

The Audiojs module for Drupal 6.

Firstly, this is the most complex module I've built to date, so it's quite possible that there are bugs or better ways of doing things.

If you have any hints or techniques that may help me, please feel free to offer friendly and helpful advice.

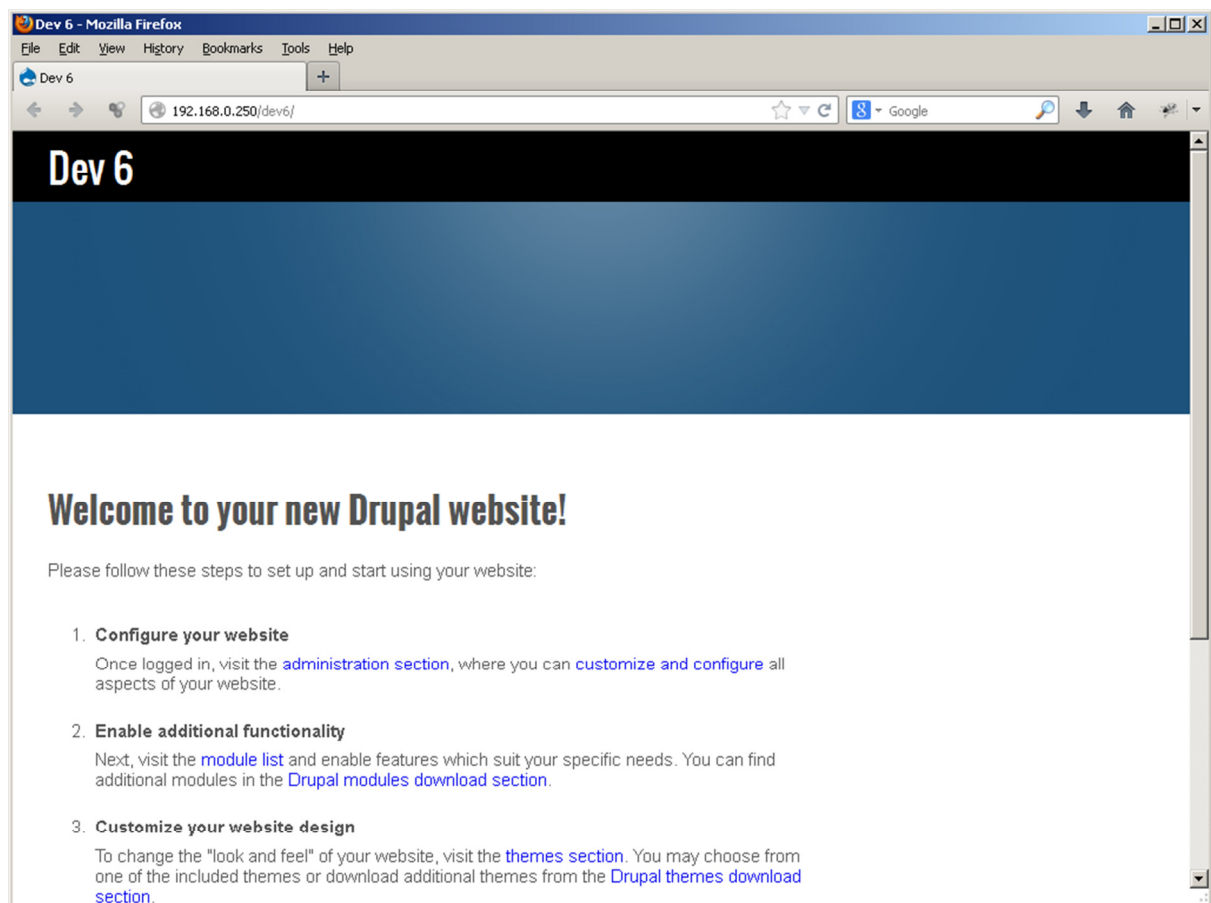
Current Setup:

Standard setup except:

1. I've installed the modules, libraries and theme folders under sites/all
2. I've installed my own theme (one I've created)
3. I've already set permissions on sites/default/files

Apart from the above, everything is a standard Drupal 6 install (no modules currently installed).

