

Video on the Web

The Evolution of web video formats...



Animated Gif

HTML EMBED, OBJECT TAG

MOV

(Apple's Quick Time Movie)

AVI

(by Microsoft)

WMV

(Window's Media Video)

SWF (Flash)

FLV (Flash Video)

RA (Real Media)

Mpeg-4 (mp4, m4v)

Html5 video

WebM

(Supported by Google)

Ogg

(Supported by Theora)

Mp4

(h264 video encoding)

Video Formats and Codecs

WebM Container

Supported by
Firefox,
Chrome, Opera

Vp8 Video
Encoding

Vorbis Audio
Encoding

Ogg Container

Supported by
Firefox,
Chrome, Opera

Theora Video
Encoding

Vorbis Audio
Encoding

MP4 Container

Supported by
Safari and
IE 9+

H.264 Video
Encoding

AAC Audio
Encoding

Browser Support

Platform	.ogg	.mp4	.webm
Android	X		
Firefox	X		
Chrome	X		X
iPhone		X	
Internet Explorer 9		X	
Opera	X		X
Safari		X	

* HTML5, Oreilly Media p87

* Currently might be different from listed above

Converting the Video (ogg, mp4, webm)

- Miro Video Converter
 - <http://www.mirovideoconverter.com/>
- HTML5 Video Format Converter
 - <http://html5videoformatconverter.com/>

EMBEDDING VIDEO

HTML5 VIDEO

HTML5 Video

Properties

```
<video width="320" height="240" controls="controls">
```

```
<source src="movie.mp4" type="video/mp4" />
```

Source url

```
<source src="movie.ogg" type="video/ogg" />  
<source src="movie.webm" type="video/webm" />  
<object data="movie.mp4" width="320" height="240">  
<embed src="movie.swf" width="320" height="240" >  
</object>
```

Fall back
solutions

```
</video>
```

HTML5 Video

Video Attributes

- **Loop**
- **Controls:** play/pause/etc buttons for your video
- **Autoplay**
- **Autobuffer** : The video is downloaded in the background, so when the user starts the video, it will be able to play at least some of the content. If both autoplay and autobuffer are used, then autobuffer is ignored.
- **Poster:** to display a frame of the video (as a .jpg, .png, whatever)

http://www.w3schools.com/html5/tag_video.asp

Video Methods, Properties, Events

Methods

play()
pause()
load()
canPlayType

Properties

currentSrc
currentTime
videoWidth
videoHeight
duration
ended
error
muted
paused
volume
width
height

Events

Play
Pause
Progress
Error
Timeupdate
Ended
Abort
Waiting
Loadeddata
loadedmetadata

http://www.w3schools.com/html5/html5_video_dom.asp

Before HTML5 : Object

Object (Not supports Opera)

```
<object width="420" height="360"
```

Activex Control by the Browser

```
classid="clsid:02BF25D5-8C17-4B23-BC80-D3488ABDDC6B"  
codebase="http://www.apple.com/qtactivex/qtplugin.cab">
```

```
<param name="src" value="movie.mp4" />  
<param name="controller" value="true" />
```

Codebase / Plugin Download

```
<embed src="http://www.computerhope.com/issues/ibm-linux.mov"  
Pluginspage=http://www.apple.com/quicktime/ width="320" height="250" CONTROLLER="true"  
LOOP="false" AUTOPLAY="false" name="IBM Video"></embed>
```

```
</object>
```



EMBED Tag for Fall
Back on Opera

Before HTML5 : Embed for Fallback

Embed (not support XHTML)

```
<embed src="http://www.computerhope.com/
issues/ibm-linux.mov"
```

```
Pluginspage="http://www.apple.com/quicktime/"
width="320" height="250"
CONTROLLER="true"
LOOP="false"
AUTOPLAY="false"
name="IBM Video">
```

