Display 5 Users Guide

Copyright Display 5

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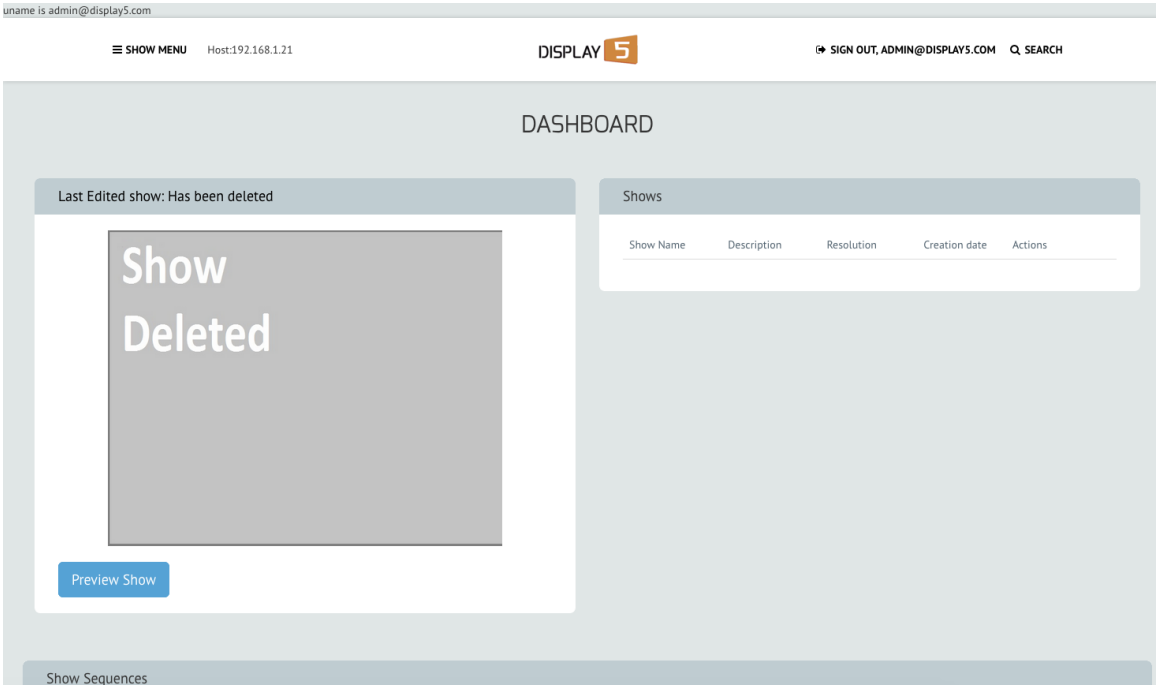
Introduction

Display5 is a web based application designed to be used with a browser for both the Content Management tasks (to build a Show), as well as the playback of content on a media player (to play a Show). Display5 works with many browsers for content management (Firefox, Safari, Chrome, Opera, Internet Explorer, etc.) and also for playback of content you can select from a wide range of browsers depending on the OS that is on the player. This user guide covers the use of the cloud version of Display5 and does not include many of the enterprise features available in the full version, such as Emergency Management, player management and integration with LDAP and other enterprise platforms.

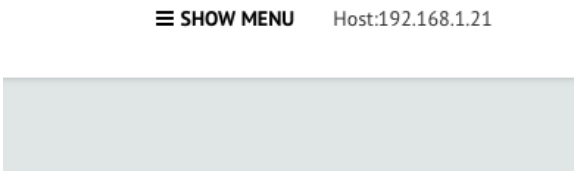
Getting Started

Once you have created an account with Display5 on your on premise solution you will have been logged in to the Display5 Dashboard. Your screen should look something like this :

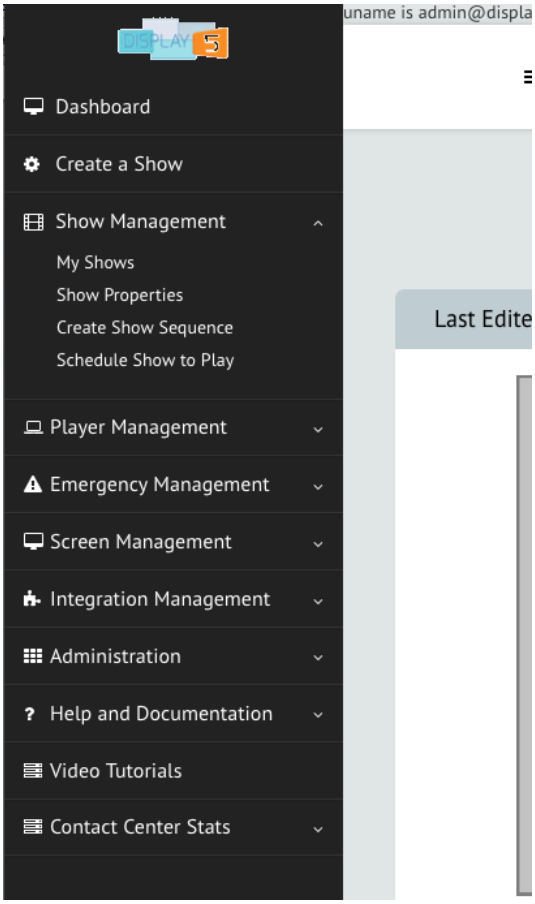


This is your main dashboard where you can see any Shows you have created, edit the Shows by clicking on the edit button, view the content library and see any scheduled items and Show sequences that you may have created. When you first register you will notice that all of the panels are empty. This is because you have not created any Shows yet.

To navigate through the Display5 interface, you can click on the “Menu” button in the top left hand corner.

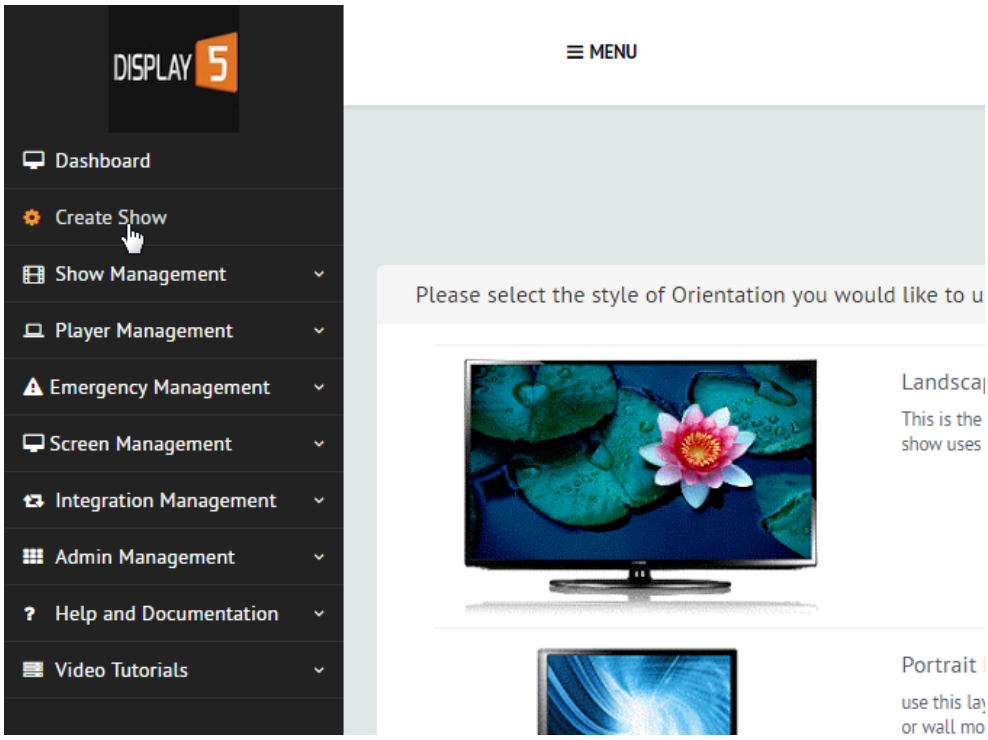


When the navigation menu is open you will see a list of available options and controls for managing your shows, players, screens, and many more features and applications that tie into your Display5 experience.

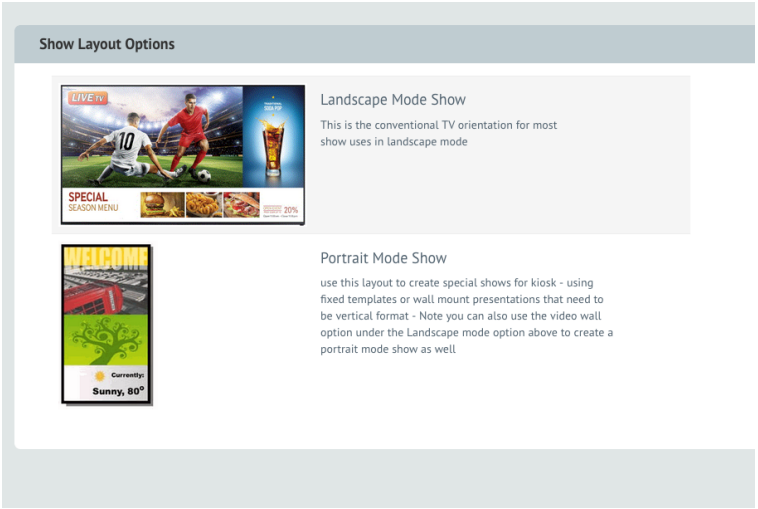


Creating your First Show

From the left hand menu select the **Create Show** button

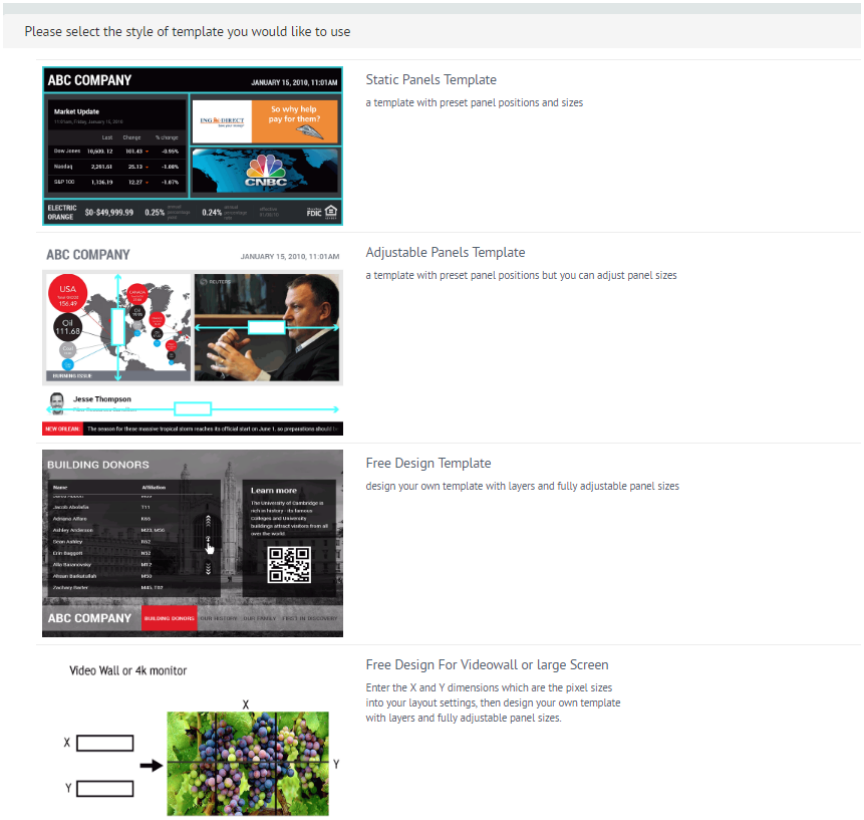


You will now be asked to select the orientation of the show you are trying to create, either **Landscape** or **Portrait**.



Once you have selected the orientation of your show you will have 4 different template types to choose from. Static, Adjustable, Free Design, and Free Design for Video Walls.

We recommend that you create a static template if this is your first time using Display5



Static Panels

This template choice will allow you to select from predesigned layouts or templates that are for industry standard screen resolutions.

Adjustable Panels

This template will allow you to select from predesigned layouts that are for industry standard screen resolutions, with the added ability to adjust the sizes for each panel.

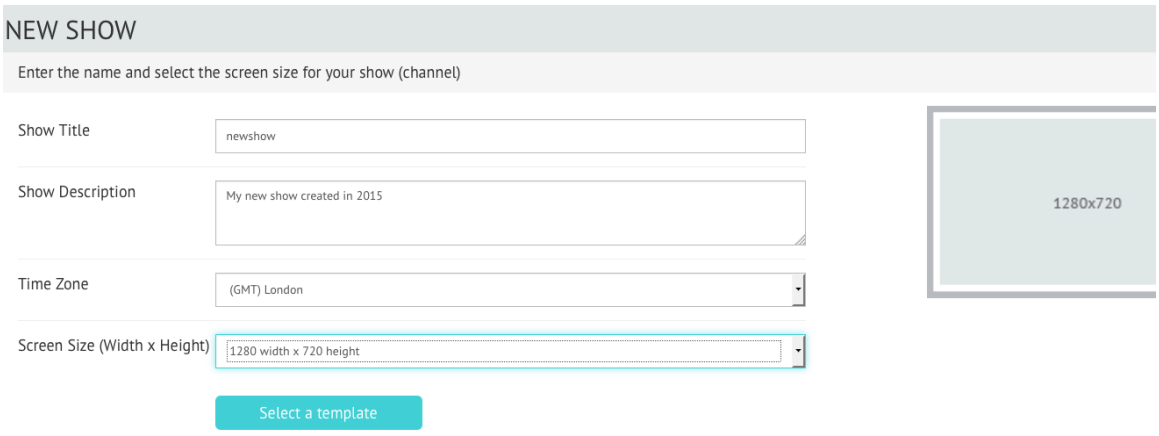
Free Design

This template will allow you to create your own layout for industry standard resolutions. Plus this option allows you to add a rich variety of backgrounds to your show.

Free Design for Video Walls

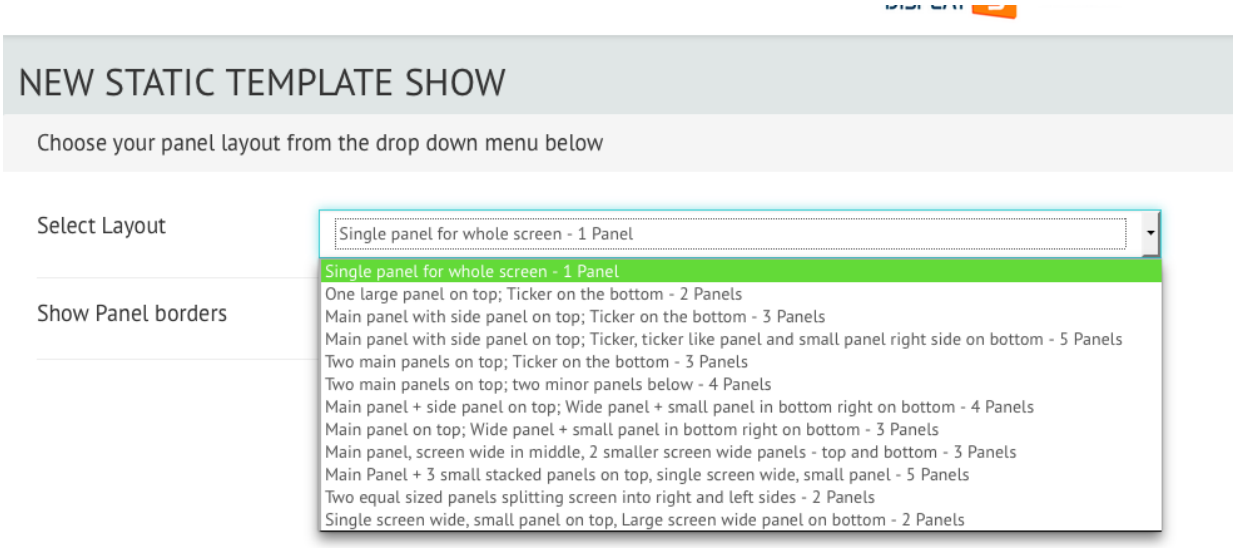
This template option will allow you to create your own layout for industry standard and other non standard resolutions, with the added ability to create custom resolutions for larger screens or video walls. As per the free design you will also be able to add a variety of show backgrounds

Once you have selected your screen template you will be brought to a new screen where you will need to enter information about your show. (in the example below the user has selected standard templates) You will need to give a name to your show. You can give your show a description to describe the content or where the show will be played (i.e. Morning show for front lobby). Next you will need to select the time zone, this is for various widgets to function correctly such as the clock and weather widgets. Lastly you will need to select the resolution of your show. The resolution will depend on the capability of both the player and the TV that will be displaying your show. **The name and resolution fields are mandatory.**



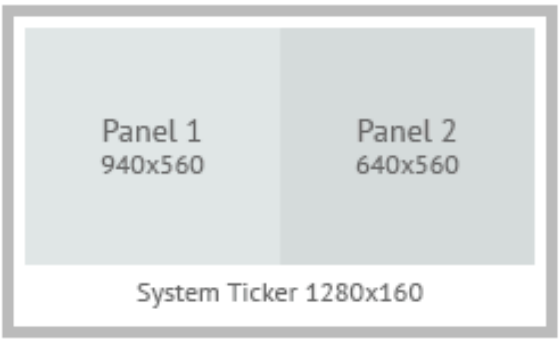
When all the fields are completed, click the “Select a template” button.

This will bring you to a page where you can select from one of the standard static templates that have been pre-defined in the system.



There are a dozen or more standard layouts to choose from. By selecting from the drop down list you will see on the right hand side of this screen a graphical representation of the layout that you have selected, along with the dimensions of the panels that make up this layout.

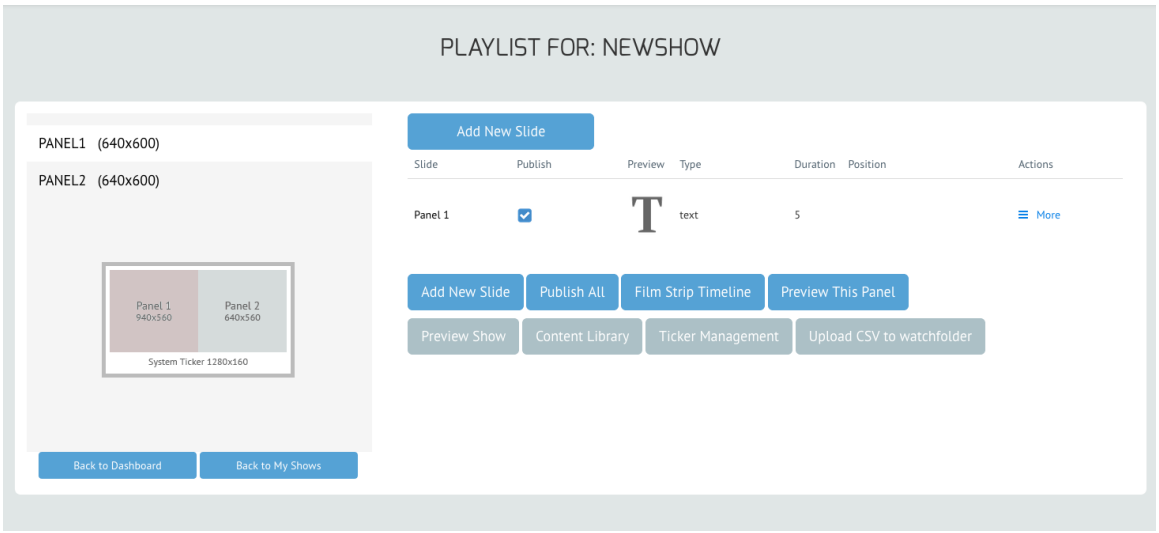
See the example image below, for a 3 panel layout where one panel is a ticker



After selecting a layout you are also given the option to turn on borders, which will put a black 1 pixel line around each of the panels in the layout, this by default is turned off and we would recommend that you leave this off unless the border is desired.

Hit the “Next” button at the bottom once you have selected your layout.

You will then be automatically redirected to a new page that will look similar to this:



This is the main page for building your content Playlist for your Show. This screen highlights the panel which you are currently building a Playlist for. This screen is the same for every Show that you create. This Playlist page is where you will:

1. Add content
2. Select the panels to manage
3. Preview and move content in the ordering, and
4. Access the full scope of details of the content items.
5. Upload CSV files to a watchfolder

Every time you create a new Show, a sample text slide is inserted in every panel as a content placeholder. This is necessary because the browser must have content to play or it will generate an error. When you add your own content slides, you can delete the placeholder text slides.

Congratulations you have now created your first Display5 show! That was pretty easy. Next we are going to look at how we now add our first content to a Show.

Adding Content to Your Playlist

Introduction

Display5 offers an incredibly diverse range of media support and a wide range of widgets that can be added to your shows.

Media formats supported include:

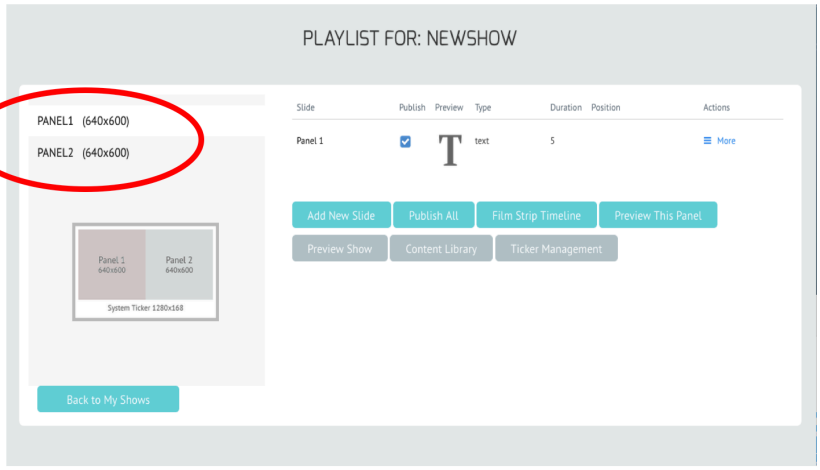
Video Formats
MP4 , MPEG2 , FLASH SWF and FLV, WMV , AVI , OGG, WEBM, ASF, MOV, 3GP, WMA etc
RTSP Streams, Multicast streams, RTP, Flash streaming, HLS, HAS streams, etc
Audio Formats
MPEG3 audio , AAC, OGA, WAV etc
Image Files
GIF, PNG, JPG, TIFF, BMP

Display5 also includes a large number of widgets or components such as weather widgets, clock widgets, chart / KPI (Key Performance Indicators) widgets, Social Media widgets, PDFs, Map widgets, RSS widgets, ticker widgets and more. All of which are browser compatible components that you can insert as a slide in a panel of one of your Shows.

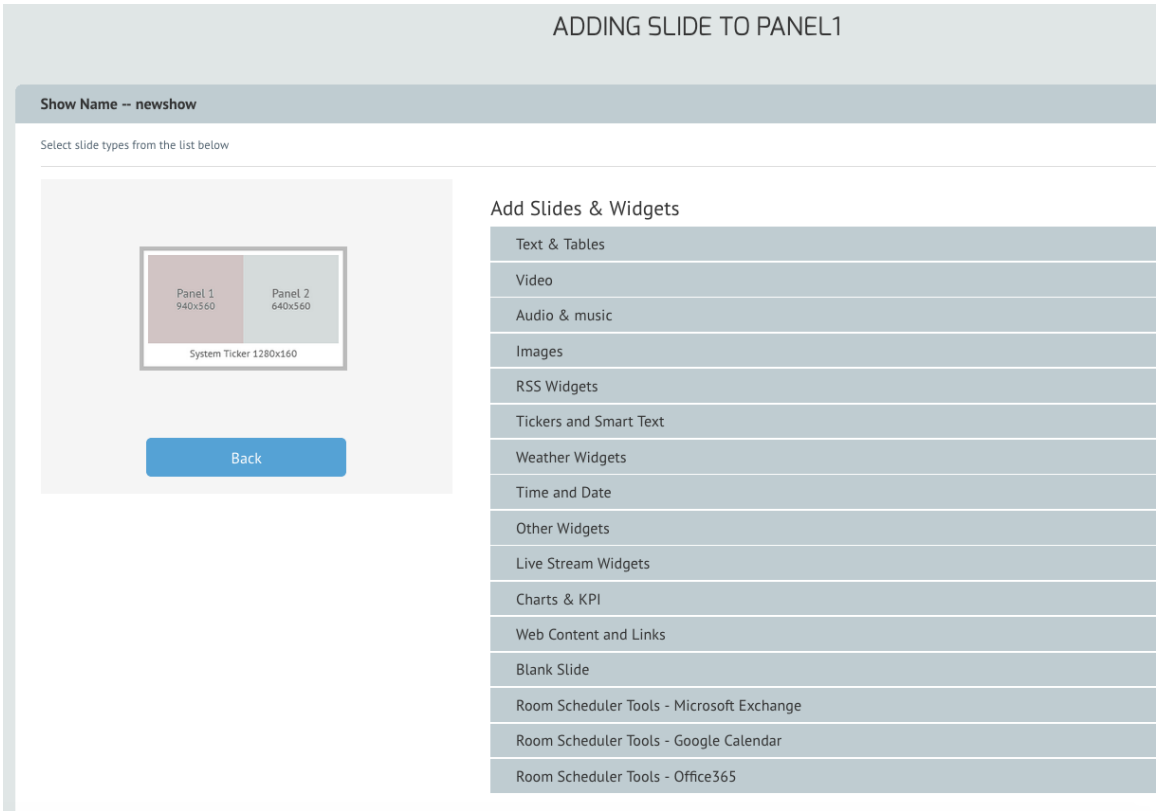
Adding a New Slide

From the Playlist page you will notice that on the left hand side of the screen there is a list of panels, each of these is a hyperlink that brings a separate Playlist of items for each panel to the right hand side of the page. As you select the panel number (i.e. Panel 1, Panel 2, etc.) you will also notice that there are 2 indicators as to what panel you are currently working on:

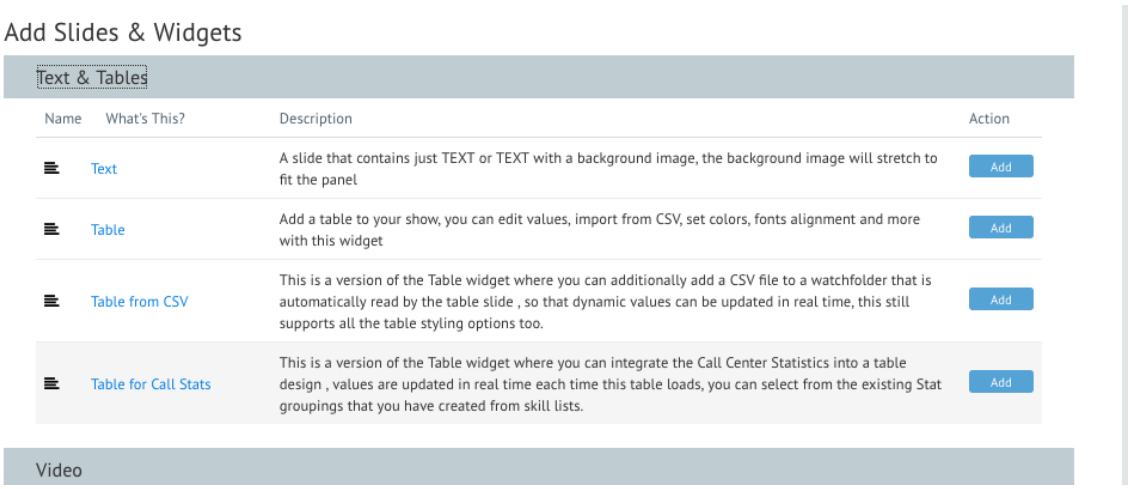
1. The active Panel has a white background which flows to the right into the Playlist area, and:
2. The screen representation image below changes to shade the active panel a dusty red colour.



To add a new piece of content to the active Panel Playlist, click on the **Add New Slide** button beneath the Playlist on the right of the screen. This will open a new screen that will look like this:

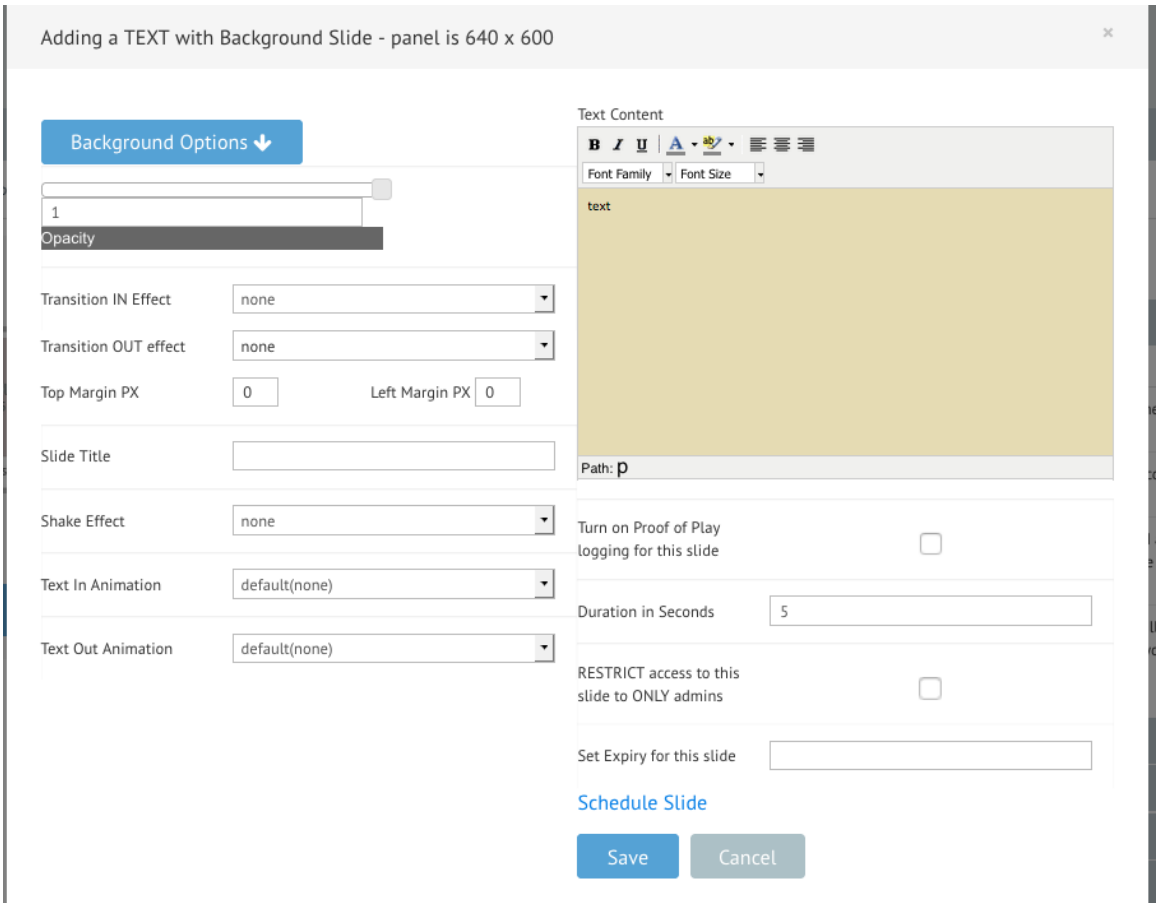


The title of this page is “Adding Slide to Panel1”. On the right you will now see a list of all the various widgets and media types categories that you can add to your show. When you click on any one of these items the list will expand. Here is what it looks like when you click on the “Text and Tables” category:



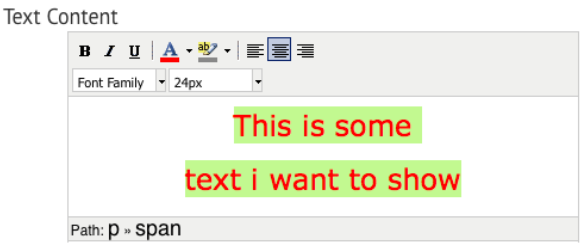
When you click on one of the items within a category, it will generate a new slide in the panel that will play the content that you specify. You will also have the capability to specify scheduling or playback rules of the new content slide.

Begin by opening the text and tables menu, as per the example above, and selecting the 'Text" widget, click on the "Add" button to the right of the description to add this slide. This will open up a pop up window that looks like this:



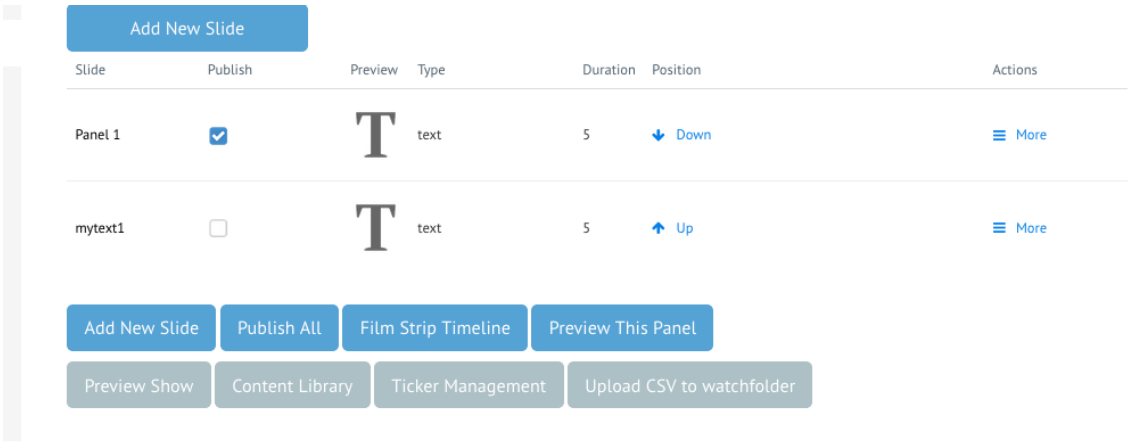
As you can see from this pop up window there are various fields that you need to enter information into, as well as configuration options such as background colour, and other background options such as images, transitions, duration and calendar scheduling etc. that appear in this window. The first thing to do is give your slide a title so that when you are viewing your playlist you know at a glance what the content is. In this example we are going to enter 'Text Introduction" into the slide title field.

Now scrolling down to the "Text Content" window further down in the pop-up window, you are going to add some text that will appear in the slide when it loads. Type in some text into this window, and then **highlight** the text with the mouse and change the characteristics of the text by changing the options in the menu bar at the top of the Text Content window.



This when you are finished with your choices, the text is now formatted and ready to be played in your slide sequence. Scroll down to the bottom of the window and click the "Save" button.

The system should then return to the panels window and you should now see a new slide that you created appear beneath the first text slide.



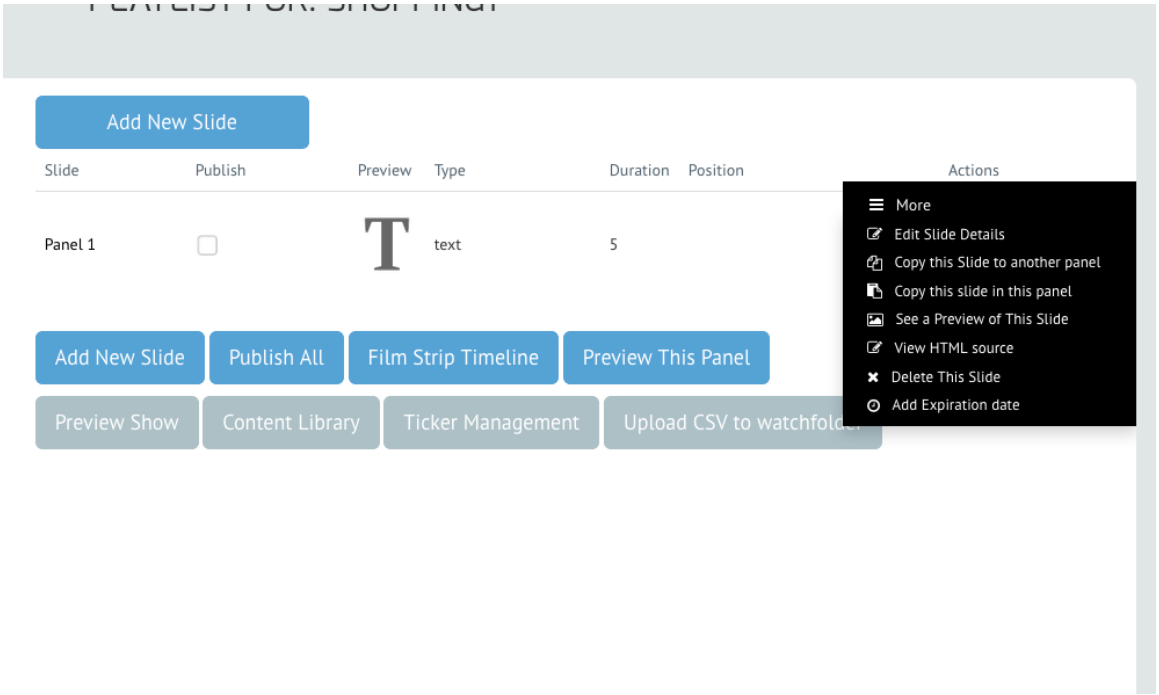
You may notice from the image above that the publish check box is not selected. This means that this content item is not yet actively playing in the Playlist. It will not be played on the media player unless it is published. You can publish the item anytime by simply clicking on the checkmark box and a checkmark will appear.

You might also notice that the duration of the slide is 5 seconds, which is the default. This value can be changed at the time the slide is created or the value can be edited at any time.