Also, there are currently no jQuery libraries installed, apart from the default Drupal 6 jQuery.

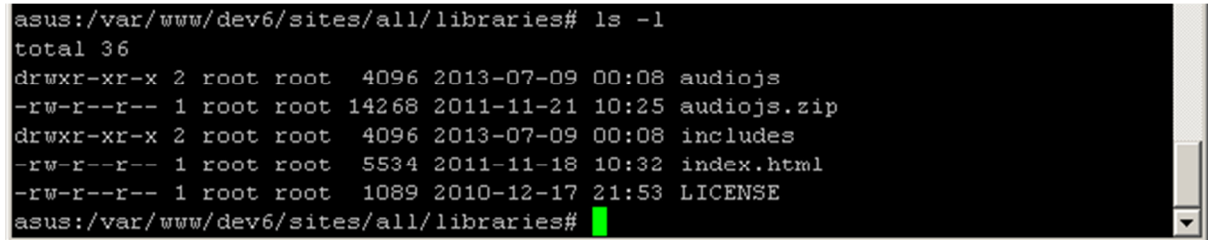


Step 1 – Installing the audio.js javascript library.

Download the audio.js javascript library from <http://kolber.github.io/audiojs/> .

Extract the files into sites/all/libraries/

By default, unzipping audio.js results in the following folder structure:



```
asus:/var/www/dev6/sites/all/libraries# ls -l
total 36
drwxr-xr-x 2 root root  4096 2013-07-09 00:08 audiojs
-rw-r--r-- 1 root root 14268 2011-11-21 10:25 audiojs.zip
drwxr-xr-x 2 root root  4096 2013-07-09 00:08 includes
-rw-r--r-- 1 root root  5534 2011-11-18 10:32 index.html
-rw-r--r-- 1 root root  1089 2010-12-17 21:53 LICENSE
asus:/var/www/dev6/sites/all/libraries#
```

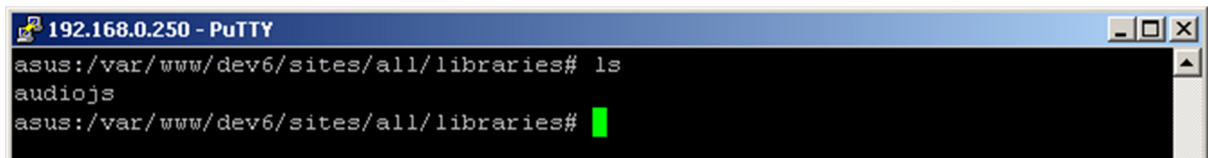
We do **NOT** want this.

Delete audiojs.zip.

Move the includes folder into the audiojs folder.

Move index.html and LICENSE into the audiojs folder.

We should now be left with this folder structure:



```
192.168.0.250 - PuTTY
asus:/var/www/dev6/sites/all/libraries# ls
audiojs
asus:/var/www/dev6/sites/all/libraries#
```

Step 2 – Install the required Drupal modules.

Modules required:

cck - <https://drupal.org/project/cck>

filefield - <https://drupal.org/project/FileField>

views - <https://drupal.org/project/views>

Non-required Modules:

