

## example.js

```
document.body.innerHTML = `
  <pre id="history"></pre>
  <form>
    <input id="message" type="text">
    <button id="send">Send Message</button>
  </form>
  <p>Computing fibonacci without worker:</p>
  <input id="fib1" type="number">
  <pre id="output1"></pre>
  <p>Computing fibonacci with worker:</p>
  <input id="fib2" type="number">
  <pre id="output2"></pre>
`;

const history = document.getElementById("history");
const message = document.getElementById("message");
const send = document.getElementById("send");
const fib1 = document.getElementById("fib1");
const output1 = document.getElementById("output1");
const fib2 = document.getElementById("fib2");
const output2 = document.getElementById("output2");

/// CHAT with shared worker ///

const chatWorker = new SharedWorker(
  new URL("./chat-worker.js", import.meta.url),
  {
    name: "chat",
    type: "module"
  }
);

let historyTimeout;
const scheduleUpdateHistory = () => {
  clearTimeout(historyTimeout);
  historyTimeout = setTimeout(() => {
    chatWorker.port.postMessage({ type: "history" });
  }, 1000);
};
scheduleUpdateHistory();

const from = `User ${Math.floor(Math.random() * 10000)}`;

send.addEventListener("click", e => {
```

```

    chatWorker.port.postMessage({
      type: "message",
      content: message.value,
      from
    });
    message.value = "";
    message.focus();
    e.preventDefault();
  });

  chatWorker.port.onmessage = event => {
    const msg = event.data;
    switch (msg.type) {
      case "history":
        history.innerText = msg.history.join("\n");
        scheduleUpdateHistory();
        break;
    }
  };

  /// FIBONACCI without worker ///

  fib1.addEventListener("change", async () => {
    try {
      const value = parseInt(fib1.value, 10);
      const { fibonacci } = await import("./fibonacci");
      const result = fibonacci(value);
      output1.innerText = `fib(${value}) = ${result}`;
    } catch (e) {
      output1.innerText = e.message;
    }
  });

  /// FIBONACCI with worker ///

  const fibWorker = new Worker(new URL("./fib-worker.js", import.meta.url), {
    name: "fibonacci",
    type: "module"
    /* webpackEntryOptions: { filename: "workers/[name].js" } */
  });

  fib2.addEventListener("change", () => {
    try {
      const value = parseInt(fib2.value, 10);
      fibWorker.postMessage(`${value}`);
    } catch (e) {

```

```

        output2.innerHTML = e.message;
    }
});

fibWorker.onmessage = event => {
    output2.innerHTML = event.data;
};

```

## fib-worker.js

```

onmessage = async event => {
    const { fibonacci } = await import("./fibonacci");
    const value = JSON.parse(event.data);
    postMessage(`fib(${value}) = ${fibonacci(value)}`);
};

```

## fibonacci.js

```

export function fibonacci(n) {
    return n < 1 ? 0 : n <= 2 ? 1 : fibonacci(n - 1) + fibonacci(n - 2);
}

```

## chat-worker.js

```

import { history, add } from "./chat-module";

onconnect = function (e) {
    for (const port of e.ports) {
        port.onmessage = event => {
            const msg = event.data;
            switch (msg.type) {
                case "message":
                    add(msg.content, msg.from);
                    // fallthrough
                case "history":
                    port.postMessage({
                        type: "history",
                        history
                    });
                    break;
            }
        };
    }
};

```

## chat-module.js

```
export const history = [];  
  
export const add = (content, from) => {  
  if (history.length > 10) history.shift();  
  history.push(`${from}: ${content}`);  
};
```

## dist/main.js

```
/***/ ((() => { // webpackBootstrap  
/***/   var __webpack_modules__ = ({});  
  
/* 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/define property getters */
```



```

/******/
/******/
/******/
/******/
/******/
/******/
/******/
/******/
/******/
/******/
/******/
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