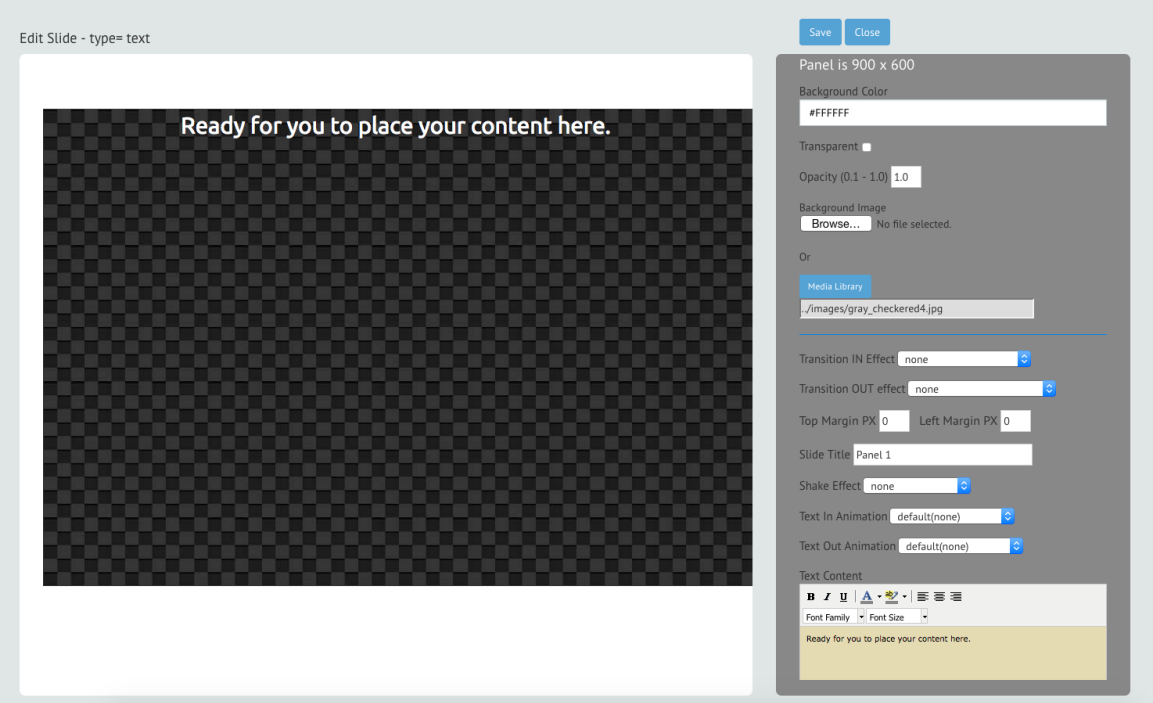
Editing a Slide after Saving

You can make changes to a slide after it has been saved. There are a couple of ways that you can make changes to the slide content or slide settings.

1. The easier way is to use the slide editor window. This window will allow you to see your changes automatically appear as well as giving all the options in one place for you to make changes to the slide. To do this you will need to open the "More" menu on the right hand side of the slide details and select "Edit Slide Details" from the pop up list.



By selecting the "Edit Slide Details" option in the menu you are now opening a new pop up window that contains the slide preview along with the field boxes and option lists needed to make changes to the slide. The edit window will look like this:



To the right of this window you will see the input areas for the slide **background colour, transparency , background image**, the Slide **title** and so on, to the bottom **text content** window that will allow you to format the text that you want to show in the slide.

On the left hand side, you will see a window (size adjusts according to the size of the panel you are currently editing) that contains the actual text that will be showing when this slide is loaded in the Playlist. You can now go ahead and make changes to the slide. Try editing the text. Remember that you must select the text you want to edit, just the same as if you were editing text in a Word document.

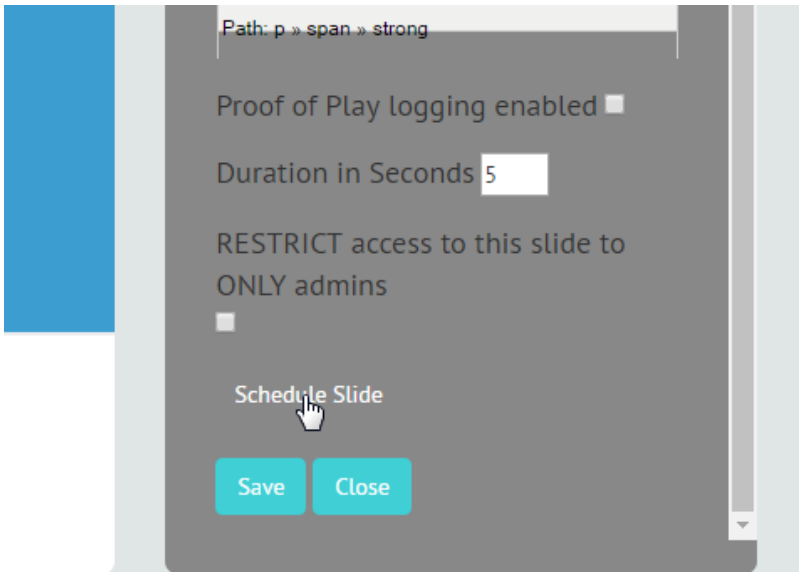
Now, select or change the background colour for the Text panel or remove the checkered background image. You can also change the duration of the slide from the default 5 seconds however long you want, e.g. to 10 or 15 seconds. Once you have made your changes, click the “Save” button at the top of the right hand panel to make those alterations.

Once you click **Save** you will notice the updates that you have made to the slide will appear in the preview window on the left hand side of the edit window.

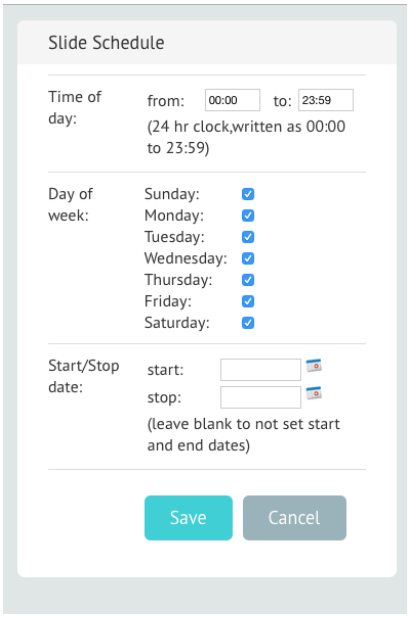
Once you have made all the changes you want click on the **Close** button and you will return to the Playlist.

Scheduling a Slide

To schedule the content of the slide you have created you need the edit slide details window open again(see Editing a Slide after Saving) and scroll down to **Schedule Slide** on the right side of the pop-up.



Click on this link and a new window will open that looks like this:

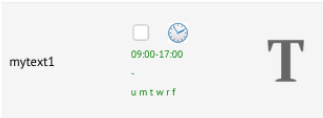


You will notice that the "from" and "to" times are set to midnight. This slide is set to play constantly, 24 hours a day, on all days that are checked in the "Day of the Week:" list via a blue check mark. You can now modify when the slide is played in the following ways:

1. Time of day: You can specify the time range that this slide will play. For example, setting the start time to 06:00 and the end time to 12:00 will mean that this slide will only play in the mornings from 6 AM until 12 PM.
2. Day of week: You can uncheck any of the days in the list and this will cause the slide to not play on those days.

3. Start/Stop date: When left blank this means that the slide will play all year round. If however you specify a start date and an end date, by clicking on the calendar button at the right of the fields, then the slide will only play between those dates and at no other time.

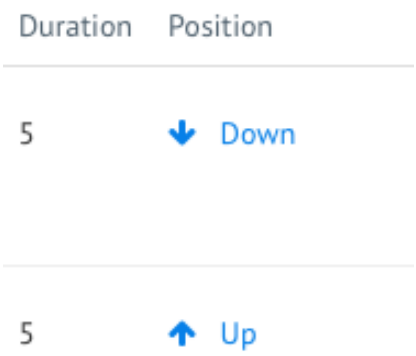
You can combine any of these time and date settings for each slide and set up a specific schedule for the slide. When you have made the desired changes, click on **Save** to close the Schedule slide window. Then to apply the changes to the new schedule you must ALSO hit the **Save** button on the Edit Slide window. Finally, select the **Close** button to close the edit slide window and you will be returned to the Playlist screen. You may need to **refresh** the browser window to see updates to the slide.



In the Playlist screen you will now see the slide that you added has a small clock to the right - plus green text indicating the scheduled properties of the slide (Green indicates that the content has not expired yet) – of the publish radio button. This indicates that this slide now has a schedule attached to it. This is a reminder, so that you can always be aware at a glance that the slide may not play in the Show you are playing. It will only play if you are playing the Show when that Slide is scheduled. If you want to remind yourself of what the schedule for the slide is, then you can click on the mini clock to open a new window that will contain the details of the schedule you have set for the slide. If you want to change the settings, then click on the edit slide button at the bottom of the schedule window.

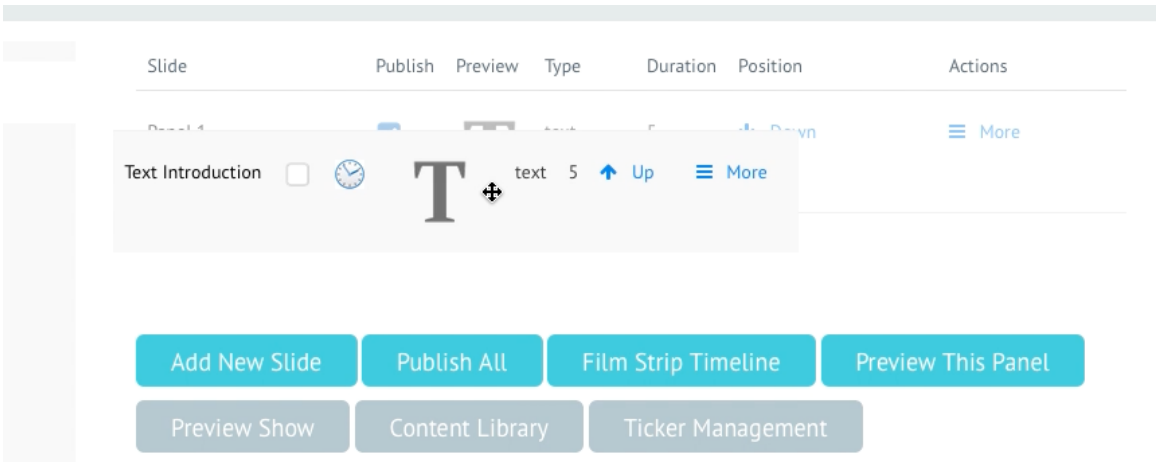
Slide Playback Sequence

For each panel in your Show you will have a slide Playlist that plays in a top to bottom sequence. Once the show has played through all the content it will start playing again from the beginning. You will notice that beside the slide duration is an up or down arrow.



These arrows allow you to move a slide up or down in the order of playlist. This means that the first (or top) slide plays first. You can ALSO change the order of playback by grabbing (clicking on and holding you mouse click) and moving the entire slide line up or down in the playlist. Each line is a draggable item.

In the image below you can see that the second text item in the list is being moved to the top most position.



This technique for moving the slides is especially effective when you have a large number of slides in a playlist.

Each slide will play for the exact number of seconds specified in the duration column, and the Playlist will cycle through, over and over, until the show is stopped.

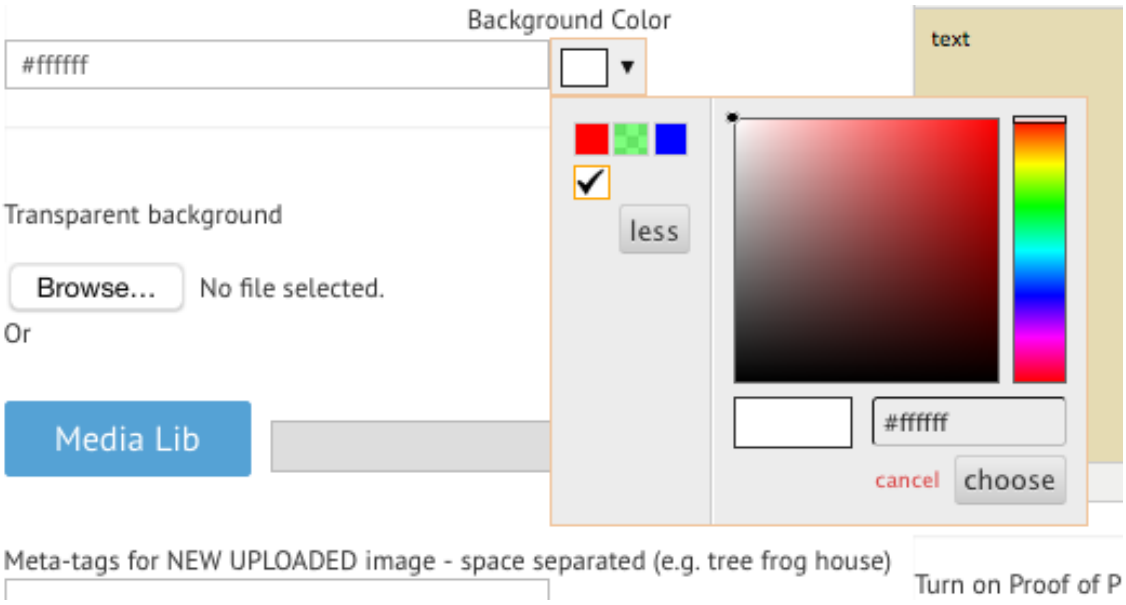
Working with Content

Common Input Fields

Display5 offers you a diverse range of content widgets for your Shows. Many of the widgets and modules have common settings, such as dimensions and background colour. All slides have a duration and all slides have a schedule option. Once you learn these features, you will be comfortable adding these properties to any slide.

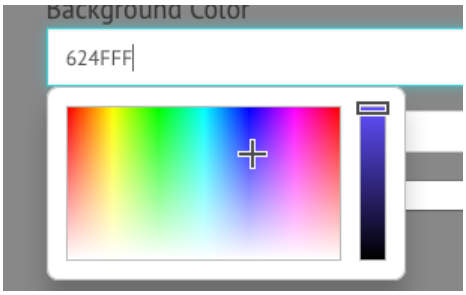
Background Colour

Many of the slides offer a background colour option, this is a field input that you can either type in a color value – e.g. FF0000 for red or 0000FF for blue. Or you can use the color palette to select and specify a color for the background, to open the palette simply click on the input field box for the color setting and the palette will automatically open.



You can now pick the color from the palette for your BG and the relevant hex code will be updated in the input field.

In the example above the color is set to a dark blue (624FFF).

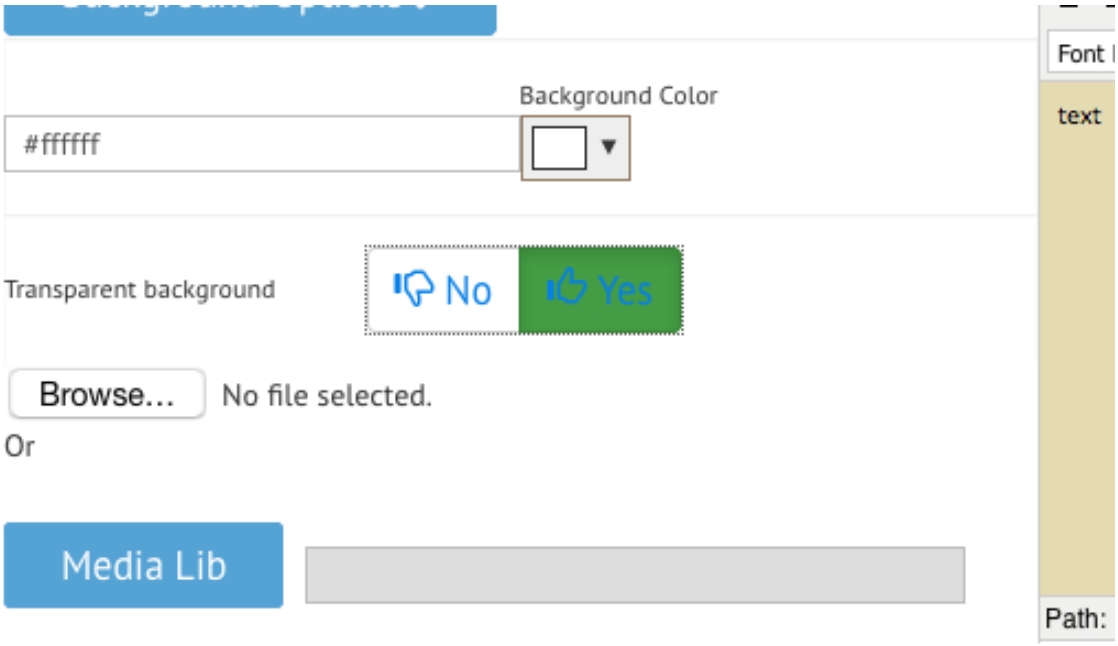


Opacity

You can set the opacity of a slide by using the sliding bar or typing in a number from 0.1 to 1. This will create a transparent look when creating a slide. If you have panels in a free design show that overlap this can be especially effective (This is useful for things such as logos and watermarks).

Transparent Background

You can set the background colour or image to transparent if you are working with transparent GIFs and JPEGS. When creating a slide, select the transparent background radio button.



Slide Title

Always try to add a slide title to any slide you are adding as it will help you to remember what the content of the slide was when you are later managing your show playback. The slide title is a standard input field into which you can type any text or punctuation, up to 260 characters long.

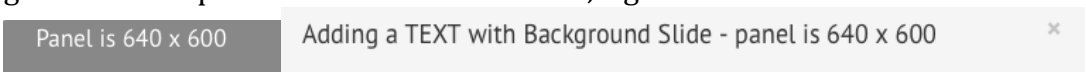
Duration of Play

This field tells the system how long to play this particular piece of content, when it comes up in the Playlist. The duration input field is expecting a value in seconds for the playback of the slide, you can enter a value of any length in this field and the play back will be converted to hours, minutes, seconds etc. For example, 6000 seconds would be 100 minutes; 600 seconds would be 10 minutes.

Width and Height

You will often see width and height options for the media or content item that you are adding into the slide Playlist. Most often you will want to use the whole panel for the content, and the default values for the width and height of the panel may already be set for you. You can override any of these values and save new dimensions for your content. This is especially useful if you want the background (BG) color you have chosen to be visible around the content item.

When you add a new slide you will also notice that the panel dimensions are often given at the top of the add or edit windows, e.g.:



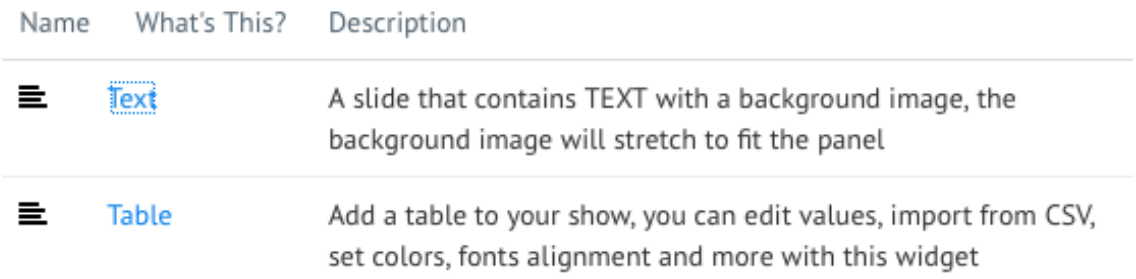
This is designed to remind you what the panel dimensions are when you are setting the dimensions of your content item.

Top and Left Margin

For many of the slides in Display5 you have the option to add a top and left margin in pixels to help to center or move content that is smaller than the slide size.

More Info

You will also notice in the "Add Slides & Widgets" list that there is a "What's This?" column and hyperlinks in the column to each of the slide types.



Clicking on these hyperlinks will open a small dialog box containing more information on what the actual slide properties are, as well as a small image

representation of the final slide to give you some sense of what the widget or container is able to offer. The example below is for the RSS widget:

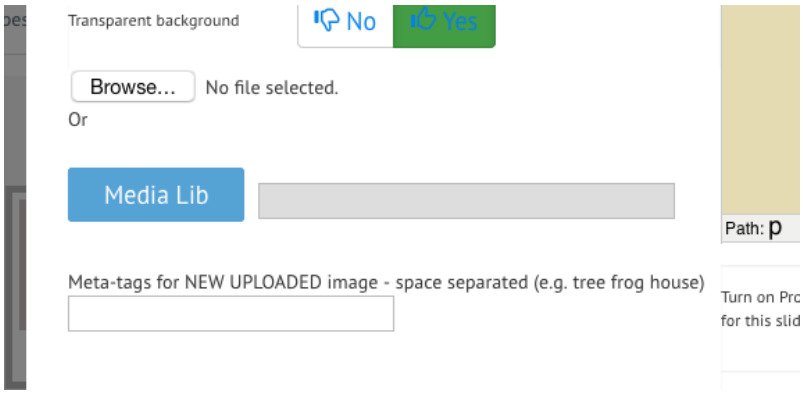
Create a slide which has an RSS feed embedded. You can specify the feed source from a built in list, or provide your own source. You can set the headline font, color, style, size and the same for the story. You can set the width of the images and height, you can also set the width of the story text, the duration or gap between story upates from the feed, the number of stories per frame and the duration that the panel will be open for before restarting at the beginning and repeating the stories

Add slide

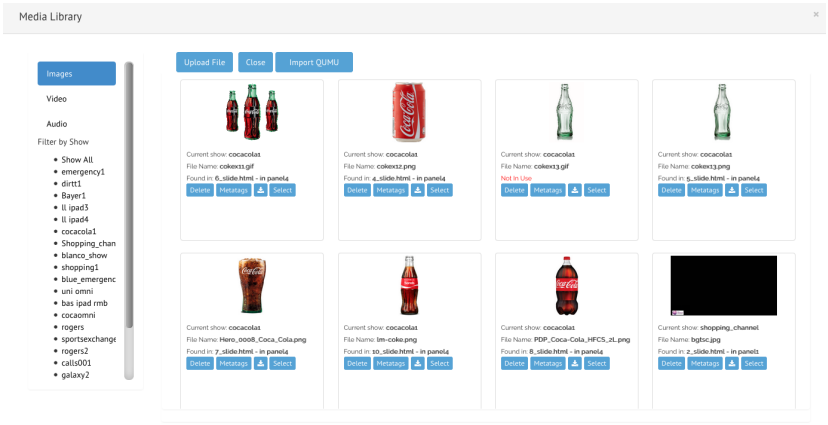
Widgets and Containers

Text Widget

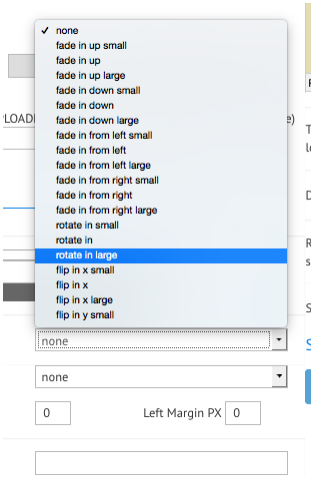
We have already looked at the text widget, however there are additional options available for the text slide. You can add an image to the slide as a background to the text. Hitting the browse button will open a file dialog that will allow you to browse for any image type supported. Remember that the image and the text should be a different color so that the text can be properly seen. You can also select an image from the library of images that have already been added to the show by hitting the Media Lib hyperlink in the modal window. By doing this you are re-using a piece of content previously used in another slide, or other show or just in the media library unused.



This will then open up a new window that you can browse and select a prior image from. The image that you select will be adjusted to fill the entire panel background so any background color will be obscured.



You can also add a transition effect to the text from the drop down list. This can be any effect from the 16 available. The transition will ONLY affect the text and not the image in the background. You can experiment with different transitions in the list.

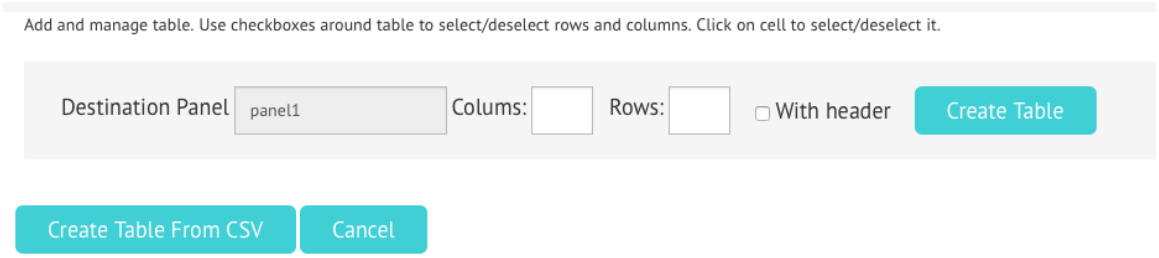


There are two transition options for the text slide – transition in and transition out – these are the two animation effects that will play at the start and the end of the slide duration respectively. There is also a text effects 'shake' option that you can add too, that will provide some motion to the text to make it more eye catching.

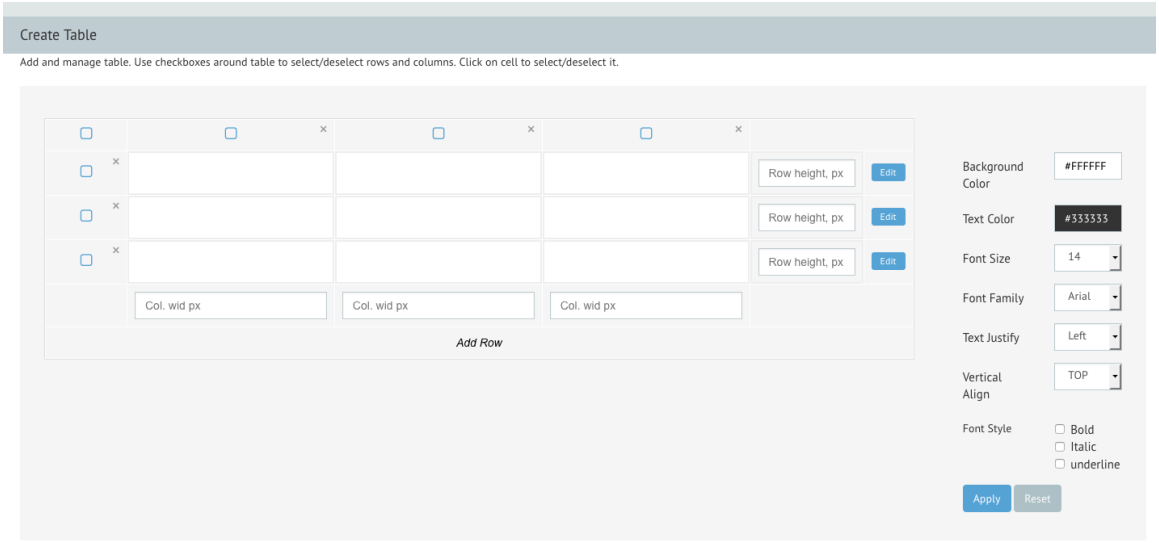
Table Slide

A Table slide is one of the more complex and versatile slide types that you can add to your show and includes an extensive table editor as well as a CSV importing tool to generate the tables. The CSV importing tool makes it easy to import data from an Excel spreadsheet as an example.

When you select to create a Table you will be taken to a screen that will ask for the dimensions of the table in rows and columns. See image below:



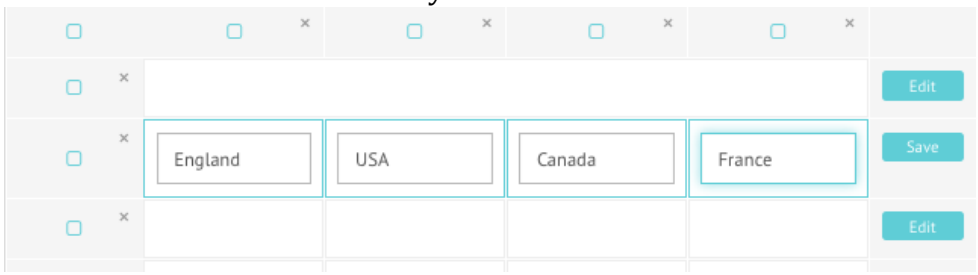
Enter the dimensions as positive integers (or select to import from a CSV file) and then choose if you want to have a header (a single column, blank row at the top of the table) that will appear in the final table. If you have entered the values hit the 'Create Table' button and you will be taken to the Create Table editor screen.



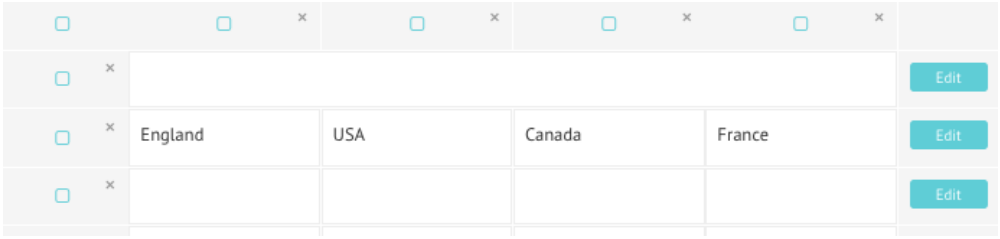
You will notice that the rows and columns are empty and ready for you to input data. To the right of the table is the properties list that will allow you to change the values of text settings such as: fonts, font sizes, font color, shading, justification and more.

To add values to the table you need to select the **Edit** button to the right of each row.

This will then change the mode of the cells to edit mode, where you can now put in any text or numbers or punctuation that you like into each cell. The "Edit" button switches from **Edit** to **Save** each time you click on it.

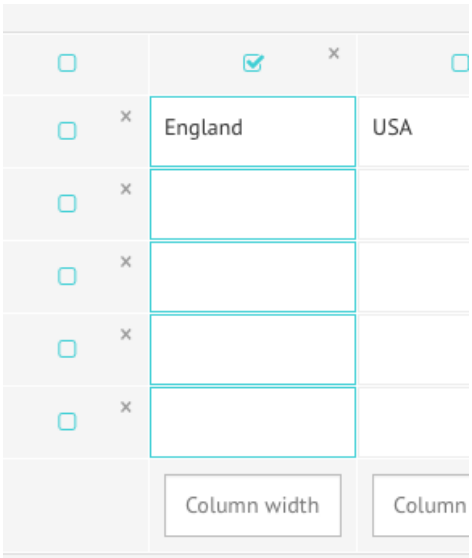


When you have finished inputting, you simply click on the Save button to the right of the row to save the values you have entered. Once you save the values the button changes back to **Edit** which will allow you to edit the values further, at any time.



This will then change the cells back to formatting mode so that you can now change colors, fonts, styles etc.

To make changes to the formatting of the cells, rows and columns of the table you can either select each cell you want to change by clicking on it (you will notice that the border of the cell changes to blue when you click on it) or you can use the check boxes at the top of each column or the left of each row, to select ALL the cells in that row or column.

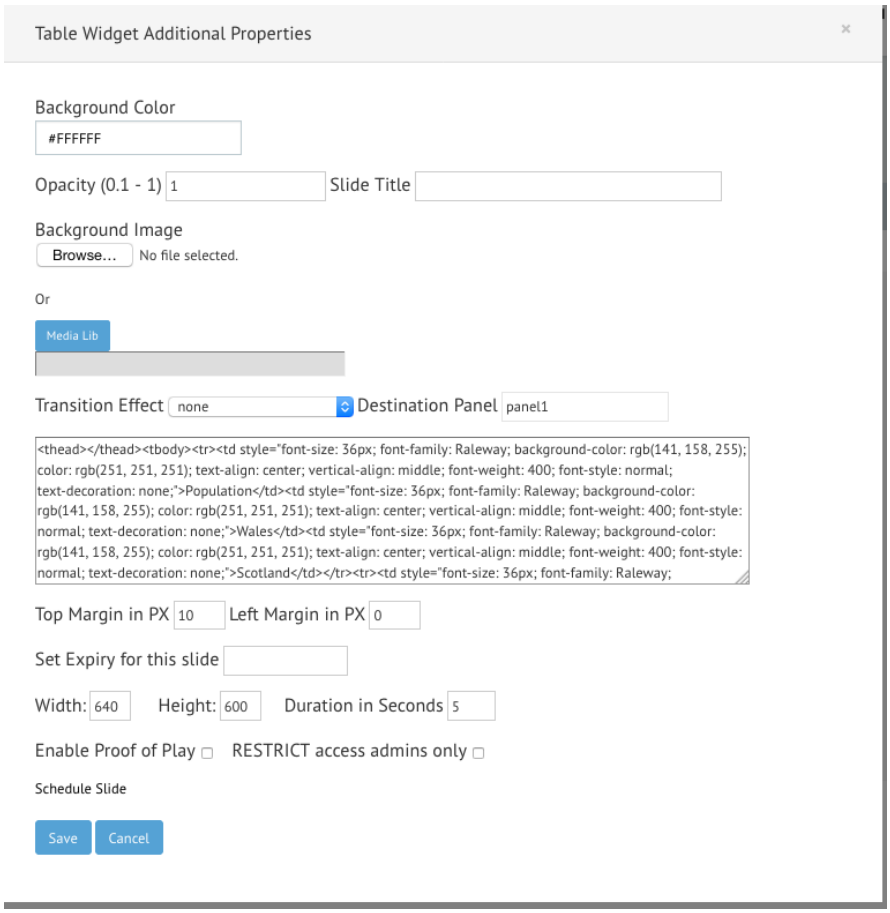


In the example above the entire first column is selected and all cell borders have changed to blue. We can now go ahead and change the formatting of ALL cells in this column. In the example below we have changed the font, alignment, shading, bolding, and font size of all the cells.

When you are finished click **Apply** and then deselect the column using the radio button. You can also click on the **Reset** button to reset the formatting choices to their default values.

You can now follow the same procedure to set all the other formatting properties for the other cells, rows and columns. Once you are satisfied you can hit the **Save Table** button at the bottom of the screen to save all your changes. You will then be presented with the familiar Create Slide window where you will see all the HTML code for your table, as well as options for the width and height, the duration and schedule for the slide and the slide title option. You can also enter a top margin or space at the top of the table (the table will be centered horizontally automatically when you save but vertical centering you will need to do manually)

You can also enter a background color for the table or make any last minute changes to the HTML code for the table you have created. If you are not comfortable making a change to the HTML code, just leave it as is. You have the option to set a transition effect for the slide, enter left and top margin values, add an expiry date for the table content. You can also enable proof of play, and make the content only accessible to administrators as you see from the screen shot below.

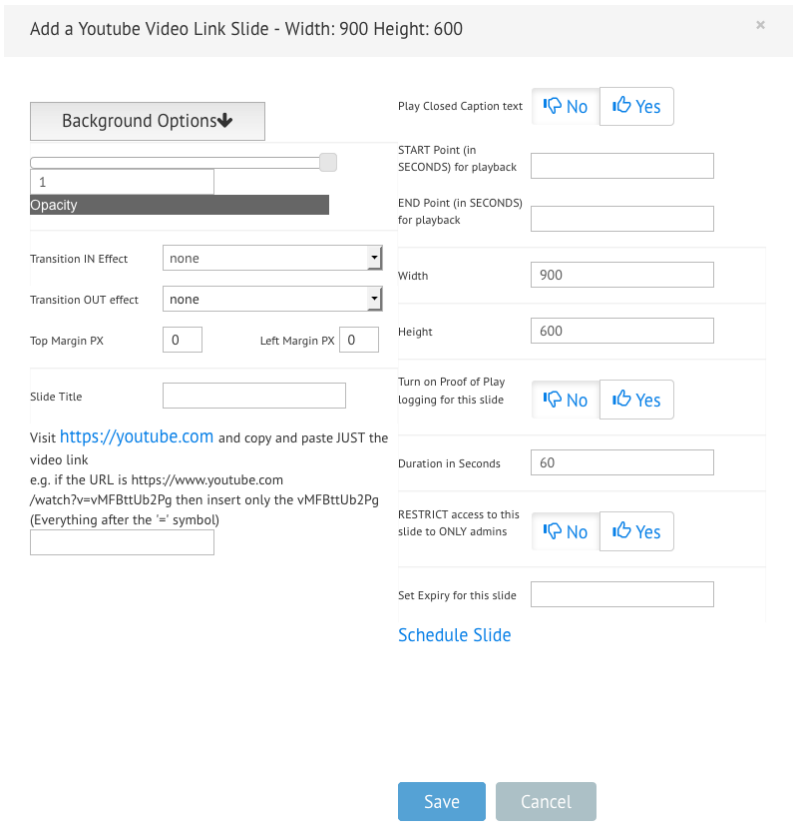


Once you are satisfied with all the slide details you can hit the **Save** button at the bottom to save the new table in your Panel Playlist.

