



## HTML5 Audio & Video for jQuery

### jPlayer 2.4.0 Developer Guide

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## Related Links

- [Release Notes](#)
- [jPlayer Google Group](#) (Ask for support and discuss issues here.)
- [jPlayer on jQuery website](#)
- [jPlayer on GitHub](#)
- [HTML5 Media Event Inspector](#)
- [HTML5 <audio> and Audio\(\) Support Tester](#)

## jPlayer Fundamentals

### Essential jPlayer Media Formats

The media formats that are essential to jPlayer are those that are supported by both the Flash solution and the HTML5 browsers that do not support Flash, such as iOS. It is important that one of these formats is supplied to jPlayer so that popular browsers will be able to play your media. After an essential format has been supplied, additional counterpart formats may be supplied to increase cross-browser support of the HTML5 solution. See the `jPlayer({ "supplied": "formats" })` option for more details.

### Audio

One of the following audio formats must be supplied:

- MP3
- M4A

Note that, there is little to no benefit in providing both, due to the way support pans out with HTML5 browsers supporting either both or neither.

## Video

The following video format must be supplied:

- M4V

## Setting the size of jPlayer

Set the width and height of jPlayer using the `jPlayer({size:Object})` constructor option.

The full-screen size is set using the `jPlayer({sizeFull:Object})` constructor option.

Note that the background-color may be set using the constructor option

```
jPlayer({backgroundColor:"#RRGGBB"})
```

## Flash Security Rules

The security rules for jPlayer's SWF file have been relaxed using

```
System.security.allowDomain('*')
```

 and may be called from any domain.

Generally, you will upload the SWF file with the JavaScript file to a directory called "js" on your domain. Use the constructor option `jPlayer({"swfPath":path})` to change the path.

Technically, the plugin files may be linked to remotely at [jplayer.org](http://jplayer.org). However, we request that you don't link to the files on [jplayer.com](http://jplayer.com), since we do not have sufficient resources to become a CDN just now. Additionally, the Flash fallback on the remote server would require the use of absolute URLs for all `jPlayer("setMedia", media)` URLs.

Attempting to run jPlayer locally on your computer will generate Flash security violations and you would need to enable the local file access using the [Flash Settings Manager](#). See the [Flash Player Help](#) for more information.

To develop locally, install a server on your system, such as Apache, to enable a localhost on your computer.

## Media Encoding

The media supplied must conform with the codecs supported by HTML5 browsers. The [essential jPlayer formats](#) (MP3 or M4A for audio and M4V for video) must also conform with the codecs supported by the Adobe Flash plugin.

jPlayer needs to distinguish between audio and video. This is because jPlayer behaves slightly differently for the two different media types. For example, the video needs to be shown. As a result, formats that are containers have an audio and video type included in their abbreviation to make them unique. For example, M4A and M4V are both MP4 files, and jPlayer knows to play them as audio and video respectively.

## MP3

Since some browsers use the Flash element of jPlayer, the MP3 files used must be encoded according to the browser's Adobe Flash Plugin limitations:

- Constant Bitrate Encoded.
- Sample Rate a multiple of 11,025Hz. ie., 22,050Hz and 44,100Hz are valid sample rates.

## M4A / M4V

The MP4 file is a container that supports both audio and video. The M4A format is an audio MP4, and the M4V format is a video MP4. The recommended encoding options for standard and mobile browsers are:

- H.264 Baseline Profile Level 3.0 video, up to 640 x 480 at 30 fps. Note that B frames are not supported in the Baseline profile.
- AAC-LC audio, up to 48 kHz.

The metadata should be at the start of the encoded data, since the Flash solution must have the metadata in order to begin playing. The option for this varies from encoder to encoder, but usually refers to optimizing for either web or streaming. This 3rd party link might help if you are having problems with the metadata:

[MetaData Mover](#)

## OGA / OGV

The OGG file is a container that supports both audio and video. The OGA format is an audio OGG, and the OGV format is a video OGG. The Vorbis and Theora codecs appear to have full support.

## WEBMA / WEBMV

The WebM file is a container that supports both audio and video. The WEBMA format is an audio WebM, and the WEBMV format is a video WebM. The Vorbis and VP8 codecs appear to have full support.

## WAV

The WAV format is supported by many HTML5 browsers. We recommend that you avoid it though as a counterpart format. The recommended encoding options are:

- 8-bit and 16-bit linear PCM
- Only codec "1" (PCM) is supported.

## FLA / FLV

The Flash FLV file is a container that supports both audio and video. The FLA format is an audio FLV, and the FLV format is a video FLV. The FLA/FLV format is supported by the Flash fallback.

## RTMPA / RTMPV

The RTMP protocol uses a Flash Media Server (FMS) to stream media to jPlayer's Flash solution. The RTMPA format is an audio RTMP stream, and the RTMPV format is a video RTMP stream. The HTML solution does not support RTMP.

### Encoders:

- [Audacity](#)
- [Miro](#)
- [Firefogg](#)
- [FFmpeg2theora](#)
- [Handbrake](#)
- [Vid.ly](#)
- [Archive.org](#)

### References:

- [Safari: Creating Video](#)
- [Android Supported Media Formats](#)
- [Opera: Everything you need to know about HTML5 video and audio](#)
- [Firefox: Media formats supported by the audio and video elements](#)

## Server Response

### MIME Type

Your domain's server must give the correct MIME type (content type) for all media URLs.

Failure to give the correct MIME type will stop the media from working on some HTML5 browsers. This is a common cause of problems that only affect Firefox and

Opera. Other browsers are less strict, but the MIME type should always be checked that it is correct if you having problems getting media to play on any browser.

## Media MIME Types

- MP3: audio/mpeg
- MP4: audio/mp4 video/mp4
- OGG: audio/ogg video/ogg
- WebM: audio/webm video/webm
- WAV: audio/wav

If you use a common extension for both audio and video media, for example audio.mp4 and video.mp4, then simply use the video version of the MIME type for both of them. ie., video/mp4

On Apache servers, you can use the .htaccess file to set the MIME type based on the file extension:

```
1.  # AddType TYPE/SUBTYPE EXTENSION
2.
3.  AddType audio/mpeg mp3
4.  AddType audio/mp4 m4a
5.  AddType audio/ogg ogg
6.  AddType audio/ogg oga
7.  AddType audio/webm webma
8.  AddType audio/wav wav
9.
10. AddType video/mp4 mp4
11. AddType video/mp4 m4v
12. AddType video/ogg ogv
13. AddType video/webm webm
14. AddType video/webm webmv
```

## Do Not GZIP the Media

Disable GZIP encoding of all the media files. Media files are already compressed and the GZIP will just waste CPU on your server.

The Adobe Flash Plugin will experience issues if you GZIP the media.

Do not GZIP the Jplayer.swf file either. Feel free to GZIP the JavaScript.

## Byte-Range Requests

Your server must enable `Range` requests. This is easy to check for by seeing if your server's response includes the `Accept-Ranges` in its header. Most HTML5 browsers enable seeking to new file positions during a download, so the server must allow the new `Range` to be requested.

Failure to accept byte `Range` requests will cause problems on some HTML5 browsers. Often the duration cannot be read from the file as some formats require that the start and end of the file is read to know its duration. Chrome tends to be the browser that has most problems if the `Range` request is not enabled on the server, but all browsers will have some issue even if it is only that you have to wait for all the media to load before jumping close to the end.

This problem is known to affect Jetty 6 servers with their default configuration.

A PHP function has been written by the jPlayer community that can serve media files with support for `Range` requests. See this [jPlayer Support Group Post](#) on the topic.

### Protecting Your Media

Be careful when trying to restrict access to your media files. The media URL must be accessible over the internet by the user and its response must be in the format expected.

Using the server response to disable the local cache of media can cause problems with some HTML5 browsers. This can cause the duration of the media to be unknown, which will show as a NaN in the duration of jPlayer.

If you do some magic on the backend to make it more secure, then make sure you are accepting the byte `Range` requests described above.

### How to disable jPlayer with CSS or jQuery

Since jPlayer uses Flash on some browsers, the jPlayer `<div>` must not be hidden. Mobile browsers do not appear to like their HTML5 media being hidden either.

You can change the size of the jPlayer `<div>` to zero if you want to make it invisible. You should also be careful that any jQuery animations, such as `fadeIn()` or `fadeOut()`, are not acting on the jPlayer `<div>` or any of its parents.

jPlayer will attempt to recover and reconfigure the Flash solution when shown again after being hidden. However, this assumes that you did not issue any commands to jPlayer while it was hidden.

For example, do **not** do the following:

```
1.  <head>
2.    <style>
3.      #jquery_jplayer {
4.        display:none; /* Disables jPlayer when using Flash */
5.      }
6.    </style>
7.    <script type="text/javascript">
8.      $("#jquery_jplayer").hide(); /* Disables jPlayer when using
Flash */
```



```

9.      </script>
10. </head>
11.
12. <body>
13.     <div id="jquery_jplayer"></div>
14. </body>

```

## Security Restrictions

In order to eliminate cross site scripting (XSS), there are some limitations placed on the `{noConflict}` option and on the ID name of the jPlayer element. These restrictions are due to the communication between the Flash fallback and the JavaScript in the page, which require the jQuery variable name and the ID of the jPlayer element. This exposed a potential vulnerability through direct access to the Jplayer.swf file, which has been eliminated through the addition of these rules.

The whitelisted characters are: A-Z a-z 0-9 \_ - . Or in other words, the alpha-numeric characters, underscore, hyphen/minus and period.