EMBED
Tag Attributes
(Optional)

```
</embed>
```

Object /Embed tag attribute

- autostart** Determines whether to start the video as soon as the page has loaded. (True, False)
- hidden** Determines whether to hide the video. For example, if you just want background noise with no video.(True, False)
- loop** Determines whether to continuously replay the video after it has finished. (True, False)
- playcount** Determines how many times to repeat the video.
(A number value)
- volume** Determines how loud the audio should be.
(Number value between 1 and 100)

VIDEO FROM THE WEB

Iframe : supports iphone, ipad, etc

We built you a new Vimeo. Want to give it a try? [Try it now](#) [I hate change](#)

vimeo

week 02
posted us
by jean chu
3 weeks ago

Embed this video

NEW! This is our new embed code which supports iPad, iPhone, Flash and beyond. Don't like change? Use the [old embed code](#) instead.

Get the embed code

```
<iframe src="http://player.vimeo.com/video/35812321?title=0&byline=0&portrait=0" width="400" height="225" frameborder="0" webkitAllowFullScreen mozallowfullscreen allowFullScreen"></iframe>
```

Preview the embedded video

Private Video

Enter

If you have permission to watch this video, please type in your password.

Did you know you can customize the [embed settings](#) for this video?

Customize embed options

31. week 02 change style with css by posted usemood by jean chu 3 weeks ago


30. week02 students quiz fom by jean chu 3 weeks ago

29. week02 array example with students

32:04

week02 changing style with css depending on the posted user mood.

Iframe : For iphone, ipad, etc



YouTube obama

President Obama Speaks on the 2013 Budget

whitehouse + Subscribe 2,642 videos

0:06 / 22:52

Like + Add to Share 8,850

Share or embed this video

http://youtu.be/U_jBeSWK04 Embed Email

```
<iframe width="560" height="315" src="http://www.youtube.com/embed/U_jBeSWK04" frameborder="0" allowfullscreen></iframe>
```

After making your selection, copy and paste the embed code above. The code changes based

Iframe: for iphone and ipad support

```
<iframe src="http://player.vimeo.com/video/  
35812321?  
title=0&byline=0&portrait=0"  
width="400" height="225" frameborder="0"  
webkitAllowFullScreen mozallowfullscreen  
allowFullScreen>
```

```
</iframe>
```

Embed (old way)

We built you a new Vimeo. Want to give it a try? [Try it now](#) [I hate change](#)

vimeo

week 02 change style with css depending on the posted user mood
by jean chu [View](#)
3 weeks ago

Embed this video

NEW! Try our new embed code which supports iPad, iPhone, Flash and beyond.

Get the embed code

```
<object width="400" height="225"><param name="allowfullscreen" value="true" /><param name="allowscriptaccess" value="always" /><param name="movie" value="http://vimeo.com/moogaloop.swf?clip_id=35812321&server=vimeo.com&show_title=0&show_byline=0&show_portrait=0&color=00adef&fullscreen=1&autoplay=0&loop=0" /></embed>
```

Preview the embedded video

Private Video

[Enter](#)

If you have permission to watch this video, please type in your password.

Did you know you can [customize the embed settings](#) for this video?

[Customize embed options](#)

32:04

week02 changing style with css depending on the posted user mood.

31. week 02 change style with css by posted usemood by jean chu 3 weeks ago

30. week02 students quiz form by jean chu 3 weeks ago

29. week02 array example with students

Embed (old way)

```
<object width="400" height="225">
  <param name="allowfullscreen" value="true" />
  <param name="allowscriptaccess" value="always" />
  <param name="movie" value="http://vimeo.com/moogaloop.swf?
    clip_id=35812321&server=vimeo.com&show_title=0&show_
    w_byline=0&show_portrait=0&color=00adef&fullscreen=1
    &autoplay=0&loop=0" />
    <embed src="http://vimeo.com/moogaloop.swf?
      clip_id=35812321&server=vimeo.com&show_title=0&show_
      w_byline=0&show_portrait=0&color=00adef&fullscreen=1
      &autoplay=0&loop=0" type="application/x-shockwave-flash"
      allowfullscreen="true" allowscriptaccess="always" width="400"
      height="225">
    </embed>
  </object>
```

