example.js

```
import { get, set, getNumber } from "./magic.js";
// accessing memory
console.log(get());
set(42);
console.log(get());
set(123);
console.log(get());
// random numbers
console.log(getNumber());
console.log(getNumber());
console.log(getNumber());
magic.js
// reexporting
export * from "./magic.wat";
magic.wat
(module
  (type $t0 (func (result i32)))
  (type $t1 (func (param i32)))
  (import "./memory.js" "memory" (memory 1))
  (import "./magic-number.js" "getRandomNumber" (func $getRandomNumber (type $t0)))
  (func $get (export "get") (type $t0) (result i32)
    (i32.load
      (i32.const 0)))
  (func $set (export "set") (type $t1) (param $p i32)
    (i32.store
      (i32.const 0)
      (get_local $p)))
  (func $get (export "getNumber") (type $t0) (result i32)
    (call $getRandomNumber))
)
magic-number.js
export function getNumber() {
    return 42;
}
```

```
export function getRandomNumber() {
    return Math.floor(Math.random() * 256);
memory.js
async function getMemoryFromParentInWorker() {
    await new Promise(r => setTimeout(r, 200));
   return new WebAssembly.Memory({ initial: 1 });
}
export const memory = await getMemoryFromParentInWorker();
dist/output.js
/*****/ (() => { // webpackBootstrap
/*****/
           "use strict";
           var __webpack_modules__ = ([
/*****/
/* 0 */
/*!************************!*\
  !*** ./example.js ***!
  /*! namespace exports */
/*! exports [not provided] [no usage info] */
/*! runtime requirements: __webpack_require__, __webpack_require__.r, __webpack_exports__, I
/***/ ((module, __webpack_exports__, __webpack_require__) => {
__webpack_require__.a(module, async (__webpack_handle_async_dependencies__) => {
__webpack_require__.r(__webpack_exports__);
/* harmony import */ var _magic_js__WEBPACK_IMPORTED_MODULE_0_ = __webpack_require__(/*! .
var __webpack_async_dependencies__ = __webpack_handle_async_dependencies__([_magic_js__WEBPA
_magic_js__WEBPACK_IMPORTED_MODULE_0_ = (__webpack_async_dependencies__.then ? await __webp
// accessing memory
console.log((0,_magic_js__WEBPACK_IMPORTED_MODULE_0_.get)());
(0,_magic_js__WEBPACK_IMPORTED_MODULE_0_.set)(42);
console.log((0,_magic_js__WEBPACK_IMPORTED_MODULE_0_.get)());
(0,_magic_js__WEBPACK_IMPORTED_MODULE_0_.set)(123);
console.log((0,_magic_js__WEBPACK_IMPORTED_MODULE_0_.get)());
// random numbers
```

```
console.log((0,_magic_js__WEBPACK_IMPORTED_MODULE_0_.getNumber)());
console.log((0,_magic_js__WEBPACK_IMPORTED_MODULE_0_.getNumber)());
console.log((0,_magic_js__WEBPACK_IMPORTED_MODULE_0_.getNumber)());
});
/***/ }),
/* 1 */
/*!*************************
  !*** ./magic.js ***!
 /*! namespace exports */
/*! export get [provided] [no usage info] [missing usage info prevents renaming] -> ./magic
/*! export qetNumber [provided] [no usage info] [missing usage info prevents renaming] -> ..
/*! export set [provided] [no usage info] [missing usage info prevents renaming] -> ./magic
/*! other exports [not provided] [no usage info] */
/*! runtime requirements: __webpack_require__, __webpack_exports__, __webpack_require__.d,
/***/ ((module, __webpack_exports__, __webpack_require__) => {
__webpack_require__.a(module, async (__webpack_handle_async_dependencies__) => {
__webpack_require__.r(__webpack_exports__);
/* harmony export */ __webpack_require__.d(__webpack_exports__, {
/* harmony export */ "get": () => (/* reexport safe */ _magic_wat__WEBPACK_IMPORTED_MODUL
/* harmony export */ "getNumber": () => (/* reexport safe */ _magic_wat__WEBPACK_IMPORTED
/* harmony export */ "set": () => (/* reexport safe */ _magic_wat__WEBPACK_IMPORTED_MODUL
/* harmony export */ });
/* harmony import */ var _magic_wat__WEBPACK_IMPORTED_MODULE_O_ = __webpack_require__(/*!
var __webpack_async_dependencies__ = __webpack_handle_async_dependencies__([_magic_wat__wEBI
_magic_wat__WEBPACK_IMPORTED_MODULE_0_ = (__webpack_async_dependencies__.then ? await __wel
// reexporting
});
/***/ }),
/* 2 */
/*!******************
  !*** ./magic.wat ***!