## jPlayer Data

The jPlayer data is usually accessed via the [event object](#), since the internal data tends to be updated before [events](#) are generated. An example of how a timeupdate event handler can be created through the constructor option is:

```

1.  $('#jp').jPlayer({
2.      timeupdate: function(event) { // 4Hz
3.          // Restrict playback to first 60 seconds.
4.          if (event.jPlayer.status.currentTime > 60) {
5.              $(this).jPlayer('stop');
6.          }
7.      }
8.      // Then other options, such as: ready, swfPath, supplied and
      so on.
9.  });

```

The jPlayer object itself may also be accessed through `$('#jp').data('jPlayer')`. However, since this gives full read/write access to all data and access to all the methods, even the internal methods, this is only recommended for advanced developers. Reading data is fine, but setting data might have unexpected side effects.

The previous timeupdate event code could be (crudely) emulated using an interval with the following code:

```

1.  var jp = $('#jp'), jpData = jp.data('jPlayer');
2.  setInterval(function() {
3.      // Restrict playback to first 60 seconds.
4.      if (jpData.status.currentTime > 60) {
5.          jp.jPlayer('stop');
6.      }

```

```
7.    },100); // 10Hz
```

See also: `jPlayer("option")`

## jPlayer and Zepto

jPlayer has been tweaked so that you can now use [Zepto](#) instead of [jQuery](#).

Zepto 1.0+ compiled with the data module is required.

If you want to use jPlayer as an AMD module for Zepto, then you will need to edit lines of code in the source. By default, the AMD module has its dependencies set to jQuery, not Zepto. The following is the top of the jPlayer code and you can clearly see the two lines that need to be switched.

```
1.  (function (root, factory) {
2.      if (typeof define === 'function' && define.amd) {
3.          // AMD. Register as an anonymous module.
4.          define(['jquery'], factory); // jQuery Switch
5.          // define(['zepto'], factory); // Zepto Switch
6.      } else {
7.          // Browser globals
8.          if(root.jQuery) { // Use jQuery if available
9.              factory(root.jQuery);
10.         } else { // Otherwise, use Zepto
11.             factory(root.Zepto);
12.         }
13.     }
14. }(this, function ($, undefined) {
```

But to avoid presumption... These lines here:

```
1.         define(['jquery'], factory); // jQuery Switch
2.         // define(['zepto'], factory); // Zepto Switch
```

Change to:

```
1.         // define(['jquery'], factory); // jQuery Switch
2.         define(['zepto'], factory); // Zepto Switch
```

If you are not using the AMD module, then jPlayer is setup ready to use Zepto. Simply include Zepto in your page instead of jQuery.

Zepto support was officially released in jPlayer 2.4.0

## jPlayer Files

jPlayer requires that two files are uploaded to your server.

jquery.jplayer.min.js  
Jplayer.swf

When updating jPlayer, ensure that both files are uploaded from the plugin ZIP, since both files are subject to change.

## Plugin Files

jquery.jplayer.min.js

47.7KB (Gzip: 11.9KB)

The plugin's JavaScript file, compiled using [closure-compiler.appspot.com](http://closure-compiler.appspot.com) with "Simple" optimization.

The jquery.jplayer.min.js file should be added to the `<head>` of the HTML file after the jQuery JavaScript file. Below is how to include the JavaScript file using an absolute path, relative to the server root.

```
1.     <head>
2.         <script type="text/javascript"
           src="http://ajax.googleapis.com/ajax/libs/jquery/1.10.1/jquery.min.js">
3.         </script>
4.         <script type="text/javascript"
           src="/jPlayer/js/jquery.jplayer.min.js">
5.         </script>
6.     </head>
```

Jplayer.swf

13.7KB

The jPlayer plugin's Flash 10 file, compiled using the [Flex](#) 4.5.1 open-source compiler. The most recent version is available here: [Adobe Flex SDK](#).

This file is used in browsers that do not support HTML5 `<video>` and `<audio>`.

The Jplayer.swf file must be uploaded to your server. The default location is relative to your current page in a folder named "js". To modify the location of the Flash file, use the `swfPath` constructor option. Below is how to set the `swfPath` to a path relative to the server root. See the `jPlayer({swfPath})` constructor option for more information.

```
1.     $("#jpId").jPlayer( {
2.         swfPath: "/scripts/jPlayer"
3.     });
```

## Source Files

jquery.jplayer.js

jPlayer's JavaScript source file. This file may be switched with the jquery.jplayer.min.js file. The operation is identical, but the file size is larger.

The JavaScript source is verified using [JSHint](#) and the options can be found in the source.

This file is readable by humans, assuming they understand JavaScript and jQuery.

### Jplayer.flac

This file is no longer needed, as the Flex compiler is now being used to compile the ActionScript. It is left in the source as you can use it to compile the ActionScript if you choose.

jPlayer's Adobe Flash CS4 Professional editor file. This file can be compiled using Adobe Flash CS4 Professional into the Jplayer.swf file used in the jPlayer plugin. The Jplayer.flac file is not required for jPlayer, and does nothing unless compiled.

This file is empty, except for setting its class to Jplayer.as.

### Jplayer.as

jPlayer's ActionScript 3 source file. The Jplayer.as file is not required for jPlayer, and does nothing unless compiled.

This file is readable by humans, assuming they understand Flash's ActionScript 3.

### happyworm.jPlayer AS3 package

Contains jPlayer's ActionScript 3 source files for classes used in Jplayer.as. These files are not required for jPlayer, and do nothing unless compiled.

These files are readable by humans, assuming they understand Flash's ActionScript 3.

## **jPlayer Constructor**

**\$(id).jPlayer( Object: options ) : jQuery**

### **Description**

The jPlayer constructor is applied to the given jQuery selector (normally an ID css selector) and uses the options, if provided. The <div> used by jPlayer should be empty and not used for anything else.

In some cases, the jPlayer div can be placed at the top level of the <body> to help avoid [effects on the page corrupting jPlayer's operation](#). This applies to an audio player that does not use the poster feature of jPlayer.

Note that the most important option is the `ready` event handler, which is a function defining the actions to perform once jPlayer is ready for use. Attempting to issue commands to jPlayer before the `ready` event occurs will result in jPlayer raising error events if the Flash fallback is used and commands will be ignored.

The next most important option is the `swfPath` element, which defines the path of jPlayer's SWF file. Remember to upload the SWF file to your server!

### Changing options after instantiating jPlayer

Options that may be changed using the `jPlayer("option", key, value)` method after instantiating jPlayer, are indicated by the ‡ symbol.

### Event handlers created through the jPlayer options

Event handlers that may be created through the jPlayer constructor options, are not really options. They are event handlers bound to the jPlayer element, with the ".jPlayer" jQuery event namespace, and are included in the options as an easy way to bind a handler to an event. Event handlers that are listed here in the options are indicated by the ‡ symbol.

### Parameters

#### options

Object defining any changes to the default configuration of jPlayer.

#### ready ‡

Function : (Default: undefined) : Defines an event handler function that is bound to the `$.jPlayer.event.ready` event. To reference the current instance, use `$(this)`. Generally, it is recommended to use a function here to at least `$(this).jPlayer("setMedia", media)` the instance to a valid url ready for use.

The ready event handler is defined at creation to eliminate a race condition between the JavaScript code and Flash code. Thus ensuring the Flash function definitions exist when the JavaScript code is executed.

The handler is bound with the `.jPlayer` namespace.

#### swfPath

String : (Default: "js") : Defines the path of jPlayer's Jplayer.swf file. This allows the developer to place the SWF file wherever they choose by using an alternative relative path, absolute path or server root relative path.

The `swfPath` option may be a path or a URL to the SWF file with extension `.swf`. For example, `jPlayer({swfPath: "/scripts/banana.swf"})` where you renamed the `Jplayer.swf` file to `"banana.swf"`. Do not rename the `.swf` extension, or a path will be assumed.

You can test that your `swfPath` is correct on an HTML5 browser that supports flash, by using the constructor option `jPlayer({solution: "flash, html"})`.

An incorrect `swfPath` will generate `$.jPlayer.event.error` events with error type `$.jPlayer.error.FLASH` when you issue commands like `jPlayer("setMedia", media)`

Independent of trailing slash, ie., `"myPath/"` is the same as `"myPath"`. The URL given must conform to standard URL Encoding Rules.

#### solution

String : (Default: `"html, flash"`) : Defines the priority of the html and flash solutions. The default is to use HTML first, with a Flash fallback. Swapping the order to `"flash, html"` causes the Flash to be used first, with an HTML fallback.

Depending on the `supplied` formats, `jPlayer` may even use both solutions. For example, using `jPlayer` as a media player with `{supplied: "mp3, oga, m4v"}` would on browsers like Firefox require the Flash solution to play the video media format, while the audio media can be played in the HTML solution.

While you could specify only one solution, we do not recommend that you do it!

The solution picked by `jPlayer` depends on your browser and the formats in the `supplied` option.

#### supplied

String : (Default: `"mp3"`) : Defines the formats supplied to `jPlayer`. The order defines the priority, with the left most format being highest. Formats to the right are lower priority.

See [Media Encoding](#) for more details on the formats. See [Essential Formats](#) for more details on why some formats are mandatory.

Essential Audio formats: **mp3** or **m4a**.

Essential Video format: **m4v**.

Counterpart formats: webma, webmv, oga, ogv, wav, fla, flv, rtmpa, rtmpv.

All formats in the supplied option must be given in every `jPlayer("setMedia", media)` command.

The exception to this rule applies to a Media Player. ie., A player that plays both video and audio. Both the video and audio formats are defined in the supplied option. Then use either the video or audio media when using `jPlayer("setMedia", media)` command. (You must give all the audio formats or all the video formats defined in the supplied option.)

The `solution` priority dominates the priority of the `supplied` formats. jPlayer works by finding the first working format in a given solution. So in Chrome with `{solution:"html, flash"}` and `{supplied:"mp3, oga"}` the mp3 file would play in native HTML, even though Chrome could play either.