admin_menu - https://drupal.org/project/admin_menu

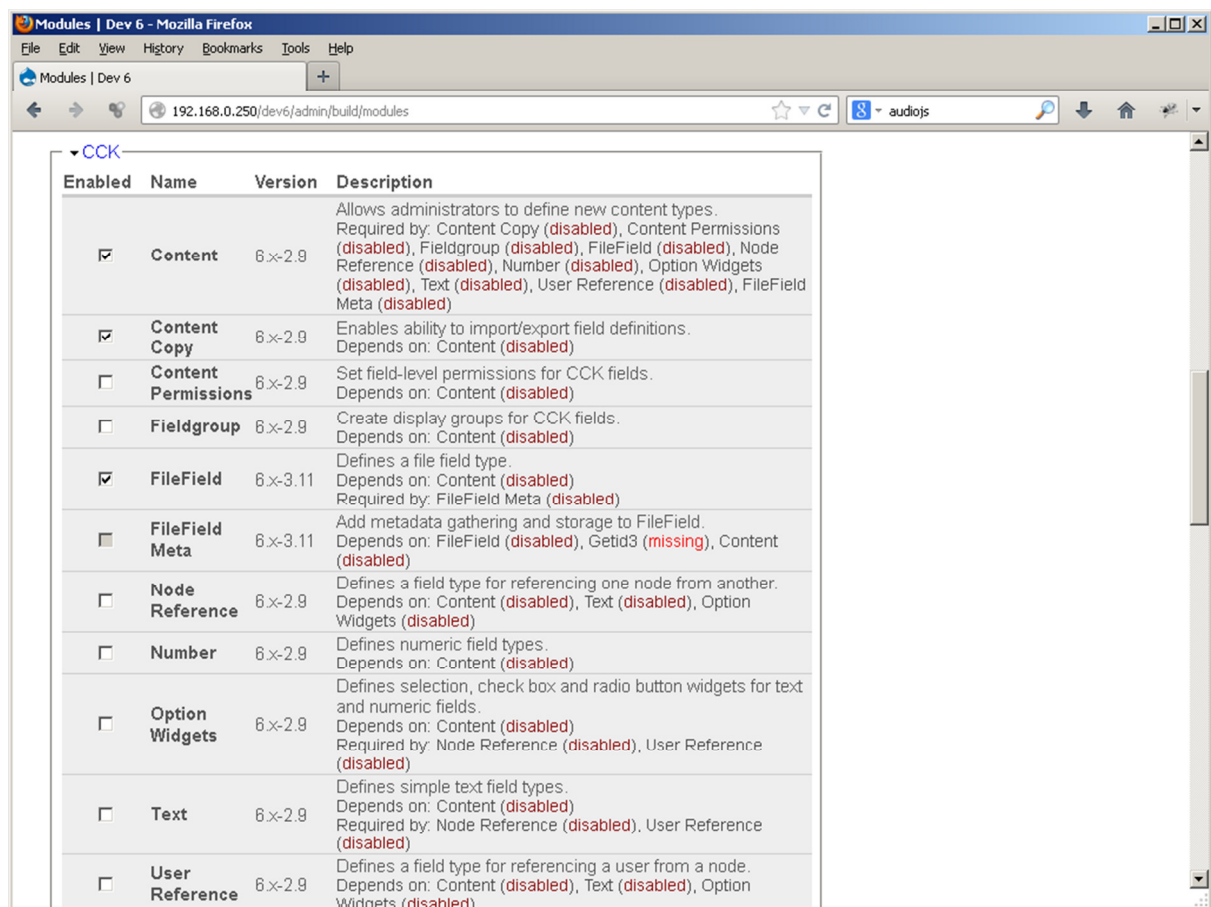
Enable the required modules:

CCK:

Content

Content Copy

FileField



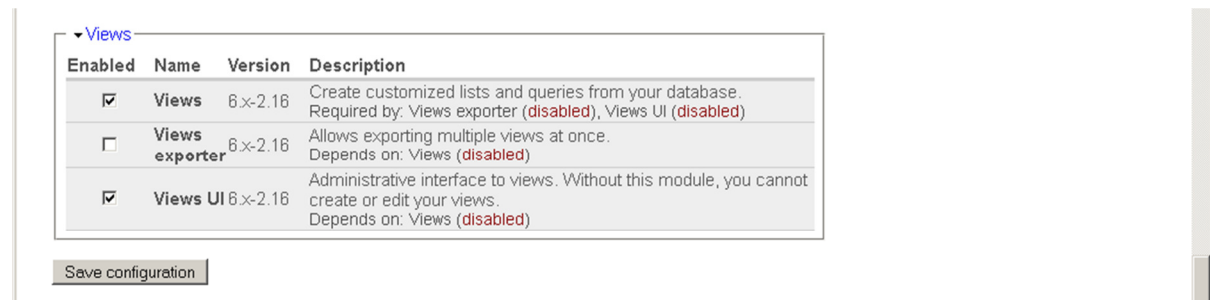
The screenshot shows the 'Modules' administration page in a Mozilla Firefox browser. The page title is 'Modules | Dev 6 - Mozilla Firefox'. The address bar shows '192.168.0.250/dev6/admin/build/modules'. The page content is titled 'CCK' and displays a table of modules. The table has columns for 'Enabled', 'Name', 'Version', and 'Description'. The 'Enabled' column contains checkboxes. The 'Name' column lists the module names. The 'Version' column shows the version numbers. The 'Description' column provides details about each module, including dependencies and required modules.