```

7





```

/*****/
/*****/      }
/*****/
/*****/      var chunkLoadingGlobal = self["webpackChunk"] = self["webpackChunk"] || [];
/*****/      chunkLoadingGlobal.forEach(webpackJsonpCallback.bind(null, 0));
/*****/      chunkLoadingGlobal.push = webpackJsonpCallback.bind(null, chunkLoadingGlobal);
/*****/      })();
/*****/
/*****/

var __webpack_exports__ = {};
/*!*****!\
  *** ./example.js ***!
  \*****/
/*! unknown exports (runtime-defined) */
/*! runtime requirements: __webpack_require__.p, __webpack_require__.b, __webpack_require__
/*! ModuleConcatenation bailout: Module is not an ECMAScript module */
document.body.innerHTML = `
  <pre id="history"></pre>
  <form>
    <input id="message" type="text">
    <button id="send">Send Message</button>
  </form>
  <p>Computing fibonacci without worker:</p>
  <input id="fib1" type="number">
  <pre id="output1"></pre>
  <p>Computing fibonacci with worker:</p>
  <input id="fib2" type="number">
  <pre id="output2"></pre>
`;

const history = document.getElementById("history");
const message = document.getElementById("message");
const send = document.getElementById("send");
const fib1 = document.getElementById("fib1");
const output1 = document.getElementById("output1");
const fib2 = document.getElementById("fib2");
const output2 = document.getElementById("output2");

/// CHAT with shared worker ///

const chatWorker = new SharedWorker(
  new URL(/* worker import */ __webpack_require__.p + __webpack_require__.u(348), __webpa
  {
    name: "chat",
    type: undefined
  }

```

```

    }
  );

  let historyTimeout;
  const scheduleUpdateHistory = () => {
    clearTimeout(historyTimeout);
    historyTimeout = setTimeout(() => {
      chatWorker.port.postMessage({ type: "history" });
    }, 1000);
  };
  scheduleUpdateHistory();

  const from = `User ${Math.floor(Math.random() * 10000)}`;

  send.addEventListener("click", e => {
    chatWorker.port.postMessage({
      type: "message",
      content: message.value,
      from
    });
    message.value = "";
    message.focus();
    e.preventDefault();
  });

  chatWorker.port.onmessage = event => {
    const msg = event.data;
    switch (msg.type) {
      case "history":
        history.innerText = msg.history.join("\n");
        scheduleUpdateHistory();
        break;
    }
  };

  /// FIBONACCI without worker ///

  fib1.addEventListener("change", async () => {
    try {
      const value = parseInt(fib1.value, 10);
      const { fibonacci } = await __webpack_require__.e(/*! import() */ 129).then(__webpa
      const result = fibonacci(value);
      output1.innerText = `fib(${value}) = ${result}`;
    } catch (e) {
      output1.innerText = e.message;
    }
  });

```

```

});

/// FIBONACCI with worker ///

const fibWorker = new Worker(new URL(/* worker import */ __webpack_require___.p + __webpack_
  name: "fibonacci",
  type: undefined
/* webpackEntryOptions: { filename: "workers/[name].js" } */
});

fib2.addEventListener("change", () => {
  try {
    const value = parseInt(fib2.value, 10);
    fibWorker.postMessage(`${value}`);
  } catch (e) {
    output2.innerText = e.message;
  }
});

fibWorker.onmessage = event => {
  output2.innerText = event.data;
};

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

```

## dist/chat.js

```

///////// (() => { // webpackBootstrap
///////// "use strict";
var __webpack_exports__ = {};
/*!*****\
!*** ./chat-worker.js + 1 modules ***!
\*****\
/*! namespace exports */
/*! runtime requirements: */

; /// CONCATENATED MODULE: ./chat-module.js
const chat_module_history = [];

const add = (content, from) => {
  if (chat_module_history.length > 10) chat_module_history.shift();
  chat_module_history.push(`${from}: ${content}`);
};

```

```
; // CONCATENATED MODULE: ./chat-worker.js
```

```
onconnect = function (e) {
  for (const port of e.ports) {
    port.onmessage = event => {
      const msg = event.data;
      switch (msg.type) {
        case "message":
          add(msg.content, msg.from);
          // fallthrough
        case "history":
          port.postMessage({
            type: "history",
            history: chat_module_history
          });
          break;
      }
    }
  }
};
```

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

```
;
```

```
((=>{"use strict";const s=[];onconnect=function(t){for(const o of t.ports)o.onmessage=t=>{
```

## dist/workers/fibonacci.js

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

```
/* 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/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 + ".js";
/*****/      };
/*****/      })();
/*****/
/*****/      /* webpack/runtime/hasOwnProperty shorthand */
/*****/      (() => {
/*****/          __webpack_require___.o = (obj, prop) => (Object.prototype.hasOwnProperty.call
/*****/      })();
/*****/
/*****/      /* 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/importScripts chunk loading */
/*****/      (() => {
/*****/          // no baseURI
/*****/
/*****/          // object to store loaded chunks
/*****/          // "1" means "already loaded"
/*****/          var installedChunks = {
/*****/              631: 1
/*****/          };
/*****/
/*****/          // importScripts chunk loading
/*****/          var installChunk = (data) => {
/*****/              var [chunkIds, moreModules, runtime] = data;
/*****/              for(var moduleId in moreModules) {
/*****/                  if(__webpack_require___.o(moreModules, moduleId)) {
/*****/                      __webpack_require___.m[moduleId] = moreModules[moduleId];
/*****/                  }
/*****/              }
/*****/              if(runtime) runtime(__webpack_require__);
/*****/              while(chunkIds.length)