Embedding into Fancy Box

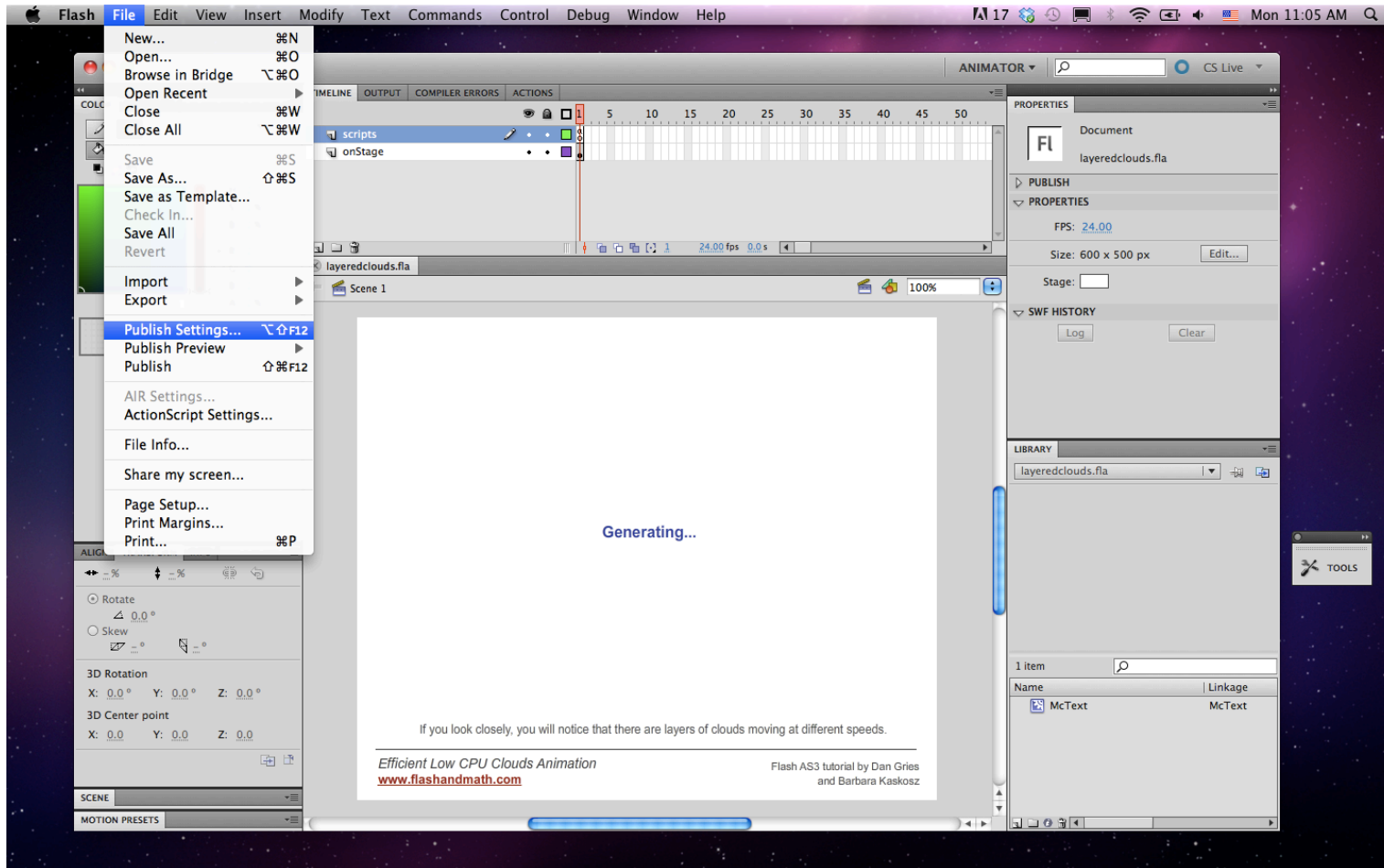
```
$(document).ready(function(){  
  
$("#myvideo").fancybox({  
  'width': 800, //or whatever  
  'height': 450, //or whatever  
  'type': 'iframe'  
});  
  
});
```

```
<a class="myvideo"  
href="http://  
player.vimeo.com/video/  
33666404?  
title=0&amp;byline=0&a  
mp;portrait=0"  
title="mytitle">
```