The format picked by jPlayer depends on your browser and the solution option. Essential formats are those supported by Flash and (luckily) by browsers that do not allow Flash. ie., iPad/iPhone  
Counterpart formats are supplied to improve x-browser HTML5 media support.

size [↑](#)

`object` : Sets the size of the restored screen mode. The defaults depend on whether audio or video formats are supplied. The video defaults are used when both media types are supplied.

Object Properties:

`width`

String : (Default: [Video:"480px"] [Audio:"0px"]) : The width as a CSS rule.

`height`

String : (Default: [Video:"270px"] [Audio:"0px"]) : The height as a CSS rule.

`cssClass`

String : (Default: [Video:"jp-video-270p"] [Audio:""]) : The class name added to the `cssSelectorAncestor` when in this mode.

sizeFull [↑](#)

`object` : Sets the size of the full screen mode. The defaults depend on whether audio or video formats are supplied. The video defaults are used when both media types are supplied.

Object Properties:

`width`

String : (Default: [Video:"100%"] [Audio:"0px"]) : The width as a CSS rule.

`height`

String : (Default: [Video:"100%"] [Audio:"0px"]) : The height as a CSS rule.

`cssClass`

String : (Default: [Video:"jp-video-full"] [Audio:""]) : The class name added to the `cssSelectorAncestor` when in this mode.

`smoothPlayBar` [†](#)

Boolean : (Default: false) : Smooths the play bar transitions.

The play bar width changes are animated over 250ms to smooth the change, rather than a step change. This also affects clicks on the play bar, where the bar animates to the new position.

Short duration media benefits the most, since their step changes are the largest.

The 250ms animation period approximately matches the period of the `timeupdate` event for both the html and flash solutions.

`fullScreen` [†](#)

Boolean : (Default: false) : Sets the initial state of the full screen mode.

This option is normally changed through the full screen and restore screen buttons on the interface. The video will be displayed in true full screen mode if supported by the browser, otherwise the display will be full window.

This option affects the `jPlayer({cssSelectorAncestor})` element, so that the `jPlayer` display tracks the GUI display.

Changing the `fullScreen` option will change the `fullWindow` option to match it. The exception to this rule is when WebKit Video is being used on iOS, where the `fullWindow` option will not be changed.

The full screen mode uses the W3C Full Screen API, which means both the HTML and Flash solutions are displayed using this mechanism. This allows the GUI defined in the CSS to be used over the Flash while in full screen mode. Remember that the Flash has no GUI controls built into it, which is why it is not displayed full screen through the Adobe Flash plugin.

`fullWindow` [†](#)

Boolean : (Default: false) : Sets the initial state of the full window mode.

This option is a fallback for when full screen is not available and is set automatically when attempting to go full screen. In general, you will not use this option and instead use the `fullScreen` option to control how the video is displayed.



This option has been left here since you can use the full window system for other uses, where you do not want to activate the full screen code as well.

This option affects the `jPlayer({cssSelectorAncestor})` element, so that the jPlayer display tracks the GUI display.

Changing the `fullWindow` option will not affect the `fullScreen` option, but may affect the full screen GUI display, since the CSS classes would be changed. ie., If you were in full screen mode when you unset the `fullWindow` option.

#### audioFullScreen [†](#)

Boolean : (Default: false) : Enables keyboard controls to enter full screen with audio media.

This option allows key controls to display audio poster images in full screen, which is useful for media players. eg., A player that has both video and audio media in a playlist.

For more information on keyboard controls see the `jPlayer({keyEnabled})` option.

#### autohide [†](#)

object : Sets the auto-hide options for the GUI in the screen display states.

Object Properties:

restored

Boolean : (Default: false) : Auto-hide the GUI when in the restored screen display state.

full

Boolean : (Default: true) : Auto-hide the GUI when in the full screen display state.

fadeIn

Number : (Default: 200) : The period of the fadeIn animation in milliseconds.

fadeOut

Number : (Default: 600) : The period of the fadeOut animation in milliseconds.

hold

Number : (Default: 1000) : The period of the pause before autohide begins in milliseconds.

#### preload

String : (Default: "metadata") : Valid values are "none", "metadata" and "auto", which matches the HTML5 draft standard. Use "auto" to preload the file.

Preload is a hint to the user agent, not a command. Some browsers ignore this option.

volume [↑](#)

Number : (Default: 0.8) : Defines the initial volume as a value from 0 to 1.

muted [↑](#)

Boolean : (Default: false) : Defines the initial muted state.

verticalVolume

Boolean : (Default: false) : By default, clicks on the volume bar are calculated from the left. Setting this option to true, causes the calculation to be from the bottom.

If this option is used, then the following CSS styles are required on the volume bar elements to make them display vertically:

```
1.    <style>
2.    .jp-volume-bar {
3.        position: relative;
4.    }
5.    .jp-volume-bar-value {
6.        position: absolute;
7.        bottom: 0;
8.    }
9.    </style>
```

backgroundColor

String : (Default: "#000000") : Defines the background color of the jPlayer <div> and the Flash. The string is an RGB hash of the form "#RRGGBB".

cssSelectorAncestor [↑](#)

String : (Default: "#jp\_container\_1") : Defines the cssSelector of an ancestor of all cssSelectors. Usually an id selector, which is the outer divider wrapper of the skin HTML.

See also: `jPlayer({fullScreen})` and `jPlayer({fullWindow})`

cssSelector [↑](#)

Object : (Default: {[cssSelectors](#)}) : This object defines all the selectors used to associate jPlayer's controls and feedback with the HTML in the page. By default, jPlayer uses a [predefined set of cssSelectors](#).

## noConflict

String : (Default: "jQuery") : Allows the global variable name of jQuery to be set.

This option can be changed to what you require after using the `jQuery.noConflict(true)` command. The jQuery variable name is important for the Flash fallback to communicate with jPlayer's JavaScript.

Due to a security requirement, the variable name given to the new jQuery variable must have the term `jQuery` in it. For example:

```
1.   var lib = {
2.       jQuery: jQuery.noConflict(true)
3.   }
4.   $('#jp').jPlayer({noConflict: 'lib.jQuery'});
```

See also: [Security Restrictions](#).

## wmode

String : (Default: "opaque") : Allows the wmode of the Flash fallback to be set.

Valid wmode values: window, transparent, opaque, direct, gpu

Note that audio players in Firefox 3.6 using the Flash solution will require that the `{wmode:"window"}` option is set. Otherwise, the browser does not put the Flash in the page properly. This problem does not effect Firefox 4+, nor does it affect video players in Firefox 3.6.

For example, if you used the option setting `{supplied:"mp3"}`, then you must set the `{wmode:"window"}` option to ensure Firefox 3.6 instances the Flash solution correctly.

For example, if you used the option setting `{solution:"flash,html"}`, then you must set the `{wmode:"window"}` option to ensure Firefox 3.6 instances the Flash solution correctly.

For example, if you used the option setting `{supplied:"mp3,oga"}`, then the `wmode` option does not matter, as the HTML solution will be used to play the OGA format in Firefox 3.6.

This problem will be addressed in the future, where supplying only audio formats will change the default wmode value to "window".

## loop <sup>†</sup>

Boolean : (Default: false) : Sets the initial loop state.

The loop option works in tandem with the default repeat event handler. Clicks on the GUI repeat/repeat-off buttons, toggles the loop option and then generates a repeat event.

repeat [↑](#)

Function : (Default: event handler) : Handler function for the repeat event.

The default repeat event handler works in tandem with the loop option. Clicks on the GUI repeat/repeat-off buttons, toggles the loop option and then generates a repeat event.

Unlike other events, the repeat event has a default handler. The default handler is shown below:

```
1.     repeat: function(event) {
2.         if(event.jPlayer.options.loop) {
3.             $(this).unbind(".jPlayerRepeat").bind($.jPlayer.event.ended +
4.                 ".jPlayer.jPlayerRepeat", function() {
5.                     $(this).jPlayer("play");
6.                 });
7.             $(this).unbind(".jPlayerRepeat");
8.         }
9.     }
```

To change the repeat event handler after instantiating jPlayer, unbind the handler and then bind a new handler to the event. Note that the jPlayer namespace is used to only unbind the repeat handler added by jPlayer.

```
1.     $("#my-jplayer").unbind($.jPlayer.event.repeat +
2.         ".jPlayer");
3.     $("#my-jplayer").bind($.jPlayer.event.repeat +
4.         ".jPlayer", function() {
5.         // Your new repeat handler code
6.     });
```

Remember that you may need to clean up the old handler's actions too. There may still be that ended event handler that the repeat handler generates.

```
1.     $("#my-jplayer").unbind(".jPlayerRepeat");
```

The author cannot think of an example where you would want to change the repeat handler after instantiating jPlayer, but it has been documented here just in case.

emulateHtml [↑](#)

Boolean : (Default: false) : Enables the HTML bridge.

This option enables a bridge that emulates the HTML media properties and events on the jPlayer element. All properties are read only. The majority of the useful media properties are emulated.

Example use with [Popcorn.js](#). Note that this code is for an audio player.

```
1.     ready: function(event) {
2.         if(event.jPlayer.html.used &&
3.             event.jPlayer.html.audio.available) {
4.             // Use the actual HTML media element
5.             p = Popcorn('#' +
6.                 $(this).data("jPlayer").internal.audio.id);
7.         } else {
8.             // Enable and use the HTML bridge with the Flash
9.             fallback
10.            $(this).jPlayer("option", "emulateHtml", true);
11.            p = Popcorn('#' + $(this).attr("id"));
12.        }
13.    }
```

### nativeVideoControls [†](#)

Object : Defines the user agent blocklist, which contains regular expressions, which cause the native controls to be used if a match is found.

Native video controls are disabled when audio media is supplied and `jPlayer({noFullWindow})` is set if nativeVideoControls found a matched.