```



```

/***/ 2:
/*!*****!\
  *** ./fibonacci.js ***!
  \*****/
  /*! namespace exports */
  /*! export fibonacci [provided] [maybe used in main, 9a81d90cfd0dfd13d748 (runtime-defined)]
  /*! other exports [not provided] [maybe used in main, 9a81d90cfd0dfd13d748 (runtime-defined)]
  /*! 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 */   "fibonacci": () => (/* binding */ fibonacci)
    /* harmony export */ });
    function fibonacci(n) {
      return n < 1 ? 0 : n <= 2 ? 1 : fibonacci(n - 1) + fibonacci(n - 2);
    }

    /***/ })

  });

```

## Info

### Unoptimized

```

asset main.js 12.3 KiB [emitted] (name: main)
asset workers/fibonacci.js 5.43 KiB [emitted] (name: fibonacci)
asset 129.js 931 bytes [emitted]
asset chat.js 911 bytes [emitted] (name: chat)
chunk (runtime: 9a81d90cfd0dfd13d748, main) 129.js 103 bytes [rendered]
  > ./fibonacci ./example.js 70:30-51
  > ./fibonacci ./fib-worker.js 2:29-50
  ./fibonacci.js 103 bytes [built] [code generated]
    [exports: fibonacci]
    import() ./fibonacci ./example.js 70:30-51
    import() ./fibonacci ./fib-worker.js 2:29-50
chunk (runtime: main) main.js (main) 2.25 KiB (javascript) 5.72 KiB (runtime) [entry] [rendered]
  > ./example.js main
  runtime modules 5.72 KiB 8 modules
  ./example.js 2.25 KiB [built] [code generated]
    [no exports used]
  entry ./example.js main
chunk (runtime: 1fad8bf8de78b0a77bfd) chat.js (chat) 527 bytes [entry] [rendered]

```



```

> ./example.js 25:19-31:1
./chat-worker.js + 1 modules 527 bytes [built] [code generated]
  [no exports]
  [no exports used]
  new Worker() ./chat-worker.js ./example.js 25:19-31:1
chunk (runtime: 9a81d90cfd0dfd13d748) workers/fibonacci.js (fibonacci) 176 bytes (javascript)
> ./example.js 80:18-84:2
runtime modules 2.14 KiB 7 modules
./fib-worker.js 176 bytes [built] [code generated]
  [no exports used]
  new Worker() ./fib-worker.js ./example.js 80:18-84:2
webpack 5.51.1 compiled successfully

```

## Production mode

```

asset main.js 3.47 KiB [emitted] [minimized] (name: main)
asset workers/fibonacci.js 945 bytes [emitted] [minimized] (name: fibonacci)
asset chat.js 270 bytes [emitted] [minimized] (name: chat)
asset 129.js 166 bytes [emitted] [minimized]
chunk (runtime: 9a81d90cfd0dfd13d748, main) 129.js 103 bytes [rendered]
  > ./fibonacci ./example.js 70:30-51
  > ./fibonacci ./fib-worker.js 2:29-50
  ./fibonacci.js 103 bytes [built] [code generated]
    [exports: fibonacci]
    import() ./fibonacci ./example.js 70:30-51
    import() ./fibonacci ./fib-worker.js 2:29-50
chunk (runtime: main) main.js (main) 2.25 KiB (javascript) 5.72 KiB (runtime) [entry] [rendered]
  > ./example.js main
  runtime modules 5.72 KiB 8 modules
  ./example.js 2.25 KiB [built] [code generated]
    [no exports used]
    entry ./example.js main
chunk (runtime: 1fad8bf8de78b0a77bfd) chat.js (chat) 527 bytes [entry] [rendered]
  > ./example.js 25:19-31:1
  ./chat-worker.js + 1 modules 527 bytes [built] [code generated]
    [no exports]
    [no exports used]
    new Worker() ./chat-worker.js ./example.js 25:19-31:1
chunk (runtime: 9a81d90cfd0dfd13d748) workers/fibonacci.js (fibonacci) 176 bytes (javascript)
  > ./example.js 80:18-84:2
  runtime modules 2.14 KiB 7 modules
  ./fib-worker.js 176 bytes [built] [code generated]
    [no exports used]
    new Worker() ./fib-worker.js ./example.js 80:18-84:2
webpack 5.51.1 compiled successfully

```