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_requ
/***/ ((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 */

```
/************************************************************************/
/******/    // The module cache
/******/    var __webpack_module_cache__ = {};
/******/
/******/    // The require function
/******/    function __webpack_require__(moduleId) {
/******/        // Check if module is in cache
/******/        var cachedModule = __webpack_module_cache__[moduleId];
/******/        if (cachedModule !== undefined) {
/******/            return cachedModule.exports;
/******/        }
/******/        // Create a new module (and put it into the cache)
/******/        var module = __webpack_module_cache__[moduleId] = {
/******/            // no module.id needed
/******/            // no module.loaded needed
/******/            exports: {}
/******/        };
/******/
/******/        // Execute the module function
/******/        __webpack_modules__[moduleId](module, module.exports, __webpack_require__);
/******/
/******/        // Return the exports of the module
/******/        return module.exports;
/******/    }
/******/
/******/    // expose the modules object (__webpack_modules__)
/******/    __webpack_require__.m = __webpack_modules__;
/******/
/************************************************************************/
/******/    /* webpack/runtime/compat get default export */
/******/    (() => {
/******/        // getDefaultExport function for compatibility with non-harmony modules
/******/        __webpack_require__.n = (module) => {
/******/            var getter = module && module.__esModule ?
/******/                () => (module['default']) :
/******/                () => (module);
/******/            __webpack_require__.d(getter, { a: getter });
/******/            return getter;
/******/        };
/******/    })();
/******/
/******/    /* webpack/runtime/create fake namespace object */
/******/    (() => {
/******/        var getProto = Object.getPrototypeOf ? (obj) => (Object.getPrototypeOf(obj)
```

```
/******/         var leafPrototypes;
/******/         // create a fake namespace object
/******/         // mode & 1: value is a module id, require it
/******/         // mode & 2: merge all properties of value into the ns
/******/         // mode & 4: return value when already ns object
/******/         // mode & 16: return value when it's Promise-like
/******/         // mode & 8|1: behave like require
/******/         __webpack_require__.t = function(value, mode) {
/******/             if(mode & 1) value = this(value);
/******/             if(mode & 8) return value;
/******/             if(typeof value === 'object' && value) {
/******/                 if((mode & 4) && value.__esModule) return value;
/******/                 if((mode & 16) && typeof value.then === 'function') return value;
/******/             }
/******/             var ns = Object.create(null);
/******/             __webpack_require__.r(ns);
/******/             var def = {};
/******/             leafPrototypes = leafPrototypes || [null, getProto({}), getProto([]), g
/******/             for(var current = mode & 2 && value; typeof current == 'object' && !~le
/******/                 Object.getOwnPropertyNames(current).forEach((key) => (def[key] = ()
/******/             }
/******/             def['default'] = () => (value);
/******/             __webpack_require__.d(ns, def);
/******/             return ns;
/******/         };
/******/     })();
/******/
/******/     /* webpack/runtime/define property getters */
/******/     (() => {
/******/         // define getter functions for harmony exports
/******/         __webpack_require__.d = (exports, definition) => {
/******/             for(var key in definition) {
/******/                 if(__webpack_require__.o(definition, key) && !__webpack_require__.o
/******/                     Object.defineProperty(exports, key, { enumerable: true, get: de
/******/                 }
/******/             }
/******/         };
/******/     })();
/******/
/******/     /* webpack/runtime/ensure chunk */
/******/     (() => {
/******/         __webpack_require__.f = {};
/******/         // This file contains only the entry chunk.
/******/         // The chunk loading function for additional chunks
/******/         __webpack_require__.e = (chunkId) => {
/******/             return Promise.all(Object.keys(__webpack_require__.f).reduce((promises,
```

```
/******/                __webpack_require__.f[key](chunkId, promises);
/******/                return promises;
/******/            }, []));
/******/        };
/******/    })();
/******/
/******/    /* webpack/runtime/get javascript chunk filename */
/******/    (() => {
/******/        // This function allow to reference async chunks
/******/        __webpack_require__.u = (chunkId) => {
/******/            // return url for filenames based on template
/******/            return "" + chunkId + ".output.js";
/******/        };
/******/    })();
/******/
/******/    /* webpack/runtime/hasOwnProperty shorthand */
/******/    (() => {
/******/        __webpack_require__.o = (obj, prop) => (Object.prototype.hasOwnProperty.cal
/******/    })();
/******/
/******/    /* webpack/runtime/load script */
/******/    (() => {
/******/        var inProgress = {};
/******/        // data-webpack is not used as build has no uniqueName
/******/        // loadScript function to load a script via script tag
/******/        __webpack_require__.l = (url, done, key, chunkId) => {
/******/            if(inProgress[url]) { inProgress[url].push(done); return; }
/******/            var script, needAttach;
/******/            if(key !== undefined) {
/******/                var scripts = document.getElementsByTagName("script");
/******/                for(var i = 0; i < scripts.length; i++) {
/******/                    var s = scripts[i];
/******/                    if(s.getAttribute("src") == url) { script = s; break; }
/******/                }
/******/            }
/******/            if(!script) {
/******/                needAttach = true;
/******/                script = document.createElement('script');
/******/
/******/                script.charset = 'utf-8';
/******/                script.timeout = 120;
/******/                if (__webpack_require__.nc) {
/******/                    script.setAttribute("nonce", __webpack_require__.nc);
/******/                }
/******/
/******/                script.src = url;
```

```
/******/            }
/******/            inProgress[url] = [done];
/******/            var onScriptComplete = (prev, event) => {
/******/                // avoid mem leaks in IE.