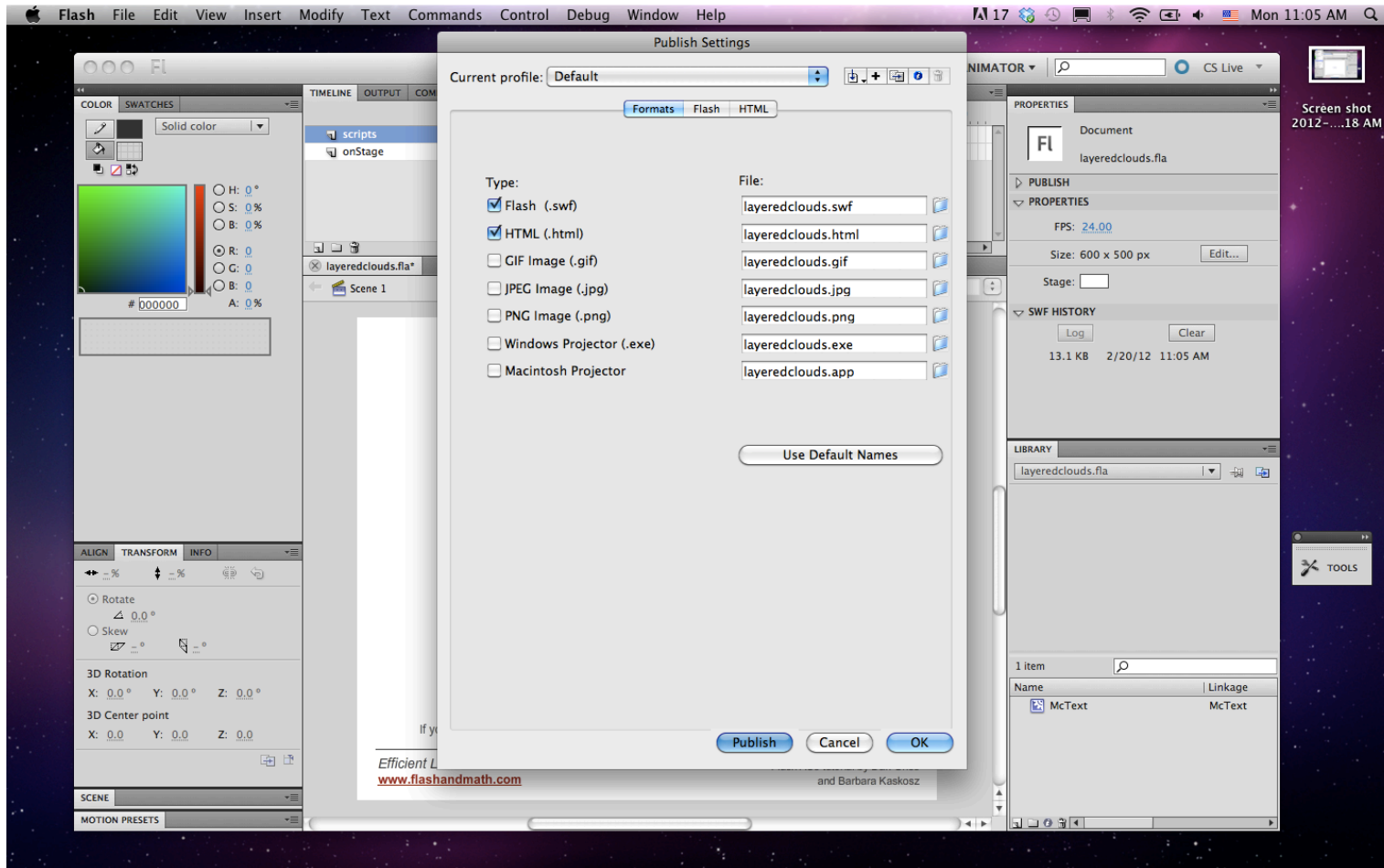
```
  
</a>
```

3. SWF FLASH

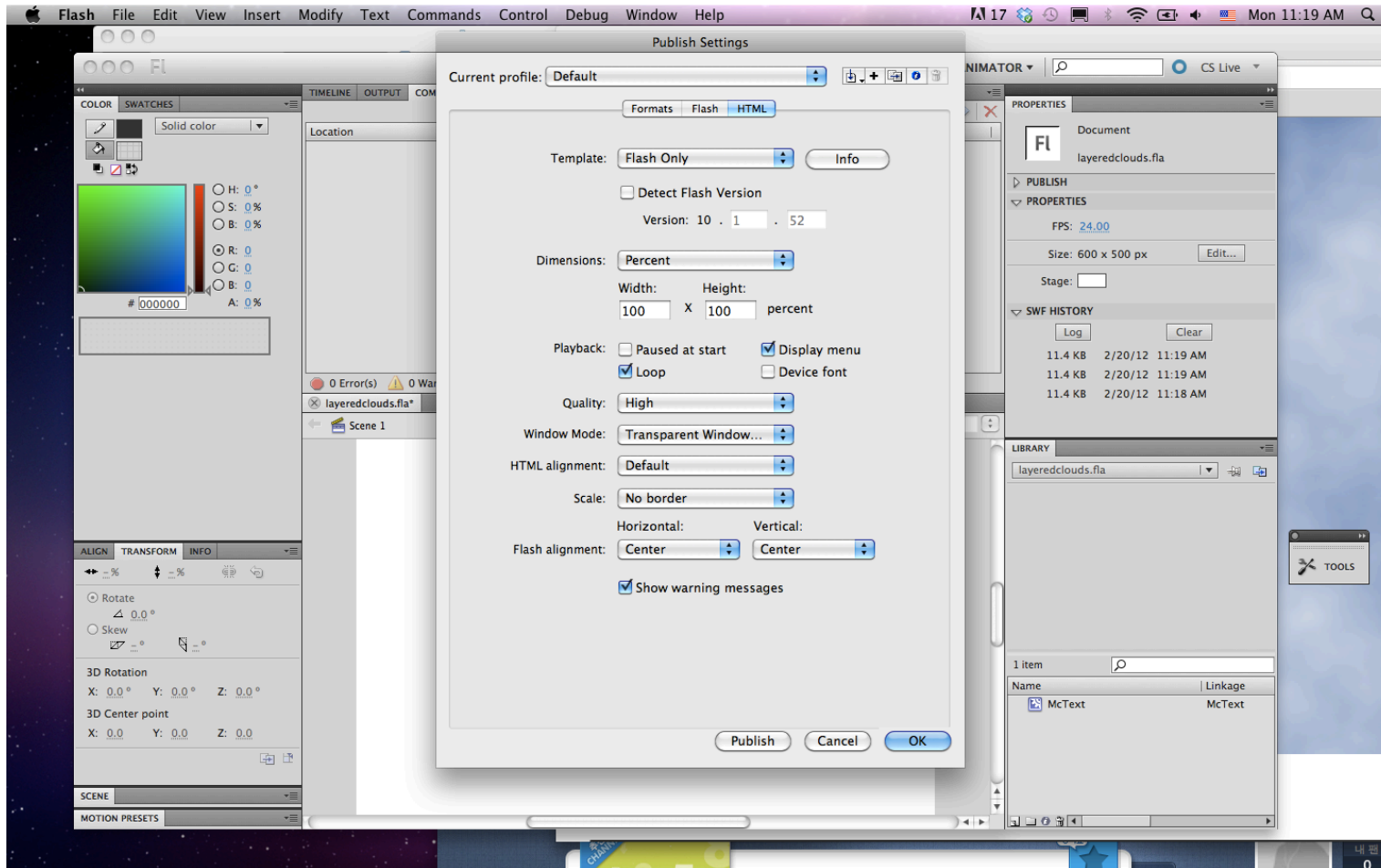
File > Publish Settings



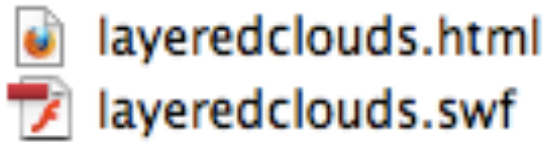
Check Formats and file locations (Formats : SWF, HTML)



