

## Appendix V - The QuickTime Plug-in

### Introduction

The most common place to have your QuickTime movie viewed is from a web site. Placing a movie into a web site is called “embedding”. Use the <EMBED> tag to embed a QuickTime movie into an HTML document. Embedding a QuickTime movie is fairly straight forward; however, there are a few things to keep in mind such as hijacking and plug-in detection. Another item of importance is the configuration of your web server. Proper configuration of MIME types is necessary to present your movies on a web site. We will discuss what is necessary to display your movies in this Appendix.

### MIME Types and File Extensions

There are really only four things that you have to do in order to deliver QuickTime movies from your Web server:

Map the .mov file extension to the video/quicktime MIME type.

Map the .qti and .qtif file extensions to the image/x-quicktime MIME type.

Map the .pntg file extension to the image/x-macpaint MIME type.

Map the .qtl file extension to the application/x-quicktimeplayer MIME type.

*Note: If you don't understand this contact your ISP or office administrator.*

All QuickTime content can be delivered as QuickTime movies using the .mov file extension. Some examples of media types are: movies, still images, slide shows, recorded sound, MIDI music, MPEG audio and video, Flash animations, MP3 and text.

The .qti, .qtif, and .pngt file extensions are used to prevent MIME type hijacking.

The .qtl file extension is used to create links directly to the QuickTime Player, rather than the QuickTime browser plug-in.

QuickTime can also play content using other file extensions and MIME types, but browsers are often configured to use non-QuickTime plugins or applications to play them. Embedding them directly is not recommended. The QuickTime movies do not need to be listed on your server to play them in QuickTime. You can link to them using the .mov, .qti, .qtif, .pngt, or .qtl extensions.

## About the <EMBED> Tag

There are quite a few parameters that the browser understands, but most of them aren't needed. You can generally get by with a simple

```
<EMBED SRC="my_movie.mov" WIDTH="320" HEIGHT="240">
```

replacing my\_movie.mov with the name of your movie and setting WIDTH and HEIGHT to the size of your movie (in pixels).

A few other <EMBED> parameters that are frequently used are PLUGINSOURCE, which should point to the QuickTime download page, and HIDDEN which you use for background sounds. AUTOPLAY is another parameter you can use. If you are using LiveStage to create your movies, there is an option to set AUTOPLAY which will override the AUTOPLAY settings used here. CONTROLLER will allow you to choose whether you want the movie controller to be visible on your web site. Again be aware that LiveStage can disable this feature and will over-ride this setting.

***Note:** To find the height and width of a QuickTime movie, open the movie using QuickTime Player. Choose "Get Info" from the Movie menu or "Get Movie Properties" in QuickTime 5. This opens an Info window with two pop-up menus. From the right pop-up menu, choose Size. The size of the movie is shown as Width x Height.*

## Using the <EMBED> Tag

To embed your movie you can use the code below and change certain items to your preference.

```
<EMBED SRC="my_movie.mov" WIDTH="320" HEIGHT="240"  
TYPE="video/quicktime"  
PLUGINSOURCE="http://www.apple.com/quicktime/download/"  
CONTROLLER="false" AUTOPLAY="true">
```

### WIDTH and HEIGHT

The WIDTH and HEIGHT parameters tell the browser how much space to give the plug-in on the web page. Set it to the size of the movie in pixels. The size of the controller is 16 pixels, therefore if you want to show the controller in your movie set the HEIGHT 16 pixels larger. For example, set HEIGHT="240" for a movie that is 240 pixels high.

### PLUGINSOURCE

Use the PLUGINSOURCE parameter to direct viewers of your web site who don't have the QuickTime plug-in to the QuickTime download site. This will indicate to the viewers that the site uses QuickTime and will allow them to download it if necessary. It is also a good idea to put the "Get QuickTime" logo on your site, which you can find on Apple's QuickTime site at [www.apple.com/quicktime](http://www.apple.com/quicktime). Viewers of your web site who do not have QuickTime may have Windows's Media Player "Hijack" the QuickTime movie, especially if they are on the Windows OS. Hijacking is explained later.

```
<EMBED SRC="my_movie.mov" WIDTH="320" HEIGHT="240"  
PLUGINSOURCE="http://www.apple.com/quicktime/download/">
```