  /*! namespace exports */
/*! export get [provided] [no usage info] [provision prevents renaming (no use info)] */
/*! export getNumber [provided] [no usage info] [provision prevents renaming (no use info)]
/*! export set [provided] [no usage info] [provision prevents renaming (no use info)] */
/*! other exports [not provided] [no usage info] */
/*! runtime requirements: module, module.id, __webpack_exports__, __webpack_require__.v, __webpack_require__.v,
/***/ ((module, exports, __webpack_require__) => {
```

```
var __webpack_instantiate__ = ([WEBPACK_IMPORTED_MODULE_0]) => {
    return __webpack_require__.v(exports, module.id, "daa529a2a650ee3943a9", {
        "./memory.js": {
            "memory": WEBPACK_IMPORTED_MODULE_0.memory
        "./magic-number.js": {
            "getRandomNumber": WEBPACK_IMPORTED_MODULE_1.getRandomNumber
   });
__webpack_require__.a(module, (__webpack_handle_async_dependencies__) => {
    /* harmony import */ var WEBPACK_IMPORTED_MODULE_0 = __webpack_require__(/*! ./memory.j
    /* harmony import */ var WEBPACK IMPORTED MODULE 1 = webpack require (/*! ./magic-nu
   var __webpack_async_dependencies__ = __webpack_handle_async_dependencies__([WEBPACK_IMPO]
   return __webpack_async_dependencies__.then ? __webpack_async_dependencies__.then(__webpack_async_dependencies__.then)
}, 1);
/***/ }),
/* 3 */
/*!*************************
  !*** ./memory.js ***!
  /*! namespace exports */
/*! export memory [provided] [no usage info] [missing usage info prevents renaming] */
/*! other exports [not provided] [no usage info] */
/*! runtime requirements: __webpack_require_ .r, __webpack_exports_ , module, __webpack_req
/***/ ((module, __webpack_exports__, __webpack_require__) => {
__webpack_require__.a(module, async (__webpack_handle_async_dependencies__) => {
__webpack_require__.r(__webpack_exports__);
/* harmony export */ __webpack_require__.d(__webpack_exports__, {
/* harmony export */ "memory": () => (/* binding */ memory)
/* harmony export */ });
async function getMemoryFromParentInWorker() {
    await new Promise(r => setTimeout(r, 200));
    return new WebAssembly.Memory({ initial: 1 });
}
const memory = await getMemoryFromParentInWorker();
webpack handle async dependencies ();
}, 1);
/***/ }),
```

```
/* 4 */
!*** ./magic-number.js ***!
 /*! namespace exports */
/*! export getNumber [provided] [no usage info] [missing usage info prevents renaming] */
/*! export getRandomNumber [provided] [no usage info] [missing usage info prevents renaming.
/*! other exports [not provided] [no usage info] */
/*! runtime requirements: __webpack_require__.r, __webpack_exports__, __webpack_require__.d
/***/ ((_unused_webpack_module, __webpack_exports__, __webpack_require__) => {
__webpack_require__.r(__webpack_exports__);
/* harmony export */ __webpack_require__.d(__webpack_exports__, {
/* harmony export */ "getNumber": () => (/* binding */ getNumber),
/* harmony export */ "getRandomNumber": () => (/* binding */ getRandomNumber)
/* harmony export */ });
function getNumber() {
   return 42;
}
function getRandomNumber() {
   return Math.floor(Math.random() * 256);
}
/***/ })
/*****/
           1):
/* 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] = {
/*****/
/*****/
                  id: moduleId,
/*****/
                  // 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;
/*****/
           }
/*****/
/*****
                 *************************
/*****/
            /* webpack/runtime/async module */
/*****/
            (() => {
/*****/
                var webpackThen = typeof Symbol === "function" ? Symbol("webpack then") : "
                var webpackExports = typeof Symbol === "function" ? Symbol("webpack exports
/*****/
/*****/
                var completeQueue = (queue) => {
/*****/
                    if(queue) {
/*****/
                       queue.forEach((fn) => (fn.r--));
/*****/
                        queue.forEach((fn) => (fn.r--?fn.r++:fn()));
/*****/
                    }
/*****/
                }
/*****/
                var completeFunction = (fn) => (!--fn.r && fn());
/*****/
                var queueFunction = (queue, fn) => (queue ? queue.push(fn) : completeFuncti
/*****/
                var wrapDeps = (deps) => (deps.map((dep) => {
/*****/
                    if(dep !== null && typeof dep === "object") {
/*****/
                        if(dep[webpackThen]) return dep;
/*****/
                        if(dep.then) {
/*****/
                           var queue = [];
/*****/
                           dep.then((r) \Rightarrow \{
/*****/
                               obj[webpackExports] = r;
/*****/
                               completeQueue(queue);
/*****/
                               queue = 0;
/*****/
                           });
/*****/
                           var obj = {};
/*****/
                                                       obj[webpackThen] = (fn, reject) =>
/*****/
                           return obj;
/*****/
                       }
/*****/
                   }
/*****/
                   var ret = {};
/*****/
                                       ret[webpackThen] = (fn) => (completeFunction(fn));
/*****/
                                       ret[webpackExports] = dep;
/*****/