/******/                script.onerror = script.onload = null;
/******/                clearTimeout(timeout);
/******/                var doneFns = inProgress[url];
/******/                delete inProgress[url];
/******/                script.parentNode && script.parentNode.removeChild(script);
/******/                doneFns && doneFns.forEach((fn) => (fn(event)));
/******/                if(prev) return prev(event);
/******/            }
/******/            ;
/******/            var timeout = setTimeout(onScriptComplete.bind(null, undefined, { type:
/******/            script.onerror = onScriptComplete.bind(null, script.onerror);
/******/            script.onload = onScriptComplete.bind(null, script.onload);
/******/            needAttach && document.head.appendChild(script);
/******/        };
/******/    })();
/******/
/******/    /* webpack/runtime/make namespace object */
/******/    (() => {
/******/        // define __esModule on exports
/******/        __webpack_require__.r = (exports) => {
/******/            if(typeof Symbol !== 'undefined' && Symbol.toStringTag) {
/******/                Object.defineProperty(exports, Symbol.toStringTag, { value: 'Module
/******/            }
/******/            Object.defineProperty(exports, '__esModule', { value: true });
/******/        };
/******/    })();
/******/
/******/    /* webpack/runtime/publicPath */
/******/    (() => {
/******/        __webpack_require__.p = "dist/";
/******/    })();
/******/
/******/    /* webpack/runtime/jsonp chunk loading */
/******/    (() => {
/******/        // no baseURI
/******/
/******/        // object to store loaded and loading chunks
/******/        // undefined = chunk not loaded, null = chunk preloaded/prefetched
/******/        // [resolve, reject, Promise] = chunk loading, 0 = chunk loaded
/******/        var installedChunks = {
/******/            179: 0
/******/        };
```

```
/******/
/******/ 	__webpack_require__.f.j = (chunkId, promises) => {
/******/ 			// JSONP chunk loading for javascript
/******/ 			var installedChunkData = __webpack_require__.o(installedChunks, chu
/******/ 			if(installedChunkData !== 0) { // 0 means "already installed".
/******/
/******/ 				// a Promise means "currently loading".
/******/ 				if(installedChunkData) {
/******/ 					promises.push(installedChunkData[2]);
/******/ 				} else {
/******/ 					if(true) { // all chunks have JS
/******/ 						// setup Promise in chunk cache
/******/ 						var promise = new Promise((resolve, reject) => (install
/******/ 						promises.push(installedChunkData[2] = promise);
/******/
/******/ 						// start chunk loading
/******/ 						var url = __webpack_require__.p + __webpack_require__.u
/******/ 						// create error before stack unwound to get useful stac
/******/ 						var error = new Error();
/******/ 						var loadingEnded = (event) => {
/******/ 							if(__webpack_require__.o(installedChunks, chunkId))
/******/ 								installedChunkData = installedChunks[chunkId];
/******/ 								if(installedChunkData !== 0) installedChunks[ch
/******/ 								if(installedChunkData) {
/******/ 									var errorType = event && (event.type === 'l
/******/ 									var realSrc = event && event.target && even
/******/ 									error.message = 'Loading chunk ' + chunkId
/******/ 									error.name = 'ChunkLoadError';
/******/ 									error.type = errorType;
/******/ 									error.request = realSrc;
/******/ 									installedChunkData[1](error);
/******/ 								}
/******/ 							}
/******/ 						};
/******/ 						__webpack_require__.l(url, loadingEnded, "chunk-" + chu
/******/ 					} else installedChunks[chunkId] = 0;
/******/ 				}
/******/ 			}
/******/ 	};
/******/
/******/ 	// no prefetching
/******/
/******/ 	// no preloaded
/******/
/******/ 	// no HMR
/******/
```

```
/******/ 		// no HMR manifest
/******/
/******/ 		// no on chunks loaded
/******/
/******/ 		// install a JSONP callback for chunk loading
/******/ 		var webpackJsonpCallback = (parentChunkLoadingFunction, data) => {
/******/ 			var [chunkIds, moreModules, runtime] = data;
/******/ 			// add "moreModules" to the modules object,
/******/ 			// then flag all "chunkIds" as loaded and fire callback
/******/ 			var moduleId, chunkId, i = 0;
/******/ 			if(chunkIds.some((id) => (installedChunks[id] !== 0))) {
/******/ 				for(moduleId in moreModules) {
/******/ 					if(__webpack_require__.o(moreModules, moduleId)) {
/******/ 						__webpack_require__.m[moduleId] = moreModules[moduleId];
/******/ 					}
/******/ 				}
/******/ 				if(runtime) var result = runtime(__webpack_require__);
/******/ 			}
/******/ 			if(parentChunkLoadingFunction) parentChunkLoadingFunction(data);
/******/ 			for(;i < chunkIds.length; i++) {
/******/ 				chunkId = chunkIds[i];
/******/ 				if(__webpack_require__.o(installedChunks, chunkId) && installedChun
/******/ 					installedChunks[chunkId][0]();
/******/ 				}
/******/ 				installedChunks[chunkIds[i]] = 0;
/******/ 			}
/******/
/******/ 		}
/******/
/******/ 		var chunkLoadingGlobal = self["webpackChunk"] = self["webpackChunk"] || [];
/******/ 		chunkLoadingGlobal.forEach(webpackJsonpCallback.bind(null, 0));
/******/ 		chunkLoadingGlobal.push = webpackJsonpCallback.bind(null, chunkLoadingGloba
/******/ 	})();
/******/
/************************************************************************/

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_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_re


__webpack_require__.e(/*! import() */ 644).then(__webpack_require__.t.bind(__webpack_requir
    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] [re
  > ./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] [re
  > ./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
```