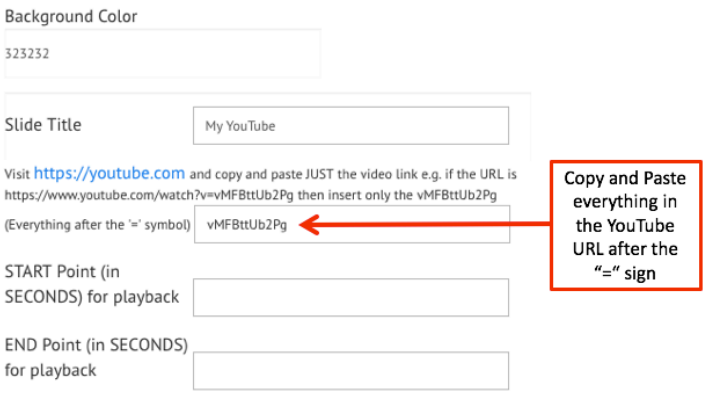
Video Widgets

YouTube Video Slide

Display5 allows you to embed a YouTube video into your slide show. After hitting the **Add** button to add a YouTube video you will be presented with this screen:

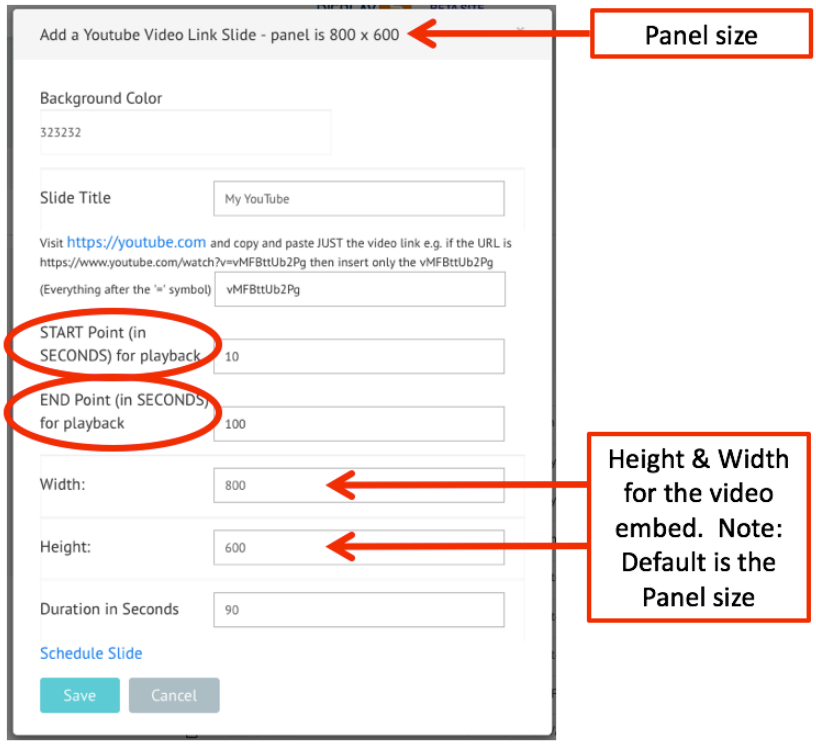


You need to get the unique media id from the actual YouTube video URL. To do this simply click in the YouTube link in the slide create panel, to open a new window to the YouTube site. After you have found the video that you want to embed, then grab the unique ID at the end of the URL - e.g. if the URL is https://www.youtube.com/watch?v=vMFBttUb2Pg then insert only the vMFBttUb2Pg (Everything after the '=' symbol) into the input field back in the slide create window.



Next you can specify a start point in the video or an endpoint in the video in seconds so that you can cue up the video segment precisely. When you enter a start point

and end point the duration will be automatically calculated for you. Leave the fields blank if you want the video to play for the entire duration of the slide.



Enter a width and height for the video embed, any background color, and schedule the slide if you wish. Click on "Save" to save the settings.

You also have the option to enable Closed captions (If present in the video recording) to the playback screen. Just turn the button to the on position to enable this feature in the slide.

HTML5 Video Slide

With the increased support for HTML5 in many of the browsers today, there is now the built in ability to support 3 different kinds of video playback natively in the browser. The HTML5 standard supports H264 MPEG video, WEBM video, and OGG video formats. These files do not require a browser plugin for playback.

To add an HTML 5 video file, select the **Add** button and in the create slide window select the **Browse** button to navigate to the video file that you want to playback. A file dialog will open. Select the file you want. If you choose a file that is not in the 3 formats listed above, you will be prompted to retry.

Enter a width and height for the video embed, any background color, and schedule the slide if you wish. Click on **Save** to save the settings. The duration of the video is automatically calculated for you , so you do not need to enter a duration.

WinVideo Slide

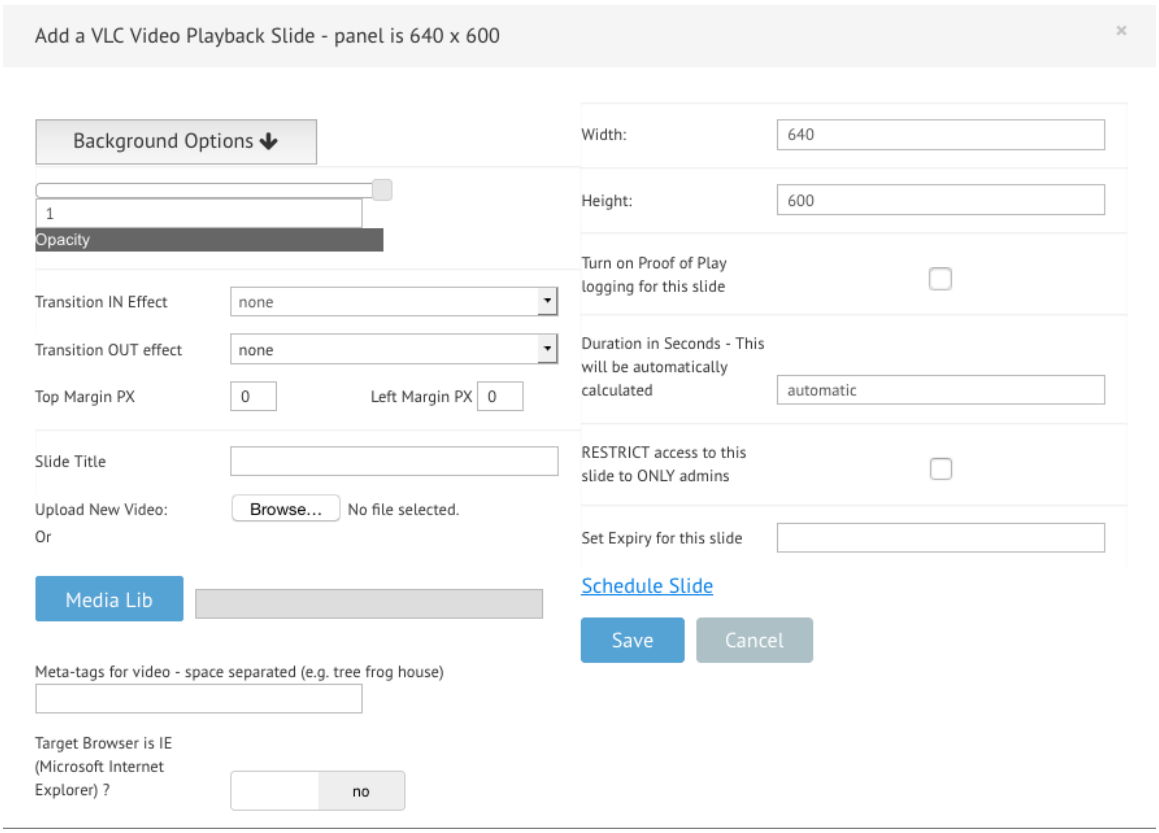
The Windows video slide is designed to work exclusively with the Internet Explorer Browser and is designed to play back either the WMV or the AVI Windows specific video file formats.

You can click on the browse button to locate the WMV/ AVI file and then save the slide for playback only on Windows based computers. You can set the background color, width and height, duration and finally schedule this slide is desired. The duration of the video is automatically calculated for you , so you do not need to enter a duration.

VLC Video Widgets

Display5 works with the VLC media player for playback of a wide range of media types. You MUST install the Videolan VLC player plugin first on your media players to ensure that playback will work. Visit the following site http://www.videolan.org to ensure that your OS and browser is supported. You need to make sure that you install the browser plugin when you install the main package. The plugin is available for Firefox but not Chrome (Chrome has other plugins that will support media playback – such as http://www.videoexpertsgroup.com/chrome-media-player-plug-in/ the VXG media plugin)

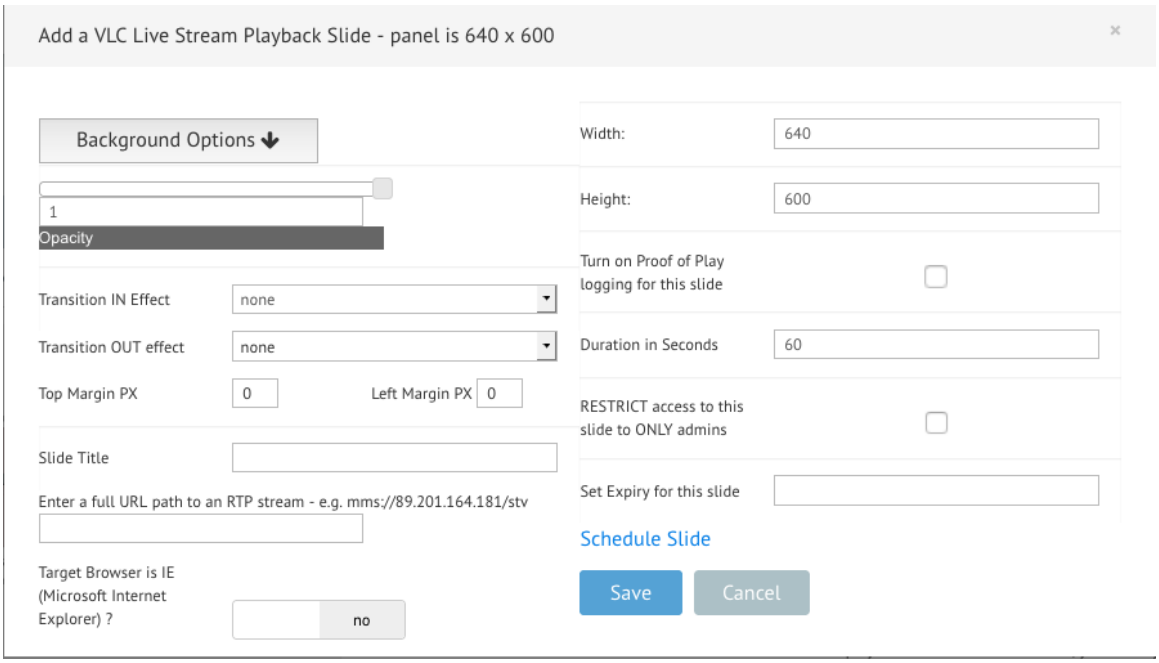
Once you have the VLC plugin installed you will be able to add VLC video playback to your shows. There are two VLC widgets available, one for live streaming and the other for static file playback. One mode of the VLC playback slides will only work on the Internet Explorer browser while the others are designed to work in Firefox and other browsers. Chrome does not currently support the VLC plugin and so to play videos you must use one of the other widgets available. The duration of the video is automatically calculated for you , so you do not need to enter a duration.



Browse to the file that you want play back and then set the width and height of the playback window. Like all other Display5 slides you can set the duration, background color and schedule for the slide as well.
Note – if you are playing back on Internet Explorer then please select the IE browser support button to the 'yes' position.

VLC Live Stream

To add a live stream slide, instead of browsing to the local file on your system, select the VLC Livestream widget:



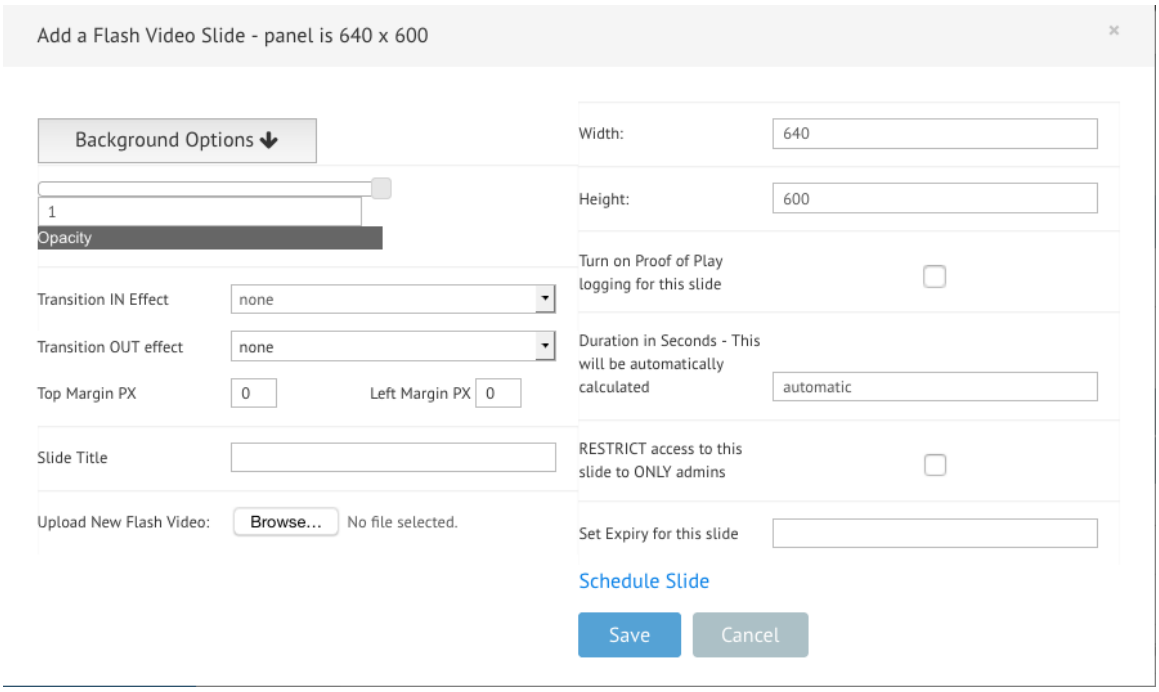
As before provide a slide name and select if this is to target the IE browser or not , and then enter the URL for the live stream – for example `http://1.1.1.1/mystream.m3u8` or `RTSP://1.1.1.1/mystream.sdp` –

VLC natively supports a wide range of video formats for playback – see the following table for more information - http://www.videolan.org/vlc/features.php?cat=video

Flash Slides

Display5 supports the embedding of Flash content into a Display5 slide. This widget supports both the SWF and the FLA flash file format. Adding a Flash slide will also add any of the interactivity that was built into the flash object and this is particularly useful if you are embedding an Interactive Wayfinding widget or a directory style of slide as all the interactions will work in the browser.

To add a Flash object, click on the **Add** button in the slide create list and the following window will pop-up:



You can then browse to the file on your computer and upload the Flash object to the Display5 program or browse to the file that you want to embed and then set the width and height of the object window if you would like to change it from the default Panel size. Like all other Display5 slides you can set the duration, background color and schedule for the slide as well.

This widget will support both FLV and SWF video formats.

Kaltura Video File Slide

The Display5 on premise version supports the ability to embed a Kaltura video file, livestream or playlist and even audio files. See the Enterprise User Guide for more details or contact Display5 support for more information.

Qumu Video File Slide

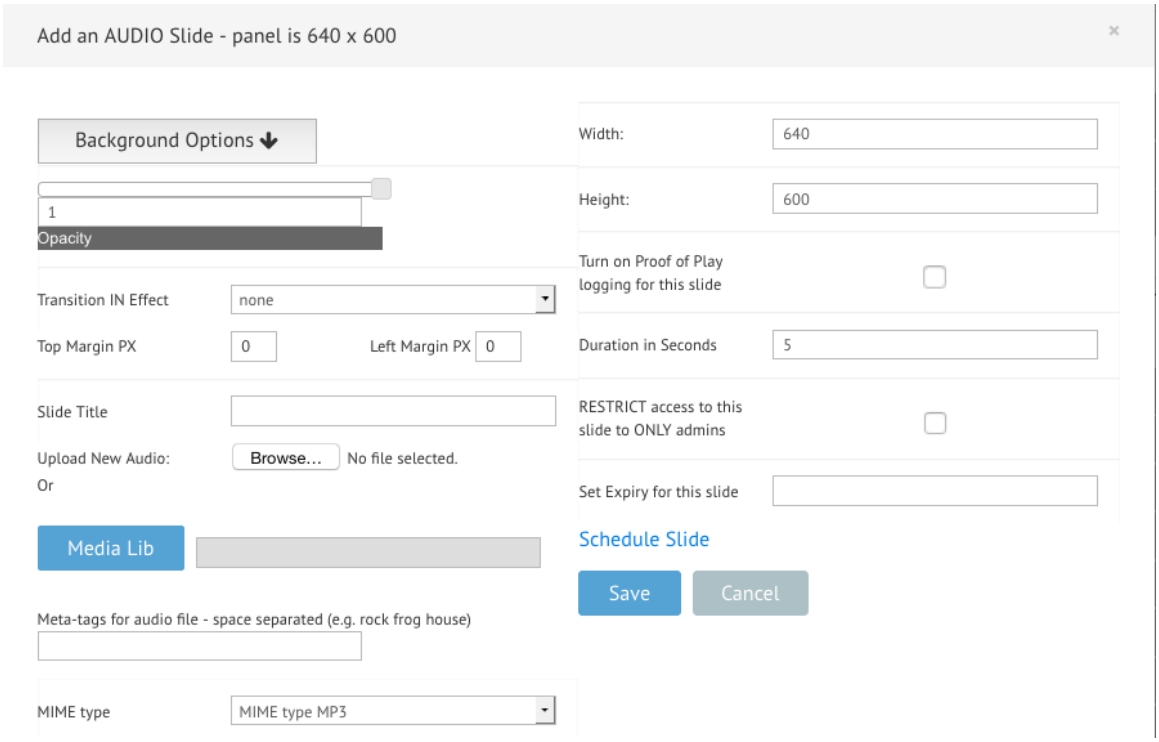
The Display5 on premise version supports the ability to embed a Qumu video file, Qumu Huu or playlist or a Qumu live event. See the Enterprise User Guide for more details or contact Display5 support for more information.

Audio Slide

Display5 supports the playback of audio files within your show. Supported formats include MP3, OGG and WAV. The audio playback does not require a plugin as it is natively supported by HTML5 in the browser.

In addition to the audio file itself, there is also the option to add an image which will

form a background to the slide itself when the audio is playing. You can click on the browse buttons for the image file and add the audio file to the slide:



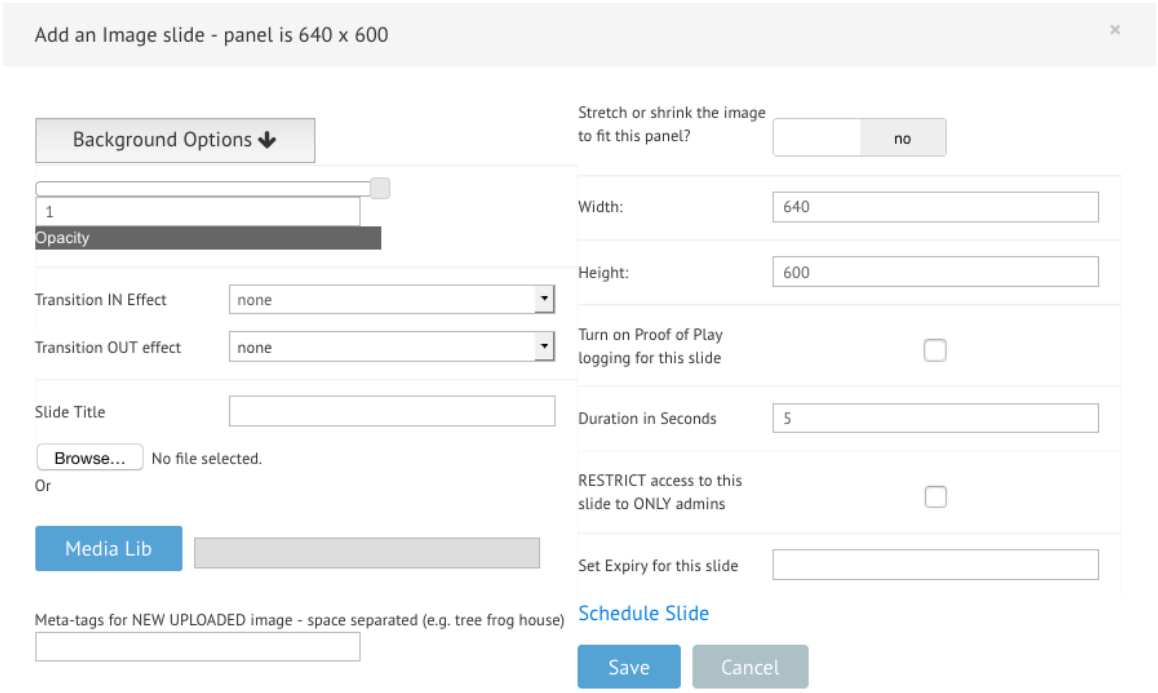
When you add an audio file you must also select the mime type for the file. This is in case you upload a file with no extension. After uploading the file select the mime type from the drop down list. Then you can enter the width and height for the image that you are adding and as with all other Display5 slides you can set duration, schedule and background color. Remember to give your slide a title as well.

When the slide is opened in the play sequence the audio will automatically play. If you did not add an image then you will simply see a blank slide (white by default) with no content but you will still hear the audio.

Image Widgets

Image or Image on Image Slide

Display5 offers a number of different image formats and types that can be added to your show. This include even being able to placeone image on top of another. This slide type is particularly useful if you are using a background theme and you want to have that theme appear in all slides. The Foreground image should always ideally be a little smaller than the background image.



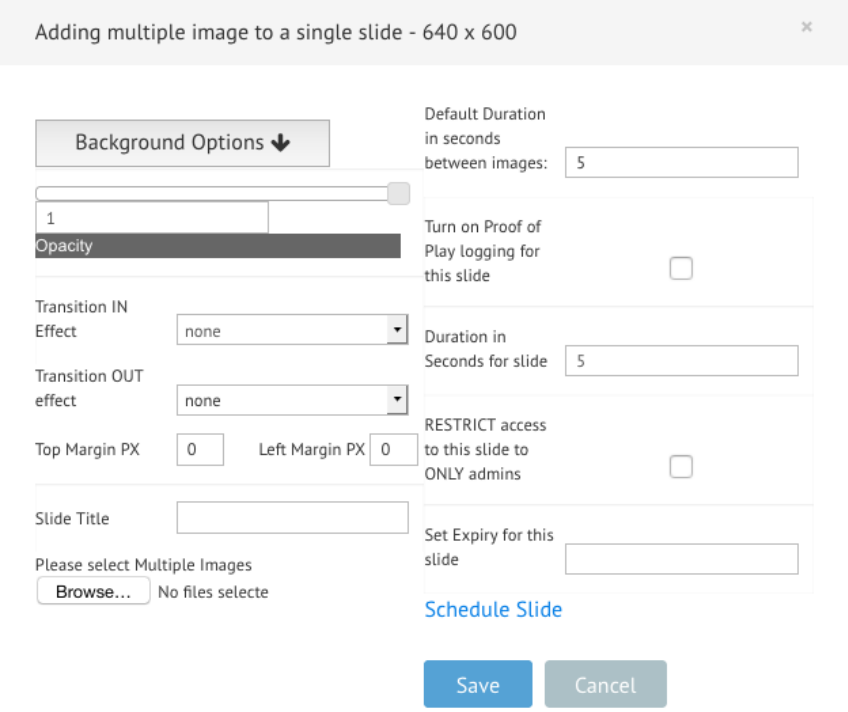
To add the images, click on the **Browse** button for both the foreground and background images (expand the background options in order to see the background image properties fields). You can also click on the Media Lib link to open the list of any previously uploaded images that you may want to re-use (See the Media Library Section at the end of this guide) . You can also select a transition in and out effect for the slide – this ONLY affects the foreground image and not the background.

Handling images that don't fit (SEE SECTION THAT FOLLOWS)– This slide widget offers the option to stretch or adjust the image size through the toggle button, Images that are not exactly the size of the panel will either be scaled up (if you select the option radio button shown above) or down to fit in the case of the background image, or in the case of the foreground image, will be centered in the panel and the size will not be adjusted. Like all other Display5 slides you can specify the background color, duration and schedule for this Image on Image slide.

You can click on the browse button to open a file listing to locate the file. Display5 supports GIF, JPG, IMG, BMP, TIF and many other image formats. You can also add a transition in and out to the image so that it loads and unloads with an effect. Specify the width and height of the image as well as any background color that you would like to add.

Media Slide

A Media slide is actually a container slide, i.e. it can hold multiple images that will cycle through with the same duration for each image. The images will continue to rotate for as long as the overall duration which the "Media slide" has been set for.



Click the browse button to locate the images that you want to display. Note: it is best to use images that are the same size or smaller than the target panel to prevent image distortion. You can:

1. Set a delay in seconds for how long each image will show in the slide
2. Set the overall duration for the slide
3. Optionally, schedule the "Media slide"

All images are uploaded to the Display5 server and locally cached. The images will also be added to the content library in the "MyShows" main page.

Adjusting Images to fit

Selectin the option to adjust the image for the slide is where the image that is being uploaded is actually altered in either the X or Y dimensions to fit the panel. For clarity:

If the destination panel is 640x600

- If the image is 640 x 200 then the image will be stretched in the Y axis to become full panel – in other words, the 200 will be stretched to 600.

See the images below, original is first image.

- If the image that you are loading is 800 x 600 – then the image will be squashed in the X axis to 640 wide – in other words, the Y dimension will remain the same but the 800 will be reduced to 640 pixels

- If the image you are loading is 600 x 400 – then the image will be stretched in BOTH directions – from a width of 600 to a width of 640 and from a height of 400 to a height of 600.

This image widget is particularly useful if you have images that are not precisely the same as the panel size but you want them adjusted to fill the whole panel.

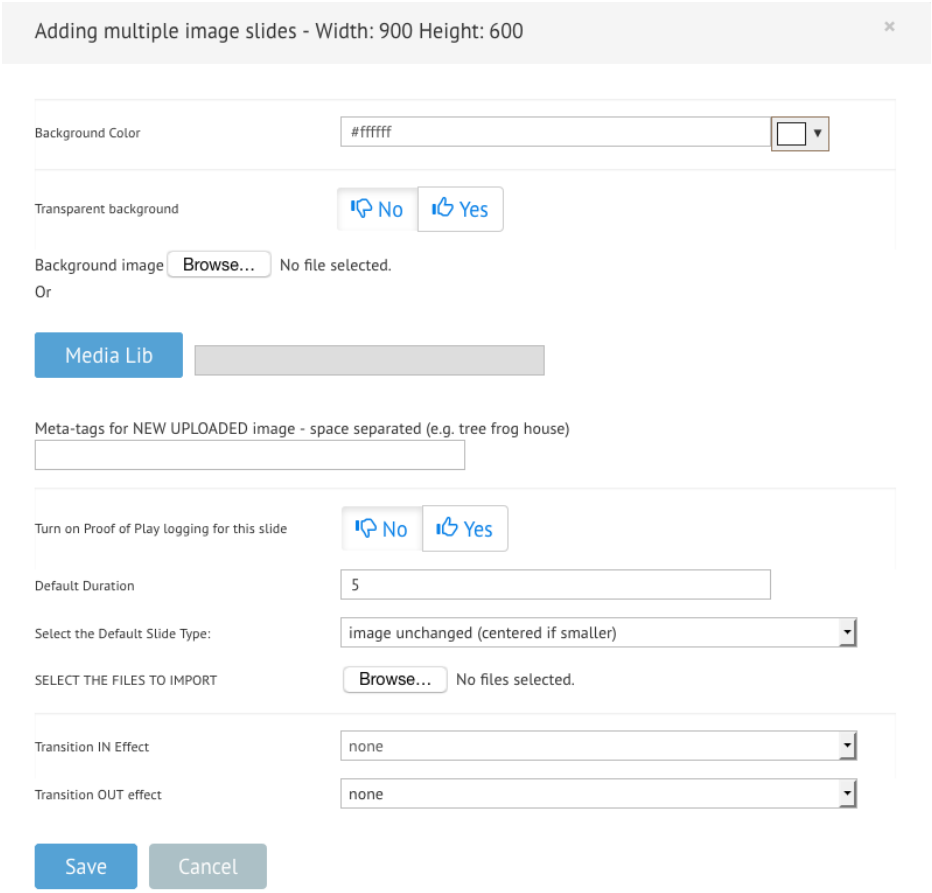
Use the browse button to locate the image that you want to upload. It will be added the content library for use later on in other slides. You can add duration, schedule and background color to this slide type as well.

Image Upload

Display5 offers a Media library that can be used to upload images and then re-use images in other panels and shows. To add images to the Media library we offer a upload tool that can be used to upload to any Show. – PLEASE SEE THE MEDIA LIBRARY SECTION for more information on this additional tool

Image Multiple Slide Create

A powerful feature of the Display5 program is the ability to auto-create slides using the Image - Multiple Slide create option in the Images section of the Add Slides and Widgets window. Selecting the Image - Multiple Slide create button will open up a new window. For PowerPoint presentations you will need to simply save the PPT file as a series of images (prior to using this feature). Make sure you use images that are no bigger than the panel size.



This window lets you upload images in bulk and create multiple slides that will appear at the end of your panel Playlist. You can run this auto slide tool multiple times if you wish and the slides will continue to be added to your panel Playlist, numbering from the highest upwards. Slide titles will be 1_slide, 2_slide, etc. You can change the names after loading them.

You can specify the images that you are uploading to be stretched or left as is in the panel in the Select the Default Slide Type field. The image will be adjusted to fit the panel if you select Image scaled to fit. You can also select the background color for every slide, specify a default duration for each slide and also select a default transition for each image slide in the sequence.

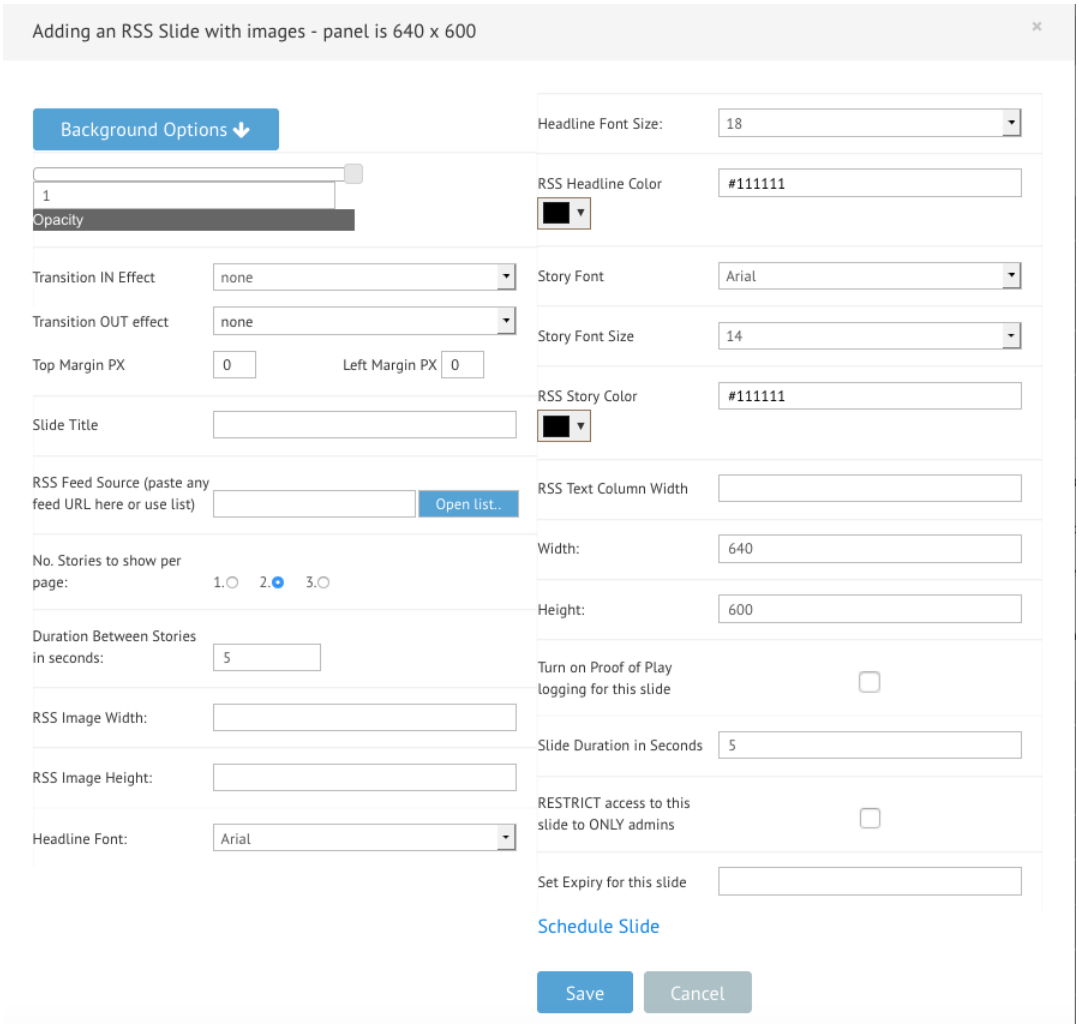
1. First click on the browse button and multi-select images using the Mac or Windows file window techniques for multiple select
2. Select the default duration & transition in and out effects, and background color , and background image if required, for each slide. Whatever you select will be the same for all the slides you upload. You can make changes once the images are uploaded
3. You can also select a transition in and transition out effect for each of the image slides

4. Hit the “Save” button. When complete the window will automatically close.
5. You will then see all the new slides you have added will appear in the bottom of the panel Playlist. You can edit each slide individually afterwards if you wish to make further changes.

RSS Widgets

RSS Feed with Images Slide

Dsiplay5 allows you to add an RSS feed to any show that you would like to see news or current affairs loaded live. The RSS with images is at it sounds, a RSS widget that will show the story text from RSS as well as any images that are being broadcast with the story.



In the RSS Feed Source field, enter a URL or choose one from the library by clicking the **Open List** button. Select how many news stories you would like per page (the smaller the panel the less the stories per page should be). Enter the duration in seconds that you wish each article to stay on screen before switching to the next. You can also specify the font size and color for both the story and the headline. You can specify the size of the image that will appear with the story. You can enter the column width of the RSS feed (should be smaller than the panel width), the duration and schedule the slide if needed.

RSS Feed no Image Slide

The RSS Feed no Image slide is identical to the RSS Feed with Image slide described above, except for the fact that there are no story images that will appear. So, the image size options in the window which pops up to create the slide are not presented. Once again, set the background colour, duration, schedule and all the other properties listed for the slide above.

RSS Scrolling Stories one at a time

This widget is designed to play only one story at time on the screen.

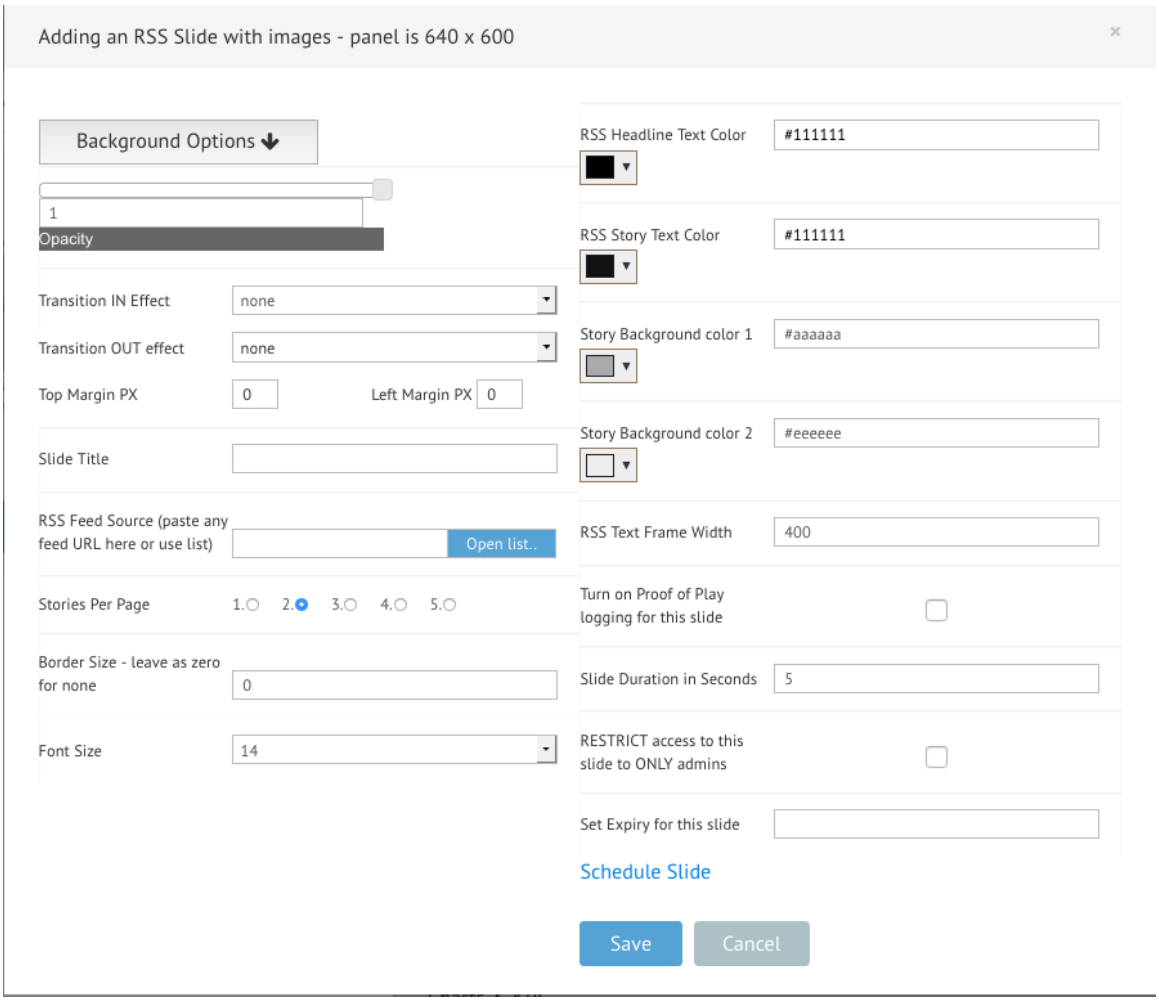
Create a slide with RSS headlines and stories that will scroll from right to left, you can specify the font styles sizes and colots . You can also adjust the duration and update frequency of the headlines

Add slide

You can also set the text properties and duration and all the other settings outlined above for the other RSS widgets, for this slide as well

RSS Scrolling Table Slide

The RSS Scrolling table widget is an animated RSS feed window that has the ability to scroll through RSS stories automatically.

