modules
./pageA.js 105 bytes [built] [code generated]
  [used exports unknown]
  entry ./pageA pageA
webpack 5.51.1 compiled successfully
```

Production mode

```
asset pageA.js 2.16 KiB [emitted] [minimized] (name: pageA)
asset pageB.js 2.13 KiB [emitted] [minimized] (name: pageB)
asset 52.js 116 bytes [emitted] [minimized]
asset commons.js 86 bytes [emitted] [minimized] (name: commons) (id hint: commons)
Entrypoint pageA 2.24 KiB = commons.js 86 bytes pageA.js 2.16 KiB
Entrypoint pageB 2.22 KiB = commons.js 86 bytes pageB.js 2.13 KiB
chunk (runtime: pageA, pageB) 52.js 88 bytes [rendered]
  > ./shared ./pageA.js 2:0-4:2
  > ./pageB.js 2:0-5:2
  ./shared.js 88 bytes [built] [code generated]
    [used exports unknown]
    from origin ./pageB.js
      require.ensure item ./shared ./pageB.js 2:0-5:2
      cjs require ./shared ./pageB.js 3:14-33
      amd require ./shared ./pageA.js 2:0-4:2
      cjs self exports reference ./shared.js 2:0-14
  chunk (runtime: pageB) pageB.js (pageB) 148 bytes (javascript) 5.92 KiB (runtime)
  [entry] [rendered]
  > ./pageB pageB
  runtime modules 5.92 KiB 7 modules
  ./pageB.js 148 bytes [built] [code generated]
    [no exports used]
    entry ./pageB pageB
  chunk (runtime: pageA, pageB) commons.js (commons) (id hint: commons) 26 bytes
  [initial] [rendered] split chunk (cache group: commons) (name: commons)
  > ./pageA pageA
  > ./pageB pageB
  ./common.js 26 bytes [built] [code generated]
    [used exports unknown]
    cjs self exports reference ./common.js 1:0-14
    cjs require ./common ./pageA.js 1:13-32
    cjs require ./common ./pageB.js 1:13-32
    cjs require ./common ./shared.js 1:13-32
  chunk (runtime: pageA) pageA.js (pageA) 105 bytes (javascript) 5.92 KiB (runtime)
  [entry] [rendered]
  > ./pageA pageA
  runtime modules 5.92 KiB 7 modules
  ./pageA.js 105 bytes [built] [code generated]
    [no exports used]
    entry ./pageA pageA
webpack 5.51.1 compiled successfully
```