The default object is empty:

```
1.     nativeVideoControls: {
2.         // Works well on standard browsers.
3.         // Phone and tablet browsers can have problems with
4.         the controls disappearing.
5.     }
```

### noFullWindow [†](#)

Object : Defines the user agent blocklist, which contains regular expressions, which cause the full-screen and restore-screen buttons to be hidden if a match is found.

The default object is:

```
1.     noFullWindow: {
2.         msie: /msie [0-6]\./,
3.         ipad: /ipad.*?os [0-4]\./,
4.         iphone: /iphone/,
5.         ipod: /ipod/,
6.         android_pad: /android [0-3]\.(?!.*?mobile)/,
7.         android_phone: /android.*?mobile/,
8.     }
```

```

8.      blackberry: /blackberry/,
9.      windows_ce: /windows ce/,
10.     iemobile: /iemobile/,
11.     webos: /webos/
12.     }

```

## noVolume [†](#)

Object : Defines the user agent blocklist, which contains regular expressions, which cause the volume controls to be hidden if a match is found.

The default object is:

```

1.     noVolume: {
2.       ipad: /ipad/,
3.       iphone: /iphone/,
4.       ipod: /ipod/,
5.       android_pad: /android(?:.*?mobile)/,
6.       android_phone: /android.*?mobile/,
7.       blackberry: /blackberry/,
8.       windows_ce: /windows ce/,
9.       iemobile: /iemobile/,
10.      webos: /webos/,
11.      playbook: /playbook/
12.    }

```

## timeFormat [†](#)

Object : Defines the display format of the currentTime and duration times.

The default object is whatever the \$.jPlayer.[timeFormat](#) object is at the time of instancing.

## keyEnabled [†](#)

Boolean : (Default: false) : Enables the keyboard controls feature for this instance.

The last instance played has focus. During jPlayer instancing, the first instance with the feature enabled gains focus. Only instances with the feature enabled may gain focus.

The keyboard commands are directed at the jPlayer instance in focus.

See also:

```

jPlayer({keyBindings})
jPlayer({audioFullScreen})
jPlayer("focus")
$.jPlayer.keys(enabled)

```

## keyBindings [†](#)

Object : Defines the event [which](#) key codes and their actions.

The keyBindings object is made up of objects of the following structure:

```
1.     helloWorld: { // A unique name or override the default
2.         with the name.
3.         key: 72, // The event.which key code for h
4.         fn: function(f) {
5.             // f is the instance in focus, which is this
6.             instance.
7.             // f.status is the status object.
8.             // f.play() to execute methods, such as play().
9.             alert("Hello World");
10.        }
11.    }
```

The instance in focus parameter `f` relates to the current instance, since the function is only called when this instance is in focus. Basically, it is a mechanism for passing through the pointer to `this` of the instance. The `this` is the JavaScript object pointer, not the DOM pointer used in the jQuery `$(this)` coding.

The jPlayerPlaylist add-on adds 2 key controls to the list, LEFT and RIGHT to move to the previous and next tracks. The jPlayerPlaylist source code may help you understand how the system works.

The default object is:

```
1.     keyBindings: {
2.         play: {
3.             key: 32, // space
4.             fn: function(f) {
5.                 if(f.status.paused) {
6.                     f.play();
7.                 } else {
8.                     f.pause();
9.                 }
10.            }
11.        },
12.        fullScreen: {
13.            key: 13, // enter
14.            fn: function(f) {
15.                if(f.status.video || f.options.audioFullScreen) {
16.                    f._setOption("fullScreen",
17.                        !f.options.fullScreen);
18.                }
19.            }
20.        },
21.        muted: {
22.            key: 8, // backspace
23.            fn: function(f) {
24.                f._muted(!f.options.muted);
25.            }
26.        },
27.    }
```

```

26.     volumeUp: {
27.         key: 38, // UP
28.         fn: function(f) {
29.             f.volume(f.options.volume + 0.1);
30.         }
31.     },
32.     volumeDown: {
33.         key: 40, // DOWN
34.         fn: function(f) {
35.             f.volume(f.options.volume - 0.1);
36.         }
37.     }
38. }

```

## idPrefix

String : (Default: "jp") : Defines the Id prefix for jPlayer's internally generated HTML code.

Useful if you have a naming conflict, but it is unlikely that the developer will need to change this setting.

## errorAlerts

Boolean : (Default: false) : Enables error reporting through alerts.

Enable this option to help debug your jPlayer application.

## warningAlerts

Boolean : (Default: false) : Enables warning reporting through alerts. Warnings are useful for the developer and will inform you of css selectors that are not found, and some other warning types. Often warnings can be ignored, such as the videoPlay selector not being found with an audio player.

Enable this option to help debug your jPlayer application.

## eventType

Function : (Default: undefined) : Just like the jPlayer ready event, you can bind a handler to any of the [jPlayer Events Types](#). The events include the [HTML5 media events](#).

You can bind handlers to events like `timeupdate` to perform an action when it occurs. See [Using jPlayer Events](#) for more information and examples.

Note that **eventType** itself is not a constructor option. Eg., The `ready` constructor option is an eventType.



Warning: The flash fallback does not emulate all events.

Warning: HTML5 media events vary x-browser.

HTML entry, with an example id for jPlayer:

```
1.  <head>
2.    <script type="text/javascript"
    src="http://ajax.googleapis.com/ajax/libs/jquery/1.4/jquery.min.js">
3.    </script>
4.    <script type="text/javascript" src="js/jquery.jplayer.min.js">
5.    </script>
6.    <script>
7.      $(document).ready(function() { /* Your Code */ });
8.    </script>
9.  </head>
10. <body>
11.   <div id="jpId"></div>
12. </body>
```

Code Example #1:

```
1.  $(document).ready(function() {
2.    $("#jpId").jPlayer( {
3.      ready: function () {
4.        $(this).jPlayer("setMedia", {
5.          mp3: "/mp3/elvis.mp3" // Defines the mp3 url
6.        });
7.      }
8.    });
9.  });
```

Code Example #2:

```
1.  $(document).ready(function() {
2.    $("#jpId").jPlayer( {
3.      ready: function () {
4.        $(this).jPlayer("setMedia", {
5.          m4a: "/mp3/elvis.m4a", // Defines the m4a (AAC) url
6.          oga: "/ogg/elvis.ogg" // Defines the counterpart oga url
7.        });
8.      },
9.      supplied: "m4a, oga",
10.     swfPath: "/jPlayer/js"
11.    });
12.  });
```

Code Example #3:

```
1.  $(function() { // executed when $(document).ready()
2.    $("#jpId").jPlayer( {
3.      ready: function () {
4.        $(this).jPlayer("setMedia", {
```

```

5.         m4v: "http://www.myDomain.com/myVideo.m4v" // Defines
the m4v url
6.     }).jPlayer("play"); // Attempts to Auto-Play the media
7.     },
8.     supplied: "m4v",
9.     swfPath: "jPlayer/js"
10.    });
11. });

```

#### Code Example #4:

```

1.  $(function() { // executed when $(document).ready()
2.    $("#jpId").jPlayer( {
3.      ready: function () {
4.        $(this).jPlayer("setMedia", {
5.          m4v: "/media/myVideo.m4v", // Defines the m4v url
6.          ogv: "/media/myVideo.ogv" // Defines the counterpart ogv
url
7.        }).jPlayer("play"); // Attempts to Auto-Play the media
8.      },
9.      solution: "flash, html", // Flash with an HTML5 fallback.
10.     supplied: "m4v, ogv",
11.     swfPath: "/scripts"
12.    });
13. });

```

#### Code Example #5: **Bad Code!**

```

1.  $(document).ready(function() {
2.    $("#jpId").jPlayer( {
3.      ready: function () {
4.        $(this).jPlayer("setMedia", {
5.          mp3: "/mp3/elvis.mp3"
6.        });
7.      }
8.    });
9.    $("#jpId").jPlayer("play"); // BAD: The plugin is not ready
yet
10. });

```

## jPlayer Methods

jPlayer is controlled by sending the method name through the `$(id).jPlayer()` plugin method.

#### Methods that are an option alias

Methods that are a shortcut/alias to change options using the `jPlayer("option", key, value)` method, are indicated by the ‡ symbol.

#### **\$(id).jPlayer( "setMedia", Object: media ) : jQuery**

## Description

This method is used to define the media to play. The media parameter is an object that has properties defining the different encoding formats and a poster image.

The `jPlayer("setMedia", media)` method must be used to define the media before jPlayer will be able perform other methods like `jPlayer("play")`.

All formats defined in the constructor option `jPlayer({supplied: "f1, f2, fN"})` must be given a valid url to the media encoded in that format. The exception is when using both video and audio media types in a single jPlayer. Then either all the supplied **audio** formats or all the supplied **video** formats must be defined.

The constructor option `jPlayer({solution: "s1, s2"})` can be used to define the priority of the HTML and Flash solutions used by jPlayer.

jPlayer distinguishes between the media types, and using both video and audio together in a single `setMedia` command makes it difficult to determine what actually plays. The decision is based on the priority of `solution` and `supplied` and the browser being used. ie., The 1st one supplied that can work in the `solution`, will work, be that video or audio.

The point at which jPlayer begins downloading the media is complicated by changes in the by changes in the W3C HTML5 media spec for the `media.load()` method and the `media.src` property. In order for older HTML5 browsers to work with jPlayer, the `media.load()` command is still used, where really it should be removed as it is no longer required.

The jPlayer constructor option `jPlayer({preload})` is used to control when jPlayer begins downloading new media. Some browsers will begin the download for the whole media when the preload option is "metadata". Others will require that "auto" is used. The only way to ensure download does not begin automatically is to use the preload option "none". Remember that, the media may not download as it depends on the browser you are using. Mobile browser such as Mobile Safari on iOS 4.2 require a gesture before any media is downloaded or played. ie., The user must press a button to initiate the load or play operations the 1st time.