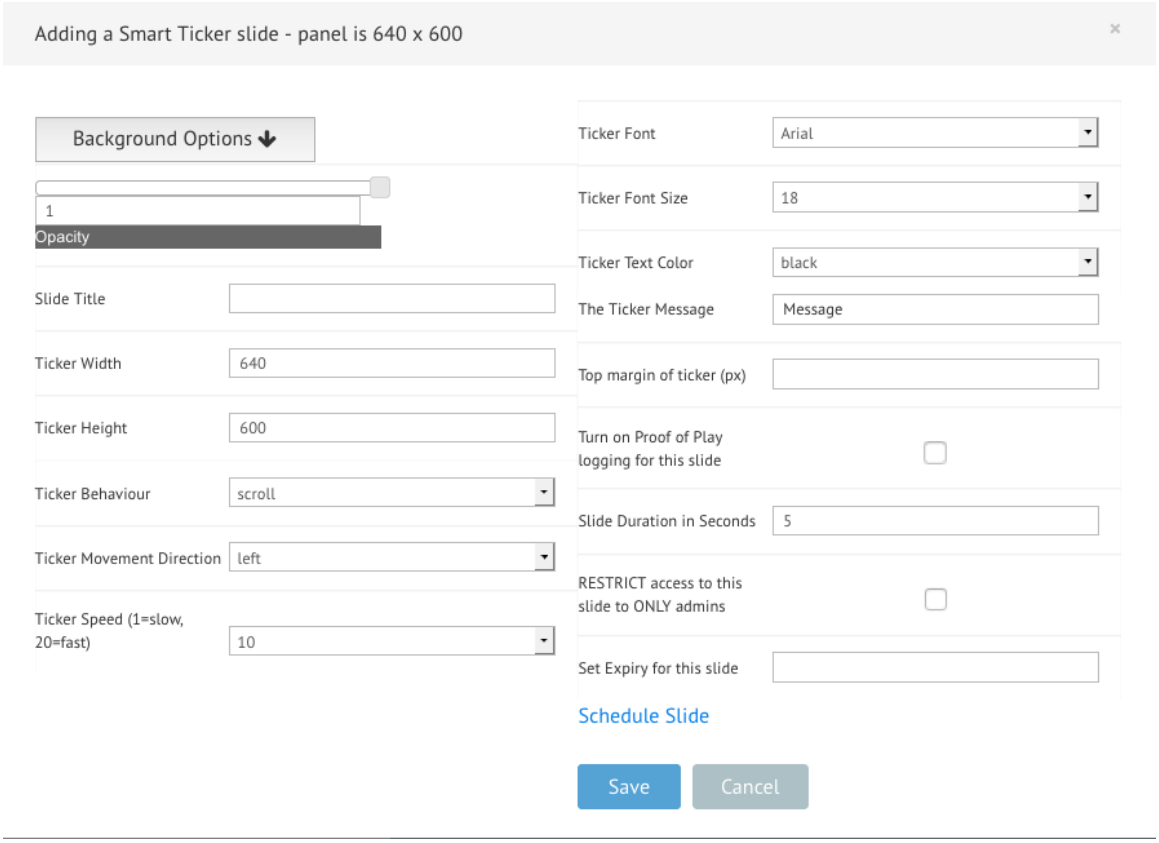


As is the case for the other RSS widgets you will need to select a feed source, or enter a URL of your choosing and then specify if you wish to see images. You can then enter the number of stories per page (1-5) and then the font size of the stories. Because this is an animated panel it is a good idea to set 2 background colors that will indicate when a story is changing. You can specify the duration, background color of the slide and schedule for the slide as well.

Tickers and Smart Text Widgets

Rich Text Ticker slide

The Rich Text Ticker slide is a moving text widget just like the style of stock tickers that you would see in Times Square, New York. You can set a wide variety of attributes for the ticker itself.



Specify the width and height of the ticker. Select the behavior of the ticker which is essentially how you want the ticker to move. The ticker movement is made up of the 3 fields: Ticker Behavior, Ticker Movement Direction and, Ticker Speed. Ticker Behavior options are to 'scroll', 'slide' or 'alternate' – bounce back and forth.

Ticker Movement Direction options are: 'left', 'right', 'up' and 'down'. The usual way for tickers to move is from the right to the left, or 'left movement', because that is the way that most people read from left to right.

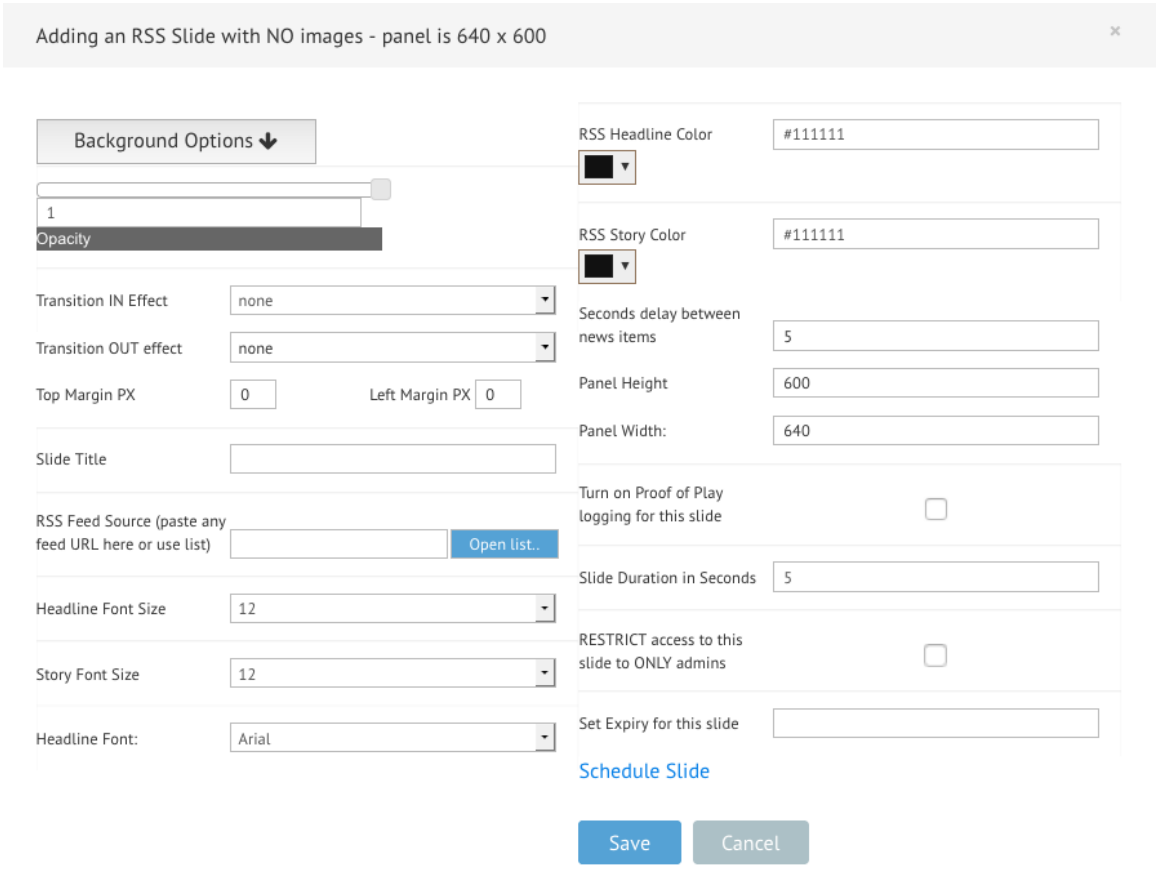
Ticker Speed is the speed of the ticker motion. Low numbers are slow and the higher you go the faster the ticker moves. Be careful with setting ticker speed. Ticker movement is very compute intensive. Every time a ticker moves over one pixel it has to be redrawn on the screen. If your player is underpowered or if you move the ticker at too high a speed, the movement will look jerky. Try a lower ticker speed so the player does not have redraw the ticker as quickly.

Next, format the style of the text for the ticker (font, font size, font color, etc.). You can then also add a top margin to the ticker to position it down or up in the panel if the text does not fill the panel completely.

You can now type in the message in "The Ticker Message" input field. Then if needed add the duration you want the message to play and schedule play of the slide if required.

RSS Headline Ticker

The headline ticker is a nifty small widget that essentially scrolls repeatedly through a whole series of RSS headlines. Here is what the set-up window looks like:



Enter the "RSS Feed Source" URL or pick one from the many that we provide in the pop up feed list. The "RSS Feed Source" requires that you enter the:

1. Headline font size which is a drop down list, font family and font colors
2. Headline box height
3. The panel width and height (if different than the default dimensions of the slide)
4. The duration and schedule (optional) settings for the slide.

System Based Ticker

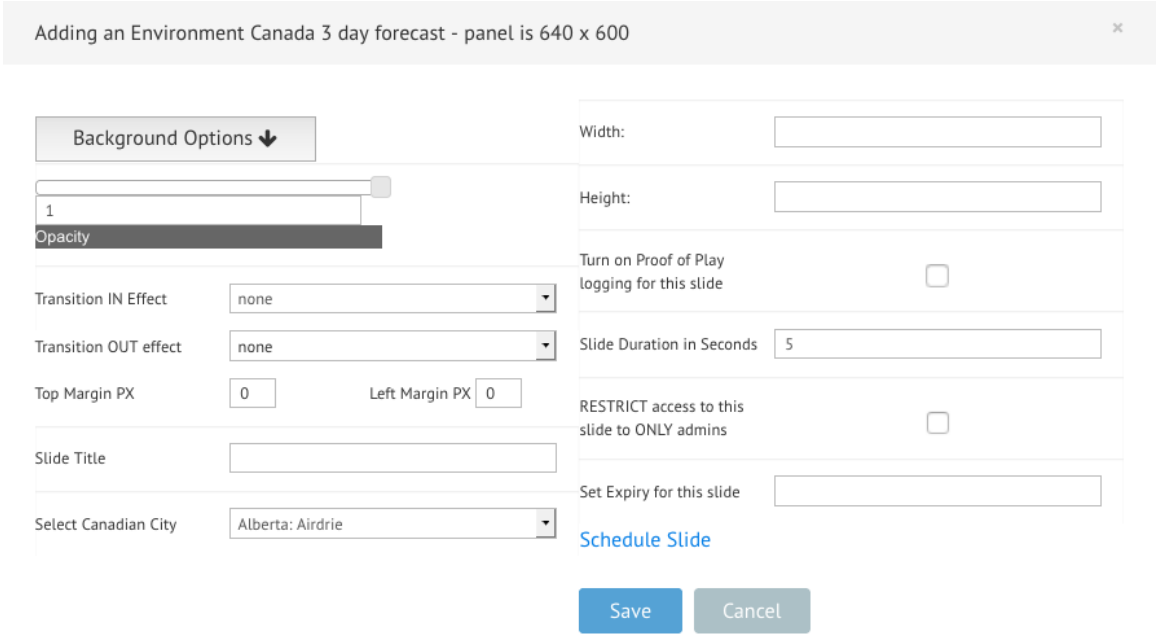
Display5 offers a powerful system managed ticker that has a separate management screen that allows you to set the properties and messages in the ticker. The slide add simply lets you plant a managed ticker into one of your slides. See the System Ticker section for more information on the management of this type of ticker.

Weather Widgets

These widgets require that the players that are playing the Show have Internet access.

Weather Envirocan Widget

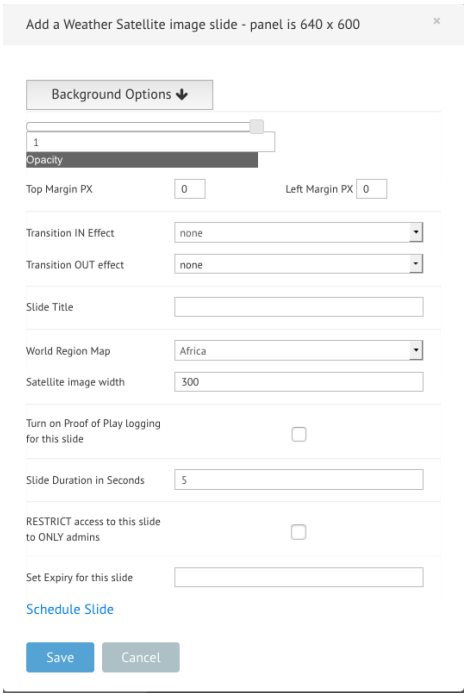
Environment Canada offers a widget library that can be embedded into any site or application. The widget in this slide is based on the 3-day forecast design. These widgets are for **CANADA ONLY**, if you are adding weather for another country then please use one of the other widgets



From the drop down list select the city that you are wanting weather for and then enter the width and height for the widget along with duration and optionally, the scheduling for this slide. It is possible to change the widget type later on once you become proficient, by editing or updating the HTML code for the slide, this is covered in a later chapter.

Weather Sat Maps

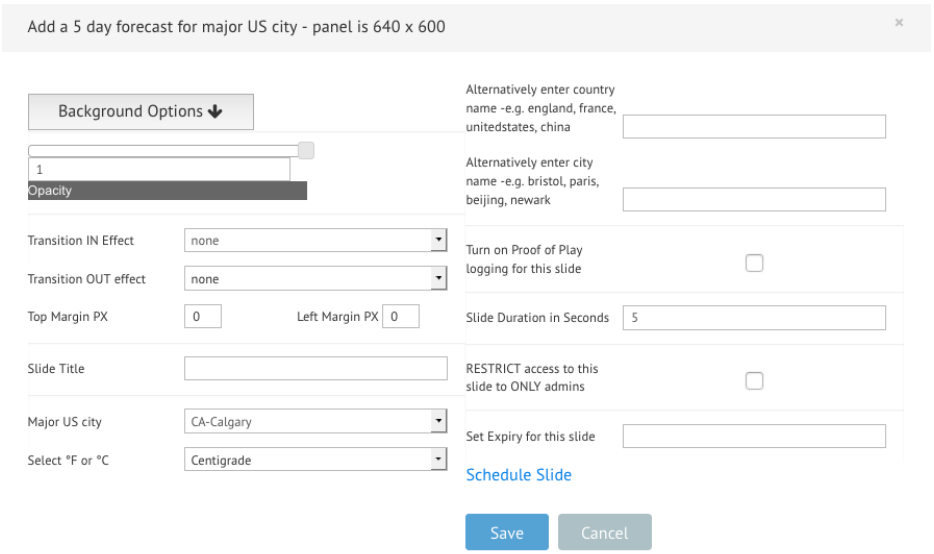
You can add a live satellite weather map to your show using this widget. There are about 20 available maps to choose from that cover most of the populated areas on the planet.



Select the location from the drop down list and then enter the width and height for the satellite image. You can also add a background color, set the duration and optionally, schedule this slide.

Weather 5-Day

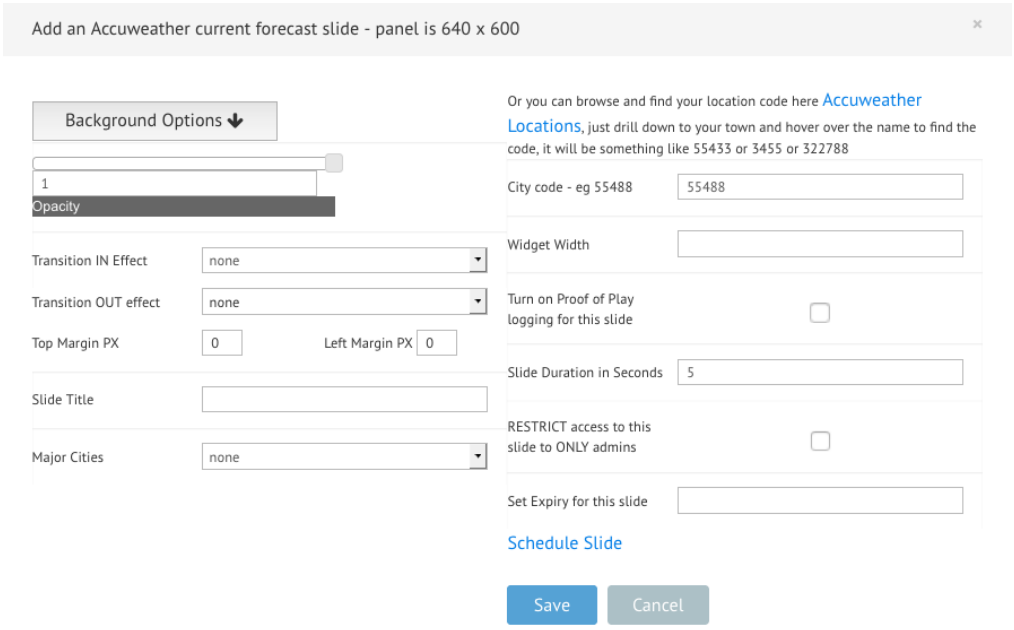
The “Weather 5-day” widget offers you a 5 days forecast for anywhere on the planet.



You can pick from a standard list of locations or you can enter the location yourself in the Country and City fields. You can also choose between centigrade and Fahrenheit. This widget is a preset size and so you do not need to set the height and width of the widget. Set a background color, duration and optionally, schedule for this slide.

Accuweather Widget

Accuweather provides a very simple single location widget that shows the current weather conditions for any location in the world.



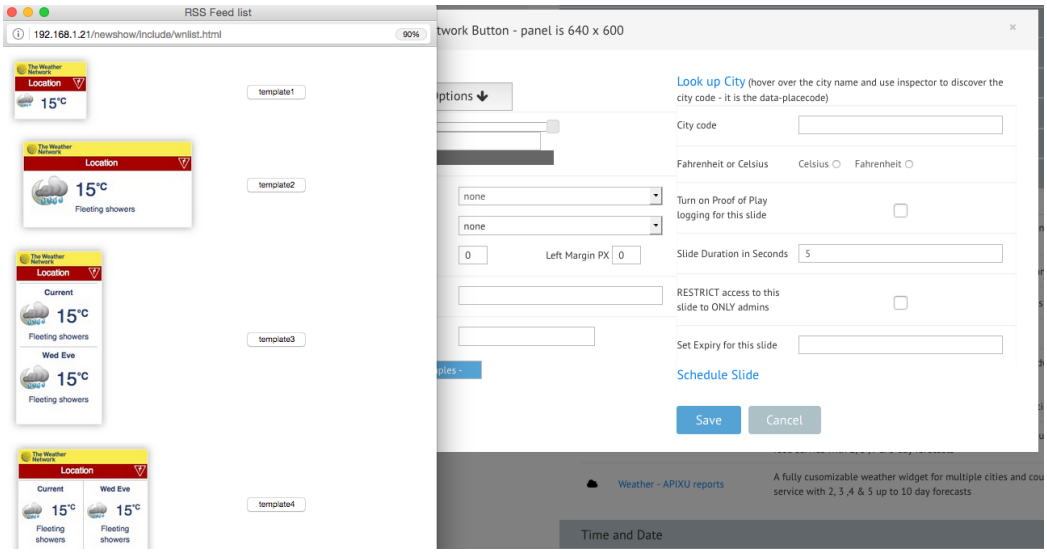
You can pick from any of the pre-configured cities in the list, or you can enter the location yourself. To get access to the location or City code you will need to open the Accuweather site in a separate browser window and search for the city.

After locating the city hover over the city name to find the city code. It will be something like 55433 or 3455 or 322788. It will also appear in the URL for the actual town as well – e.g. http://www.accuweather.com/en/gb/bedford/mk40-3/weather-forecast/326932 For Bedford the city code is 326932, the last part of the URL.

This widget will adjust to the size of your panel and so you do not need to enter the width and height. You can specify the duration, schedule and background color for this slide.

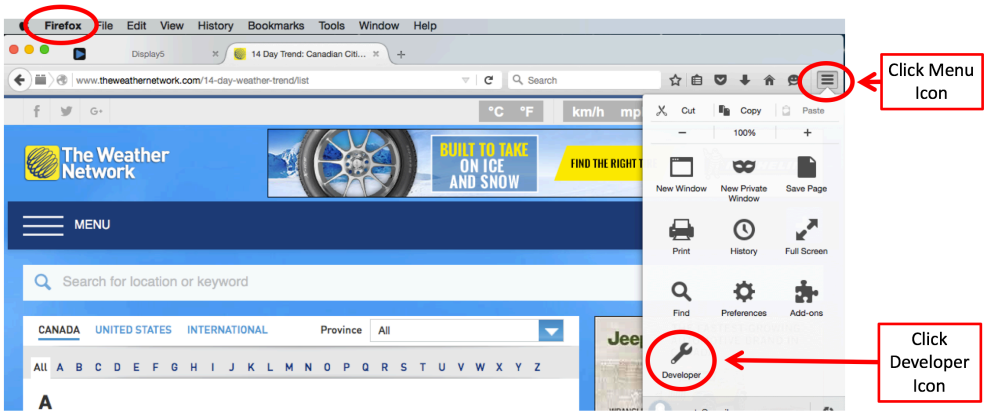
Weather Network Widget

The Weather Network also offers a range of widgets that you can embed in your Show and customize for different locations. We provide a collection of templates for this weather widget, that you can see if you click on the **Open Template Samples** button next to the Template for weather field.

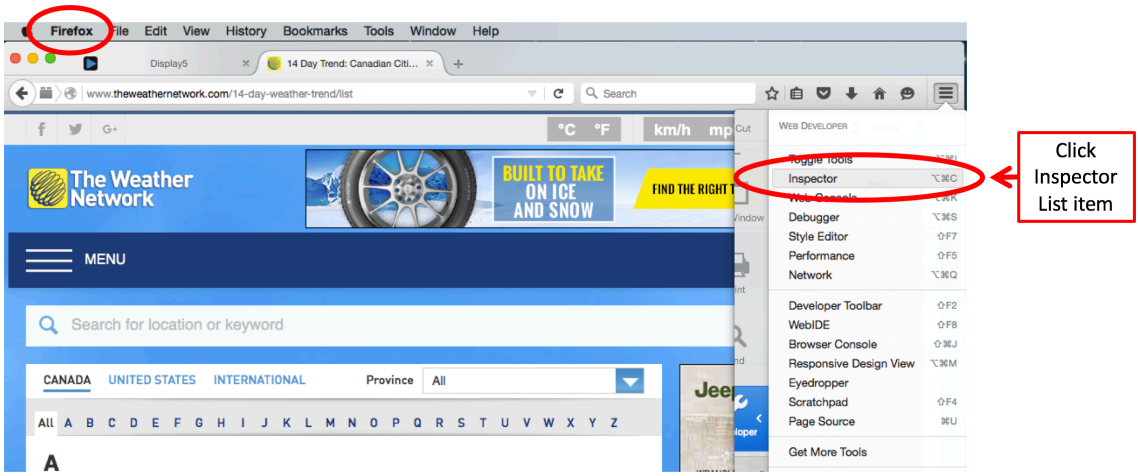


You can specify the position of the top-left corner of the widget on the slide by entering the top and left values in pixels. To obtain the location code for your chosen city or location you will need to go to Weather Network website. You need to find the data-placecode value for the city you want the weather for. Here is how you find the data-placecode.

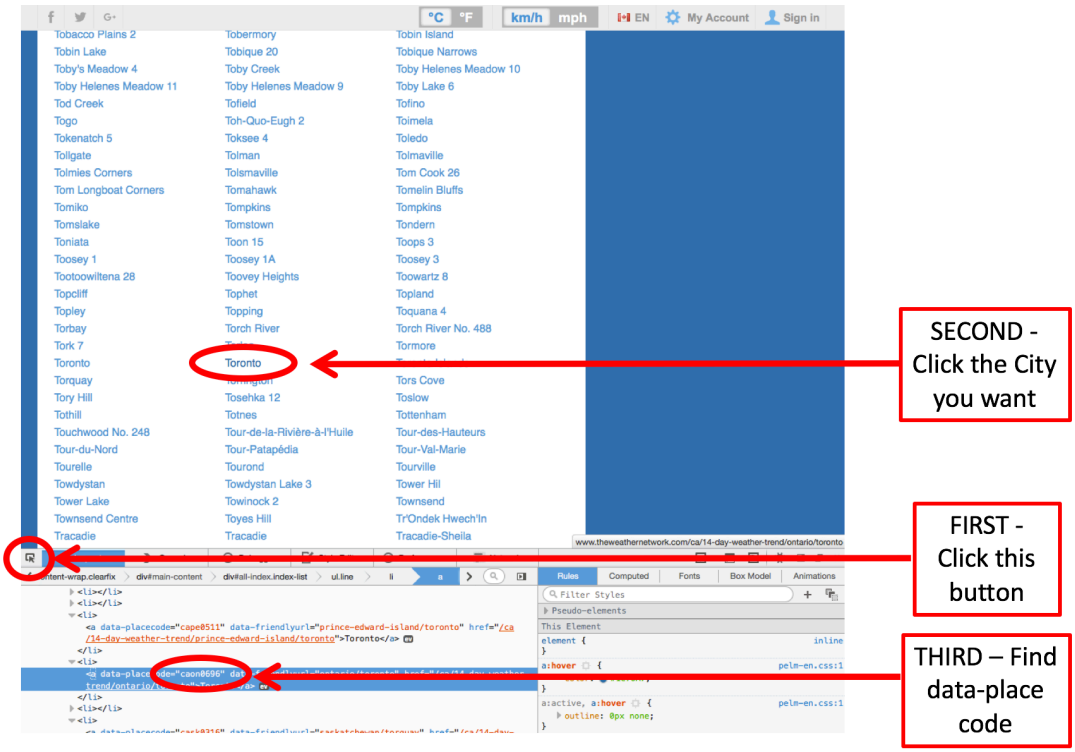
Use the inspector browser tool (built into Firefox and Chrome) to look for the data-placecode value on the HTML page. Here is how you do it with Firefox. Using Firefox go to the Weather Network website page for a weather forecast, e.g. 14 day forecast. Find the country & city you would like the forecast for within the list of cities under the letter the city starts with, e.g. go to the "T" page for Toronto. When you are on the page with the weather for the city of your choice, click on the menu icon in the top-right corner. A menu will open – click on the "Developer" icon. See below:



A new menu will open up. Click on the "Inspector", item in the list – see below:



Clicking the "Inspector" item in the list will give you a webpage that looks like this:

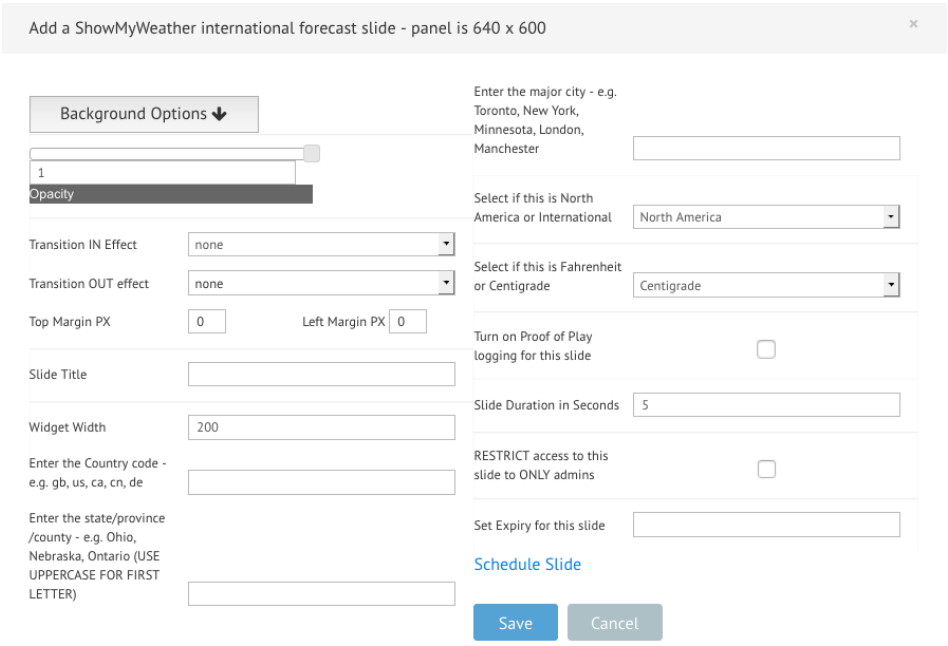


First, click the small button near the bottom-left as indicated in the screen shot above. Second, click on the city that you would like the data-placecode for. Third, the bottom part of the browser will highlight the lines that contain the data-placecode that you are looking for. In the example above it says: data-placecode=”caon0696”. The caon0696 is the data-placecode for the location that you need. Insert the data-placecode into the field called “City code”.
Next you can select Centigrade or Fahrenheit degrees using the radio buttons. You can set the background color, duration and optionally, schedule the slide as well.

ShowMyWeather Widget

The “ShowMyWeather” widget is a simple widget that can provide a forecast for any location in the world. The format – seen below – of the forecast is a simple weather panel showing current conditions along with a 3-day forecast.

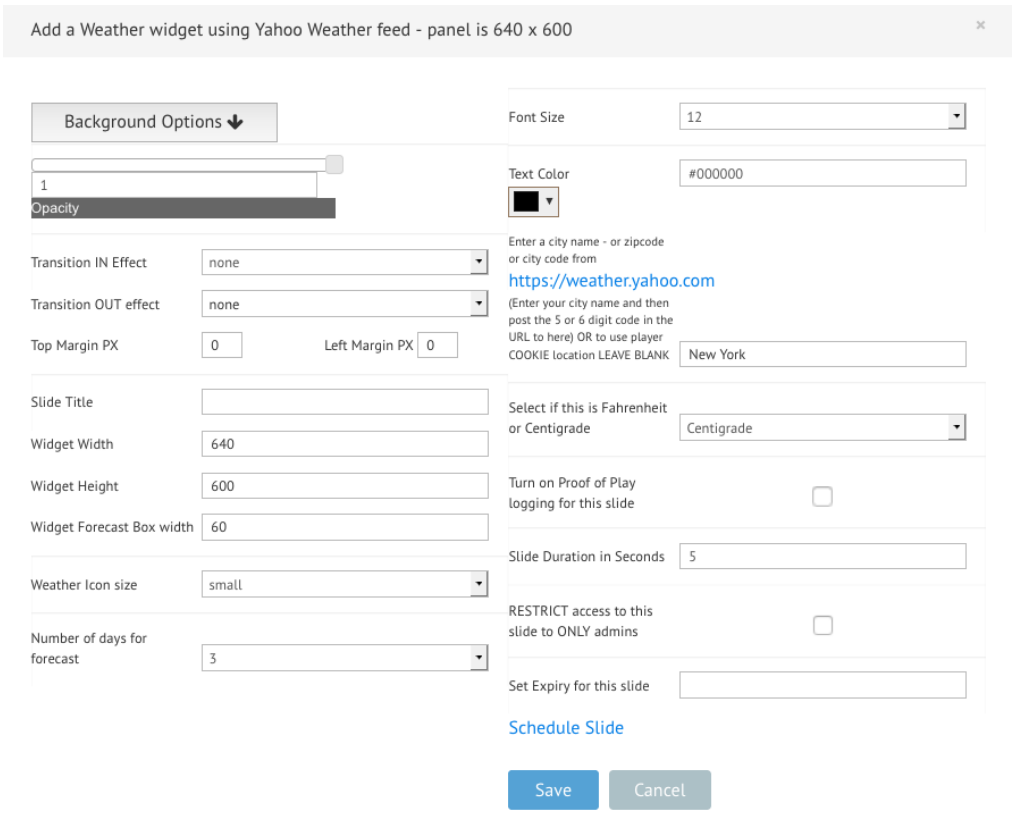
You can enter the Country, State, City and specify if this is an international location from the drop down list.



You can choose Centigrade or Fahrenheit degrees using the drop down menu. Once you have entered your location you can add a background colour, enter the duration and optionally, schedule the slide. The widget width can be entered as well and the height will be adjusted automatically. It is possible to change the positioning of this widget if required using the HTML page editor which will be explained later on.

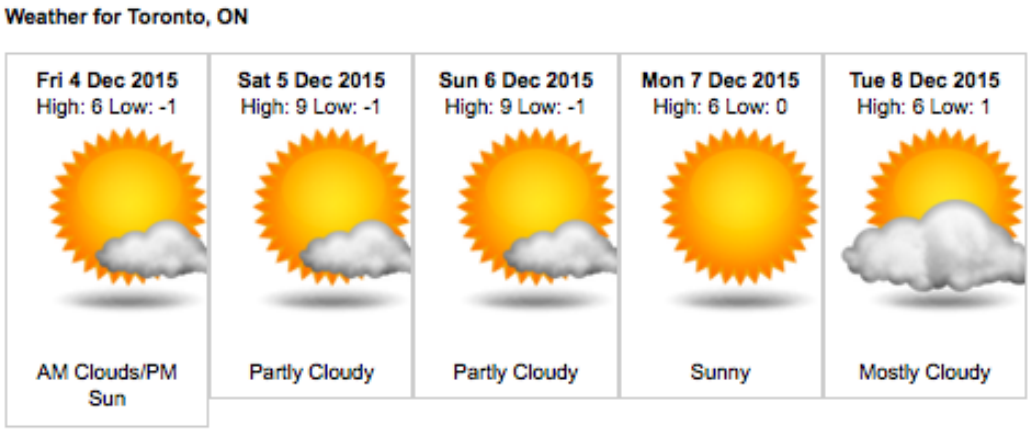
Weather - Yahoo Reports Widget

The "Weather – Yahoo Reports" widget is a more advanced weather widget offering you more scope for customizing the look and feel as well as the content of the widget.



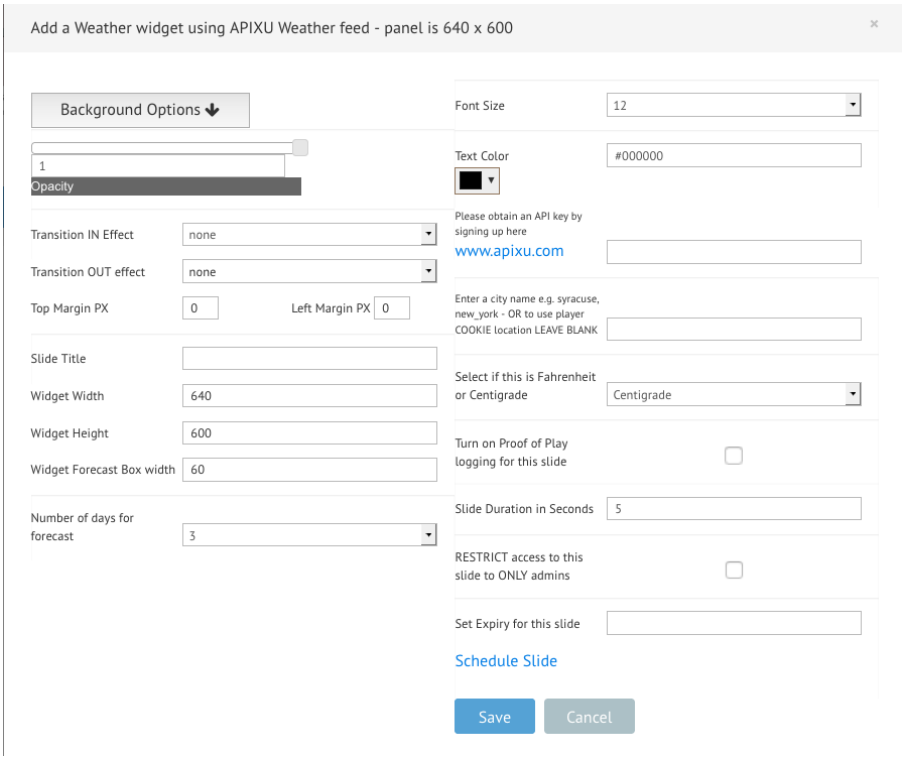
You can:

- Specify the width and height of the widget, and margins
- Enter the exact width of the box for each day in the forecast
- Pick from 3 icon sizes in the drop down list
- Specify the number of days from 1 to 10 for the forecast itself
- Customize the font size of the weather boxes and font color
- Choose between Centigrade and Fahrenheit to display
- Add your location – You can either enter a common city name such as New York , Boston, London – or - you need to open a browser window to the Yahoo weather site (the link is provided in the add slide window) and then search for the city or location within Yahoo. Then once you have located it - from the URL for the weather page, extract the 4 or 5 digit code from the end of the URL – e.g. https://weather.yahoo.com/united-kingdom/england/gloucester-21248/ where 21248 is for Gloucester UK. Enter this code into the "Zip code or City code" input field. You can also set the duration, background color and optionally, schedule the slide.



Apixu Weather Widget

The Apixu weather widget is based on the free service API available from the Apixu site. You will need to register on this site to receive a key code in order to use this widget. This will allow you to make hundreds of requests per month, if you need to make more frequent update requests from Apixu, then you will need to sign up for a commercial license with APIXU. Go to www. Apixu.com to sign up.