## HIDDEN

The HIDDEN parameter is used to hide the movie. QuickTime isn't just for visual representation. You would want to set HIDDEN to "True" if you were to have QuickTime play a sound in the background. Set both WIDTH and HEIGHT to "2" when using HIDDEN. Never set HEIGHT or WIDTH to a value of less than 2. This is because some browsers crash if HEIGHT or WIDTH is less than 2, so that is the minimum safe size.

```
<EMBED SRC="bg_sound.mov" WIDTH="2" HEIGHT="2"  
HIDDEN="True">
```

Since the movie is hidden, you also need to set some parameters for the QuickTime plug-in. Just add them to the <EMBED> tag; the browser ignores any tags it doesn't understand, and the tags are passed to the plug-in. You need to pass AUTOPLAY="True" and CONTROLLER="False" to the plug-in, so the movie plays automatically without a controller. If you are using LiveStage to create your movies, there is an option to set AUTOPLAY which will override the AUTOPLAY settings used here.

```
<EMBED SRC="bg_sound.mov" WIDTH="2" HEIGHT="2"  
HIDDEN="True" CONTROLLER="False" AUTOPLAY="True">
```

## QuickTime Plug-in Detection Using Embedded Scripts

The easiest way to detect the QuickTime plug-in is to use JavaScript & Microsoft's version of JavaScript called VBScript. You can also detect the plug-in by using QuickTime itself, however using JavaScript along with the Hijacking prevention mentioned later is the best fit. Below is an example of how Totally Hip detects the QuickTime plug-in for the LiveStage Developer Network. [www.totallyhip.com/lstdn](http://www.totallyhip.com/lstdn)

### <HEAD>

To copy text from Adobe Acrobat Reader, choose the "Text Select Tool" and copy the text from below and paste it into your HTML.

```
<HEAD>
<!-- BEGIN SCRIPTING -->
<SCRIPT LANGUAGE=Javascript><!--
var haveqt = false;
// -->
</SCRIPT>
<SCRIPT LANGUAGE=VBScript><!--
On Error Resume Next
        Set theObject =
CreateObject("QuickTimeCheckObject.QuickTimeCheck.1")
        On Error goto 0

        If IsObject(theObject) Then
            If theObject.IsQuickTimeAvailable(0) Then 'Just check for file
                haveqt = true
            End If
        End If
// -->
</SCRIPT>
<SCRIPT LANGUAGE=Javascript><!--
if (navigator.plugins) {
```

```

        for (i=0; i < navigator.plugins.length; i++ ) {
            if (navigator.plugins[i].name.indexOf("QuickTime") >= 0)
                { haveqt = true; }
        }
    }
// -->
</SCRIPT>
<SCRIPT LANGUAGE=JavaScript><!--
var bVersion = navigator.appVersion.indexOf("MSIE 4.5",0) + 1
    if (bVersion >= 1) {
{ haveqt = true; }
    }
// -->
</SCRIPT>
<!-- END SCRIPTING -->
</HEAD>

```

It is important to use both the JavaScript and VBScript commands to check for QuickTime. JavaScript will catch non-Windows users (or those not using Internet Explorer) and VBScript will catch Windows users using Internet Explorer. You will notice near the end of the script, JavaScript checks to see if the viewer has Internet Explorer 4.5, this is because Microsoft disabled the ability for plug-ins to talk to JavaScript in this version of Internet Explorer. The code assumes that anyone using Internet Explorer 4.5 has QuickTime installed, which is a safe bet considering 4.5 is a Mac only version.

## <BODY>

Below is the code you will put in the <BODY> of your HTML. You will have to change a few things like the name of your movie (eg. qtsrc="lsdn\_nav.mov" to "your\_movie.mov") and the height and width of the movie.

Also included in the <BODY> is the hijacking prevention code, which is mentioned later. All you will have to change for this is the name of the .pntg file. We will go into greater detail later.