                                       return ret;
/*****/
/*****/
                __webpack_require__.a = (module, body, hasAwait) => {
/*****/
                   var queue = hasAwait && [];
/*****/
                   var exports = module.exports;
/*****/
                   var currentDeps;
/*****/
                   var outerResolve;
```

```
/*****/
                    var reject;
/*****/
                    var isEvaluating = true;
/*****/
                    var nested = false;
/*****/
                    var whenAll = (deps, onResolve, onReject) => {
/*****/
                        if (nested) return;
/*****/
                        nested = true;
/*****/
                        onResolve.r += deps.length;
/*****/
                        deps.map((dep, i) => (dep[webpackThen](onResolve, onReject)));
/*****/
                        nested = false;
/*****/
                    };
/*****/
                    var promise = new Promise((resolve, rej) => {
/*****/
                        reject = rej;
/*****/
                        outerResolve = () => (resolve(exports), completeQueue(queue), queue
/*****/
                    });
/*****/
                    promise[webpackExports] = exports;
/*****/
                    promise[webpackThen] = (fn, rejectFn) => {
/*****/
                        if (isEvaluating) { return completeFunction(fn); }
/*****/
                        if (currentDeps) whenAll(currentDeps, fn, rejectFn);
/*****/
                        queueFunction(queue, fn);
/*****/
                        promise.catch(rejectFn);
/*****/
                    };
/*****/
                    module.exports = promise;
/*****/
                    body((deps) => {
/*****/
                        if(!deps) return outerResolve();
/*****/
                        currentDeps = wrapDeps(deps);
/*****/
                        var fn, result;
/*****/
                        var promise = new Promise((resolve, reject) => {
/*****/
                            fn = () => (resolve(result = currentDeps.map((d) => (d[webpackE
/*****/
                            fn.r = 0;
/*****/
                            whenAll(currentDeps, fn, reject);
/*****/
                        });
/*****/
                        return fn.r ? promise : result;
/*****/
                    }).then(outerResolve, reject);
/*****/
                    isEvaluating = false;
/*****/
                };
/*****/
            })();
/*****/
/*****/
            /* 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/hasOwnProperty shorthand */
/*****/
           (() => {
/*****/
               __webpack_require__.o = (obj, prop) => (Object.prototype.hasOwnProperty.cal
/*****/
           })();
/*****/
/*****/
           /* 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/wasm loading */
/*****/
           (() => {
/*****/
               __webpack_require__.v = (exports, wasmModuleId, wasmModuleHash, importsObj)
/*****/
                   var req = fetch(__webpack_require__.p + "" + wasmModuleHash + ".module.
/*****/
                   if (typeof WebAssembly.instantiateStreaming === 'function') {
/*****/
                       return WebAssembly.instantiateStreaming(req, importsObj)
/*****/
                           .then((res) => (Object.assign(exports, res.instance.exports)));
/*****/
                   }
/*****/
                   return req
/*****/
                       .then((x) => (x.arrayBuffer()))
/*****/
                       .then((bytes) => (WebAssembly.instantiate(bytes, importsObj)))
/*****/
                       .then((res) => (Object.assign(exports, res.instance.exports)));
/*****/
               };
/*****/
           })();
/*****/
/*****/
           /* webpack/runtime/publicPath */
/*****/
           (() => {
/*****/
               __webpack_require__.p = "dist/";
/*****/
           })();
/*****/
/*****/
/*****/
           // startup
/*****/
           // Load entry module and return exports
/*****/
           // This entry module used 'module' so it can't be inlined
/*****/
           var __webpack_exports__ = __webpack_require__(0);
```

```
/*****/
/*****/ })()
```

Info

Unoptimized

```
asset output.js 12.8 KiB [emitted] (name: main)
asset daa529a2a650ee3943a9.module.wasm 139 bytes [emitted] [immutable] (auxiliary name: main
chunk (runtime: main) output.js (main) 696 bytes (javascript) 139 bytes (webassembly) 3.36 l
> ./example.js main
runtime modules 3.36 KiB 6 modules
dependent modules 449 bytes (javascript) 139 bytes (webassembly) [dependent] 4 modules
./example.js 247 bytes [built] [code generated]
    [no exports]
    [used exports unknown]
    entry ./example.js main
webpack 5.51.1 compiled successfully
```

Production mode

```
asset output.js 2.34 KiB [emitted] [minimized] (name: main)
asset 05aa07f6a3836ded50d1.module.wasm 139 bytes [emitted] [immutable] (auxiliary name: main
chunk (runtime: main) output.js (main) 696 bytes (javascript) 139 bytes (webassembly) 3.09 I
> ./example.js main
runtime modules 3.09 KiB 5 modules
dependent modules 449 bytes (javascript) 139 bytes (webassembly) [dependent] 4 modules
./example.js 247 bytes [built] [code generated]
    [no exports]
    [no exports used]
    entry ./example.js main
webpack 5.51.1 compiled successfully
```