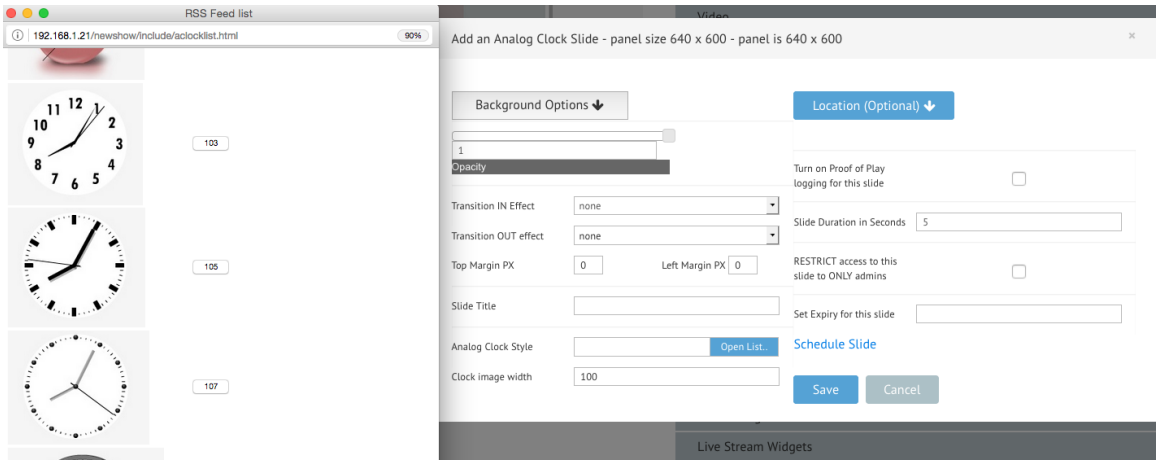
Once you have a code you can specify the width of the weather boxes, how many days ahead forecast you would like, C/F option, the location for the weather you want, the text font size, color and style.

Time and Date Widgets

Weather widgets require the players that are playing a Show to have internet access as well as, for some of the clocks that are Flash based, using a browser that supports Flash playing.

Analog Clocks (requiring Flash)

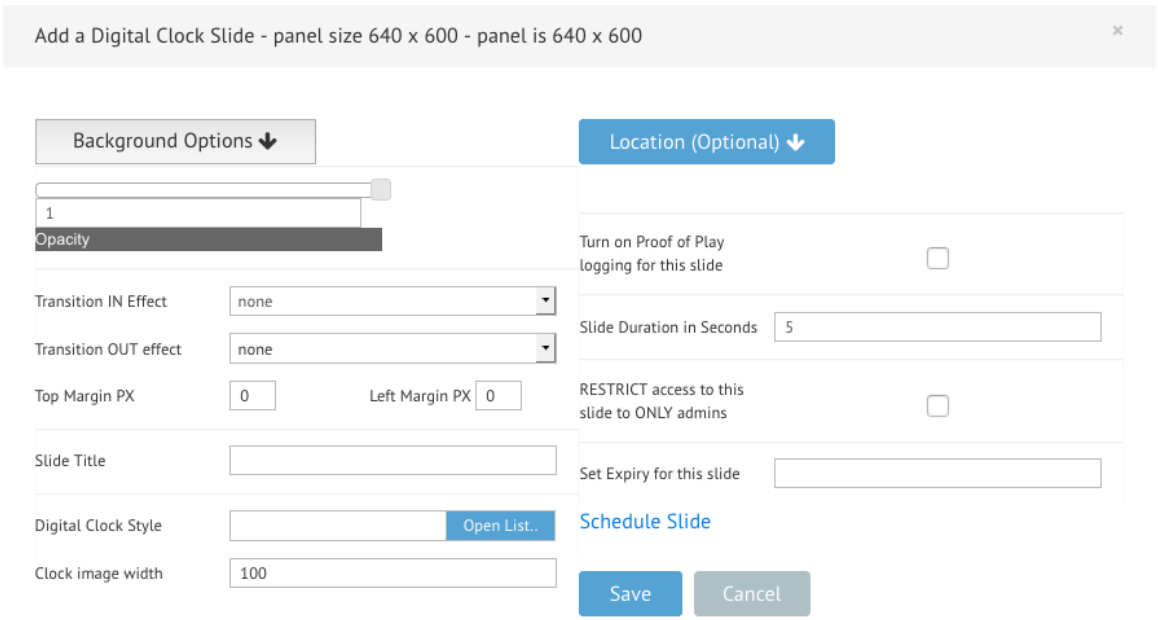
You can add an animated clock to any of your shows that can be programmed to reflect the time in your location.



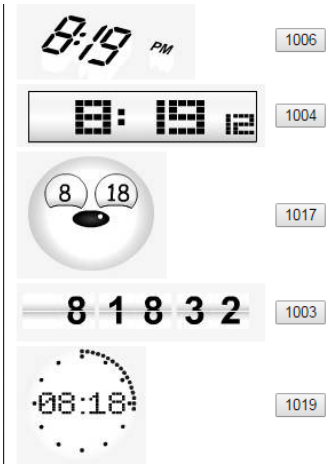
You will need to provide the Continent, Country, Province or county, city for the location that you want to show time for. To pick a clock style you can click on the 'Open List' button next to the analog clock style input box. This will open a new window and show you a list of about 15 different analog clock styles. You can enter a background color for the clock itself, as well as the background color for the whole slide. Enter a duration and optionally, schedule the slide. Select the **Open List** button next to Analog Clock Style to select from various styles of analog clocks.

Digital Clock (requiring Flash)

You can also add a digital clock to the Show if you wish to show time on your digital signage display.



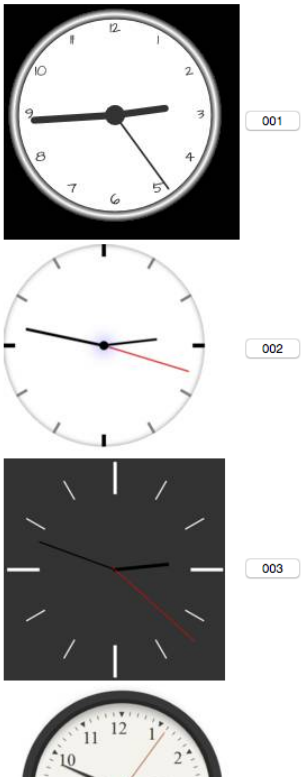
You will need to provide the Continent, Country, Province or county, city for the location that you want to show the digital clock time for. Select the **Open List** button next to Digital Clock Style to select from various styles of digital clocks.



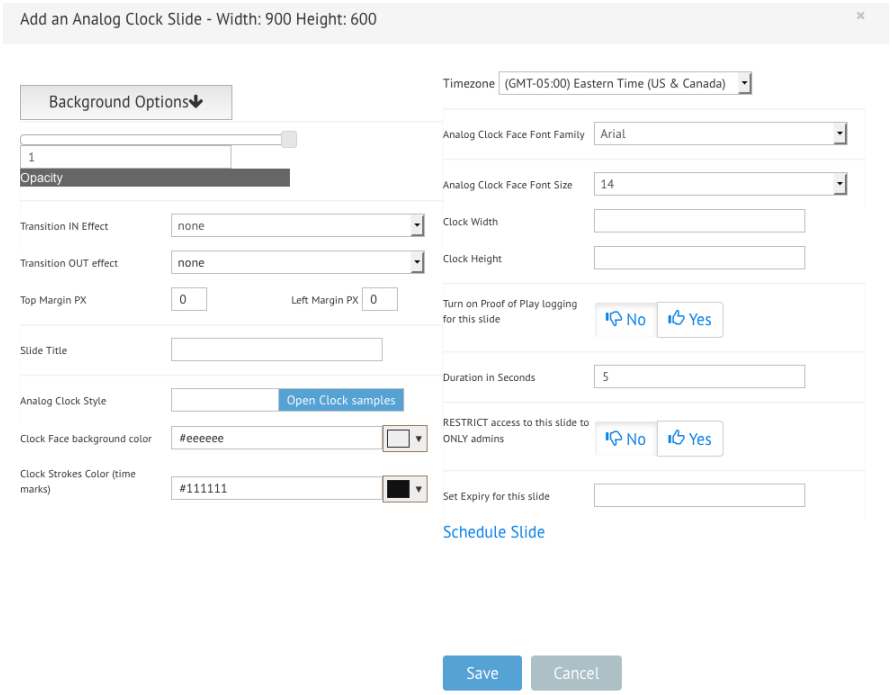
You can enter a background color for the clock itself, as well as the background color for the whole slide. Enter a duration and optionally, schedule if required.

Analog Clock Widget (non Flash

The non-Flash based analog clocks are similar to the Flash clocks mentioned above, the difference is that the analog clocks do not require the Flash plugin to be installed. Here is a screen shot of the available Analog clocks:



As is the case for the other analog clocks you can enter a time zone for the clock, specify the font colors, clock size, background options and specify the dimensions of the clock as well.



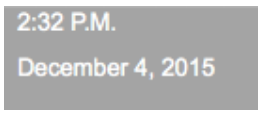
Digital Clock Widget (non Flash)

The Digital clock options for non-Flash based code offers a choice of designs for your show.

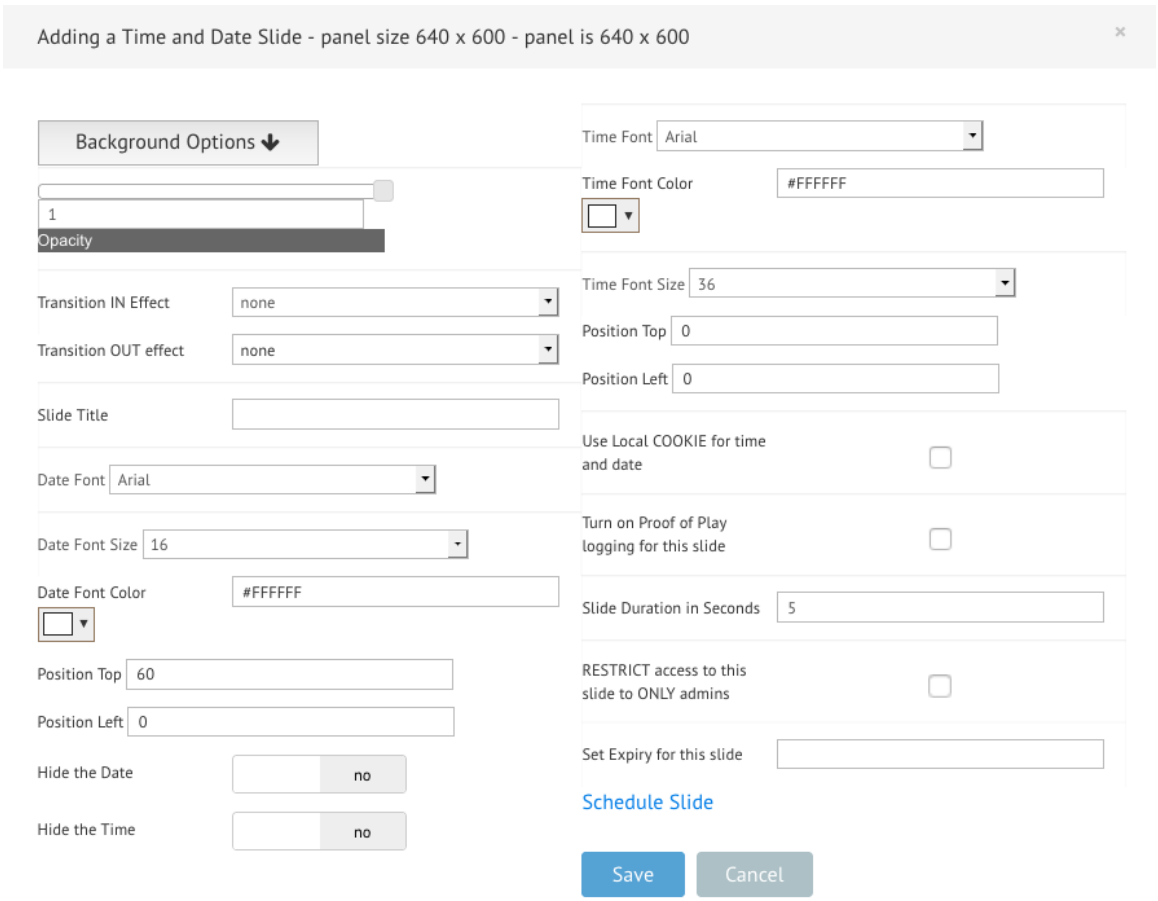
As is the case for the other digital clocks you can enter a time zone for the clock, specify the clock face colors, font size and family, clock size, background options and specify the dimensions of the clock as well.

Time and Date Widget

The Time and Date widget is essentially a text based widget that will show the current time and date as two line items. Here is an example:



You can specify the text attributes for both the time and date fields, such as the font size and color. You can also specify exactly, the location that each of the two text lines will appear in the slide. You can also select a background color, change the duration and optionally, schedule the slide.



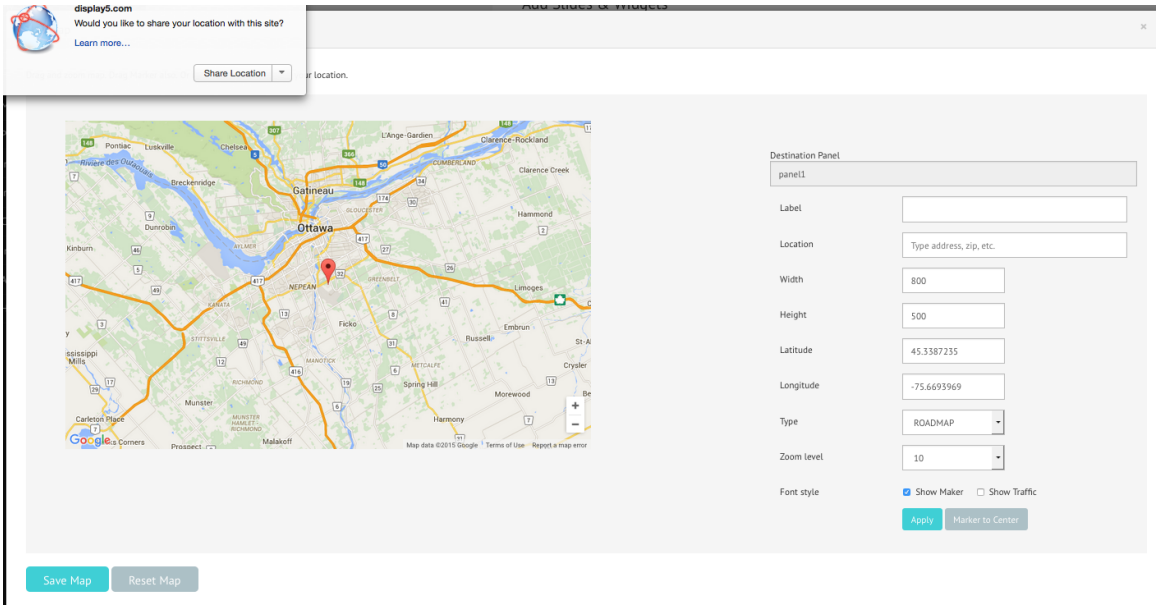
This widget also allows you to selectively turn on and off the clock or date from the view , so you can for example elect to only load the clock. The option radio button for 'use COOKIE' is designed so that you can simply check this and the player that is playing the clock will then determine which time to show , based on the timezone that was selected for the player. You have options for transitions in and out for this slide as well as the option to add a background image.

Other Widgets

Google Map Widget

The “Google Map” widget is a sophisticated map builder for your Show that offers powerful options to customize your map view. For this widget to work the players that are showing this slide must have Internet access.

Select the add button to create a Google map and you will be taken to the slide creation window which is shown below:



The first thing to note is the pop up box (top left) that is asking permission to set your current location on the map. If you intend to use your current location as your map, then click on the share location button in this popup. If you do not want to use your current location, then just close the popup.

In this map setup window, you will note that there is a map window to the left, which will show a preview of the final map you will save in the slide. You may find that if you are adding a map to a large panel then not all of the map is visible in this window on the left hand side. You will need to scroll around within this window to see the full map if it is bigger.

You can start by typing in a location in the Location input field. You can enter any address or postcode, e.g. Time Square, New York – and the map will center on that location. You can zoom in and out on the map using the map zoom pull down menu, or you can use the map controls in the bottom right of the map window in the left side preview panel.

You can add a centered label on the map by typing some text into the Label input field in the right window. If you leave this blank, then no label will be shown. You can also turn on the Google Maps Marker by clicking the radio button "Show Marker" at the bottom right and then hitting the **Apply** button.

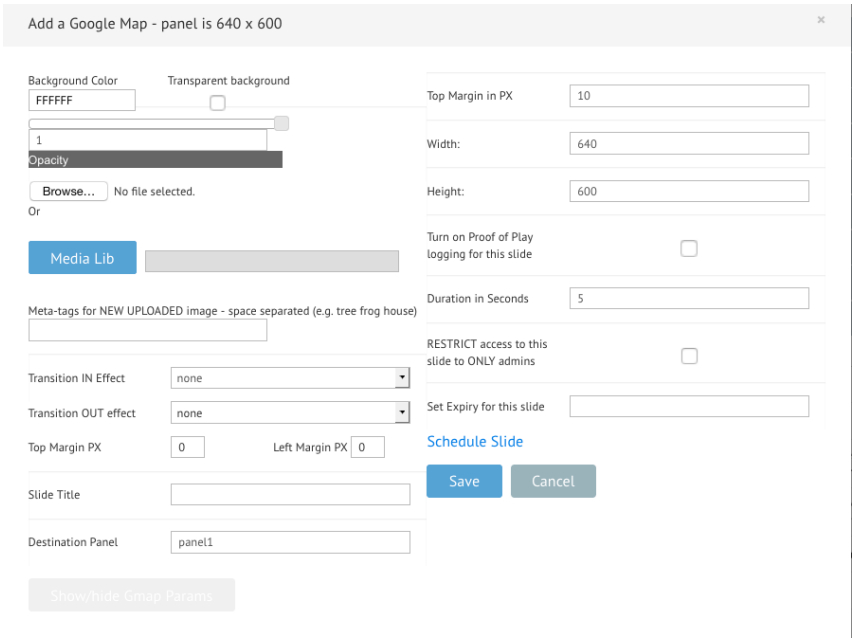
To pick a map style you have a few choices. In the drop down list for Type, you will see "ROADMAP", "SATELLITE", "TERRAIN" and "HYBRID". Experiment with these map types to find one that suits your needs.

You can also overlay up-to-date traffic information on to your map by checking on the **Show Traffic** radio button on the bottom right hand side of the window. Always remember to hit **Apply** button once you make any changes and the map on the left hand side will update to reflect those changes.

If you know the Longitude and Latitude Coordinates, you can enter these into the Longitude and Latitude input fields in this window.

Finally, you can set the height and width for the final map in the slide (default is the panel size) in the corresponding input fields in this window.

Once you are happy with the map configuration, and you have applied all your changes, you can click the **Save Map** button on the lower left hand side of the window and it will open the standard slide create window that looks like this:

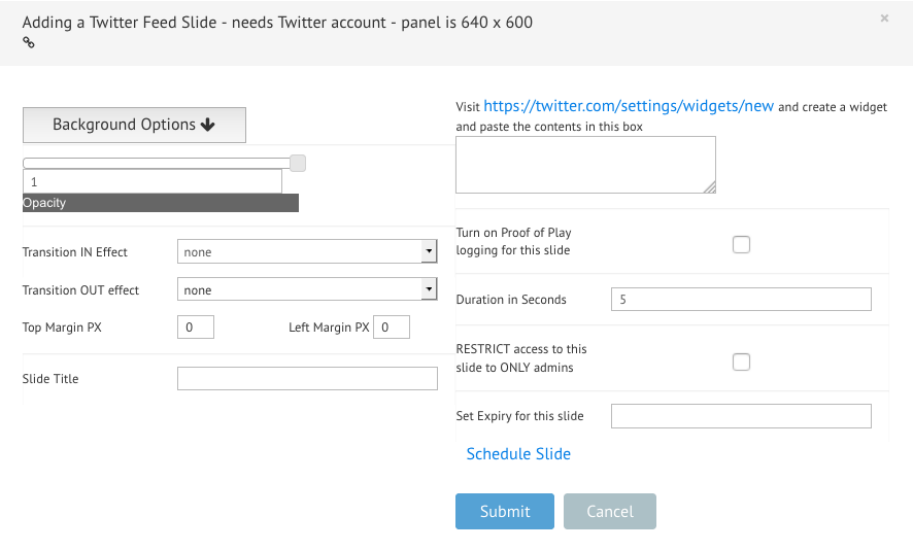


The **Show/Hide Gmap Params** button will reveal the actual script code for the final map image that you have created. Only edit this if you understand the workings of Google maps.

Now give the slide a name, duration, a background color and set the overall dimensions of the slide in the panel - the default dimension values for the panel are the panel size.

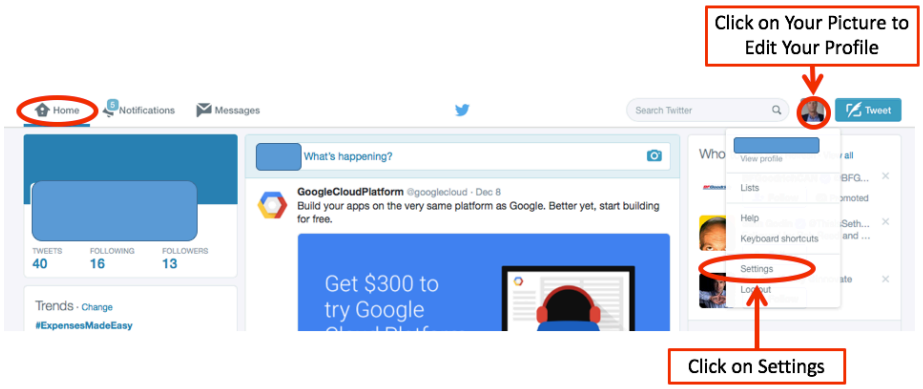
Twitter Static Widget

This is the most basic of the Twitter feed widgets. The widget does not move or animate the tweets – the tweets are static once they are displayed.

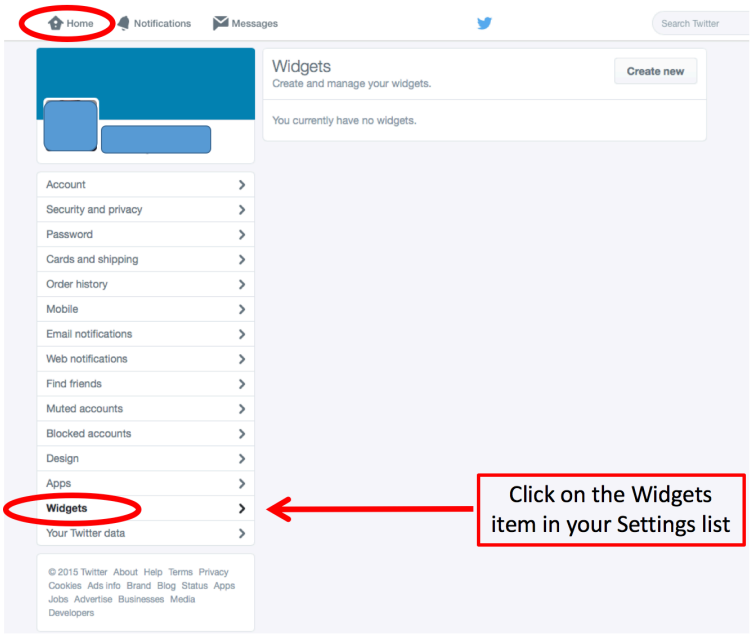


To add this slide type you must have a Twitter account and access the widget section of that account. Here is how:

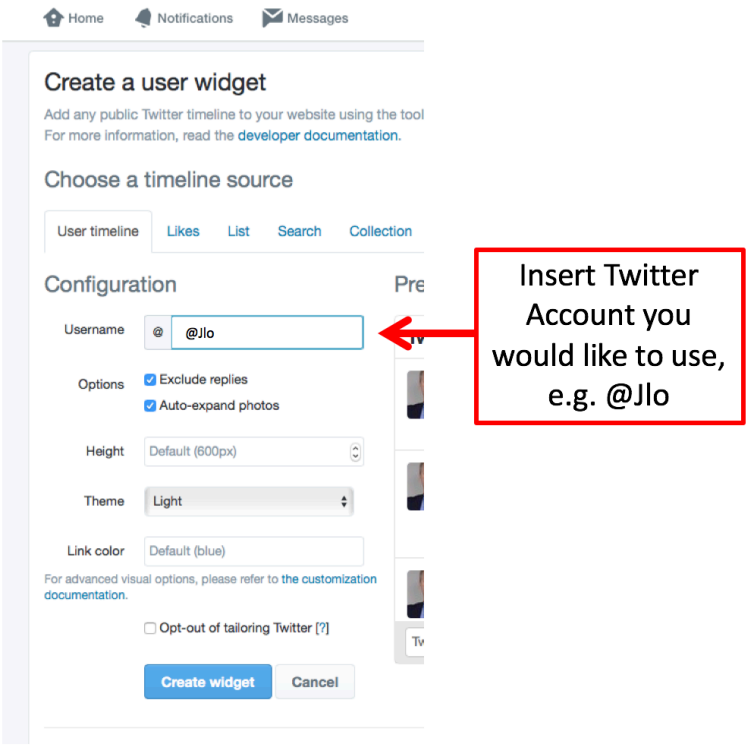
Go to your Twitter account home page. Click on your picture in the top-right and you will get a drop down menu. Click on the Settings item. See example below:



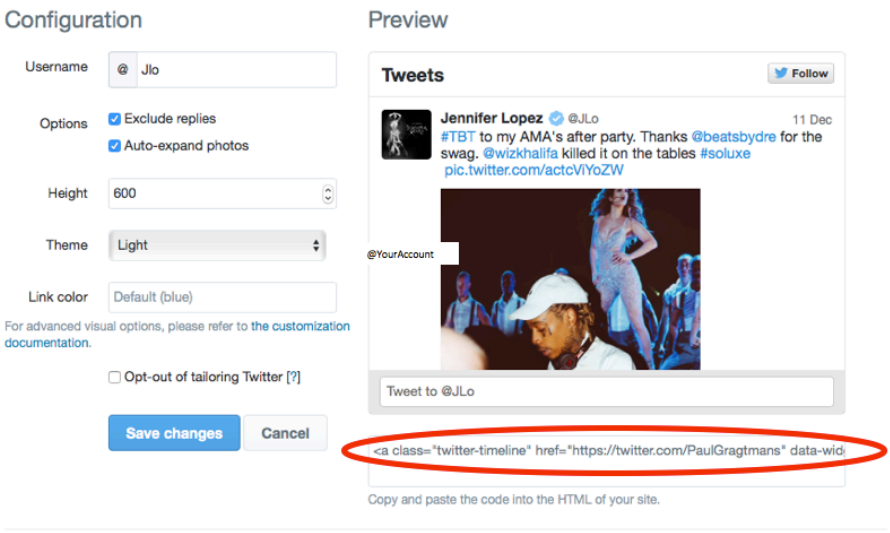
A list of Settings items will appear on the left side as in the example below. Click on the item that says **Widgets**. See example below:



Clicking the **Widgets** item in the list will bring you to this webpage. Insert the Twitter account that you want to display in your Show. In this example we are using Jennifer Lopez' Twitter account.



Then click on the **Create widget** button. You will then see this window:



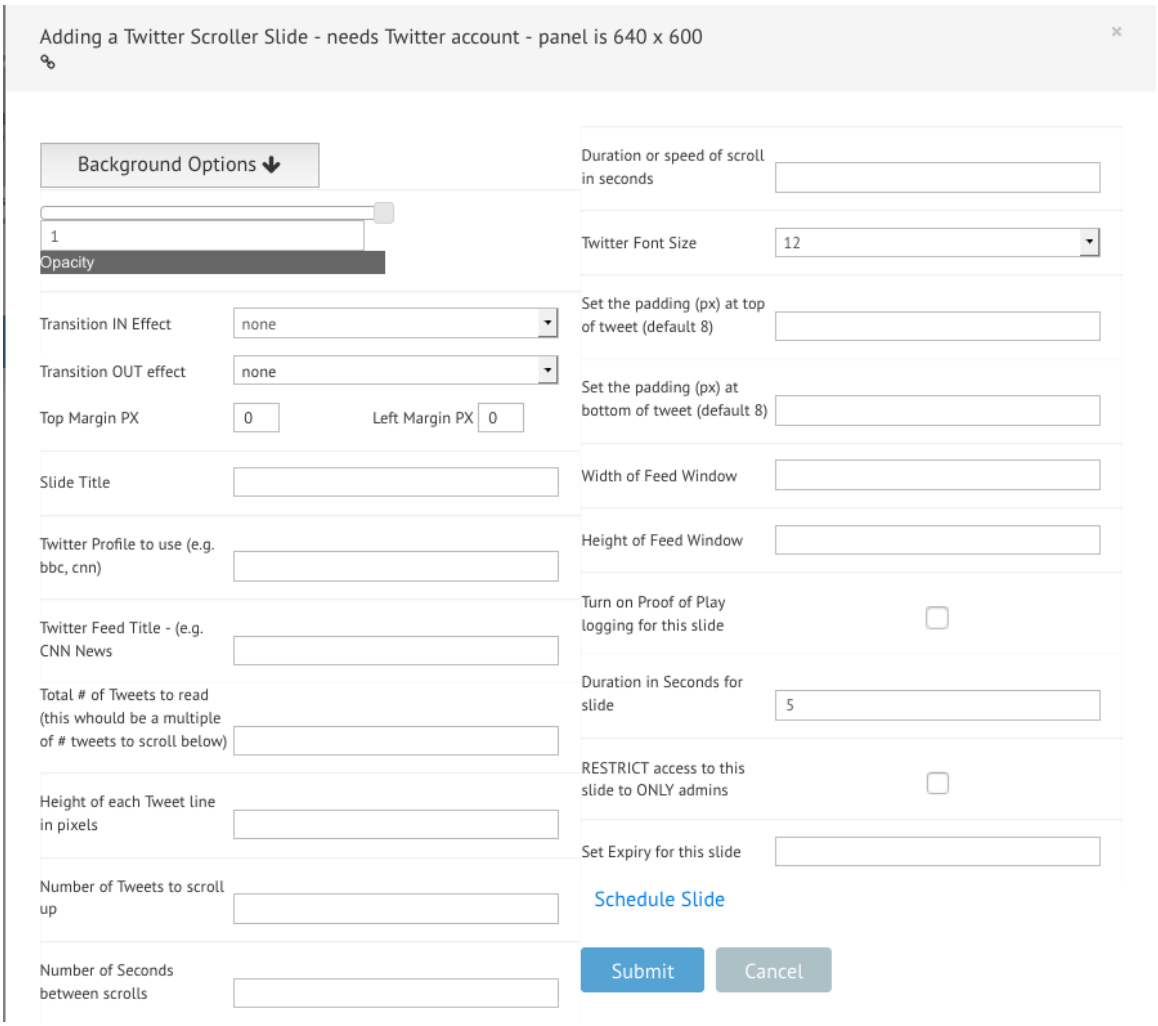
Copy the code that is circled in RED. Then click on **Save changes**. Now paste the code into the appropriate input field in the Display 5 "Static Twitter" window.

Then set the background color, the duration and optionally, schedule the slide.

The resultant Twitter widget will only update if a Tweet is added to the account. Internet access is required on the player for this widget to work.

Twitter Feed Scroller

The Twitter Feed Scroller is a much more versatile Twitter widget that is animated and gives you a lot more control over the Tweets displayed and their behavior.



This widget uses a Twitter API account and authorization through Display5 in order to retrieve the Tweets for any account so you do not need to access your Twitter account to create a Twitter widget. You simply need to provide a Twitter profile name in the input field, a Twitter feed account source, e.g. CNN, BBCnews, etc. You then need to specify the total number of Tweets to read from the account. You can make this 40, 50, 100, etc. – this will be the total number of Tweets that the widget will scroll through. Next you need to specify the number of Tweets that will scroll up each time. Typically, you would set this to a low number so that there are always a number of Tweets that stay on screen for longer. Set the delay time between each scroll event in seconds – e.g. 10, then set how long you want the scrolling to take – typically this would be 1, 2 or 3 seconds maximum.

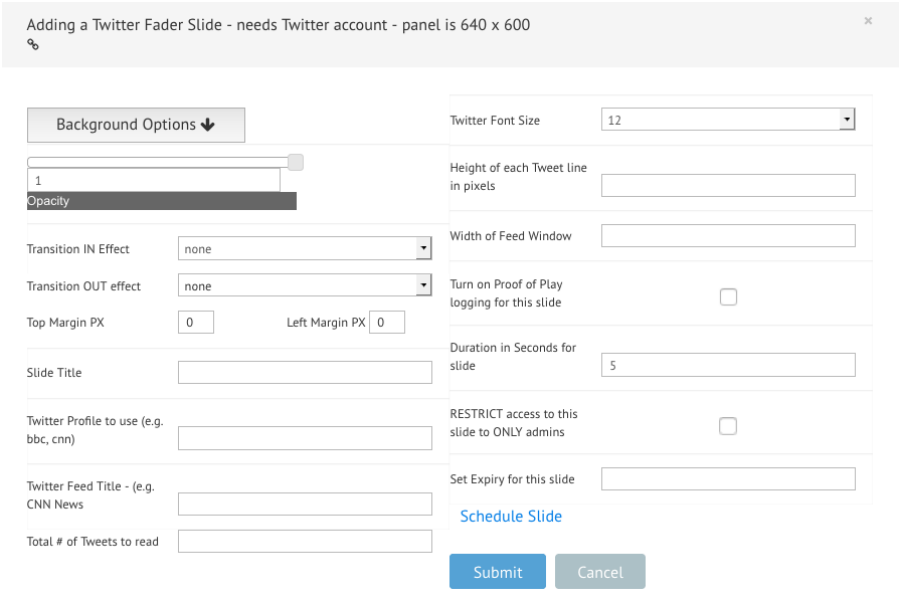
You then need to enter the width of the feed window – we recommend you make this smaller than the width of the whole panel. And finally set the height of the feed window. Again set this to a lower size than the height of the panel.

You can also set the space above and below each Tweet to provide some separation in the between the text of each Tweet. You can also set the default font size for all

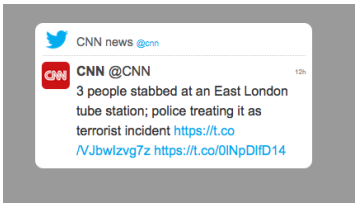
the Tweet's text. Then set a background color, the slide duration and optionally, schedule the slide.

Twitter Feed Scroller Fade in and Out

The Twitter Feed Single fade in and out Twitter widget is designed for a smaller panel where only one Tweet will be visible at a time.



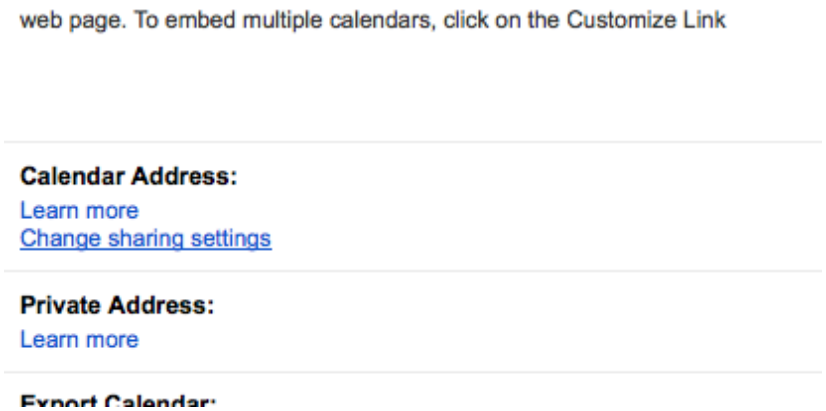
You can specify the account that you wish to view, for example CNN or BBCNews, and the enter a title that will appear at the top of the feed widget.



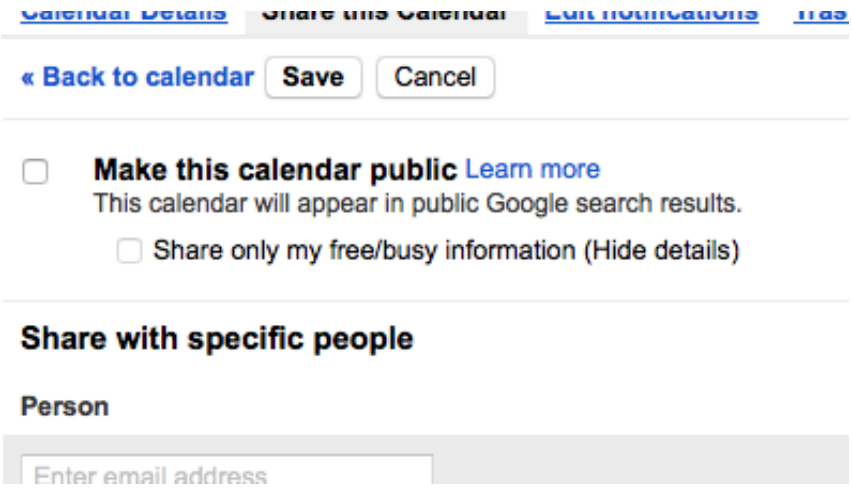
Enter a background color for more contrast and specify a font size that will be visible in your Tweet panel. You can also adjust the height of the Tweet window and also the width of the Tweet panel. Always make this smaller than the overall panel size. You can also enter duration and optionally, schedule this slide.