To copy text from Adobe Acrobat Reader, choose the "Text Select Tool" and copy the text from below and paste it into your HTML.

```
<BODY BGCOLOR=#000000>
<DIV ALIGN=center>
<P><B><FONT SIZE=4>Qui</FONT><FONT COLOR=#ffffff SIZE=4>QuickTime
Plugin Detection</FONT></B></P>
<P><!-- BEGIN QT CONTENT -->
<SCRIPT LANGUAGE=Javascript NAME="QUICKTIME OR NOT"><!--
if (haveqt)
{document.write('<embed qtsrc="my_movie.mov" width="320" height="240"
SRC="UNeedQT4.pntg" TYPE="image/x-macpaint" loop="true" cache="true"
controller="false"
pluginspage="http://www.apple.com/quicktime/download/"
autoplay="true">');}
else
{document.write('<TABLE BORDER="0" CELLPADDING="0" CELLSPACING="0"
WIDTH="320" HEIGHT="240" BGCOLOR="#bbbbbb"><TR><TD VALIGN="middle"
ALIGN="center"><FONT FACE="Arial,Helvetica, Geneva,Swiss, SunSans-
Regular" SIZE="4" COLOR="#ee0000"><B>ALERT!</B></FONT><BR><BR><FONT
FACE="Arial,Helvetica, Geneva,Swiss, SunSans-Regular" SIZE="3"
COLOR="#000000"> QuickTime is not properly installed.<BR> Please visit
the <A HREF="http://www.apple.com/quicktime/download/"
TARGET=_parent>QuickTime download</A> page to get the latest installer
application.<BR><BR>For additional info, see the <A
href="http://www.info.apple.com/support/pages.taf?product=quicktime"
TARGET=_parent>QuickTime Support</A>
area.</FONT></TD></TR></TABLE>');}
// -->
</SCRIPT>
</P>
```

```

<NOSCRIPT>
<TABLE BORDER=0 CELLPADDING=0 CELLSPACING=0 WIDTH=320 HEIGHT=240
BGCOLOR=#bbbbbb>
<TR>
<TD VALIGN=middle ALIGN=center><FONT
FACE=Arial,Helvetica, Geneva,Swiss,SunSans-Regular SIZE=4><B>Please
activate JavaScript in your browser to fully enjoy
QuickTime.</B><B><BR>
</B></FONT><FONT FACE=Arial,Helvetica, Geneva,Swiss,SunSans-Regular
SIZE=3><BR>
For additional info, see the <A
HREF="http://www.info.apple.com/support/pages.taf?product=quicktime"
TARGET=_parent>QuickTime Support</A> area.<BR>
Note: We use JavaScript to detect the presence of the QuickTime browser
plug-in.<BR>
<BR>
For additional info, see the<BR>
<A
HREF="http://www.info.apple.com/support/pages.taf?product=quicktime"
TARGET=_parent>QuickTime Support</A> area. </FONT></TD>
</TR>
</TABLE>
</NOSCRIPT>
<!-- END QT CONTENT --></DIV>
</BODY>

```

The best way to test the code is to use a machine that doesn't have QuickTime or to disable the QuickTime plug-in in the browser. You can also try turning off JavaScript in your browser to see what happens.

## Preventing Hijacking

The .mov file extension can be hijacked by other plug-ins, preventing people from viewing QuickTime movies, even when QuickTime is installed. The approach below prevents hijacking of the .mov file extension and people with QuickTime 3 see an image telling them they need to upgrade, rather than a broken plug-in icon.

QuickTime movies use the .mov file extension and have the MIME type of video/quicktime. Unfortunately other plug-ins can and sometimes do register themselves as being able to handle the video/quicktime MIME type (whether they really can or not). This can result in a broken plug-in icon being displayed instead of your movie. Fortunately we can prevent this by using a QTSRC parameter and a MacPaint image. The only plug-in that recognize these is QuickTime. Instead of seeing a broken icon, the viewer will be shown an image (if they have QuickTime) or will be directed to download QuickTime.

The HTML looks like this:

```
<EMBED QTSRC="my_movie.mov" HEIGHT="320" WIDTH="240"  
SRC="UNeedQT4.png" TYPE="image/x-macpaint"  
PLUGINSOURCE="http://www.apple.com/quicktime/download/">
```

### TIP

Your Web server **MUST** be configured to associate the .png file extension with the MIME type "image/x-macpaint" or it won't work.