Enabled	Name	Version	Description
☒	Content	6.x-2.9	Allows administrators to define new content types. Required by: Content Copy (disabled), Content Permissions (disabled), Fieldgroup (disabled), FileField (disabled), Node Reference (disabled), Number (disabled), Option Widgets (disabled), Text (disabled), User Reference (disabled), FileField Meta (disabled)
☒	Content Copy	6.x-2.9	Enables ability to import/export field definitions. Depends on: Content (disabled)
☐	Content Permissions	6.x-2.9	Set field-level permissions for CCK fields. Depends on: Content (disabled)
☐	Fieldgroup	6.x-2.9	Create display groups for CCK fields. Depends on: Content (disabled)
☒	FileField	6.x-3.11	Defines a file field type. Depends on: Content (disabled) Required by: FileField Meta (disabled)
☐	FileField Meta	6.x-3.11	Add metadata gathering and storage to FileField. Depends on: FileField (disabled), Getid3 (missing), Content (disabled)
☐	Node Reference	6.x-2.9	Defines a field type for referencing one node from another. Depends on: Content (disabled), Text (disabled), Option Widgets (disabled)
☐	Number	6.x-2.9	Defines numeric field types. Depends on: Content (disabled)
☐	Option Widgets	6.x-2.9	Defines selection, check box and radio button widgets for text and numeric fields. Depends on: Content (disabled) Required by: Node Reference (disabled), User Reference (disabled)
☐	Text	6.x-2.9	Defines simple text field types. Depends on: Content (disabled) Required by: Node Reference (disabled), User Reference (disabled)
☐	User Reference	6.x-2.9	Defines a field type for referencing a user from a node. Depends on: Content (disabled), Text (disabled), Option Widgets (disabled)

Views:

Views

Views UI



Click Save configuration.

NOTE: Not required for the Audiojs install

I'm going to disable Color and Comment, as well as enable the Admin Menu.

Next I'm going to create a folder called custom under sites/all/modules and upload my two audio.js related modules.

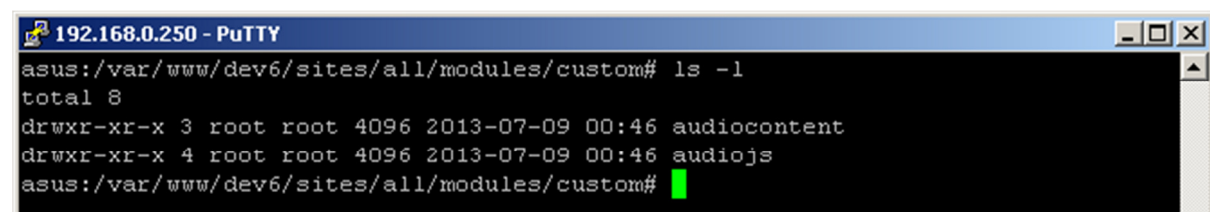
I'm uploading them into the custom folder to keep them separate to the Drupal contributed modules.

Next I'm going to upload and extract my two modules that are required for audio.js.

These two modules are:

audiocontent: This is the module that handles the automatic creation of an Audio Content-Type, as well as a CCK FileField that handles the upload of the MP3. I have kept this as a separate module as it's possible to use one or the other separately.

audiojs: This is the module that provides the actual audio.js functionality, as well as the Views handling (creation of the View, as well as the theming of the View). It creates all this automatically.



Next I'm going to enable these two modules.