Google Calendar Widget

To use the Google Calendar widget you must first make sure that the calendar you are going to show is set to public in the Google account. To do this you need to go to calendar.google.com and then select the Change Sharing Settings on the left hand side menu

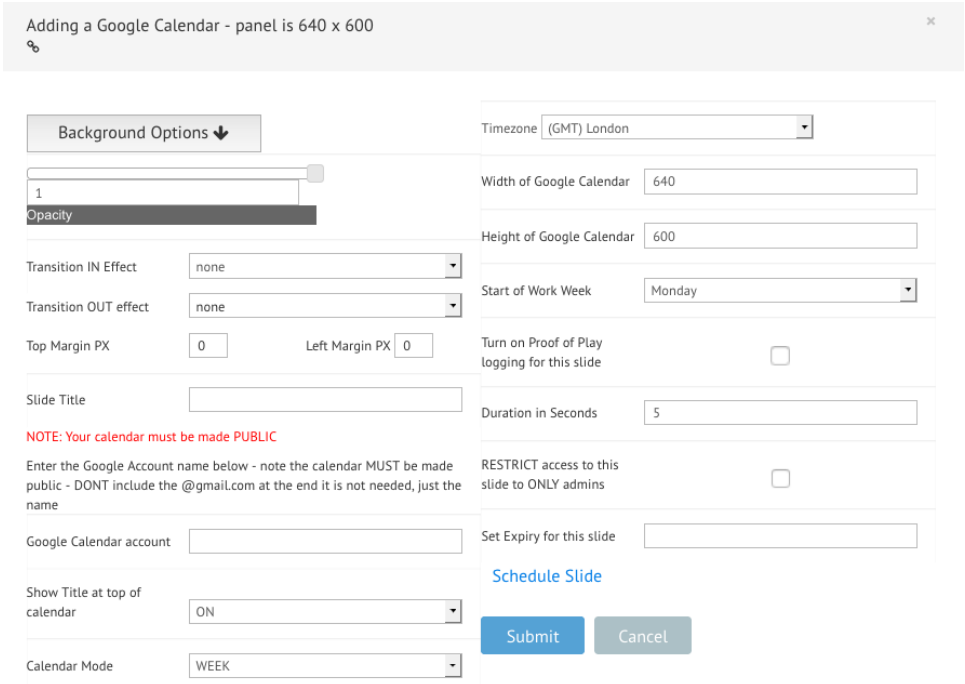


This will then open a new window – where you will be able to turn on the public calendar option (radio button) – see the image below:



Once you have made this calendar public you will then be able to add the calendar to the Display5 show using the Google Calendar widget.

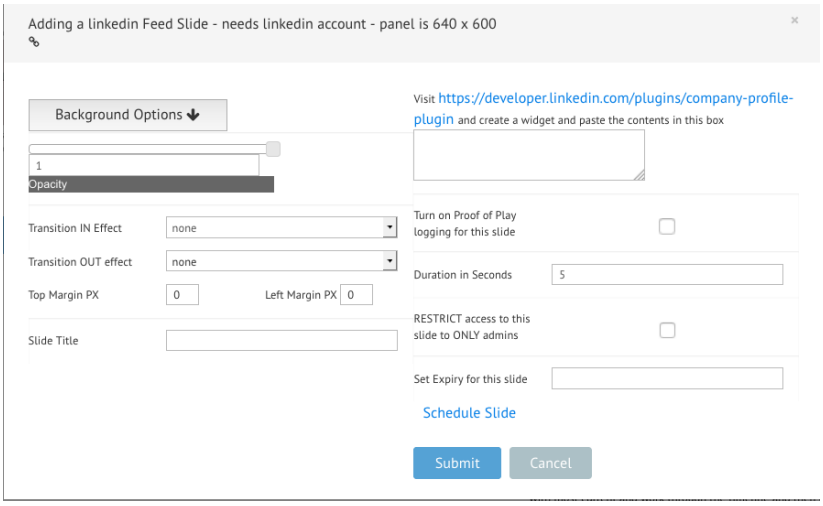
Enter the account name for the calendar in the Google Calendar account input field. You DO NOT need to add the @gmail extension. Next you can select to show or not show the title of the calendar.



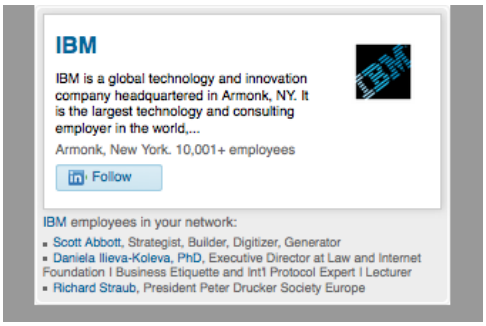
The Calendar mode will display a daily, weekly or monthly view of the calendar. The "Timezone" field, ensures that you are showing the correct times and dates in the panel of your Show. You can also specify the start of the week (Mon, Sun, Sat) for display. The width and height allow you to adjust the calendar to fit the destination panel. You can add a background color, set the duration for this slide and optionally, schedule the slide.

LinkedIn Widget

You can add a LinkedIn Business profile page to your Display5 show using this widget. You will need to access the LinkedIn account in order to obtain the embed codes for the slide. See page 68 for an explanation of embed codes.

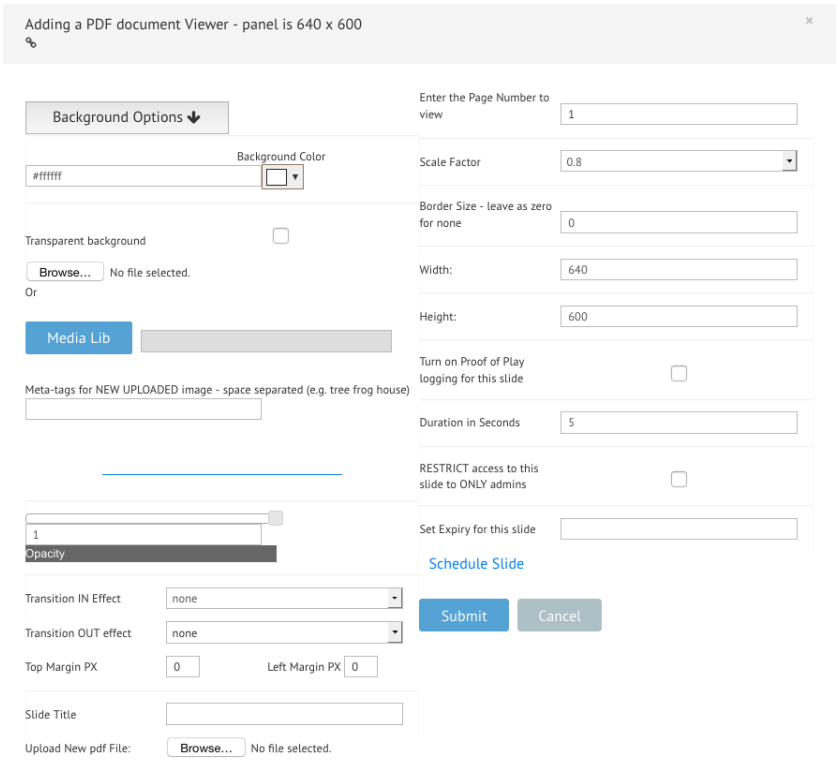


Enter the embed codes from the LinkedIn widget page. You can get to embed code by clicking on the link as shown in the image above. Once you have the embed code, paste it into the slide contents window in this create window. You can change the background color, add a duration and optionally, schedule this slide.



PDF Widget

Adding a PDF document to Display 5 is very simple. The PDF document will upload to the Display 5 server so that it is locally cached.

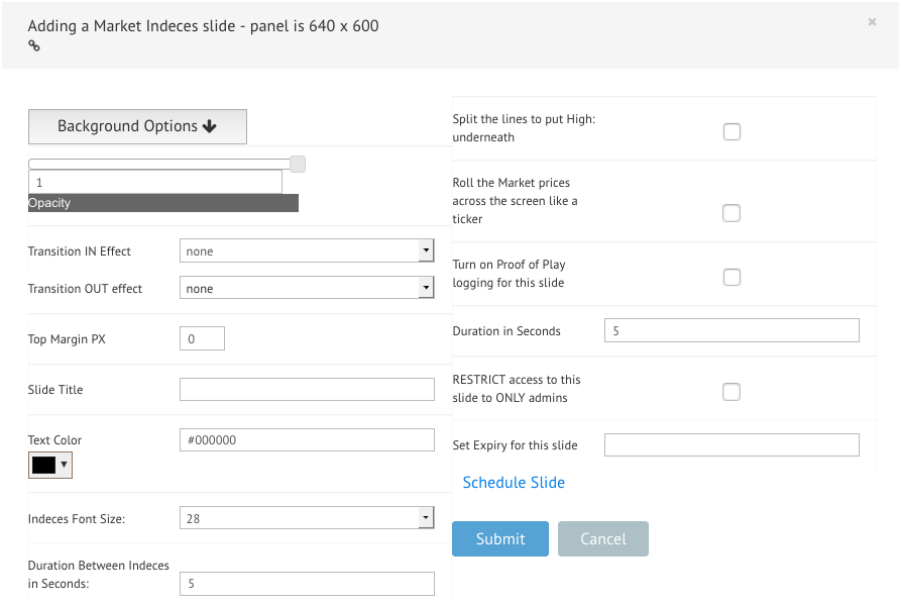


You can enter the slide title and a background color and then browse to the PDF file that you want to show. A powerful feature of the PDF widget is that you can specify the actual Page in the PDF doc that you want to show. So if you wanted to show more than one page you could create several PDF widgets that show each page of the PDF file that you want to display. Set a duration and optionally, schedule this

slide as well. You can also set the zoom factor for the document to allow it to better fit.

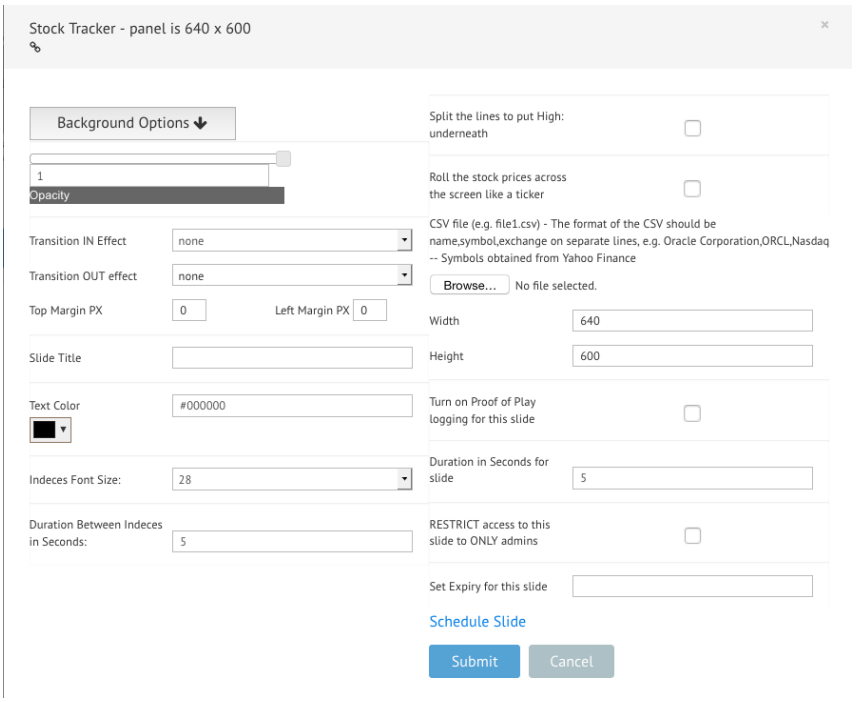
Markets Slide

The Markets slide is a nice widget that will show the top 15 markets and their 20 minute delayed quotes. The quotes come from the finance.yahoo.com service and you have the option to either scroll the quotes across the screen like a ticker tape, or to fade from one to the other.



Stock Widget

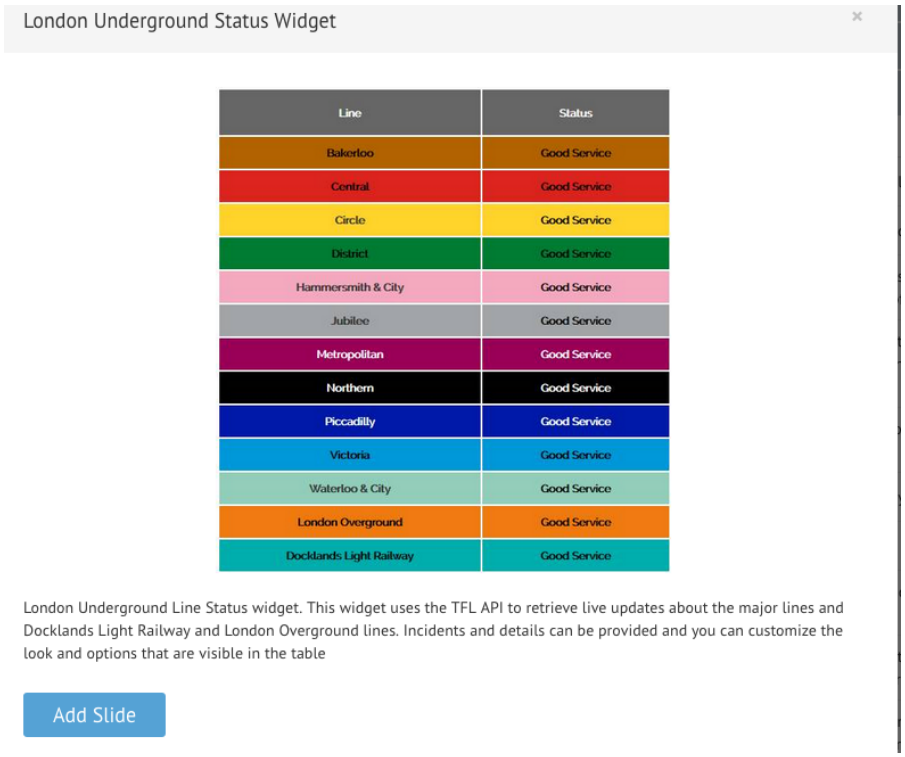
This is a new slide from Display5 that allows you to create your own 20 minute delayed price index for any stocks that you are following. The widget actually uses a CSV file that you need to upload to the show , that will contain the stocks that you would like to follow. The prices come from the Yahoo Finance service and as long as you have the correct symbol the Yahoo service will determine the exchange and price quote for you:



The stock prices can be rolled across the screen like a ticker or can page in and out working through the list you provide. CSV file (e.g. file1.csv) - The format of the CSV should be name,symbol,exchange on separate lines, e.g. Oracle Corporation,ORCL,Nasdaq -- Symbols obtained from Yahoo Finance.

TFL Underground Widgets

This is a new slide from Display5 that allows you to create a London Underground status widget(s). You can specify options to turn on and off the details of any incident, select to use TFL colors for the background of lines, and whether or not you wish the see the incident time and date in the table



The widget provides live updated line status for the entire London Underground network. Incidents are reported in a table format, or in a ticker format in the case of the second design:

London Underground Line Status widget. This widget uses the TFL API to retrieve live updates about the major lines and Docklands Light Railway and London Overground lines. Incidents and details of any disruption will show in a color coded ticker at the bottom of the table, the icons are color coded for each line, disruption will show as a red cross on top of the icon, multiple messages can run across the screen one after another

Add Slide

TV Widgets

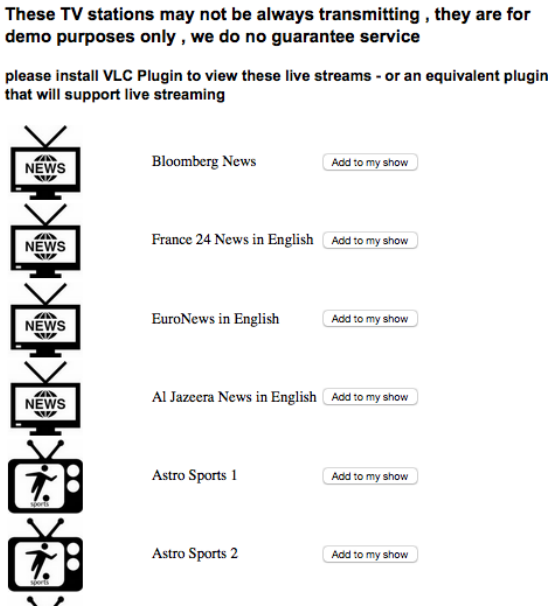
Display5 is able to support live either a TV feed (e.g. Cable) or streaming TV video in a panel of a Show. In this section we are only going to cover the live TV streaming over the Internet – an IPTV stream. This built in capability allows us to provide a sample of various free live video sources that are being broadcast on the public Internet.

PLEASE NOTE – we do not guarantee these free IPTV streams are always broadcasting and we are not a licensed broadcaster of any of these channels. If you wish to display these channels and feeds in any public place will need to make your own determination regarding the relevant broadcast permissions for these channels.

Please see Display 5 TV guide for information on connecting live Cable or Satellite TV stream to a Show panel.

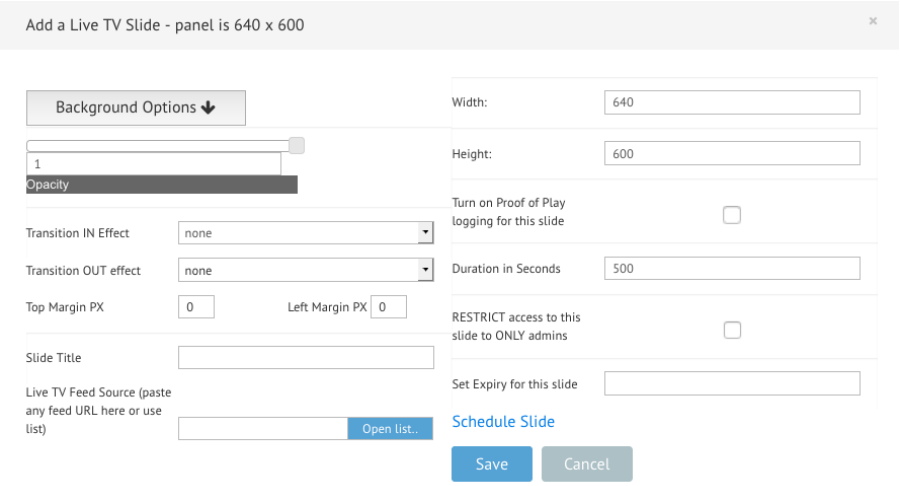
Live TV Widget

Adding an IP source TV feed is very simple. If you have your own internal broadcast URL then you simply need to paste the URL into the feed source input field. Alternatively, you can click on the "Open List" button beside the "Live TV Source Feed" input field, to bring up a list of free public Internet channels, and then select the one you want from the list. The channel URL will automatically be copied from the list to the input field.



Once you have selected a channel and the URL is pasted into the Live TV Source Feed input field, you can now specify the background colour, width and height of the

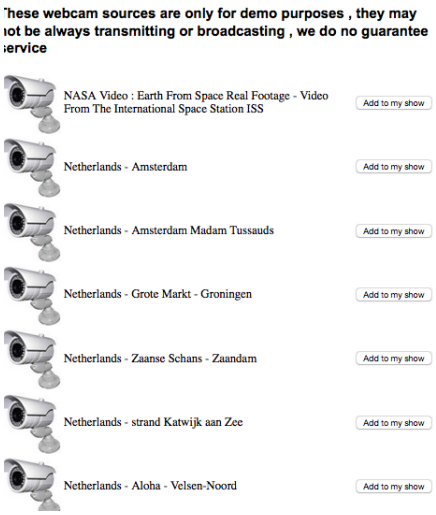
feed, the duration that this feed will stay on screen and optionally, schedule the slide.



Once you save the slide and preview the broadcast you may need to wait a few seconds for the stream to start as the panel must cache a few seconds of video before rendering the video.

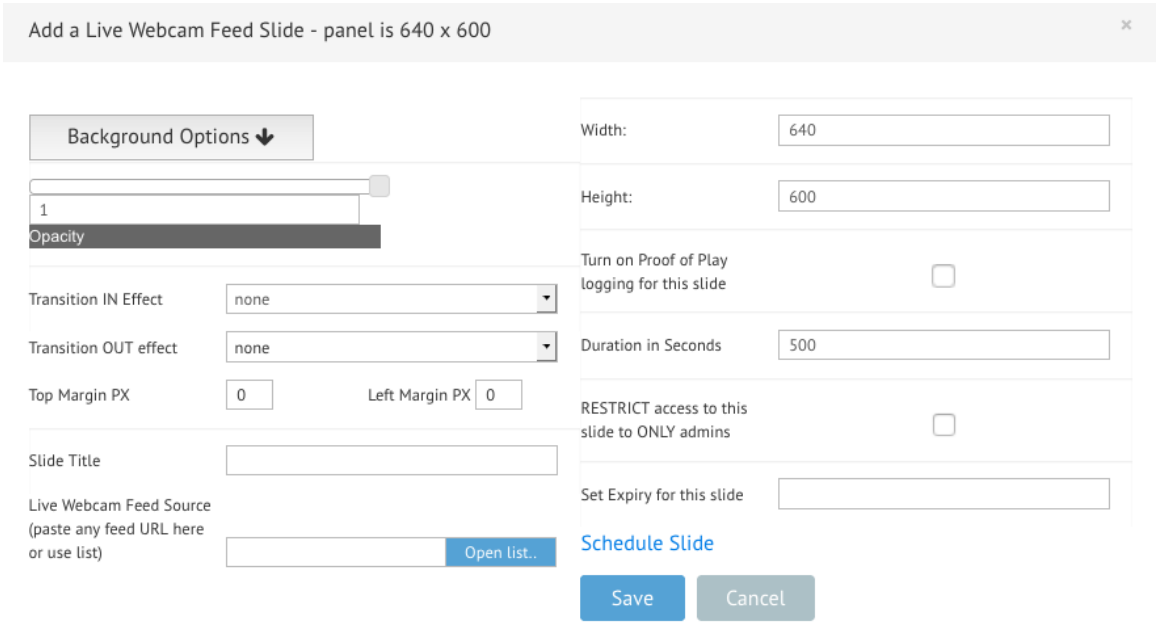
Live Webcams Widget

Adding a source for a live webcam feed is also very simple. If you have your own web cameras set up for streaming, then you simply need to paste the URL into the Live Webcam Feed Source input field. Alternatively, you can click on the **Open List** button alongside to bring up a list of public webcam sources and then select the one you want from the list. The webcam source URL will automatically be copied from the list to the input field.



Once you have selected a Webcam source stream and the URL is pasted into the "Live Webcam Feed Source" input field, you can now specify the background colour,

width and height of the webcam feed, the duration that this feed will stay on screen and optionally, schedule the slide.



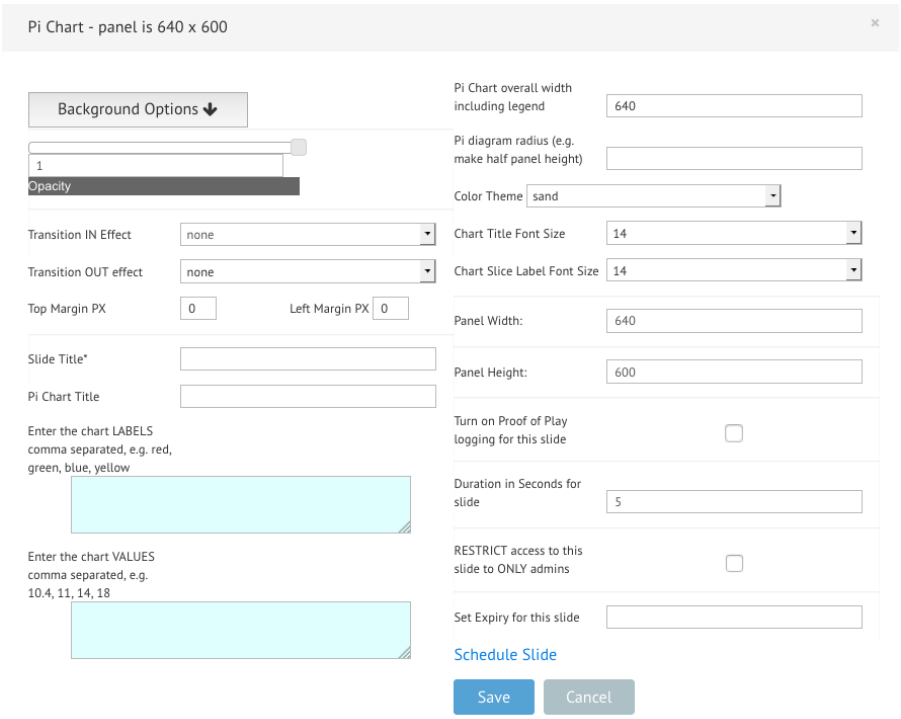
Once you save the slide and preview the broadcast you may need to wait a few seconds for the stream to start as the panel must cache a few seconds of video before rendering the video.

Charts and KPI Widgets

Display5 has a powerful built in chart rendering engine, which is an open source engine that provides compelling statistic rendering tools.

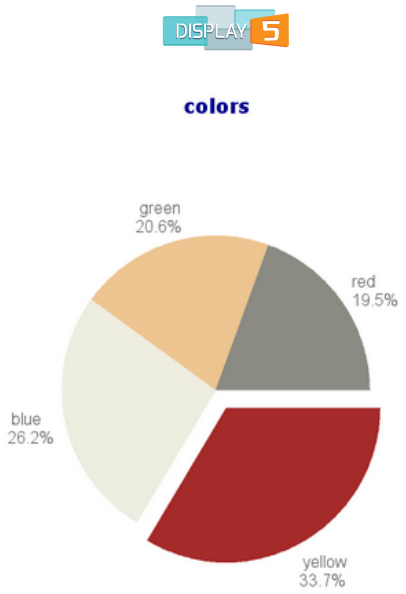
Pi Graph Widget

To add a Pi Chart, enter the values and labels for each Pi slice and then adjust the colors, labels, font sizes and chart size settings.



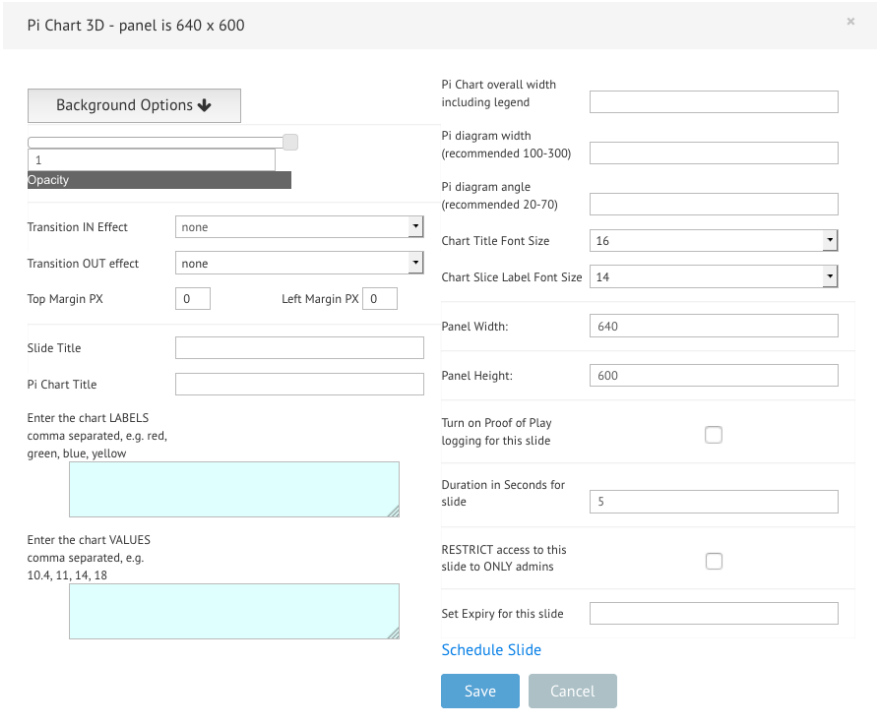
Give your chart a title, which will appear in the chart slide, enter the labels that you want to show for each slice - comma separated. Enter the values for each slice, comma separated (e.g. 123.12, 312,4, 244.22, 54). You can enter decimal point values if you wish as well. Then enter the overall width and select a scaling or Pi Diagram width as well as the color theme that you wish to use. Add a duration and optionally, schedule the slide.

You can also set the font sizes for both the title of the Pi chart, as well as the title for each slice. You will note that the labels will appear alongside each slice with the automatically calculated percentage as well.



3D Pi Graph Widget

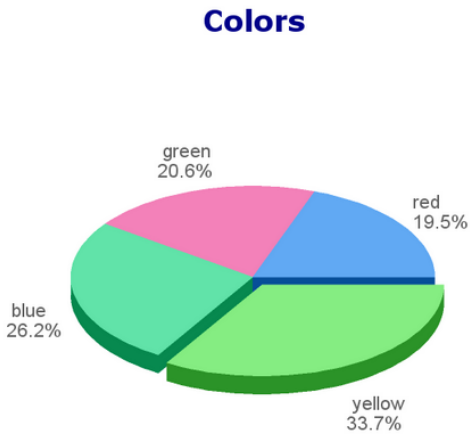
To add a 3D Pi Chart, enter the values and labels for each Pi slice and then adjust the colors, labels, font sizes and chart size settings, as well as setting the angle of view of the chart itself.



Give your chart a title which will appear in the chart slide, enter the labels that you want to show for each slice, comma separated. Then enter the values for each slice, comma separated (e.g. 123.12, 312,4, 244.22, 54). You can enter decimal point values if you wish as well. Then enter the overall width and select a scaling or 3D Pi

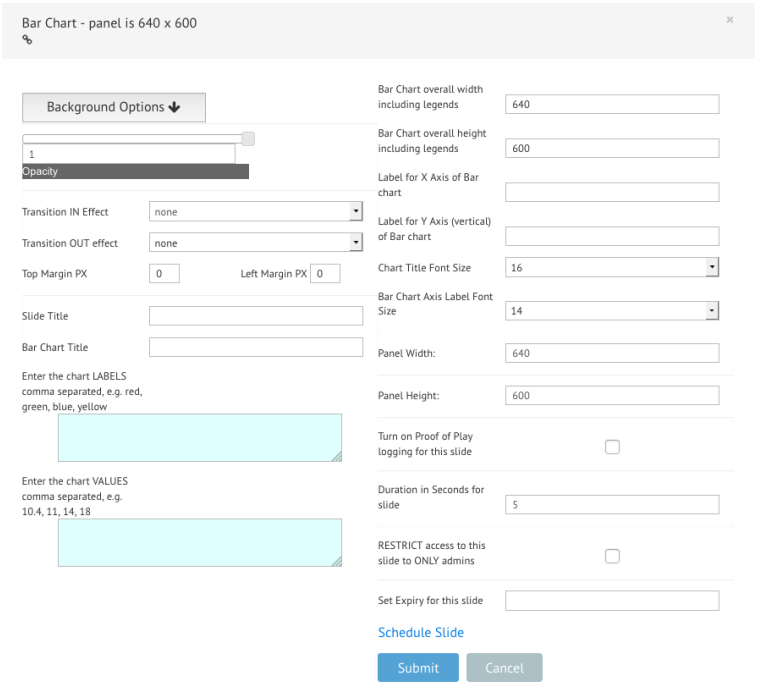
diagram width as well as the color theme that you wish to use. Also now enter the angle of view (20 -70 degrees is recommended). Add a duration and optionally, schedule the slide.

You can also set the font sizes for both the title of the 3D Pi chart as well as the title for each slice. Note: the labels will appear alongside each slice with the percentage automatically calculated.



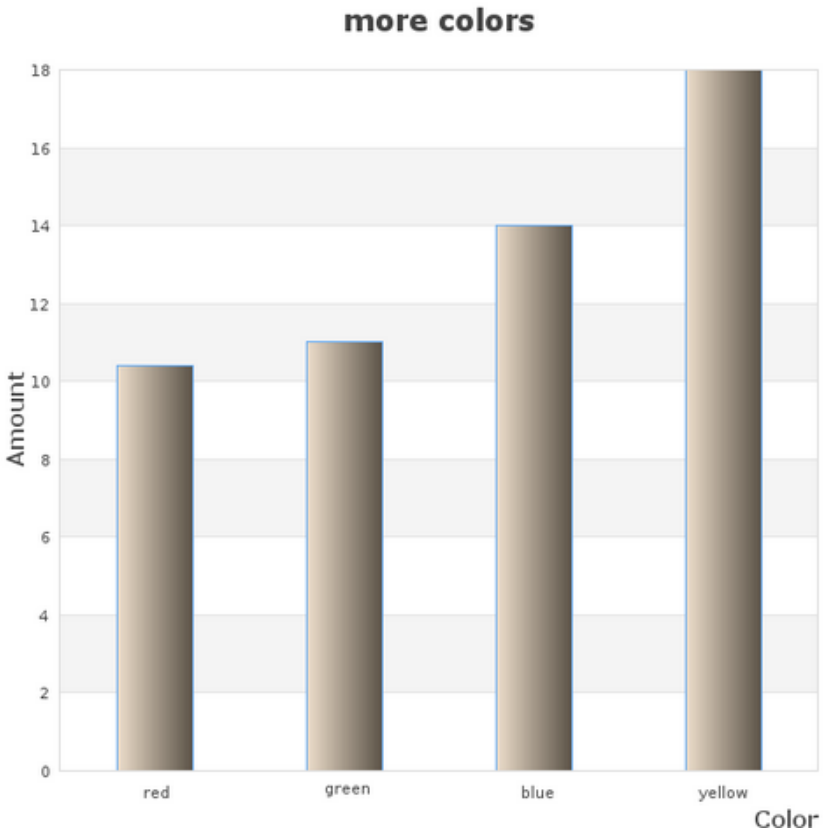
Bar Chart Widget

The "Bar Chart" widget is very similar to the Pi and 3D Pi widgets in that you can enter the values for each bar as well as their labels as comma separated values.



You will also need to enter:

1. The width and height of the bar
2. The labels of the X axis and Y axis
3. Any text you like for these labels
4. Specify the font sizes for the x axis labels and y axis labels
5. Duration
6. Background colour



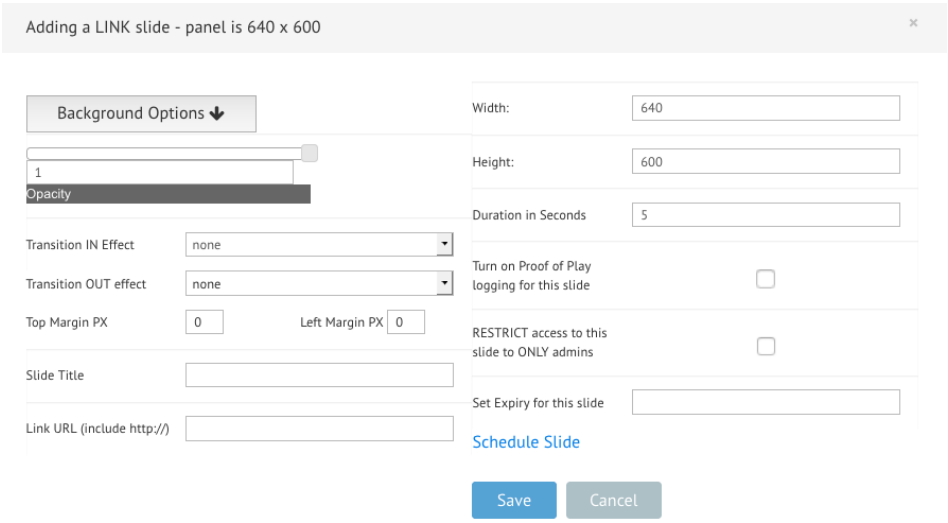
The resultant bar chart will adjust to fill the entire width of the panel and has preset color formatting for the bars.

Links and Embedded URL Widgets

Display5 is a pure browser based application and as such offers tremendous flexibility with being able to embed web code and web links within your shows.

Link Widget

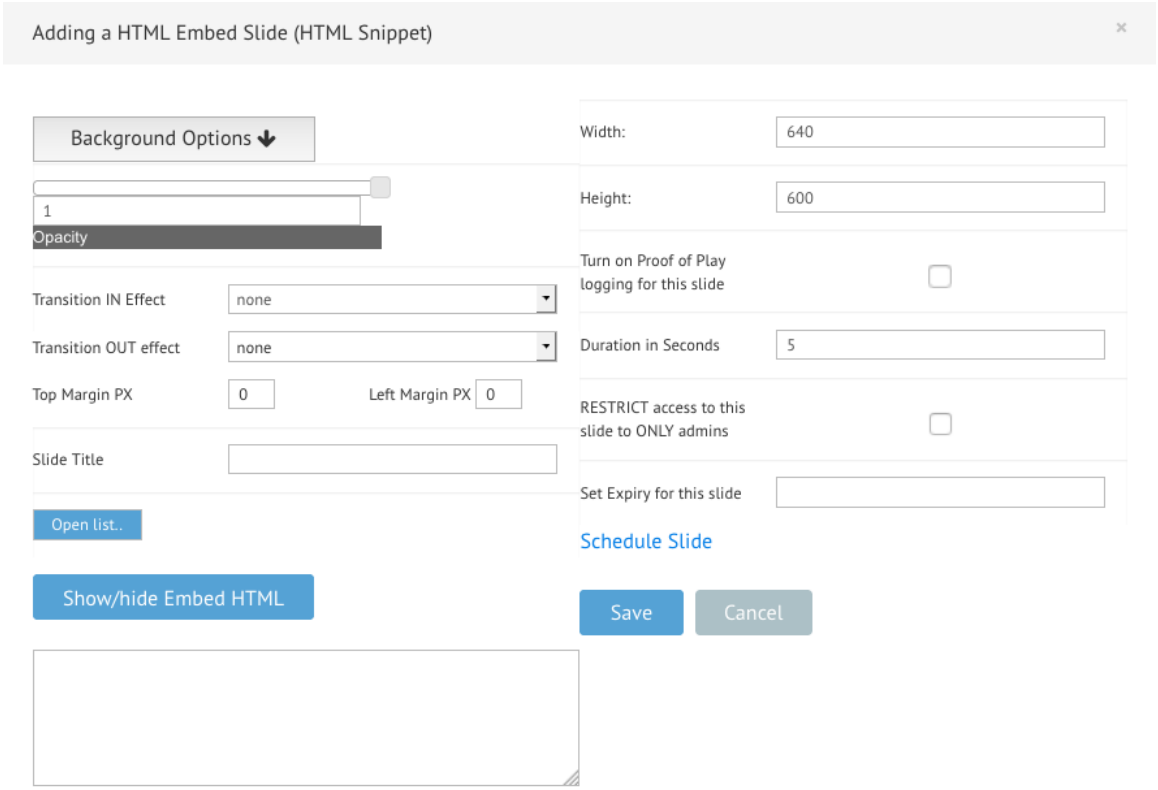
Use the "Link" widget if you simply want to embed a whole web page or website into a panel in your show.