Check HTML settings and Publish

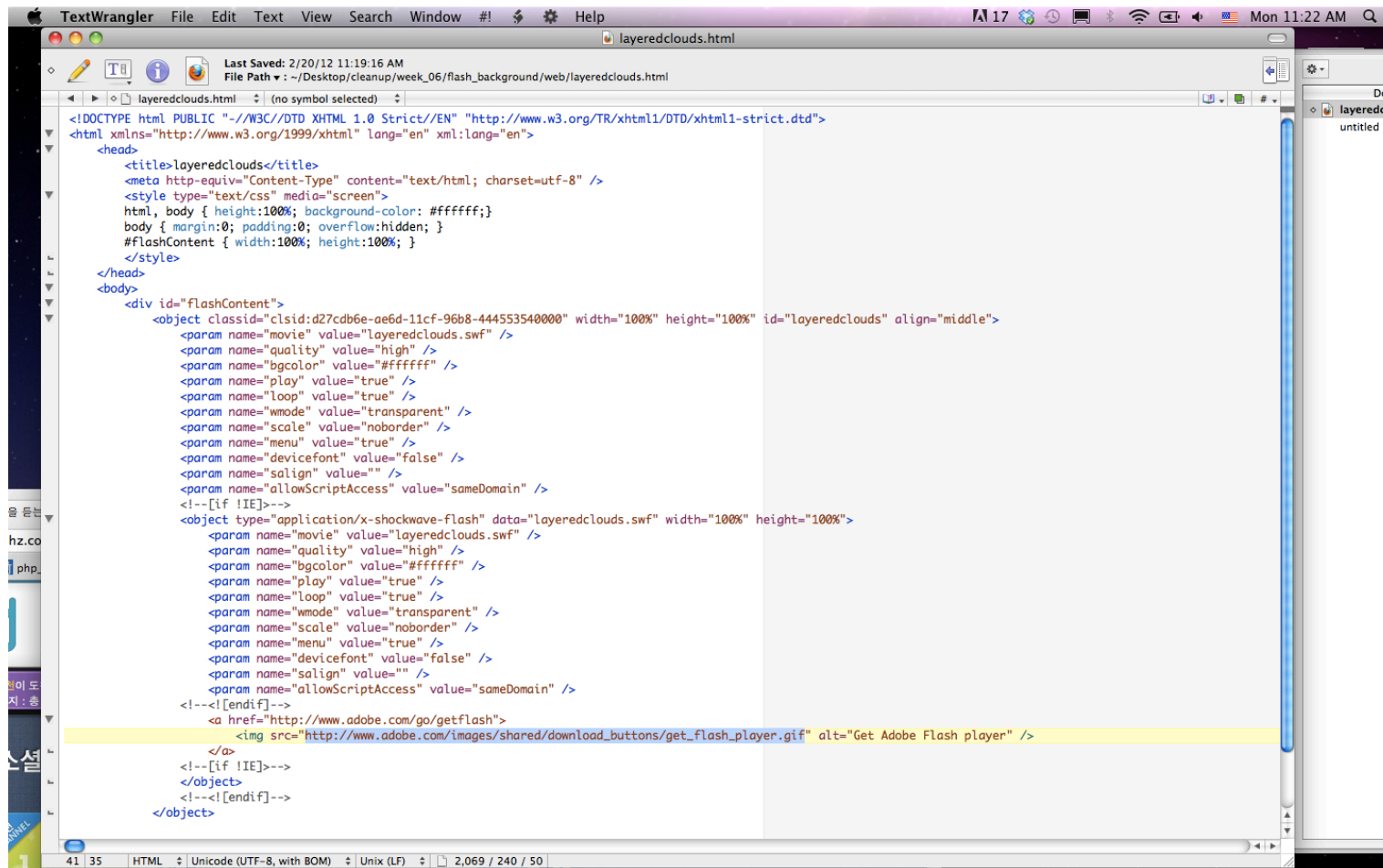


2 files: HTML, swf



HTML file

You can have your custom image to be shown when there is no flash player by changing the image src url below

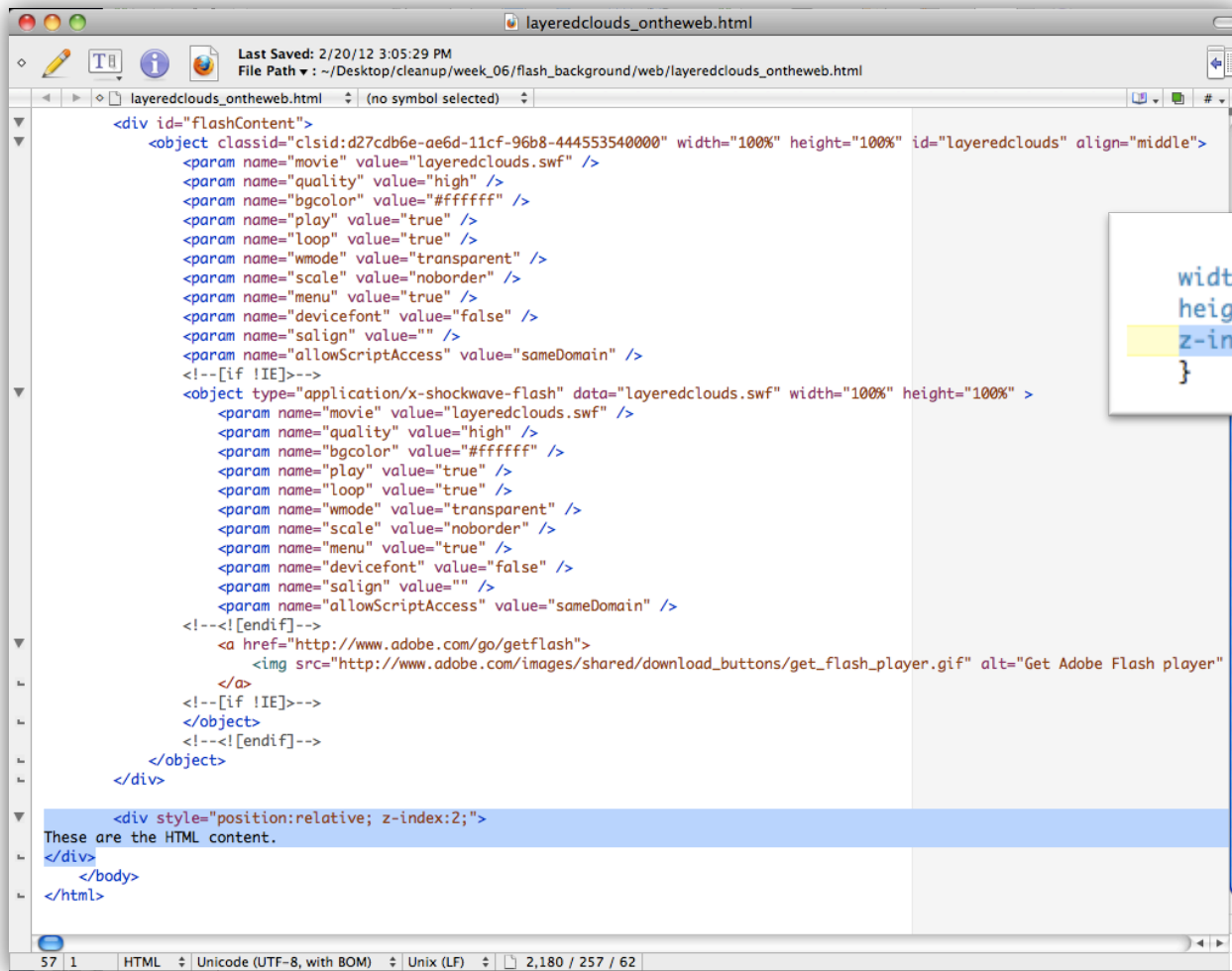


```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
<head>
<title>layeredclouds</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<style type="text/css" media="screen">
html, body { height:100%; background-color: #ffffff; }
body { margin:0; padding:0; overflow:hidden; }
#FlashContent { width:100%; height:100%; }
</style>
</head>
<body>
<div id="FlashContent">
<object classid="clsid:d27c6be-ae6d-11cf-96b8-444553540000" width="100%" height="100%" id="layeredclouds" align="middle">
<param name="movie" value="layeredclouds.swf" />
<param name="quality" value="high" />
<param name="bgcolor" value="#ffffff" />
<param name="play" value="true" />
<param name="loop" value="true" />
<param name="wmode" value="transparent" />
<param name="scale" value="noborder" />
<param name="menu" value="true" />
<param name="devicefont" value="false" />
<param name="salign" value="" />
<param name="allowScriptAccess" value="sameDomain" />
<!--[if !IE]>-->
<object type="application/x-shockwave-flash" data="layeredclouds.swf" width="100%" height="100%">
<param name="movie" value="layeredclouds.swf" />
<param name="quality" value="high" />
<param name="bgcolor" value="#ffffff" />
<param name="play" value="true" />
<param name="loop" value="true" />
<param name="wmode" value="transparent" />
<param name="scale" value="noborder" />
<param name="menu" value="true" />
<param name="devicefont" value="false" />
<param name="salign" value="" />
<param name="allowScriptAccess" value="sameDomain" />
<!--<[endif]>-->
<a href="http://www.adobe.com/go/getflash">

</a>
<!--[if !IE]>-->
</object>
<!--<[endif]>-->
</object>
```