Any media playing when the command is issued will be paused. The the download may not be cancelled as it depends on whether the browser follows the recent W3C HTML media spec. In practice, except for the first time `setMedia` is used in the ready event, the `setMedia` command is followed by a `play` command which stops the old download. The exception is with the media player, where the old media of different type (audio or video), will continue downloading. Otherwise the iPhone's built in video player hangs when the `src` is cleared to cancel the download.

**Do not use relative URLs for the media.** The media URLs must be absolute or relative to the server root. For example, "http:www.jplayer.org/media/video.m4v" or "/media/video.m4v".

Relative URLs will have problems with the Flash fallback with M4A and M4V formats. If your Jplayer.swf file is on another domain, (for some reason that makes sense to you,) then absolute URLs must be used.

The URLs given must conform to standard URL Encoding Rules.

### Parameters

#### media

Object : Defines the media format URLs and poster

#### mp3

String : Defines the URL of the mp3 audio format

#### m4a

String : Defines the URL of the mp4 audio format (MP4: AAC)

#### m4v

String : Defines the URL of the mp4 video format (MP4: H.264/AAC)

#### webma

String : Defines the URL of the webm audio format (WebM: Vorbis)

#### webmv

String : Defines the URL of the webm video format (WebM: VP8/Vorbis)

#### oga

String : Defines the URL of the ogg audio format (OGG: Vorbis)

#### ogv

String : Defines the URL of the ogg video format (OGG: Theora/Vorbis)

#### fla

String : Defines the URL of the flv audio format (FLV: Flash)

#### flv

String : Defines the URL of the flv video format (FLV: Flash)

#### wav

String : Defines the URL of the wav audio format

#### poster

String : Defines the URL of the poster image.

The poster image should have the same aspect ratio as the jPlayer size, or the image will be distorted when it is resized to fit the area.

#### track

Array : Each array element is an object defining a <track> element.

**This property is partially implemented without suitable GUI controls exposed.**

**There is no polyfill for browsers (or the flash solution), which does not support WebVTT.**

While the use of this is limited, it might be suitable when the

`jPlayer({nativeVideoControls})` option is used and your target browser support is specific to those with WebVTT support. This follows the [W3C Media Element Living Standard](#) and the [WebVTT Living Standard](#), see them for more details.

`kind`

String : Defines the type of track.

`src`

String : Defines the URL of the track.

`srclang`

String : Defines the language of the track.

`label`

String : Defines the label for the track.

`def`

Boolean : True if this is the default track.

Note that only the properties listed are used by jPlayer, so you could store all kinds of other info in the same object if your project works better that way. For example, the title and album names of an audio track. However, we do plan to expand the media object properties in the future Properties may one day include: stream, chapters, subtitles.

Code Examples:

```
1.  $("#jpId").jPlayer( {
2.    ready: function() {
3.      $(this).jPlayer( "setMedia", {
4.        m4a: "m4a/elvis.m4a",
5.        oga: "oga/elvis.oga",
6.        webma: "webm/elvis.webm"
7.      });
8.    },
9.    supplied: "webma, m4a, oga"
10.  });
```

## **`$(id).jPlayer( "clearMedia" ) : jQuery`**

### **Description**

This method is used to clear the media and stop playback. If a media file is downloading at the time, the download will be cancelled.

After this command is issued, playback commands such as `jPlayer("play")` will be ignored and raise error events until after new media has been specified using the `jPlayer("setMedia", media)` method.

There are very few circumstances when it is appropriate to use this method. In general when you are changing media, this action is automatically performed.

Using this clearMedia by itself on the iOS iPhone or iPod Touch will corrupt the built in video player if it is open at the time the command executes.

#### Parameters

This method has no parameters.

Code Examples:

```
1.    $( "#jpId" ).jPlayer( "clearMedia" );
```

### **\$(id).jPlayer( "load" ) : jQuery**

#### Description

This method is used to preload the media before the play command is given. There is no point using `load` if you are going to `jPlayer("play", [time])` immediately afterwards, just `play` it. Likewise, with `jPlayer("pause", [time])`, if a time greater than zero is given.

This method allows you to selectively preload the files you choose after changing the file using `setMedia`. If you want all files to preload by default, use the `jPlayer` constructor option `{preload:"auto"}`.

This command is affected by browser and some ignore the command, or require a gesture to initiate it the 1st time.

#### Parameters

This method has no parameters.

Code Examples:

```
1.    $( "#jpId" ).jPlayer("load");
```

### **\$(id).jPlayer( "play", [Number: time] ) : jQuery**

#### Description

This method is used to play the media specified using `jPlayer("setMedia", media)`.

If necessary, the file will begin downloading.

Without the `time` parameter, new media will play from the start. Open media will play from where the play-head was when previously paused using `jPlayer("pause", [time])`.

The optional `time` parameter will move the play-head position to the time given in seconds. `jPlayer("play", 0)` is useful for forcing play from the start of the track, but is redundant for new media, which always starts from the beginning. This can be used to jump immediately to a play time after changing media. jPlayer will seek to the time given and play when able to.

If issued immediately after a `setMedia` command, with the `time` parameter, and when the browser is using the HTML5 solution, this command will initially fail and an internal timeout is setup to retry the command every 100ms until it succeeds.

### Parameters

`time`

[Optional] Number : Defines the new play-head position in seconds.

If used while downloading, play will begin once the media is seekable to that point.

To make media playback loop, add `jPlayer("play")` to the ended event. jPlayer deals with resetting the media to the start in the ended event, so the `time` equals zero is not required.

### Code Examples:

```
1.  $("#jpId").jPlayer( {
2.    ready: function() { // The $.jPlayer.event.ready event
3.      $(this).jPlayer("setMedia", { // Set the media
4.        m4v: "m4v/presentation.m4v"
5.      }).jPlayer("play"); // Attempt to auto play the media
6.    },
7.    ended: function() { // The $.jPlayer.event.ended event
8.      $(this).jPlayer("play"); // Repeat the media
9.    },
10.    supplied: "m4v"
11.  });
12.
13. $("#jumpToTime").click( function() {
14.   $("#jpId").jPlayer("play", 42); // Begins playing 42 seconds
    into the media.
15. });
```

## **`$(id).jPlayer( "pause", [Number: time] ) : jQuery`**

### Description

This method is used to pause the media.

The `jPlayer("pause", time)` can be used to jump immediately to a play-head time after changing media. The media will begin downloading, and cue the media ready when able to.

Without the `time` parameter, new media that has not been loaded or played will ignore this command. This avoids downloading the new media when the redundant command is given. Open media will pause if it was playing, otherwise there will be no effect.

The optional `time` parameter will move the play-head position to the time given in seconds and if necessary, the file will begin downloading. `jPlayer("pause", 0)` is the same as `jPlayer("stop")`. New media will ignore the `jPlayer("pause", 0)` command until after the media has started loading. This avoids downloading the new media when the redundant command is given.

If issued immediately after a `setMedia` command, with the `time` parameter, and when the browser is using the HTML5 solution, this command will initially fail and an internal timeout is setup to retry the command every 100ms until it succeeds.

#### Parameters

`time`

[Optional] Number : Defines the new play-head position in seconds.

If used while downloading, the play-head will cue once the media is seekable to that point.

Using a `jPlayer("pause", 0)` in the `ended` event is redundant and should not be used.

#### Code Examples:

```
1.  $("#jpId").jPlayer("pause", 10); // Pauses and moves the play-head 10 seconds into the song.
```

### **`$(id).jPlayer( "pauseOthers" ) : jQuery`**

#### Description

This method pauses all instances except the instance that invoked the command. This is useful in events such as the play event to pause all the other players on the page when an instance starts playing.

The play event handler can be defined in the constructor options.

#### Parameters

This method has no parameters.



## Code Examples:

```
1. $(id).bind($.jPlayer.event.play, function() { // Bind an event
    handler to the instance's play event.
2.     $(this).jPlayer("pauseOthers"); // pause all players except
    this one.
3. });
```

## **\$(id).jPlayer( "stop" ) : jQuery**

### **Description**

This method is used to stop the media and reset the play-head to the start of the media.

This command is the same as `jPlayer("pause", 0)`. The method is available so that a stop button can be used in your interface, if you want one.

If issued immediately after a `setMedia` command, this command is ignored.

### **Parameters**

This method has no parameters.

Using a `jPlayer("stop")` in the `ended` event is redundant and should not be used.

This avoids a fatal bug on Chrome (Win/OSX), where the browser crashes if you were to follow the `jPlayer("stop")` with a `jPlayer("setMedia")` in the `ended` event.

## Code Examples:

```
1. $("#jpId").jPlayer("stop");
```

## **\$(id).jPlayer( "playHead", Number: percentOfSeekable ) : jQuery**

### **Description**

This method moves the play-head to a new position. The primary use is internal to the plugin to handle clicks on the seekBar and move the play-head to the new position.

Note that this only moves the play-head. Whether the media plays from that point depends on its current state. ie., If it was playing, play continues from the new play-head. If it was paused, the media is cued to the new play-head position.

If issued immediately after a `setMedia` command, the effect is the same as `jPlayer("pause", 0)`, which is ignored.

### **Parameters**

percentOfSeekable

Number (0 to 100) defining the percentage played when compared to the current percentage seekable.

Only when completely seekable does the percentage relate to the total length of the media.

Most HTML5 browsers have seeking enabled, so the seekable value jumps to 100% when the media starts downloading.