▼ Other			
Enabled	Name	Version	Description
☒	audiocontent		Audio Content Type Creation Depends on: Content (enabled), Content Copy (enabled), FileField (enabled)
☒	audiojs		audiojs HTML5 audio player Depends on: Views (enabled)

Once you've enabled the two modules, you should see the following message:

The content type Audio has been added.

The field MP3 File(field_mp3file) was added to the content type Audio.

The configuration options have been saved.

- The content type *Audio* has been added.
- The field *MP3 File (field_mp3file)* was added to the content type *Audio*.
- The configuration options have been saved.

admin_user

- My account
- Content

Now what we need to do is to disable the audiocontent module.

This is because we have already created the Audio Content-Type along with the MP3 FileField – in short, it's done its job.

I would also recommend disabling CCK Content Copy as well (unless it's needed for something else).

You will need to do that after disabling the audiocontent module.

Leaving the audiocontent module enabled may result in the following message – effectively, it's telling us that it's trying to create something that already exists.

- The content type *audio* already exists in this database.
- Exiting. No import performed.

admin_user

- My account

The configuration options have been saved.

You should now have the audiocontent module disabled.

▼ Other			
Enabled	Name	Version	Description
☐	audiocontent		Audio Content Type Creation Depends on: Content (enabled), Content Copy (disabled), FileField (enabled)
☒	audiojs		audiojs HTML5 audio player Depends on: Views (enabled)

At this stage I'd recommend you having a look at the Audio Content-Type.

Go to `admin/content/node-type/audio`.

The screenshot shows the 'Audio' content type configuration page in a Mozilla Firefox browser. The address bar shows the URL `192.168.0.250/dev6/admin/content/node-type/audio`. The page has tabs for 'Edit', 'Manage fields', and 'Display fields'. The 'Edit' tab is active, showing the 'Identification' section with fields for 'Name' (set to 'Audio'), 'Type' (set to 'audio'), and 'Description' (set to 'Audio Content Type'). Below these fields are links for 'Submission form settings' and 'Workflow settings', and buttons for 'Save content type' and 'Delete content type'. On the right side, there is a sidebar for the 'admin_user' with a list of links including 'My account', 'Create content', 'Administer', 'Content management', 'Site building', 'Site configuration', 'User management', 'Reports', 'Help', and 'Log out'.

Manage fields:

The screenshot shows the 'Audio' content type configuration page in a Mozilla Firefox browser, with the 'Manage fields' tab active. The page displays a table of fields for the 'Audio' content type. The table has columns for 'Label', 'Name', 'Type', and 'Operations'. The fields listed are 'Title', 'MP3 File', 'Menu settings', 'Authoring information', 'Revision information', and 'Publishing options'. Below the table, there is a section for adding a new field, with fields for 'Label', 'Name', 'Type', and 'Form element to edit the data'. The 'Save' button is at the bottom left. On the right side, there is a sidebar for the 'admin_user' with a list of links including 'My account', 'Create content', 'Administer', 'Content management', 'Site building', 'Site configuration', 'User management', 'Reports', 'Help', and 'Log out'.

Label	Name	Type	Operations
+ Title	Node module form.		
+ MP3 File	field_mp3file	File	Configure Remove
+ Menu settings	Menu module form.		
+ Authoring information	Node module form.		
+ Revision information	Node module form.		
+ Publishing options	Node module form.		

Add

+ New field

Label: Name: Type: Form element to edit the data:

Save

MP3 FileField:

NOTE: Some of these settings can be tweaked prior to adding Content.

MP3 File

- My account
- Create content
- Administer
 - Content management
 - Content
 - Content types
 - Post settings
 - RSS publishing
 - Taxonomy
 - Site building
 - Site configuration
 - User management
 - Reports
 - Help
- Log out

Audio basic information

Label:

Widget type:

File Upload

[Change basic information](#)

Audio settings

These settings apply only to the *MP3 File* field as it appears in the *Audio* content type.