Simply paste the Web address into the Link input field – including the HTTP:// or other site prefix, and then set a duration and background color for the slide and optionally, scheduling the slide. The widget will then open and display the entire web page into the window. Typically, the content from the website will be adjusted to fit the panel size, however you may need to adjust the width and height to find the optimal settings for the web page in the panel.

HTML EMBED code Widget

As well as being to add whole websites to your Shows you can also add a snippet of HTML code as well. This is particularly useful if you only want to embed a widget or a single web component from another site into your Show. The embedded code can be ANYTHING that is supported by the browser: video, animation, tickers, stock feeds, webcams and more. Any site that offers the embed option (Facebook, YouTube, Google Maps, Twitter, etc.) can be added to this slide.



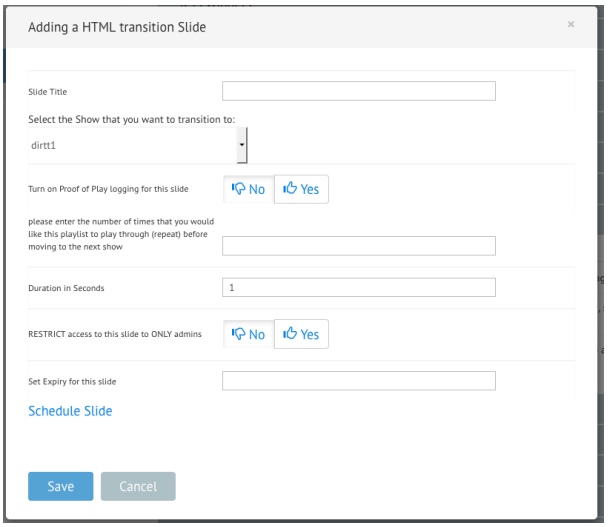
If you already have code snippet, then you can simply click on the show/hide embed button and enter the code directly into the text input field. We also provide you with a range of sample embeds from other websites, such as video feeds, webcams, etc. Click on the "Open List" button to open a set pre-selected embed code items.

NOTE – we do not guarantee and support external feed content, nor do we provide any broadcast license for this content. If applicable, you will need to obtain the relevant broadcast permissions for this information to be displayed in a public area.

You can also set the duration for this slide, as well as the background color and optionally, schedule the slide.

Transition Slide

A transition slide is a powerful slide that can be placed into a play list in any panel and will force the current show to jump to a new show



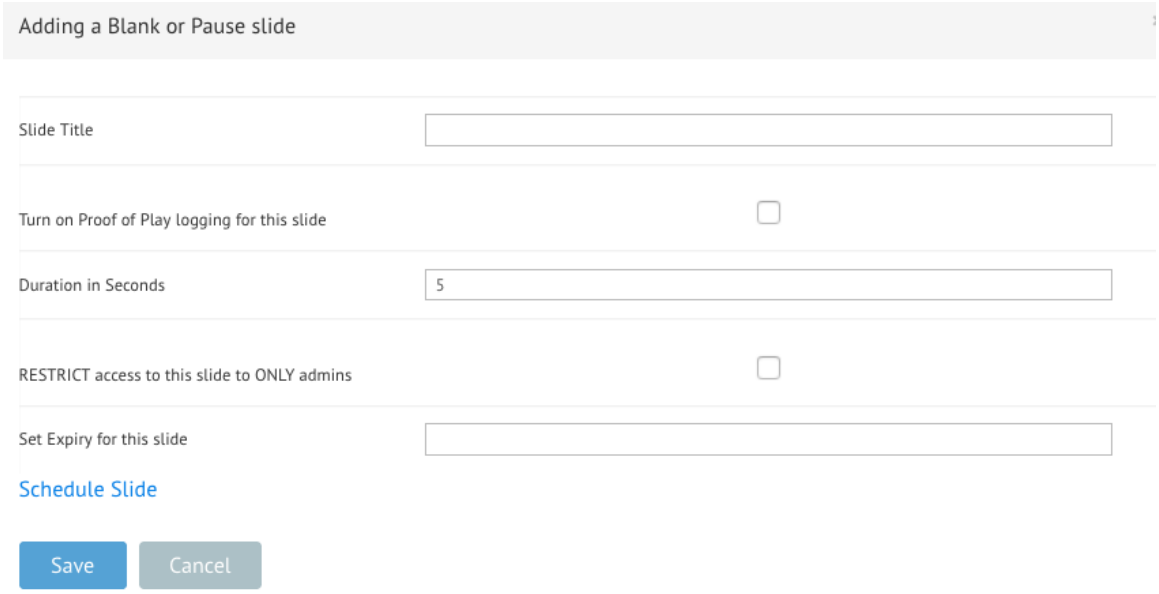
You will be able to pick the show that you want to transition to from the drop down menu and you will also be able to schedule when this slide will kick in . This is especially useful if you want to have the show update to a new one at a specific time in the future. Adding additional transition slide to the next show would then allow you to go back to the previous show , and the transition slide would have then expired and no longer have an effect.

You have the option to enter a number that corresponds to the number of times the playlist completes before the transition will kick , so for example if you set this number to 5 , the playlist will play from beginning to end 5 times before the show transition takes effect, if you then transition back to this show again the counter on the widget will start back at 1 again and keep incrementing. You can also use the schedule capability of Display5 to trigger the transition at a particular time or date as well.

Blank Slide

A very useful widget that you can add to your Display5 Show, is a pause or blank slide. This slide will effectively show nothing on the screen and will add a pause in the playlist of items in a panel.

This is especially useful when using the Free Design Show Creation. If the panel that has the blank slide in it, overlays another panel, the blank slide makes the foreground invisible for the duration of the blank side. For example: On the foreground panel, add a blank slide – set the duration for say 15 seconds and then add a slide with the content that will appear for a few seconds. The slide will then appear and disappear every 15 seconds as the play list cycles. Add as many pause or blank slides as you wish and give them the duration that you require.

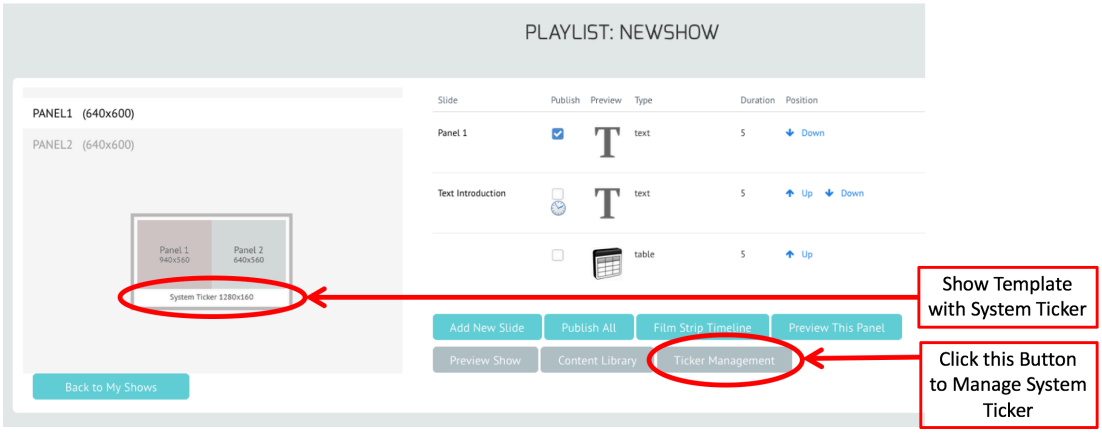

Adding a Blank or Pause slide
Slide Title
Turn on Proof of Play logging for this slide
Duration in Seconds
5
RESTRICT access to this slide to ONLY admins
Set Expiry for this slide
Schedule Slide
Save
Cancel

System Ticker Widget

Display5 provides a System Ticker for some Show templates. A System Ticker is a centrally managed ticker message list, where you can:

1. Create multiple ticker messages
2. Manage the message properties – speed, color, font properties, etc.
3. Change the order of the messages
4. Assign different messages to different Shows

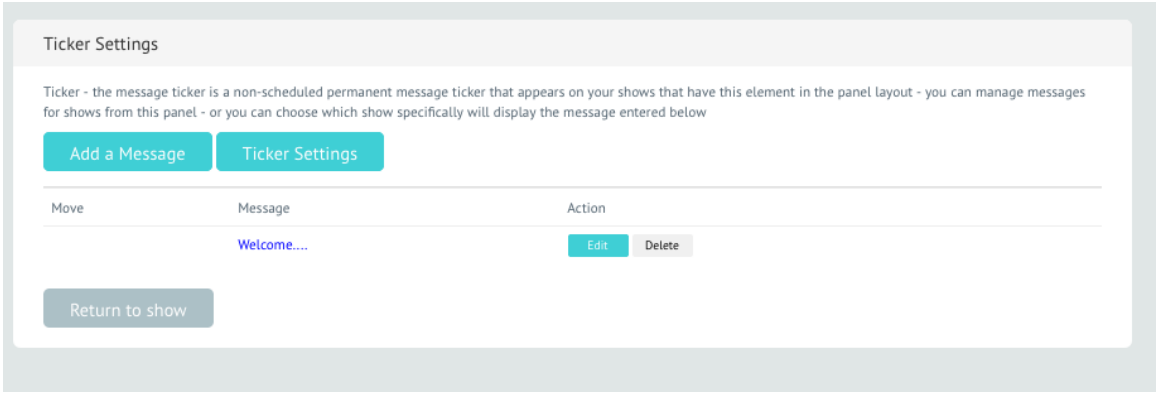
The System Ticker panel is clearly indicated when selecting a "Panel Layout" during the steps you take when you create a Show.



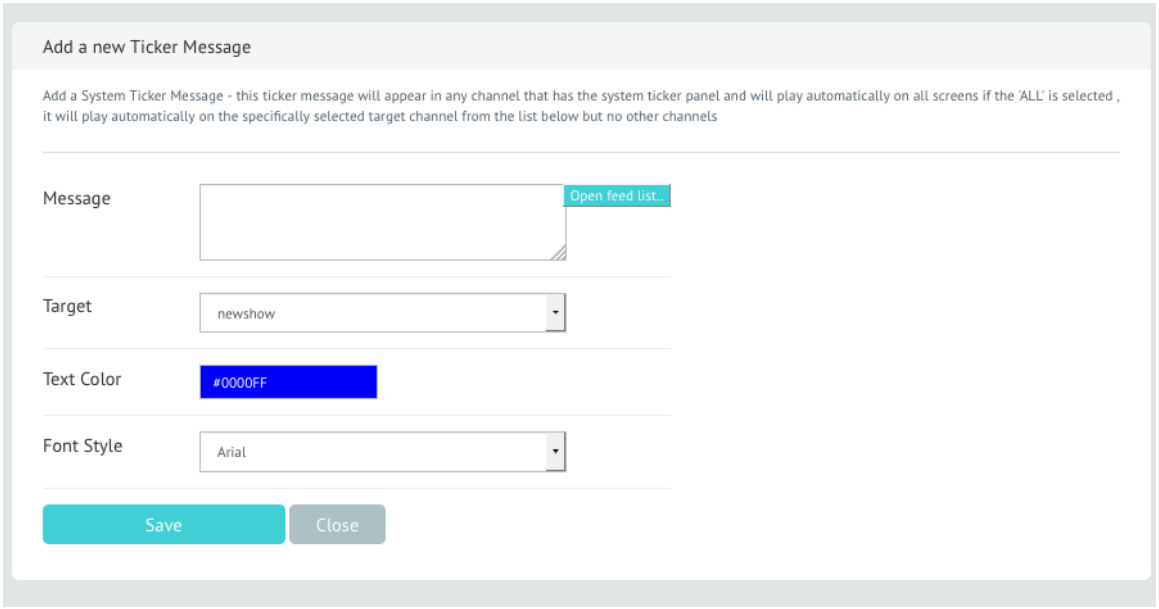
The System Ticker is managed centrally for all the Shows that have a System Ticker. You can change the settings for the tickers for each Show. The system ticker offers the added advantage of being able to manage multiple messages that will appear in a single panel in each Show. This allows you to add, move, change styles and edit messages quickly and easily from one place.

Adding a Message

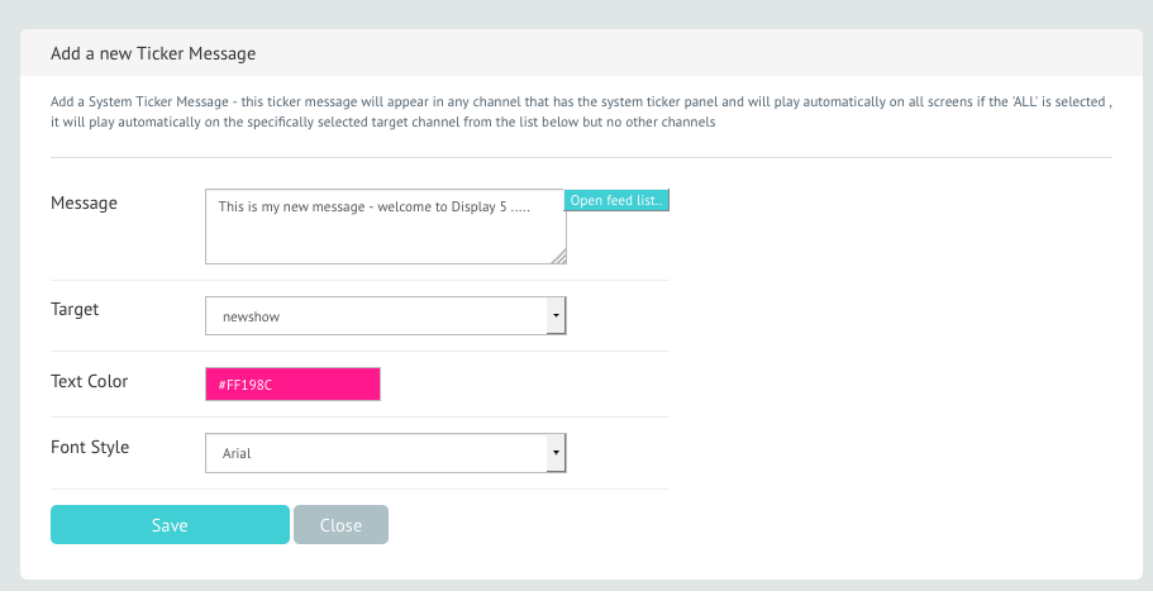
Click on the "Ticker Management" button at the bottom of your Playlist window as shown in the image above. A new window will open that looks like this:



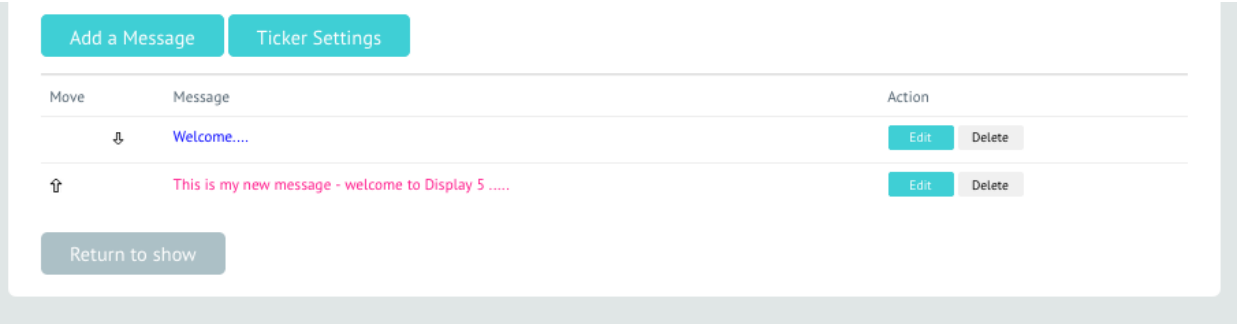
Notice that there is a default 'Welcome…' message already in the message list. Once you click "Add a Message", to add a new ticker message, you will be taken to a new window (below), where you can then type in a new message (or select from a list of RSS feeds or headline feeds instead).



Type into the message box, select a target show (which by default selects the Show you are working on) and then pick a font and font color for the text.

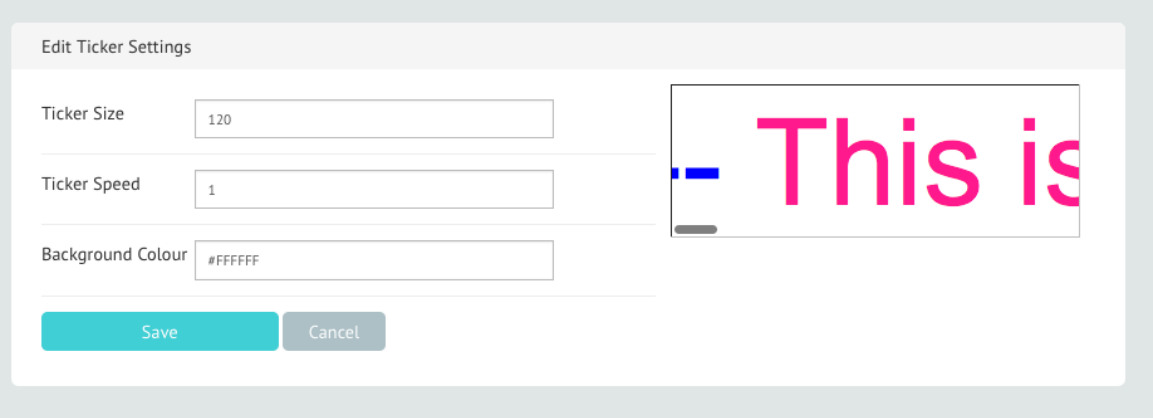


Click on the "Save" button to save the new message and you will now see it appear in the ticker message list on the main ticker page – see below. Now you can move the message up in the play list of messages using the arrow keys or you can delete or edit the message properties.



System Ticker Settings

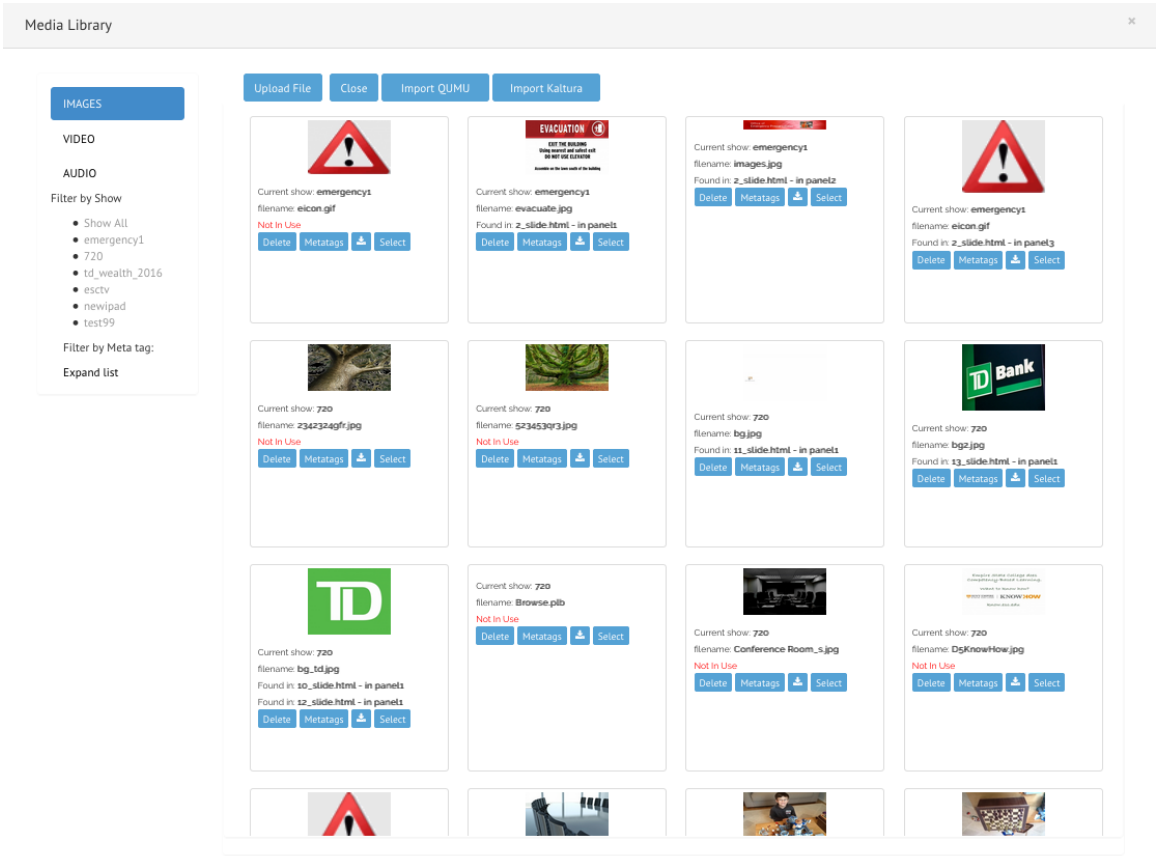
To make changes to the background color, font size, etc. for the ticker you will need to click on the 'Ticker Settings" button at the top of the window, see above, and you will then be taken to a new window where you can adjust the settings.



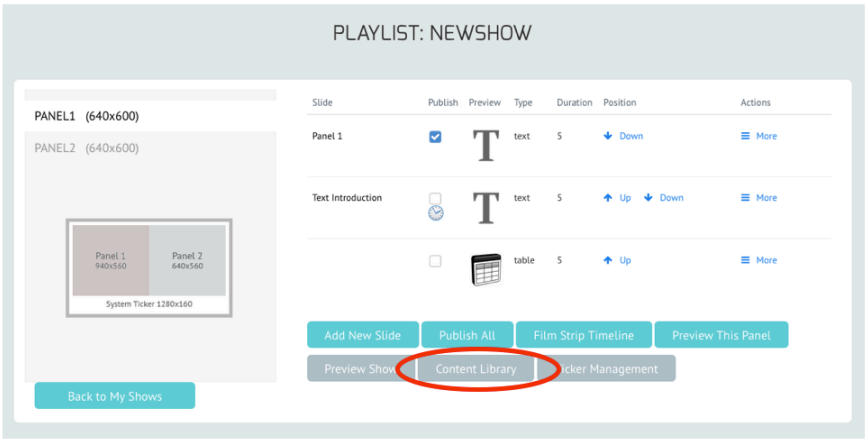
Here you can adjust the speed of the ticker movement (1-5 where 5 is the fastest) and the ticker font size and the background color. These changes when saved will only affect the tickers in the Show you are working on and not the other Shows you have created.

Media Library

The Media Library in Display5 shown below, is available in two places –

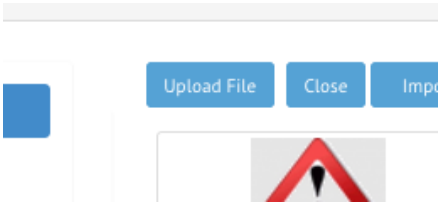


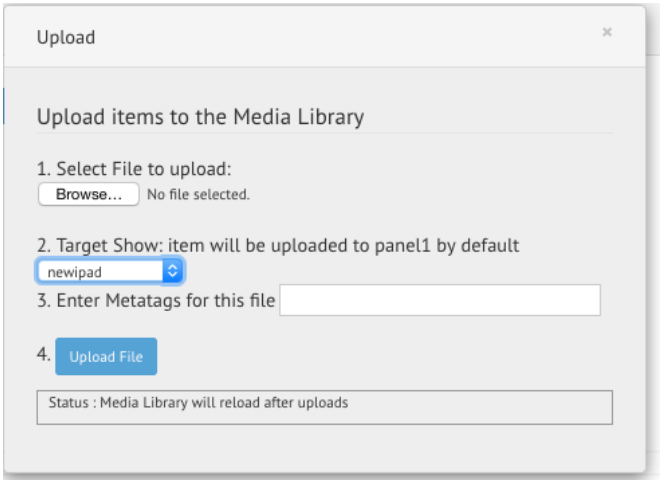
from the main "MyShows" screen when you first log in, down in the lower left panel of this web page. The Content Library for a Show is found at the bottom of the Playlist window for the Show. See screen shot below:



The difference between these two content libraries is that the one in the Main MyShows screen shows you ALL the content you have uploaded to every Show and offers you the option to download any media item, and the media library in the Playlist for each Show allows you to filter the content that you have uploaded for the that Show, plus a host of other features as outlined below.

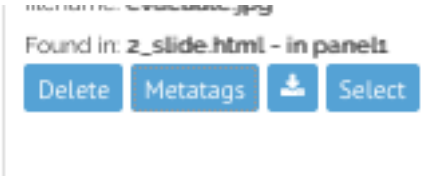
Upload – The ledia library has an upload button that will allow you to upload any image or video or audio file to the library , you will need to pick a target show to which you wish to upload the asset to however.

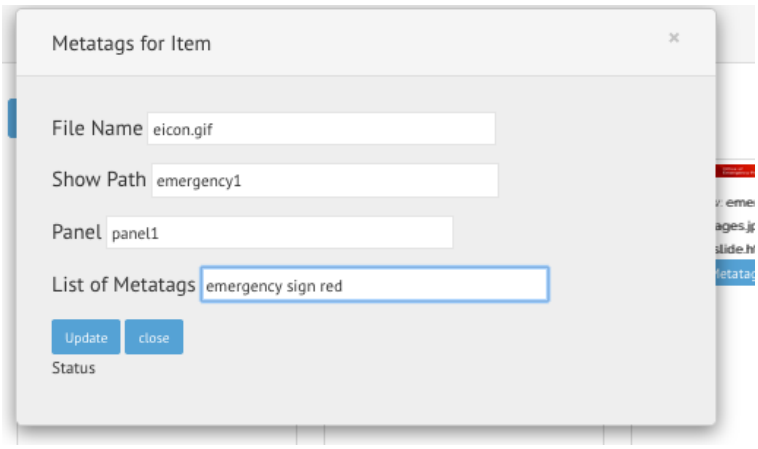




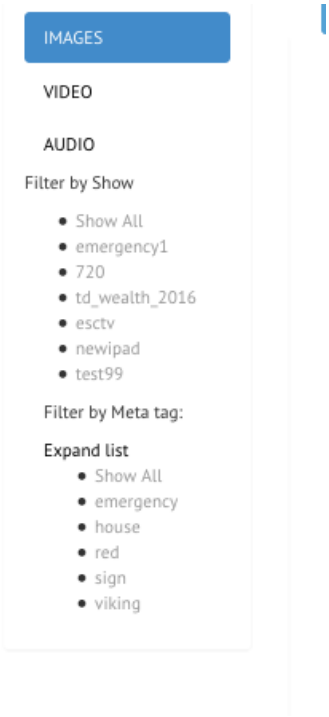
Import from Qumu – this is a feature available with the Qumu plugin module installed and will allow you to directly import a video from your Qumu account to the media library.

Metatags – every asset that you will see in the Media library has the option to add meta tags or keywords – clicking on the blue button under each image or icon for the media type. This will open a window as follows that will allow you to add a list of keywords to help you categorize the item in the media library.

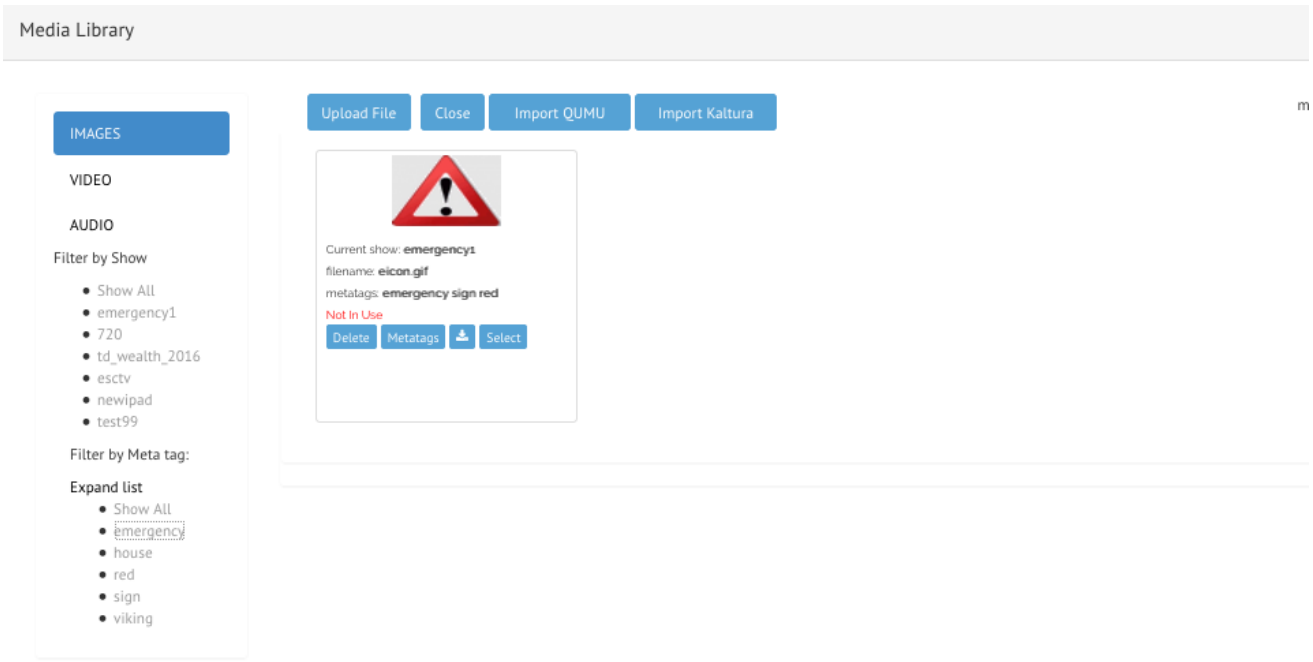




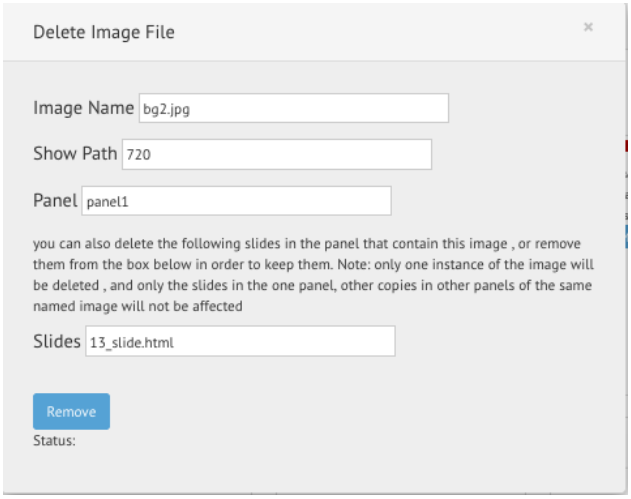
Having added keywords to the image or video etc. as in the example above, you will then be able to sort the media library (or filter it) through the meta tags list on the left hand side of the media library. As you can see from the screen shot if you expand the list you will see the three keywords added for the image slide



You can add as many keywords as you like and re-use the same keyword several times in order to assist with filtering the media library view. Click on the word emergency in the keyword or meta tag list and you will see a filtered view in the media library window of only the items that have that meta tag or keyword associated with them



Delete - To delete an item from the content library (that you are no longer using and to save space) simply click on the delete button beneath each of the items in the media library window . The delete option is intelligent in that it will also figure out which slides you are currently using the particular media item in, in the case below it is indicating slide 13 in the show called 720



You then have the choice to also delete the slide or slides as well as the media file from the server. Removing the entries automatically added to the list will prevent the slides from being deleted and only remove the media item

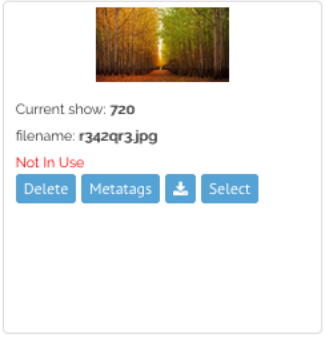
Media Library view window

Each media item will have a similar set of options that you can select in each of the view windows

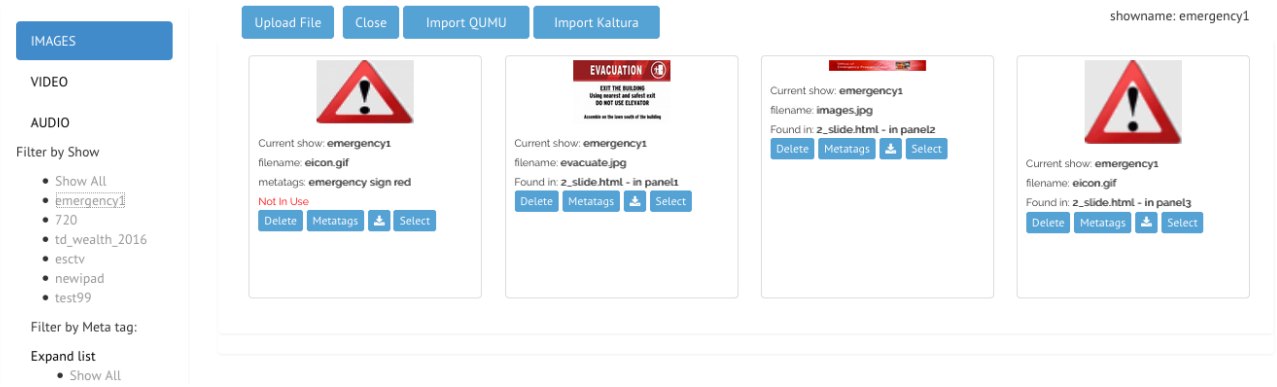
As you can see from the screenshot above the show where the image is currently being used or is located is indicated, plus the file name of the image or video etc. file. Also you will see one or more entries to show you where the image or media asset is being used, the slide html file name . This will help you locate the content more easily.

Beneath this information you will see the Delete button described above, the Metatags button also described above, a download to your local disk button, and a 'select' button. The 'select' button is only used when you launch the media library from a slide creation or slide edit window and you wish to copy the path to the media file to a slide you are working on.

Sometimes you may have a media file that is on the system but is not actually being used. The example below shows a tree image , that is in the show called 720 but is not actually being used in any slide . This is especially useful for knowing when or if you have expired content that you have not flagged for expiry.

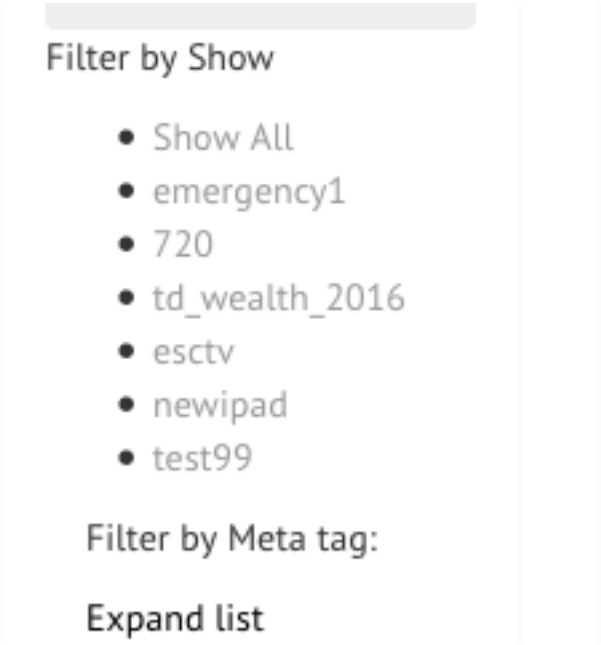


Filter by show – if you only want to see media items used in one specific show then you can select the option from the left hand menu to pick only the show you want to see:



In the example above we have selected the Emergency1 show as the filter and now only the images in that show are displayed. This will then filter out only the show that you select and you will see only the video, images, and audio that are used in that show only.

Selecting the 'Show All' option will then bring the complete library of media for all shows back into view.



Creating a Show – More Options

Display5 offers 4 ways to create a show:

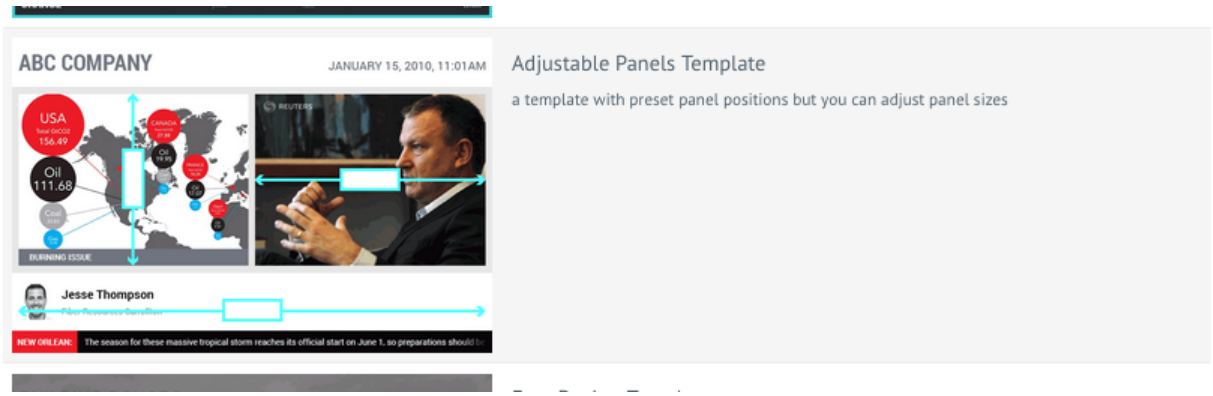
1. Static Panels Template
2. Adjustable Panels Template
3. Free Design Template
4. Video wall or non standard screen resolution layout

Depending on the style of Show that you would like to create you can use one of these three methods to generated the layout that you require.