#### Code Examples:

```
1.  $("#jpId").jPlayer("playHead", 0); // Move play-head to start.
2.  $("#jpId").jPlayer("playHead", 10); // Move play-head to 10% of
    the seekable length.
```

### **\$(id).jPlayer( "option", [String: key, [Mixed: value]] ) : Mixed**

#### **Description**

This method is used to access configuration information inside jPlayer.

The options are defined in the constructor. Full get access is enabled, where a copy of the option is returned. However you may currently only set a limited number of options after instancing jPlayer. These are indicated by the † symbol. See also, the [jPlayer Options](#).

#### **Parameters**

key

String defining the option property name. Supports dot notation.

The returned value can is either a Boolean, Number, String, or an Object, depending on the data requested.

Event handlers defined in the constructor are not included, since they can be removed using the ".jPlayer" namespace.

value

The new value of the option.

#### **Events**

\$.jPlayer.event.[warning](#)

Event Codes

\$.jPlayer.warning.[OPTION\\_KEY](#)

#### Code Examples:

```

1.  var solution = $("#jpId").jPlayer("option", "solution"); // Get
    the solution string, "html, flash" by default.
2.  var cssSelector = $("#jpId").jPlayer("option", "cssSelector");
    // Get the cssSelector object.
3.
4.  var playSelector = $("#jpId").jPlayer("option",
    "cssSelector.play"); // Get the cssSelector for the play method.
5.  var playSelector = $("#jpId").jPlayer("option",
    "cssSelector").play; // Get the cssSelector for the play method.
6.
7.  $("#jpId").jPlayer("option", "cssSelector.play", ".my-new-
    class"); // Set the cssSelector for the play method.
8.  $("#jpId").jPlayer("option", "cssSelector", {play:".my-new-
    class"}); // Set the cssSelector for the play method. (Can set
    multiple selectors in the object.)
9.
10. $("#jpId").jPlayer("option", "cssSelectorAncestor", "#my-new-
    interface"); // Set the cssSelectorAncestor and refresh all
    associations.

```

## **\$(id).jPlayer( "focus" ) : jQuery**

### **Description**

This method is used to gain the focus of keyboard controls without playing.

For more information on keyboard controls see the `jPlayer({keyEnabled})` option.

### **Parameters**

This method has no parameters.

Code Examples:

```

1.  $("#jpId").jPlayer("focus");

```

## **\$(id).jPlayer( "destroy" ) : jQuery**

### **Description**

This method removes jPlayer. All event and interface bindings created by jPlayer are removed. After destroying the instance, a new jPlayer can be instanced on the element.

All event handlers with the `.jPlayer` namespace are removed by this method.

### **Parameters**

This method has no parameters.

Code Examples:

```
1.    $( "#jpId" ).jPlayer("destroy");
```

## **\$(id).jPlayer( "volume", Number: ratio ) : jQuery [↑](#)**

### **Description**

This method is used to control the volume of the media being played. Note that the initial volume is set through the constructor option: `jPlayer({volume}:ratio)`. The volume can be changed through the option method: `jPlayer({option}, "volume", ratio)`.

While muted you can change this value, but the media will remain muted.  
Setting the volume to zero is not the same as using `mute`. The two systems are independent.

### **Parameters**

ratio

Number (0 to 1) defining the ratio of maximum volume.

Silence: 0

Half: 0.5

Maximum: 1

Code Examples:

```
1.    $( "#jpId" ).jPlayer("volume", 0.75);
```

## **\$(id).jPlayer( "mute", [Boolean:mute] ) : jQuery [↑](#)**

### **Description**

This method mutes the media's sounds. Note that the initial muted state is set through the constructor option: `jPlayer({muted}:Boolean)`. The mute state can be changed through the option method: `jPlayer({option}, "muted", Boolean)`.

### **Parameters**

mute

Boolean : (Default: true) : The muted state.

Code Examples:

```
1.    $( "#jpId" ).jPlayer("mute");
```

## **\$(id).jPlayer( "unmute", [Boolean:unmute] ) : jQuery [↑](#)**

## Description

This method unmutes the media's sounds. Note that the initial muted state is set through the constructor option: `jPlayer({muted:false})` The mute state can be changed through the option method: `jPlayer({option}, "muted", Boolean)`.

## Parameters

unmute

Boolean : (Default: true) : The oposite of the muted state.

Code Examples:

```
1.    $( "#jpId" ).jPlayer("unmute");
```

## jPlayer Options

jPlayer allows you to change certain options after instancing. These are indicated by the † symbol. All other options must be defined at creation through the constructor options.

Due to the nature of the `cssSelector` and `cssSelectorAncestor` options, there are described here in more detail.

**`$(id).jPlayer( "option", "cssSelector", String: method, String: selector ) : jQuery`**

## Description

This option allows developers to change the `cssSelector` associations after jPlayer has been instanced on the page.

The `cssSelector` method is used with the jPlayer constructor option `cssSelectorAncestor` to create associations between jPlayer methods and CSS entities on the webpage. For example, this enables a play button graphic on the webpage to be associated with the method that executes the play command.

By default, jPlayer uses a [predefined set of cssSelectors](#), where all the css selectors are class selectors. The strings are added to the end of the `cssSelectorAncestor` string, with a space in between. The default `cssSelectorAncestor` is an id selector. By using a single id and a common class structure, multiple instances of jPlayer are easy to add to the page. The idea is that jPlayer is associated with a unique interface, hence the id, and then the rest of the structure is common, hence the classes.

The `method` may only have one `selector` associated with it through jPlayer. An existing association will be removed if a new association is given. An empty string clears existing associations.

jPlayer uses the ".jPlayer" event namespace for binding and unbinding methods to CSS entities.

## Parameters

method

String containing the name of the method to associate with the `selector`.  
See the [predefined cssSelectors](#) for the list of valid method names.

selector

String containing the CSS Selector to associate with the `method`.  
Usually a class selector. Eg., ".jp-play"

## Events

`$.jPlayer.event.`[warning](#)

Event Codes

`$.jPlayer.warning.`[CSS\\_SELECTOR\\_COUNT](#)

`$.jPlayer.warning.`[CSS\\_SELECTOR\\_METHOD](#)

`$.jPlayer.warning.`[CSS\\_SELECTOR\\_STRING](#)

## Code Examples:

```
1.  $(document).ready(function() {
2.    $("#jpId").jPlayer( {
3.      ready: function () {
4.        $(this).jPlayer("setMedia", {mp3: "mp3/elvis.mp3"});
5.      },
6.      cssSelectorAncestor: "", // Remove the ancestor css selector
   clause
7.      cssSelector: {
8.        play: "#myOldPlayButton" // Set a custom css selector for
   the play button
9.        // The other defaults remain unchanged
10.     }
11.   })
12.
13.   // ... Some time later, otherwise you'd just set it in the
   constructor ...
14.
15.   $("#jpId").jPlayer( "option", "cssSelector", "play",
   "#myNewPlayButton" );
16. });
```

**`$(id).jPlayer( "option", "cssSelectorAncestor", String: selector ) : jQuery`**

## Description

This option allows the developers to change the associations after jPlayer has been instanced on the page.

Setting this option causes all the `cssSelector` associations to be refreshed with the new ancestor. Allowing you to switch between interfaces easily. I am not sure why you would want to do that, but it's here if you need it.

#### Parameters

**selector**

String containing the CSS Selector to associate with the `cssSelectorAncestor`. Usually an id selector. Eg., `"#jp_container_1"`

#### Events

`$.jPlayer.event.warning`

Event Codes

`$.jPlayer.warning.CSS\_SELECTOR\_COUNT`

Code Examples:

```
1.  $(document).ready(function() {
2.    $("#jpId").jPlayer( {
3.      ready: function () {
4.        $(this).jPlayer("setMedia", {mp3: "mp3/elvis.mp3"});
5.      },
6.      cssSelectorAncestor: "#interface-on-the-left" // Define the
      ancestor css selector
7.    })
8.
9.    // ... Some time later, otherwise you'd just set it in the
      constructor ...
10.
11.   $("#jpId").jPlayer( "option", "cssSelectorAncestor",
      "#interface-on-the-right" );
12. });
```

## jPlayer Events

jPlayer communicates with your code via events.

All jPlayer events can have a handler defined using the constructor option of the same name:

```
jPlayer({eventName:function(e){...}})
```

Event handlers created by constructor options have the `".jPlayer"` namespace.

## jPlayer Event Types

1. \$.jPlayer.event.[ready](#) \* † Occurs when jPlayer is ready to receive commands.
2. \$.jPlayer.event.flashreset \* † Occurs when the Flash solution generates another ready event.
3. \$.jPlayer.event.resize \* † Occurs when the screen state changes and when the size/sizeFull options are changed.
4. \$.jPlayer.event.[repeat](#) \* † Occurs when the loop state is changed and before the ready event.
5. \$.jPlayer.event.click \* † Occurs when the user clicks on the poster or video. NB: The GUI skin can interfere with this.
6. \$.jPlayer.event.error \* ‡
7. \$.jPlayer.event.warning \* †
8. \$.jPlayer.event.loadstart \*
9. \$.jPlayer.event.progress \* Occurs while the media is being downloaded.
10. \$.jPlayer.event.suspend
11. \$.jPlayer.event.abort
12. \$.jPlayer.event.emptied
13. \$.jPlayer.event.stalled
14. \$.jPlayer.event.play \* Occurs when the media is played.
15. \$.jPlayer.event.pause \* Occurs when the media is paused.
16. \$.jPlayer.event.loadedmetadata
17. \$.jPlayer.event.loadeddata
18. \$.jPlayer.event.waiting
19. \$.jPlayer.event.playing
20. \$.jPlayer.event.canplay
21. \$.jPlayer.event.canplaythrough
22. \$.jPlayer.event.seeking \*
23. \$.jPlayer.event.seeked \*
24. \$.jPlayer.event.timeupdate \* Occurs when the currentTime is changed. (~250ms between events during playback.)
25. \$.jPlayer.event.ended \* Occurs when the media ends.
26. \$.jPlayer.event.ratechange
27. \$.jPlayer.event.durationchange
28. \$.jPlayer.event.volumechange \* Occurs when volume or muted change.

