**Using SharedWebWorker:**

var myWorker = new SharedWorker(*aURL*, *name*);

aURL : path of shared-worker.js file. It must obey the same-origin policy.

name:

* Optional argument
* specifies an existing SharedWorkerGlobalScope.name — if this is specified then that [SharedWorkerGlobalScope](https://developer.mozilla.org/en-US/docs/Web/API/SharedWorkerGlobalScope" \o "The SharedWorkerGlobalScope object (the SharedWorker global scope) is accessible through the self keyword. Some additional global functions, namespaces objects, and constructors, not typically associated with the worker global scope, but available on it, are listed in the JavaScript Reference. See the complete list of functions available to workers.) will be used as the scope for this shared worker.

**Connecting to multiple pages**:

The script uses the [onconnect](https://www.w3.org/TR/workers/#handler-sharedworkerglobalscope-onconnect) event listener to listen for multiple connections.

**Direct Channel**:

* When the worker receives a “msg” message from one viewer naming another viewer, it sets up a direct connection between the two, so that the two viewers can communicate directly without the worker having proxy all the messages.

**Main.js**

if(SharedWorker) {

var shared\_worker = new SharedWorker("src/js/worker.js");

shared\_worker.port.addEventListener("message", function(evt){

console.log("main thread : " + evt.data);

}, false);

shared\_worker.port.addEventListener('error', function(e){

throw new Error(' Error: could not open SharedWorker', e);

}, false);

shared\_worker.port.start();

shared\_worker.port.postMessage("Shared worker");

} else {

console.log("not supported " );

}

**worker.js**

self.addEventListener("connect", function(evt){

var port = evt.ports[0];

port.addEventListener("message",function(evt){

port.postMessage(" message from shared worker");

},false);

port.start();

},false);

EXAMPLE 2 -

In this case, the second page is merely in an iframe on the first page, but the same principle would apply to an entirely separate page in a separate top-level browsing context.

INDEX.HTML

<!doctype html>

<html lang="en" ng-app="myApp">

<head>

  <meta charset="UTF-8">

  <title>Shared Web worker </title>

<link rel="stylesheet" type="text/css" href="css/main.css">

</head>

<body>

<pre id="log">Log:</pre>

<!-- <iframe src="src/html/inner.html"></iframe> -->

<script type="text/javascript" src="src/js/main.js"></script>

</body>

</html>

INNER.HTML

<!doctype html>

<html lang="en" ng-app="myApp">

<head>

  <meta charset="UTF-8">

  <title>Shared Web worker </title>

</head>

<body>

<pre id="log"> Inner Log:</pre>

<script type="text/javascript" src="../js/main.js"></script>

</body>

</html>

MAIN.JS

var worker = new SharedWorker('/src/js/sharedWorker.js');

worker.port.addEventListener("message", function(e) {

var log = document.getElementById('log');

log.textContent += '\n' + e.data;

});

worker.port.start();

SHAREDWORKER.JS

var count = 0;

self.addEventListener("connect", function(e){

count += 1;

var port = e.ports[0];

port.postMessage('Hello World! You are connection #' + count);

self.addEventListener("message",function(event){

port.postMessage('pong');

});

},false);