SWF as a background by z-index

The z-index property specifies the stack order of an element. An element with greater stack order is always in front of an element with a lower stack order.



```
<div id="flashContent">
  <object classid="clsid:d27cdb6e-ae6d-11cf-96b8-444553540000" width="100%" height="100%" id="layeredclouds" align="middle">
    <param name="movie" value="layeredclouds.swf" />
    <param name="quality" value="high" />
    <param name="bgcolor" value="#ffffff" />
    <param name="play" value="true" />
    <param name="loop" value="true" />
    <param name="wmode" value="transparent" />
    <param name="scale" value="noborder" />
    <param name="menu" value="true" />
    <param name="devicefont" value="false" />
    <param name="salign" value="" />
    <param name="allowScriptAccess" value="sameDomain" />
    <!--[if !IE]>-->
    <object type="application/x-shockwave-flash" data="layeredclouds.swf" width="100%" height="100%" >
      <param name="movie" value="layeredclouds.swf" />
      <param name="quality" value="high" />
      <param name="bgcolor" value="#ffffff" />
      <param name="play" value="true" />
      <param name="loop" value="true" />
      <param name="wmode" value="transparent" />
      <param name="scale" value="noborder" />
      <param name="menu" value="true" />
      <param name="devicefont" value="false" />
      <param name="salign" value="" />
      <param name="allowScriptAccess" value="sameDomain" />
    <!--<[endif]>-->
    <a href="http://www.adobe.com/go/getflash">
      
    <!--[if !IE]>-->
    </object>
    <!--<[endif]>-->
  </object>
</div>

<div style="position:relative; z-index:2;">
These are the HTML content.
</div>
</body>
</html>
```

```
#flashContent { position:fixed;
width:100%;
height:100%;
z-index:1;
}
```

Finished!