Help text:

Instructions to present to the user below this field on the editing form.
Allowed HTML tags: `<a>` `<b>` `<big>` `<code>` `<del>` `<em>` `<i>` `<ins>` `<pre>` `<q>` `<small>` `<span>` `<strong>` `<sub>` `<sup>` `<tt>` `<ol>` `<ul>` `<li>` `<p>` `<br>` `<img>`

Permitted upload file extensions:

Extensions a user can upload to this field. Separate extensions with a space and do not include the leading dot. Leaving this blank will allow users to upload a file with any extension.

Progress indicator:

☒ Bar with progress meter

☐ Throbber

Path settings

File path:

Optional subdirectory within the "files" directory where files will be stored. Do not include preceding or trailing slashes.

[File size restrictions](#)

Global settings

These settings apply to the *MP3 File* field in every content type in which it appears.

☐ Required

Number of values:

1

Maximum number of values users can enter for this field.
'Unlimited' will provide an 'Add more' button so the users can add as many values as they like.
Warning! Changing this setting after data has been created could result in the loss of data!

List field:

☒ Disabled

☐ Enabled

Display a checkbox where users may choose if a file should be shown when viewing the content. Most formatters other than *Generic file* do not support this option.

Description field:

☒ Disabled

☐ Enabled

Display a text field where users may enter a description about the uploaded file. The description text is used

Display fields:

EditManage fieldsDisplay fields

BasicRSS

Audio

Configure how this content type's fields and field labels should be displayed when it's viewed in teaser and full-page mode. Use the 'Exclude' checkbox to exclude an item from the \$content value passed to the node template.

Field	Label	Teaser	Exclude	Full node	Exclude
MP3 File	Above	Generic files	☐	Generic files	☐

Save

admin_user

- My account
- Create content
- Administer
 - Content management
 - Content
 - Content types
 - Post settings
 - RSS publishing
 - Taxonomy
 - Site building
 - Site configuration
 - User management

Next I'd recommend having a look at the audiofiles view that has been created.

Go to admin/build/views/edit/audiofiles .

The Default display:

NOTE: I've highlighted the important sections below.

Edit view *audiofiles*

View *audiofiles*, displaying items of type **Node**. [Export](#) [Clone](#) [View "Page"](#)

Defaults Default settings for this view.

Page

Page

Add display

Analyze

View settings

Description/Tag: [None](#)

Basic settings

Name: [Defaults](#)

Title: [None](#)

Style: [HTML List](#)

Row style: [Fields](#)

Use AJAX: [No](#)

Use pager: [No](#)

Items to display: [10](#)

More link: [No](#)

Distinct: [No](#)

Access: [Unrestricted](#)

Caching: [None](#)

Exposed form in block: [No](#)

Header: [None](#)

Footer: [None](#)

Empty text: [None](#)

CSS class: [None](#)

Theme: [Information](#)

Relationships

None defined

Arguments

None defined

Fields

Content: [MP3 File Path to file](#)

Node: [Title](#)

Sort criteria

None defined

Filters

Node: [Published Yes](#)

Node: [Type = Audio](#)

Click on an item to edit that item's details.

Save Cancel

- my account
- Create content
- Administer
 - Content management
 - Site building
 - Blocks
 - Menus
 - Modules
 - Themes
 - Views
 - Site configuration
 - User management
 - Reports
 - Help
- Log out

The Page display:

NOTE: The audio play can be accessed via <http://webserver-or-domain-name/audio>

Edit view *audiofiles*

View *audiofiles*, displaying items of type **Node**. [Export](#) [Clone](#) [View "Page"](#)

Defaults Default settings for this view.

Page

Display the view as a page, with a URL and menu links. [Clone display](#) [Remove display](#)

Page

Page

Add display

Analyze

Basic settings

Name: [Page](#)

Title: [None](#)

Style: [HTML List](#)

Row style: [Fields](#)

Use AJAX: [No](#)

Use pager: [No](#)

Items to display: [10](#)

Distinct: [No](#)

Access: [Unrestricted](#)

Caching: [None](#)

Exposed form in block: [No](#)

Header: [None](#)

Footer: [None](#)

Empty text: [None](#)

CSS class: [None](#)

Theme: [Information](#)

Page settings

Path: [audio](#)

Menu: [No menu](#)

Click on an item to edit that item's details.