\* A jPlayer event supported by both the Flash fallback and HTML5 browsers

† jPlayer event that is not part of the HTML5 Spec

‡ jPlayer event that differs from the html Spec. ie., There is more than 1 type of error.

We plan to expand the emulation of HTML5 Media events in the Flash.

## jPlayer Event Object

**eventHandler(event)**

event

Object: Standard jQuery \$.Event() properties.



event.jPlayer  
Object : The jPlayer information object.

event.jPlayer.error  
Object

event.jPlayer.error.type  
String : The [error event code](#)

event.jPlayer.error.context  
String : The cause of the error

event.jPlayer.error.message  
String : Message describing the error

event.jPlayer.error.hint  
String : A suggestion on how to fix the error

event.jPlayer.flash  
Object : Info about the Flash solution

event.jPlayer.html  
Object : Info about the HTML solution

event.jPlayer.options  
Object : The jPlayer options. The volume and muted values are maintained here along with all the other options.

event.jPlayer.status  
Object

event.jPlayer.status.src  
String : The URL being used by jPlayer.

event.jPlayer.status.media  
Object : Pointer to the media object used in setMedia.

event.jPlayer.status.seekPercent  
Number : Percent seekable

event.jPlayer.status.currentPercentRelative  
Number : Current time as a percent of seekPercent

event.jPlayer.status.currentPercentAbsolute  
Number : Current time as a percent of duration

event.jPlayer.status.currentTime  
Number : The current time in seconds

event.jPlayer.status.duration  
Number : The duration of the media

event.jPlayer.status.srcSet  
Boolean

event.jPlayer.status.paused  
Boolean

event.jPlayer.status.waitForPlay  
Boolean

event.jPlayer.status.waitForLoad  
Boolean

event.jPlayer.status.video  
Boolean

event.jPlayer.status.width

String : The current CSS style width of jPlayer.

event.jPlayer.status.height  
String : The current CSS style height of jPlayer.

event.jPlayer.status.videoWidth  
Number : The intrinsic width of the video in pixels. (Zero before known or if audio.)

event.jPlayer.status.videoHeight  
Number : The intrinsic height of the video in pixels. (Zero before known or if audio.)

event.jPlayer.version  
Object

event.jPlayer.version.script  
String : jPlayer's JavaScript version

event.jPlayer.version.flash  
String : jPlayer's Flash version, or "unknown" if Flash is not being used

event.jPlayer.version.needsFlash  
String : The Flash version compatible with the JavaScript

event.jPlayer.warning  
Object

event.jPlayer.warning.type  
String : The [warning event code](#)

event.jPlayer.warning.context  
String : The cause of the warning

event.jPlayer.warning.message  
String : Message describing the warning

event.jPlayer.warning.hint  
String : A suggestion on how to fix the warning

## **jPlayer Error Event Codes**

### **event.jPlayer.error.type**

#### **\$.jPlayer.error.FLASH**

A problem with the Flash insertion on the page.

#### **\$.jPlayer.error.FLASH\_DISABLED**

A ready event was registered from the Flash, but commands are no longer working. The Flash has been disabled by the browser because it, or a parent, has been hidden using `display:none`

#### **\$.jPlayer.error.NO\_SOLUTION**

No media playback solution is available.

#### **\$.jPlayer.error.NO\_SUPPORT**

Not possible to play any media format provided in `setMedia`.

#### **\$.jPlayer.error.URL**

Error with media URL. †

#### **\$.jPlayer.error.URL\_NOT\_SET**

Media playback command not possible as no media is set.

#### **\$.jPlayer.error.VERSION**

Mismatch in versions of JavaScript and Flash of jPlayer.

† Equivilent to the HTML5 Media error event. (Not exactly true... The HTML error event can occur due to decoding errors too.)

jPlayer constructor option `jPlayer({errorAlerts:true})` will create alerts when an error event occurs.

## jPlayer Warning Event Codes

`event.jPlayer.warning.type`

`$.jPlayer.warning.CSS_SELECTOR_COUNT`

The number of `jPlayer('cssSelector')` or `jPlayer('cssSelectorAncestor')` found did not equal one.

`$.jPlayer.warning.CSS_SELECTOR_METHOD`

The `jPlayer('cssSelector')` method is not valid.

`$.jPlayer.warning.CSS_SELECTOR_STRING`

The `jPlayer('cssSelector')` was not a valid string.

`$.jPlayer.warning.OPTION_KEY`

The option requested in `jPlayer('option')` is undefined.

jPlayer constructor option `jPlayer({warningAlerts:true})` will create alerts when a warning event occurs.

## Using jPlayer Events

Just like any other event in jQuery, jPlayer events are bound to handler functions using `jQuery.bind\(\)`. To remove an event use `jQuery.unbind\(\)`.

Use the [\\$.jPlayer.event](#) object to access event type strings. All events have a [jPlayer Event Object](#) with easy access to information at the time the event occurred.

All jPlayer events can have a handler defined using the constructor option of the same name.

`jPlayer({eventType:handler})`

Note that, the event type used in the constructor is the property name of the event, not the event string code. For example, the event type `$.jPlayer.event.ready` has the constructor option `jPlayer({ready:handler})`:

Event handlers created by constructor options have the `".jPlayer"` namespace.

Code Examples:

```
1.  $("#repeat-on").click( function() {
```

```

2.     $("#jpId").bind($.jPlayer.event.ended + ".jp-repeat",
    function(event) { // Using ".jp-repeat" namespace so we can
    easily remove this event
3.         $(this).jPlayer("play"); // Add a repeat behaviour so media
    replays when it ends. (Loops)
4.     });
5.     return false;
6. });
7.
8.     $("#repeat-off").click( function() {
9.         $("#jpId").unbind($.jPlayer.event.ended + ".jp-repeat"); //
    Remove the ended events with the ".jp-repeat" namespace
10.    return false;
11. });
12.
13. $("#jpId").bind($.jPlayer.event.play, function(event) { // Add a
    listener to report the time play began
14.     $("#playBeganAtTime").text("Play began at time = " +
    event.jPlayer.status.currentTime);
15. });
16.
17. $("#jpId").unbind($.jPlayer.event.play); // Remove all play
    event listeners
18.
19.
20. $("#jpId").bind($.jPlayer.event.error + ".myProject",
    function(event) { // Using ".myProject" namespace
21.     alert("Error Event: type = " + event.jPlayer.error.type); //
    The actual error code string. Eg., "e_url" for
    $.jPlayer.error.URL error.
22.     switch(event.jPlayer.error.type) {
23.         case $.jPlayer.error.URL:
24.             reportBrokenMedia(event.jPlayer.error); // A function you
    might create to report the broken link to a server log.
25.             getNextMedia(); // A function you might create to move on
    to the next media item when an error occurs.
26.             break;
27.         case $.jPlayer.error.NO_SOLUTION:
28.             // Do something
29.             break;
30.     }
31. });
32.
33. $("#jpId").unbind(".myProject"); { // Remove ".myProject"
    namespace event listeners using standard jQuery method
34.

```

## jPlayer Functions

### \$.jPlayer.pause() : Void

#### Description

Pauses all instances of jPlayer on the current page. If using frames, then only the the frame the command is issued in is affected.

## Parameters

This method has no parameters.

Code Examples:

```
1.    $.jPlayer.pause(); // Pause all instances of jPlayer on the page
```

## **\$.jPlayer.convertTime( Number: seconds ) : String**

### Description

This function is used to convert a time, in seconds, to a string formatted in hours, minutes and seconds. The format of the conversion is defined using the object

`$.jPlayer.timeFormat`.

This function is used to format the text jPlayer writes to the css selectors for `currentTime` and `duration`, however, a jPlayer instance uses it own `jPlayer({timeFormat:Object})` option.

### Parameters

seconds

Number : The number of seconds to convert.

### Returns

String : The formatted time.

Code Examples:

```
1.    $("#myTime").text($.jPlayer.convertTime(60)); // One minute
```

## **\$.jPlayer.keys( Boolean: enable ) : Void**

### Description

By default, this function has been executed with `enable` set true. This generates the keyboard event handler on the document, which is used to detect key bindings and direct them to the jPlayer instance in focus.

In general, you should not need to use this function. It has been documented since it may be of use if you wish to globally toggle keyboard controls on and off for multiple instances.

For more information on keyboard controls see the `jPlayer({keyEnabled})` option.

When enabled, the `keydown.jPlayer` event is bound to the `document.documentElement` element.

### Parameters

`enable`

Boolean : To bind or unbind the global keyboard event handler.

Code Examples:

```
1. $.jPlayer.keys(false); // Turn off all key controls
2. $.jPlayer.keys(true); // Turn on key controls for instances with
   keyEnabled set.
```

## jPlayer Objects

### \$.jPlayer.timeFormat : Object

#### Description

This object is used to format the time returned by the function:

`$.jPlayer.convertTime( seconds )`

The formatting is cumulative. For example, the default settings display the minutes and seconds, so a time that is over an hour value will be added on to the minutes. In this case, a time of 1 hour 45 minutes and 10 seconds, would display as 105:10. To make the time display as 1:45:10 then set

```
$.jPlayer.timeFormat.showHour = true;
```

This object defines the default value of the `jPlayer({timeFormat:Object})` option.

#### Properties

`showHour`

Boolean : (Default: false) : Displays the hours.

`showMin`

Boolean : (Default: true) : Displays the minutes.

`showSec`

Boolean : (Default: true) : Displays the seconds.