*Note: If you don't understand this contact your ISP or office administrator.*

This method works on Windows and the viewer does not need MacPaint (and neither do you). You just need an image in MacPaint format. You can convert a black-and-white bitmap image into MacPaint format using PictureViewer. Bear in mind that only people with QuickTime 3 will see the image. People with QuickTime 4 or later will never see it, they will see the movie instead.

***Note:** To make your own image, use your favorite graphics program (WebPainter perhaps?). The image size must be exactly 576 x 720 pixels (W x H). It must be black and white (not grayscale). The part of the image you want people to see must be centered. If your desired image size is 180 x 120 pixels for example, put an image that size in the center of a 576 x 720 field. Save it as a bitmap image. Convert it to MacPaint format using PictureViewer or Preview in Mac OS X.*

## Lower than QuickTime 4 Installed

The graphic below is an example of what a user will see in their browser if they do not have QuickTime properly installed or if they have a version lower than 4.

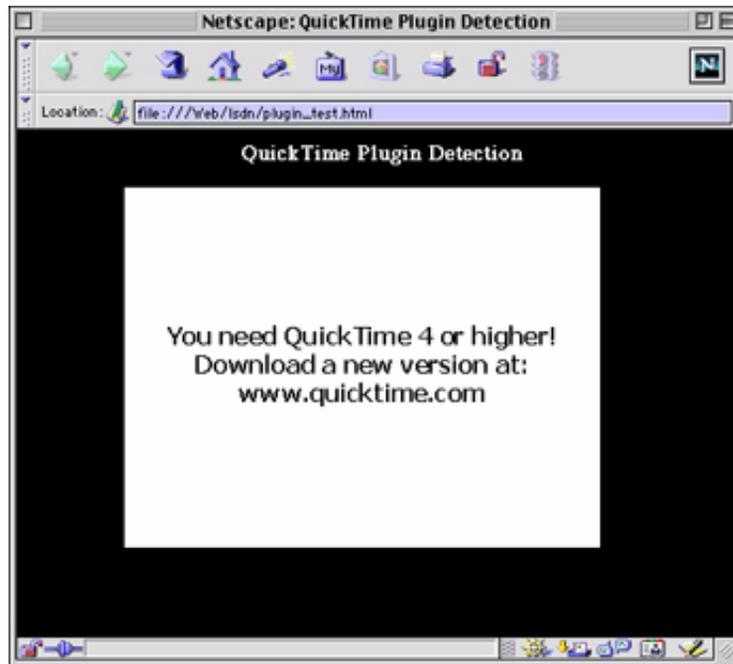
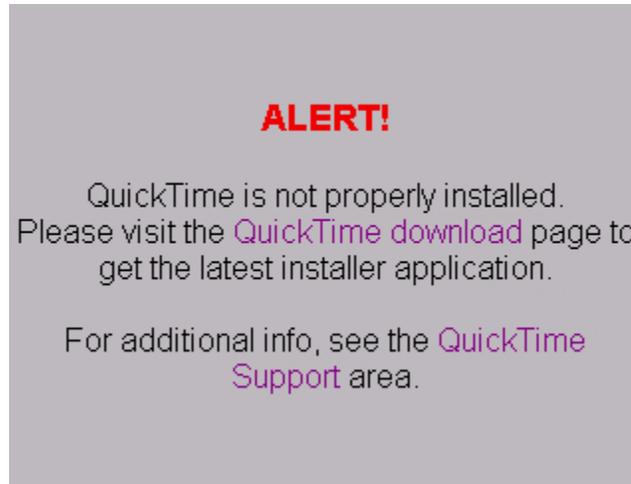


Fig 1-1: Lower than QT 4 installed

## No QuickTime Installed

The graphic below is an example of what a user will see in their browser if they do not have QuickTime installed.



*Fig 1-2: No QuickTime installed notification*

Ok, now you should be all set to use the <EMBED> tag, detect the QuickTime plug-in and prevent hijacking, so go give it a try! If you would like more detailed information on embedding movies and specifically QuickTime, you should try reading *QuickTime for the Web* by Apple Computer Inc., available at most online bookstores.