Save Cancel

- Create content
- Administer
 - Content management
 - Site building
 - Blocks
 - Menus
 - Modules
 - Themes
 - Views
 - Site configuration
 - User management
 - Reports
 - Help
- Log out

Step 3 – Getting an updated jQuery to work.

By default, Drupal 6.3 ships with jQuery 1.2.6, while even the jQuery Update module only supports jQuery 1.3.2.

So, how do you get a more up to date version of jQuery working on Drupal 6?

There are a few different ways that are explained here: <https://drupal.org/node/1058168>

I've tried a few different ways and failed, including using a module called jsalter, which didn't work for me.

The one method that has worked – and always worked – was method 2 in the above article, which is to make some changes to your page.tpl.php file in your theme, as well as modifying jQuery scripts that require a higher version than the one that ships with Drupal or jQuery Update.

The script that I add to my page.tpl.php template is as follows:

```
<script type="text/javascript"
src="//ajax.googleapis.com/ajax/libs/jquery/1.4.4/jquery.min.js"></script>

<script type="text/javascript">
  var $jq = jQuery.noConflict();
</script>
```

This should be inserted into the <head></head> section of your page.tpl.php template.

For example:

```
<!--
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title><?php print $head_title; ?></title>

<meta name="viewport" content="width=1024, maximum-scale=1.0" />

<?php print $head; ?>
<?php print $styles; ?>

<script type="text/javascript" src="//ajax.googleapis.com/ajax/libs/jquery/1.4.4/jquery.min.js"></script>
<script type="text/javascript">
  var $jq = jQuery.noConflict();
</script>

<?php print $scripts; ?>

<script type="text/javascript"><?php /* Needed to avoid Flash of Unstyle Content in IE */ ?> </script>
-->
</head>
```

NOTE: After making any changes to your theme, you should flush your theme registry.

I recommend you read this article if you're not sure how to: <https://drupal.org/node/337176>

Step 4 – Create your Audio Content.

Navigate to `node/add/audio` .

Add a Title (this will be displayed as part of audio.js).

Add an MP3 file.

Click Save.

Repeat as often as desired for new Audio Content.

The screenshot shows a web browser window titled "Create Audio | Dev 6 - Mozilla Firefox". The address bar shows the URL "192.168.0.250/dev6/node/add/audio". The page has a dark blue header and footer. The main content area is white and contains the "Create Audio" form. The form has a "Title:" label with a red asterisk, a text input field containing "Caught In My Shadow", and an "MP3 File:" label. Below the label is a "Browse..." button, the filename "Caught_In_My_Shadow.mp3", and an "Upload" button. Below these are the file size limit "Maximum file size: 360 MB" and the allowed extensions "Allowed extensions: mp3". To the right of the form is a sidebar for the "admin_user" with a list of links: "My account", "Create content" (expanded), "Audio", "Page", "Story", "Administer", and "Log out". Below the form are four expandable sections: "Menu settings", "Revision information", "Authoring information", and "Publishing options". At the bottom of the form are "Save" and "Preview" buttons.

Create Audio

Title: *
Caught In My Shadow

MP3 File:
Browse... Caught_In_My_Shadow.mp3 Upload
Maximum file size: 360 MB
Allowed extensions: mp3

→ Menu settings
→ Revision information
→ Authoring information
→ Publishing options