`padHour`

Boolean : (Default: false) : Zero pads the hour if less than 10.

`padMin`

Boolean : (Default: true) : Zero pads the minute if less than 10.

`padSec`

Boolean : (Default: true) : Zero pads the second if less than 10.

`sepHour`

String : (Default: ":") : String between hour and minute.

sepMin

String : (Default: ":") : String between minute and second.

sepSec

String : (Default: "") : String after second.

Code Example:

```
1. $.jPlayer.timeFormat.showHour = true;
2. $.jPlayer.timeFormat.sepHour = " hours ";
3. $.jPlayer.timeFormat.sepMin = " minutes ";
4. $.jPlayer.timeFormat.sepSec = " seconds";
```

## **\$.jPlayer.platform : Object**

### **Description**

This object is the result of a user agent sniffer and gives information for mobile and tablet platforms.

When detected, the properties are true:

### **Properties**

mobile

Boolean : True when a smart phone is detected.

tablet

Boolean : True when a tablet device is detected.

ipad

iphone

ipod

android

blackberry

playbook

webos

windows\_ce

Code Example:

```
1. if($.jPlayer.platform.tablet) {
2.     // Do something for all tablet devices
3.     if($.jPlayer.platform.ipad) {
4.         // Do something on ipad devices
5.     }
6.     if($.jPlayer.platform.android) {
7.         // Do something on android tablet devices
8.     }
9. }
```

## **jPlayer's Predefined CSS Selectors**

jPlayer has a predefined set of CSS selectors built in. Below are the default associations between the jPlayer method and the CSS selector.

To define custom CSS selectors use the constructor options:

```
jPlayer({cssSelectorAncestor: "#my-unique-id", cssSelector: {...}})
```

To change CSS selectors after instancing, use `jPlayer("option", key, value):`

```
jPlayer("option", "cssSelector", method, selector)
```

```
jPlayer("option", "cssSelectorAncestor", selector)
```

### Default `cssSelectorAncestor`

```
1.  cssSelectorAncestor: "#jp_container_1"
```

### Default `cssSelector`

method: "selector"

```
1.  cssSelector: {
2.    videoPlay: ".jp-video-play",
3.    play: ".jp-play",
4.    pause: ".jp-pause",
5.    stop: ".jp-stop",
6.    seekBar: ".jp-seeking-bar",
7.    playBar: ".jp-play-bar",
8.    mute: ".jp-mute",
9.    unmute: ".jp-unmute",
10.   volumeBar: ".jp-volume-bar",
11.   volumeBarValue: ".jp-volume-bar-value",
12.   volumeMax: ".jp-volume-max",
13.   currentTime: ".jp-current-time",
14.   duration: ".jp-duration",
15.   fullScreen: ".jp-full-screen",
16.   restoreScreen: ".jp-restore-screen",
17.   repeat: ".jp-repeat",
18.   repeatOff: ".jp-repeat-off",
19.   gui: ".jp-gui",
20.   noSolution: ".jp-no-solution"
21. }
```

### Actual CSS Selector String Coding

```
selector = cssSelectorAncestor + " " + cssSelector[method];
```

For example, the play method's default actual selector is: `"#jp_container_1 .jp-play"`

In English, this means select the entity with class `jp-play` that has an ancestor with the id `jp_container_1`.

Remember that ids are unique, while classes are common. An id should only ever be used once in the HTML.



## jPlayer Graphical Skins

The HTML and CSS/Artwork varies from skin to skin. The CSS/Artwork is designed to work with all of that skin's HTML structures. You should get the HTML structure from the demo ZIP, available on the [download](#) page. The PSD files are also available for each skin.

### Accessibility

While the skin conforms with the [HTML 4.01 Spec](#), unfortunately some browsers do not adhere to the spec. For example, Safari does not include `<a>` elements in the tab order. If you wish to correct this, the `<a>` can be replaced with `<input>` or `<button>` elements. Using these form elements requires an empty transparent GIF file to be specified for each element, which complicates use when used in dynamic web apps such as WordPress. The `<input>` and `<button>` elements also behave differently cross-browser, in particular where Internet Explorer moves the artwork down and to the right when it is clicked on. For these reasons, our standard skin uses the `<a>` element.

The `accesskey` attribute may be added to each `<a>` element to provide access key support. The use of access keys depends on your target users. Most users do not even know how to [initiate an access key](#) and it varies from browser to browser. The key itself also needs to be conveyed to the user in some manner. Since access keys can interfere with the operation of some browsers we have not used the attribute in the default skin. After investigation, a clearly labeled link is preferred by the majority of screen reader users. ie., Our play button has the word "play" in the link, even though the text is not visible when using a standard browser.

## jPlayer Compatibility

### jQuery

Compatibility verified with:

- jQuery 2.0.x
- jQuery 1.10.x
- jQuery 1.9.x
- jQuery 1.8.x
- jQuery 1.7.x †
- jQuery 1.6.x † ‡
- jQuery 1.5.x † ‡
- jQuery 1.4.x † ‡
- jQuery 1.3.x † ‡

† The jPlayerPlaylist add-on requires jQuery 1.7+

‡ Deprecated.

## **Zepto**

Compatibility verified with:

- Zepto 1.0 compiled with Data module

## **Browser**

Compatibility verified with:

- Chrome 27 (Win, OSX) †
- Firefox 21 (Win, OSX) †
- Firefox 3.6 (Win)
- Safari 6.0.4 (OSX) †
- Opera 12.15 (Win, OSX) †
- Internet Explorer 10 (Win)
- Internet Explorer 9 (Win)
- Internet Explorer 8 (Win)
- Internet Explorer 7 (Win)
- Internet Explorer 6 (Win)

† Tested using the latest browser release when this jPlayer version was released.

Apple dropped support for Windows in Safari 5.1.7

## **Mobile Browser**

Compatibility verified with:

- Mobile Safari (iOS 6.1: iPad / iPhone / iPod Touch) †
  - All iOS browsers use this engine.
  - iPhone / iPod Touch: Video plays in the QuickTime plugin.
  - Prior to iOS 6, the Play and load bar progress did not work well when using multiple instances of jPlayer. This browser enables one media element at a time, so playing 2 instances together is not possible.
- Mobile Chrome (Android 4.2.2: Nexus 7) †
  - The tab must be in focus for the media to play.
- Playbook Browser †

† Tested using the latest browser release when this jPlayer version was released.

## **jPlayer Known Issues**

### **Android HTML5 Issues**

The incomplete implementation of the HTML5 Media Spec on Android 2.3 causes problems with jPlayer's behaviour.

Issues with Android 2.3:

- Missing ended events.
- Failure when `setMedia` is followed by `play`.
- Failure when the media has finished playing. The audio that was just playing is corrupted by it ending.

Take a look at this [jPlayer Demo](#) to see a working solution to these issues.

### Incompatible Browsers

jPlayer does not work on the following browsers:

- Wii Opera
- Playstation 3 Browser

### Event Driven Mobile Browsers

The following Mobile browsers require user gestures to trigger commands that effect media playback.

- Mobile Safari
  - The first time a media element is played must be initiated by a user gesture. ie., The user must click the play button. This affects the operation of a `jPlayer("play")` in the ready event handler. The browser will ignore the command. jPlayer will simply wait until the user presses the play button. Once the first gesture has been received, JavaScript code is then allowed to do whatever you want with the media element. Note that a jPlayer media player instance uses a audio and a video element. Each require their own gesture.  
Also affect: `jPlayer("load")` and `jPlayer("pause", time)`

### Reference: HTML5 Browser Audio and Video Support

Here are details on the supported formats by HTML5 browsers. All browser versions are their latest official release.

Format names relate to the [supplied](#) and [setMedia](#) format property names used by jPlayer. For example: WEBMA is an audio WebM, OGV is a video OGG, and M4A is an audio MP4. For more details on the formats, see [Media Encoding](#).

### HTML5 Audio Format

An audio WebM file uses the same Vorbis codec as an OGG file.

HTML5 browsers and their supported audio file formats:

- Firefox (OSX, Win): WEBMA, OGA
- Safari (OSX, Win): MP3, M4A
- Mobile Safari iOS4 (iPad, iPhone, iPod): MP3, M4A
- Opera (OSX, Win): WEBMA, OGA
- Chrome (OSX, Win): WEBMA, OGA, MP3, M4A
- IE9 (Win): MP3, M4A (Can install the WebM codec.)

### **HTML5 Video Format**

The video WebM (VP8) codec is superior to the video OGG (Theora) codec.

HTML5 browsers and their supported video file formats:

- Firefox (OSX, Win): WEBMV, OGV
- Safari (OSX, Win): M4V
- Mobile Safari iOS4 (iPad, iPhone, iPod): M4V
- Opera (OSX, Win): WEBMA, OGV
- Chrome (OSX, Win): WEBMV, OGV, M4V. (Will drop support for M4V soon.)
- IE9 (Win): M4V (Can install the WebM codec.)

### **HTML5 Audio Streams**

HTML5 browsers and their support for audio streams. (Note that, jPlayer's Flash fall-back for non-HTML5 browsers works with MP3 streams.)

Audio streams work on:

- Firefox (OSX, Win): OGA
- Safari (OSX): MP3
- Mobile Safari (iOS4 iPad/iPhone/iPod): MP3
- Opera (OSX, Win): OGA
- Chrome (OSX, Win): MP3, OGA
- IE9 (Win): MP3

Audio streams fail on:

- Safari (Win): MP3

### **External Resources**

Some links to resources about HTML5 video and audio support:

- [diveintohtml5.org](http://diveintohtml5.org) : Video on the Web.
- [html5test.com](http://html5test.com) : HTML5 Test - Where you can test your browser's HTML5 support.
- [www.trygve-lie.com](http://www.trygve-lie.com) : HTML5 audio element and streaming

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