Save Preview

admin_user

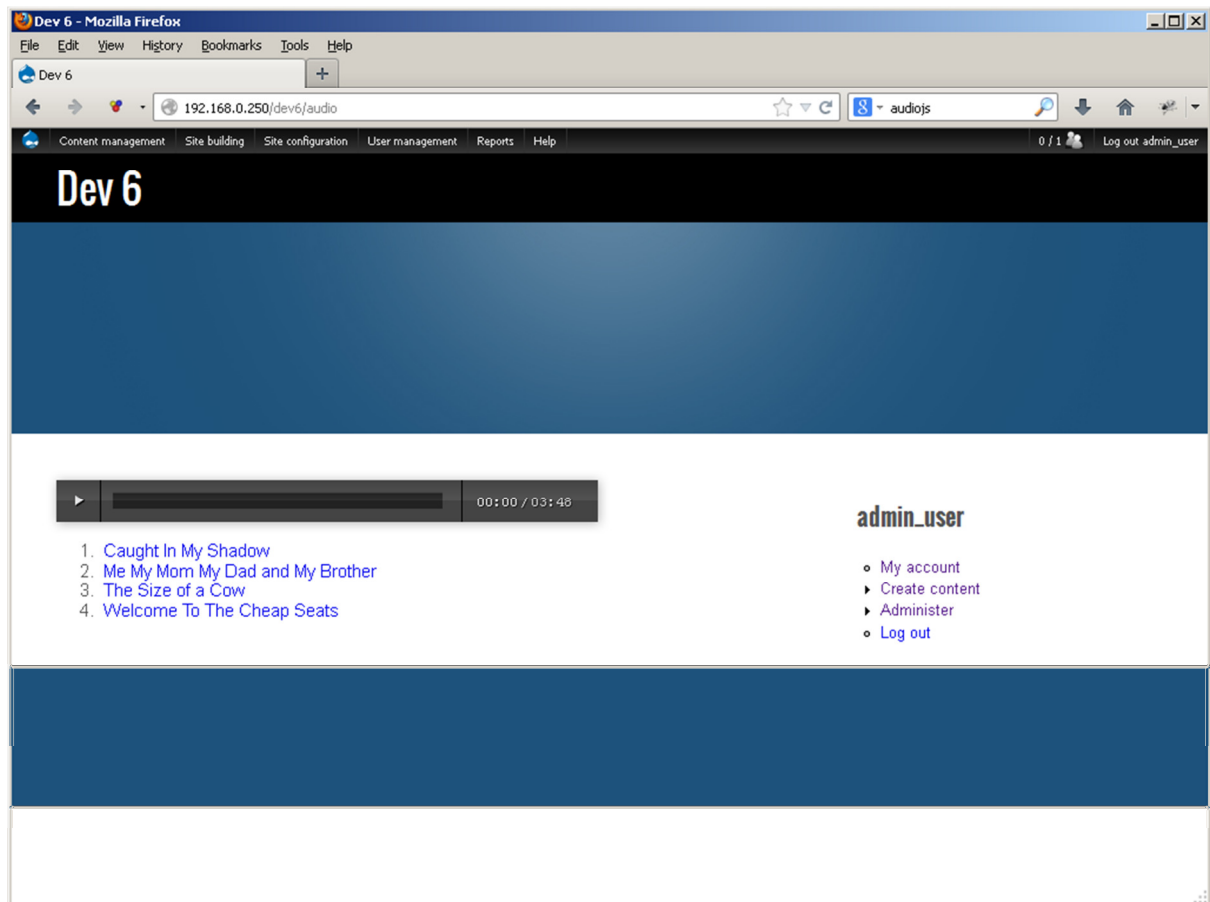
- My account
- ▼ Create content
 - Audio
 - Page
 - Story
- ▶ Administer
- Log out

Step 5 – View your new audio.js HTML5 player.

Navigate to <http://your-site/audio>

NOTE: This can be changed through Views, Page display.

To play an audio file, simply click on the link.



Tweaks:

It should be quite possible to ‘tweak’ audio.js.

For example, it’s possible to theme how the playlist looks. To do this, I’d recommend having a look at the audio.js site, and in particular this page: <http://kolber.github.io/audiojs/demos/test6.html>.

You’ll need to look at the CSS to get an idea, or alternatively, use Firebug or something similar.

Then it’s just a matter of adding the appropriate CSS directly to your Drupal theme’s stylesheets.

Also, by modifying the views-view--audiofiles.tpl.php file that is located in the audiojs module, it should be possible to configure autoplay and/or preload.

I haven’t tried this, but it should be quite possible.

Also worth noting, the keyboard shortcuts for the audio.js player work. 😊