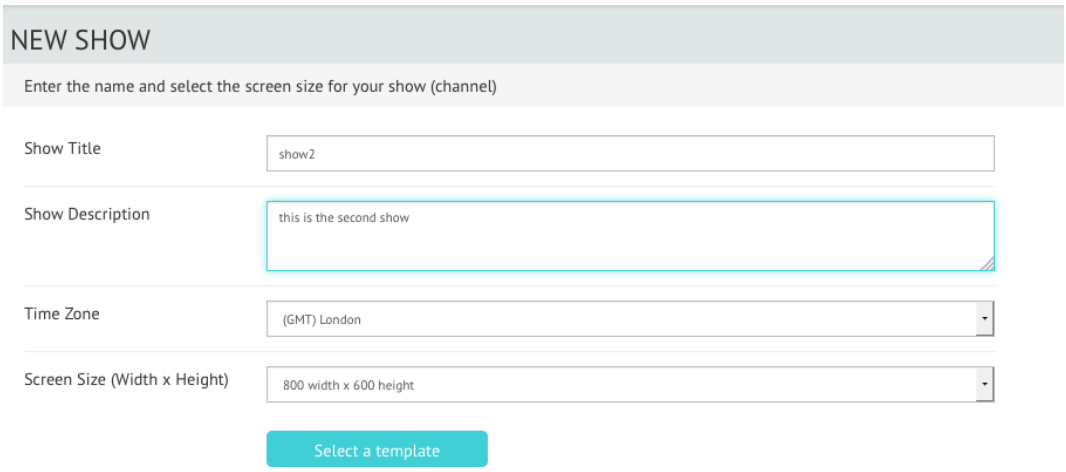
The difference between the two template based methods and the Free Design is that the templates are NOT editable once you have created them and the PANEL templates do not contain or allow, the layering of panels. Free Design however gives you these two more advanced features. We have already covered the use of the Static Templates method to create a show at the beginning of this user guide, the following sections look at alternate techniques for the Show layout creation.

Adjustable Panels Template

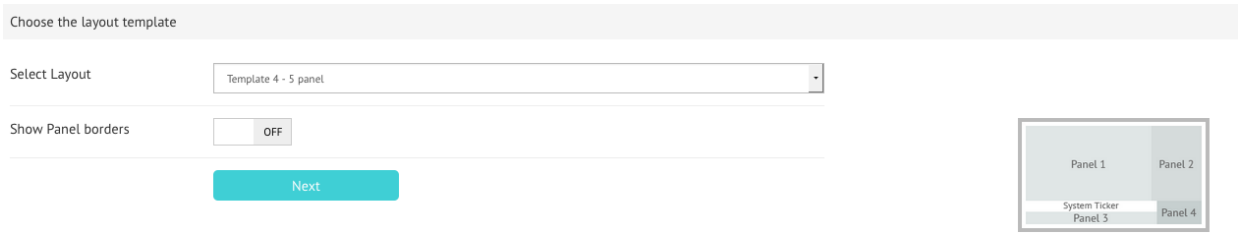
From the left had side menu select the "Create" option and then select "Create a Show" from the list. From the window the appears select the Adjustable Panels Template option.



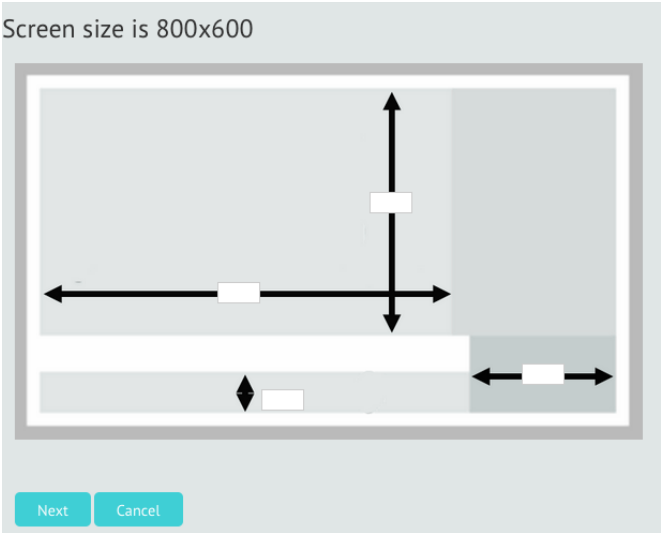
This will then open a window where you will need to give your Show a name (mandatory) as well as select the time zone and target TV resolution as well as add a description for your Show. Enter the values in these input fields and select the target resolution from the drop down list.



Now that you have entered the information you click on the "Select a template" button at the bottom and you will then see a screen that will offer a choice of screen layouts where you can adjust the panel sizes.

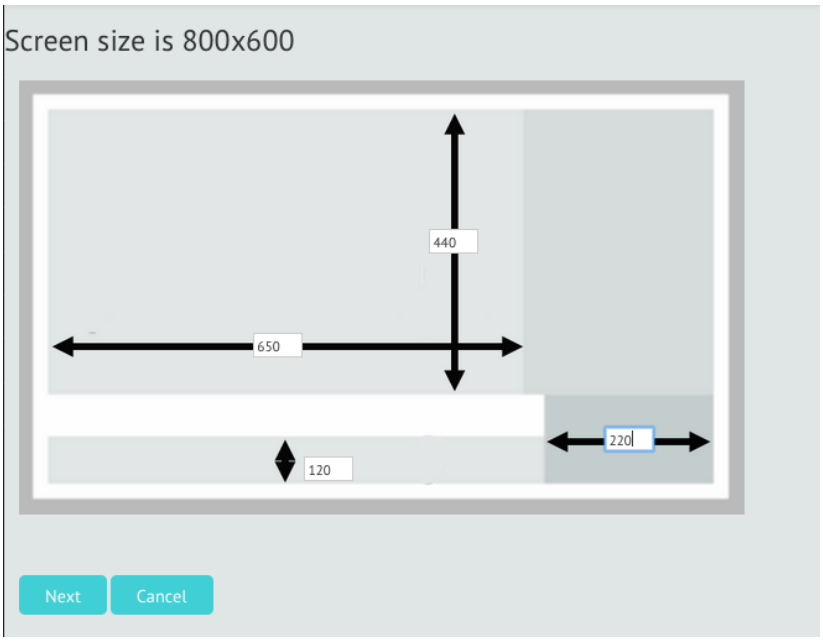


Use the image on the right hand side as a guide to the actual layout end result and select if you wish to see borders or not. Once you have picked a template that you want, you will be able fine tune or tweak it. Click on "Next" and you will see a new screen that contains a graphical representation of the chosen layout (not to scale) and various field boxes overlayed on the screen layout that require you to enter the dimensions – the fine tuning or adjusting of the panel sizes.

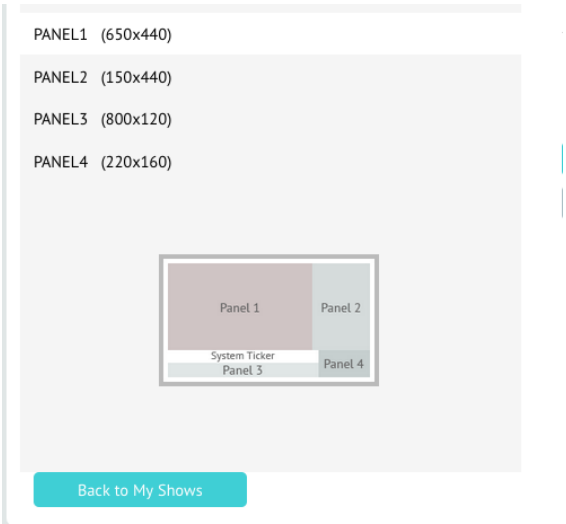


In the example above you will see that there is a reminder at the top of the overall screen size and 4 field entry boxes that require a value to be entered. As you input values in these fields, other panels will be automatically adjusted based on the values entered.

You can see in the following diagram that the 4 values have been entered into each of the field boxes:



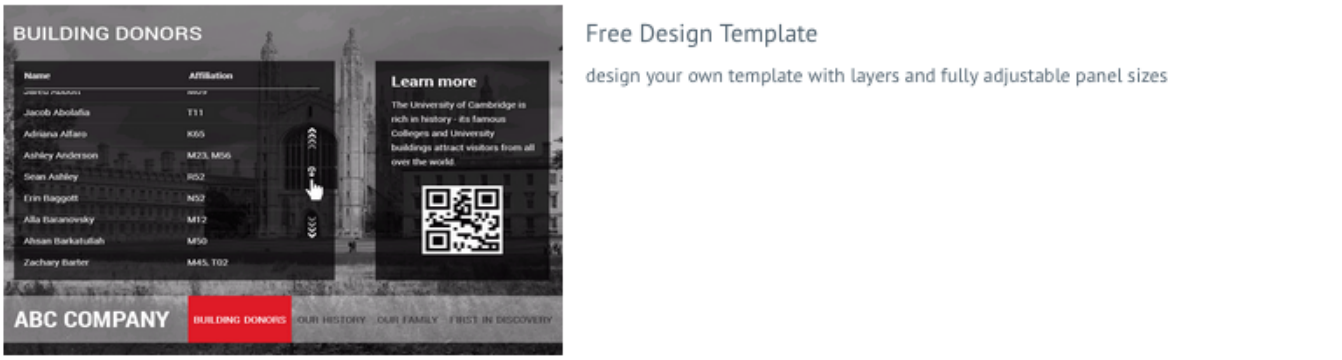
Now you simply click on the "Next" button in order to save the dimension values you have entered. Once saved the Display5 program will then take you automatically to the Playlist window for the new Show you have created. Note that the dimensions you have chosen are now shown in the panel list to the left.



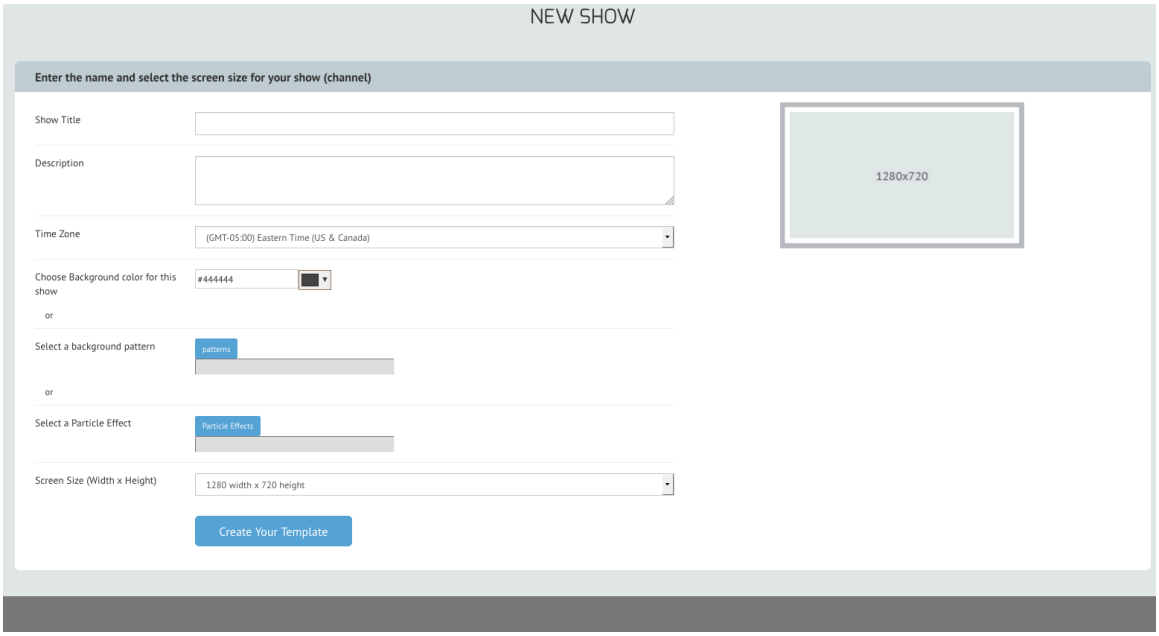
You can now go ahead and start to add your slides to the Show Playlist.

Free Design Template

Free design is the most flexible of the Show creation methods and offers you the most versatility in terms of placement and layering of content. Select the “Create a Show” option from the left had menu and then from the window that opens pick the “Free Design Template” option.

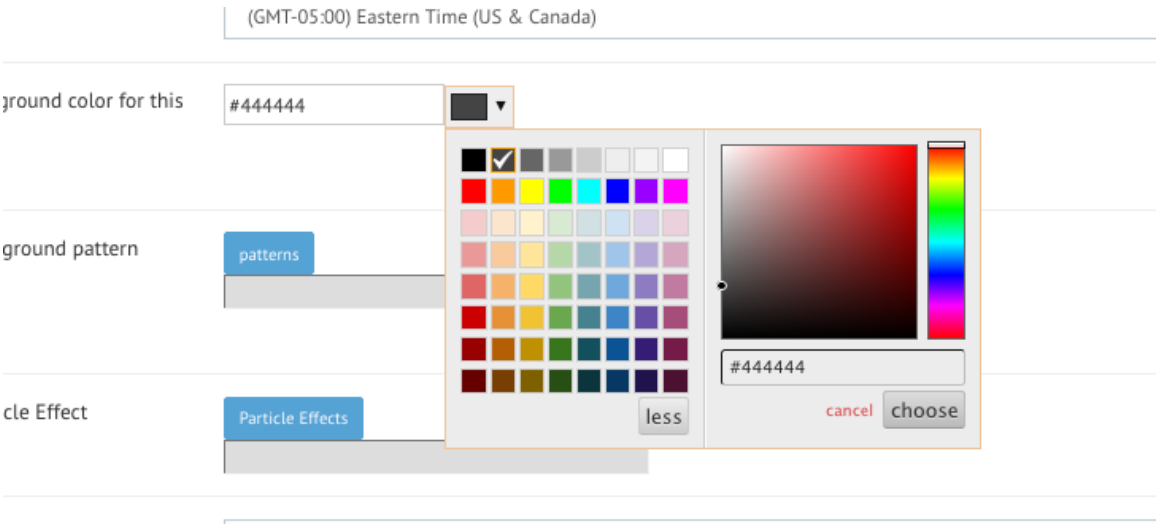


You will then be taken to the standard screen for entering the Show name (mandatory) the Show description, Show screen resolution from the drop down menu and the time zone, as well as the three options for setting the background for the entire show (solid color, pattern or image, animated particle effects).



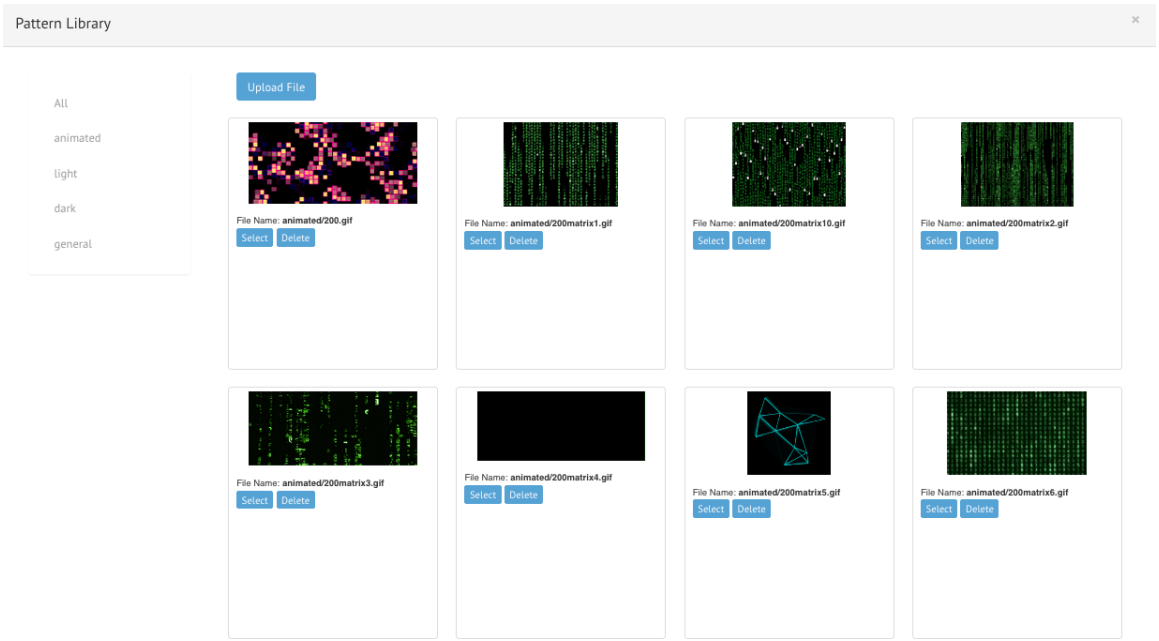
Solid color

If you would like to specify a solid color for the entire show then select the color icon to the right of the panel and select either from the standard palette or select or enter your own color setting



Background Pattern

Alternatively if you would prefer a more interesting background that is solid, you can select a pattern. Click on the patterns button to open a dialog box of multiple patterns

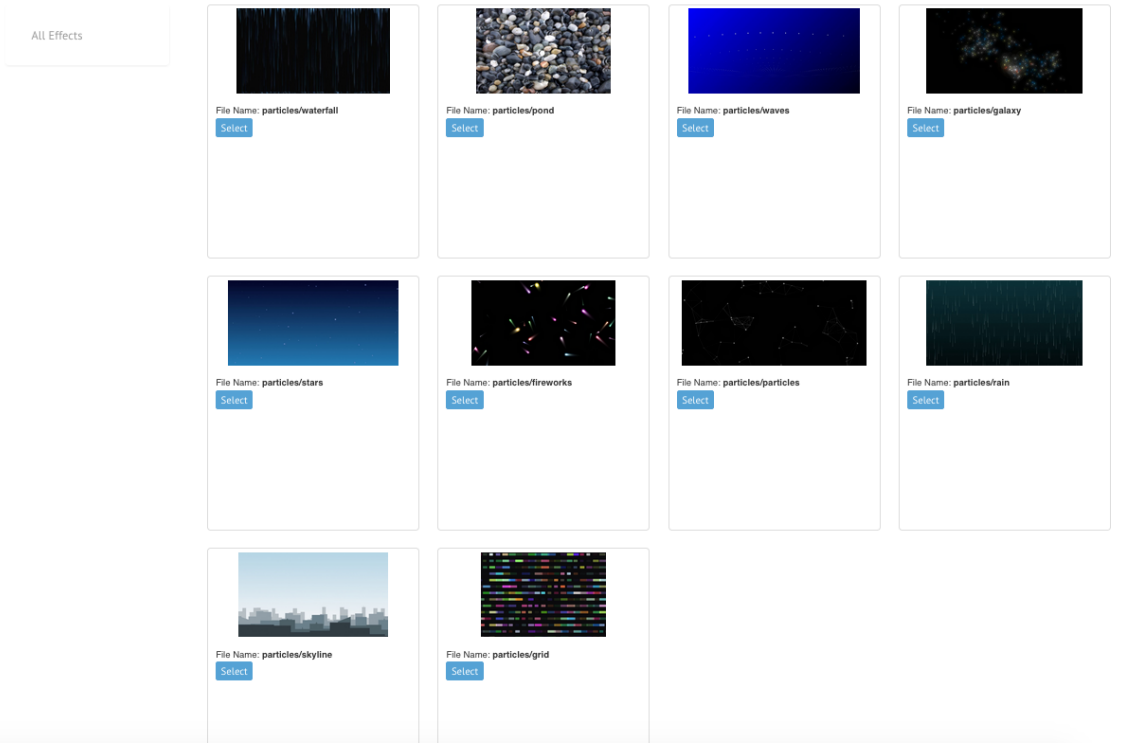


Patterns are divided into several groups: light, dark , animated and general. You can filter a category on the screen by clicking on the item in the menu on the left. Animated patterns are exactly as they describe (they are animated GIFs), and will

provide a repeated motion pattern to your entire show background. The other options are repeated graphics like brick, stone, bubbles, leather and so on.

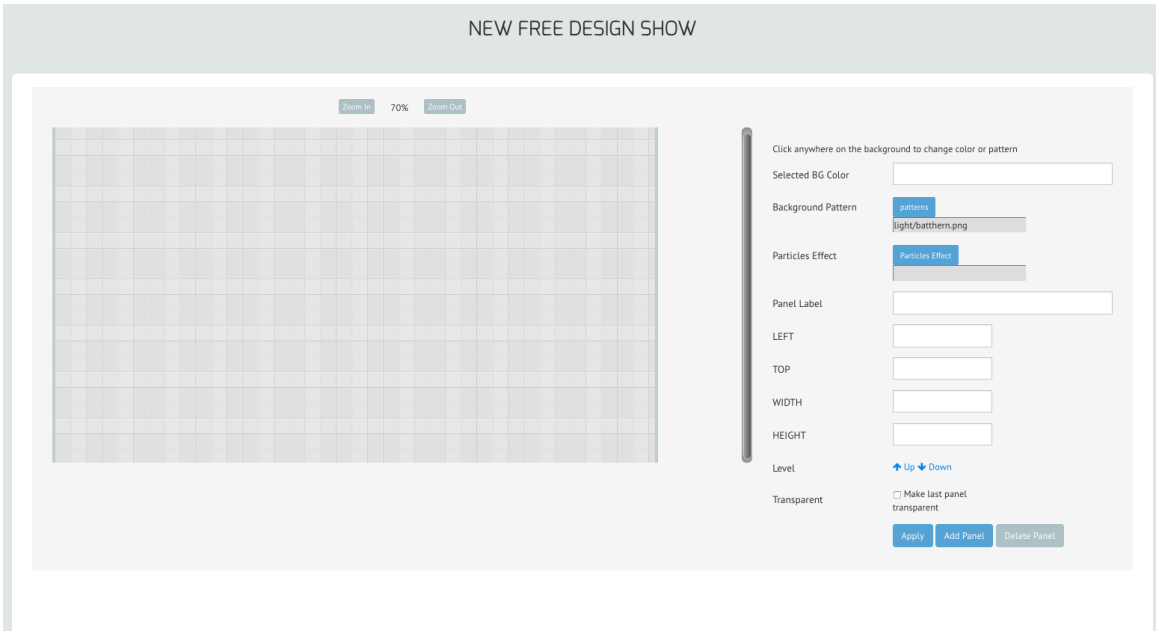
Background Particle Effects

Alternatively, if you would prefer an even more dynamic background that is moving, you can select a particle effect, click on the particle effects button to open a dialog box of multiple effects.



As you can see from the screen shot above there are galaxy, firework, water and many other stylish motion background effects. You can click on the image itself to see a preview of what the background will look like.

Select all of these options for your show (Please note that you can only select ONE of the background options) and enter the description for the show and then hit the "Create your Template" button at the bottom. The next screen you will see is the actual show design tool

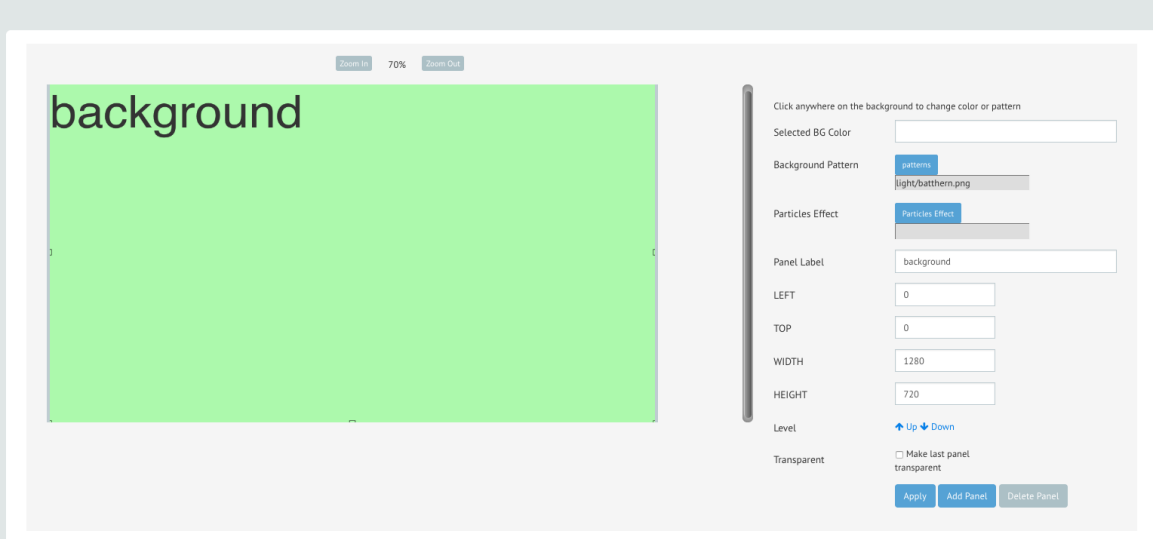


This is meant to be a canvas onto which you can add, move, adjust and label panels. You can layer Panels on top of each other. Note that if you chose a background pattern or background animation or color, this will show in the preview window giving you an idea of what the actual end result will look like. On the right hand side you will see that you have the patterns, backgrounds, colors and particle effects options listed. If you want to change the selection you have made then you can re-select the button for each and then choose a different effect. The canvas preview will update with the changes that you make (YOU MUST HIT THE APPLY BUTTON for the changes to take effect).

When you get to the window seen above, the first thing to do is to hit the **Add panel** button at the bottom of the screen to add a new panel.

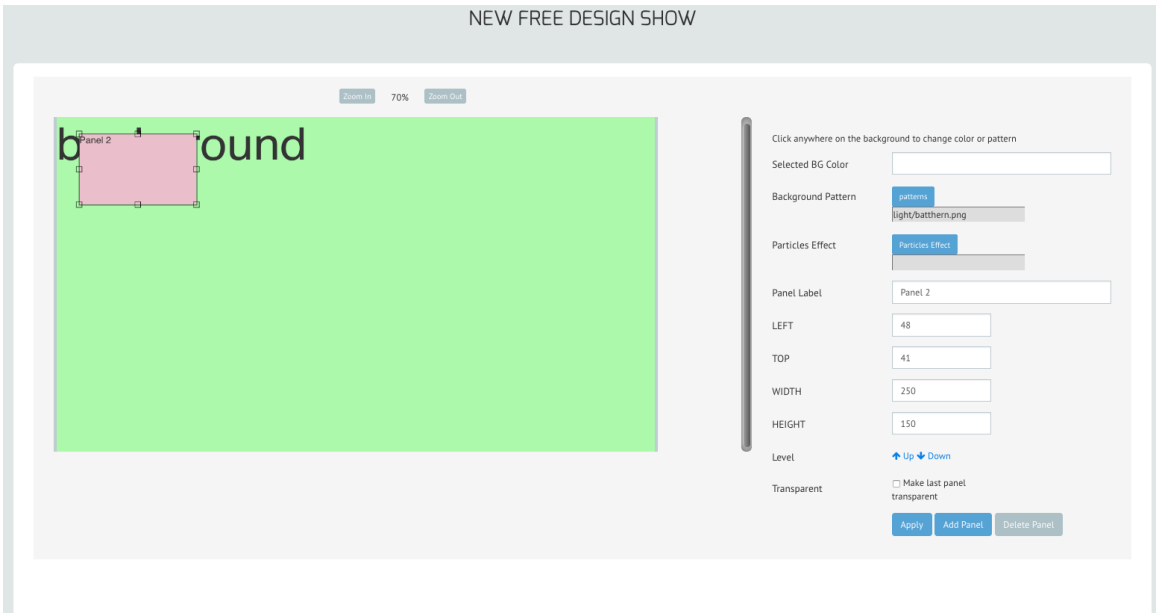
You will notice that when you add a new panel, the panel has blue scroll handles that automatically appear around the panel allowing you to adjust the size by holding your mouse press down and dragging. You will also notice that in the config list on the right hand side the panel label (in this case "panel1") appears in the box, as well as the exact coordinates (top and left) and the precise size in pixels of the panel (default is 250 x 150). This right hand side menu is actually a live menu – you can change all the values of these fields to change the properties of the actual panel you added. Once you have made any changes, click **Apply**.

Change the label of the panel to something more understandable based on the content that it will hold – e.g. Background Panel. If you are making the panel the full background of the Show because you wish to use your own background image and not the default ones available, then enter the full width and height of the Show. The dimensions of the Show are always displayed at the top of this window. Click on the **Apply** button at the bottom of this list. This will cause the panel in the left hand design window (panle1 in this case) to change to reflect the new settings you have entered.



The panel now occupies the whole screen and has a new label. You can click on **Delete** on the right hand side to remove the selected panel, or you can click on the **Start Over** button on the bottom left to remove all panels added so far.

Now let's add an additional panel by clicking the **Add Panel** button at the bottom left once again. A new 250 x 150 panel will appear with the label – "panel2".



We can now drag this panel to the place on the screen that we would like and adjust the size of the panel using the blue handles along the border of the panel.

Give your panel a new name (e.g. media as in the example above) and move it to a position in the layout that you prefer. You may notice that there are two buttons labeled Up and Down in the right hand side menu. This will move the currently 'selected' panel down a layer or up a layer in your design. Clicking on the **Down** button while the media panel is selected will move the 'media' panel behind the 'background' panel. It would disappear from view in this case, as it is smaller than the 'background' panel.

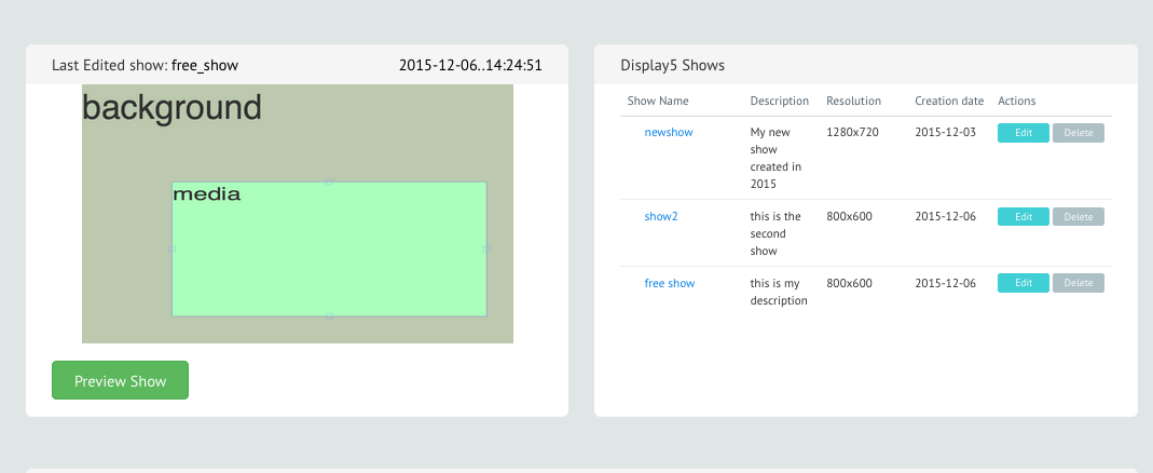
If you are creating a layout for a much larger resolution of screen than shown in the example image above (which is 1280 x 720), then you can take advantage of the

Zoom In and Zoom Out option buttons at the top of the screen. If your new layout is a screen size larger than the browser window you are currently working in – then a 'zoomed out' view of the overall canvas will automatically appear. You will then need to zoom in to 100% to see the actual layout to scale. The Zoom In and Zoom Out modes allow you to work with panels, but are showing scaled down or up views and are not entirely precise to the pixel. Precise pixel sizes can be entered and applied in the fields to the right.

Always zoom your design to the full view – this may require you to zoom out to 60% or less, so that you can see the entire layout design and ensure that you haven't left any blank space around the edge of your design.

Add as many more panels as you need using the technique described above and add labels to the panels that you add. Each panel can be selected and dragged or re-sized using the blue scroll handles on the border of the panel. Be sure to make sure that you are selecting the panel first before moving or changing the values in the list on the right hand side.

Once you are finished with the design you can now click on the **Save** button at the bottom and you will then be taken to the MyShows window with your Show design appearing in the left hand side window and your new Show will be listed on the right. To start adding content simply click on the "Edit" button to the right of the Show name you have chosen.



This will then take you to the Playlist window where you can start to add content slides to each of the panels.

Editing Free Design

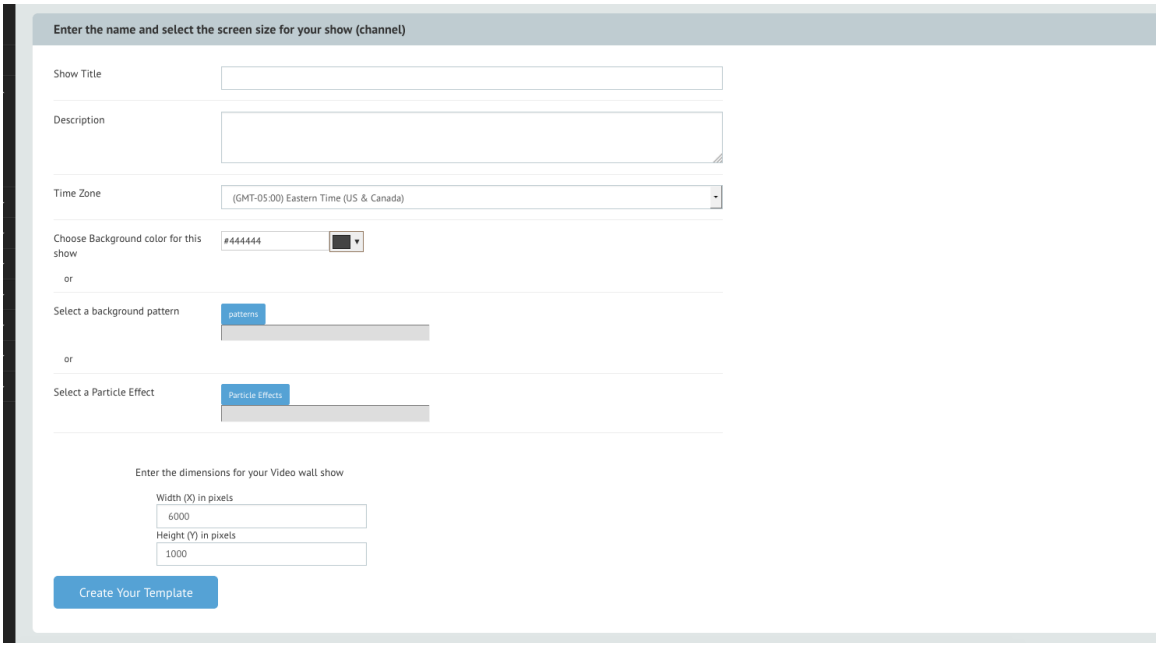
When you select to edit a Free Design layout you will be asked to make a duplicate of the original show and provide a new name to the edited layout. ALL content,

settings and information associated with the original show will be copied to the new show and so all your work will be preserved.

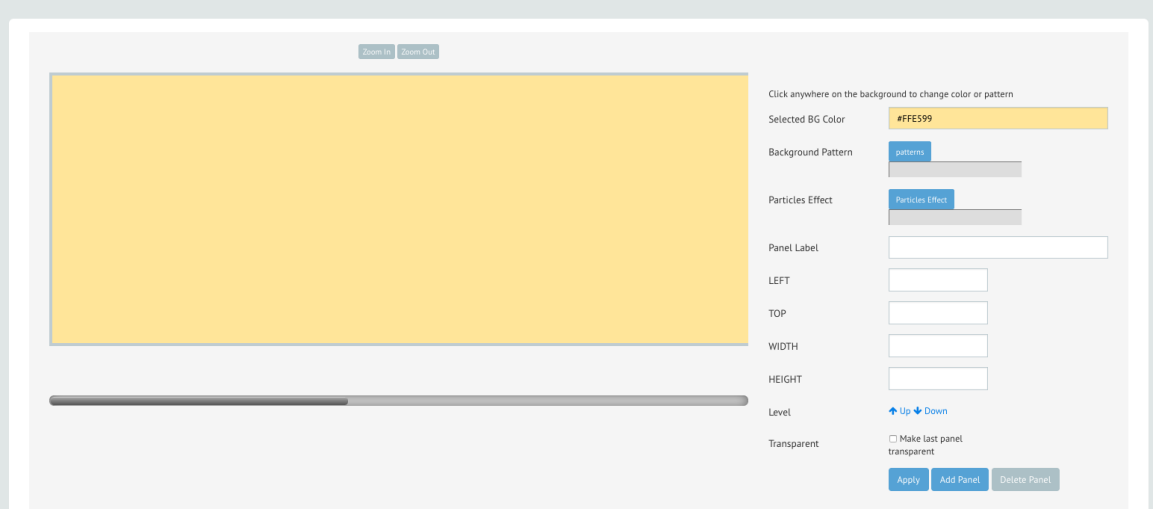
Note: when you edit a free design layout you will NOT be able to delete any of the existing panels in the layout - only add new panels to the design. This ensures that there is no orphaned content left in the system from a panel that you delete from the original show. We would advise that if you want to delete any panels that you start with a new design instead.

Video Wall shows

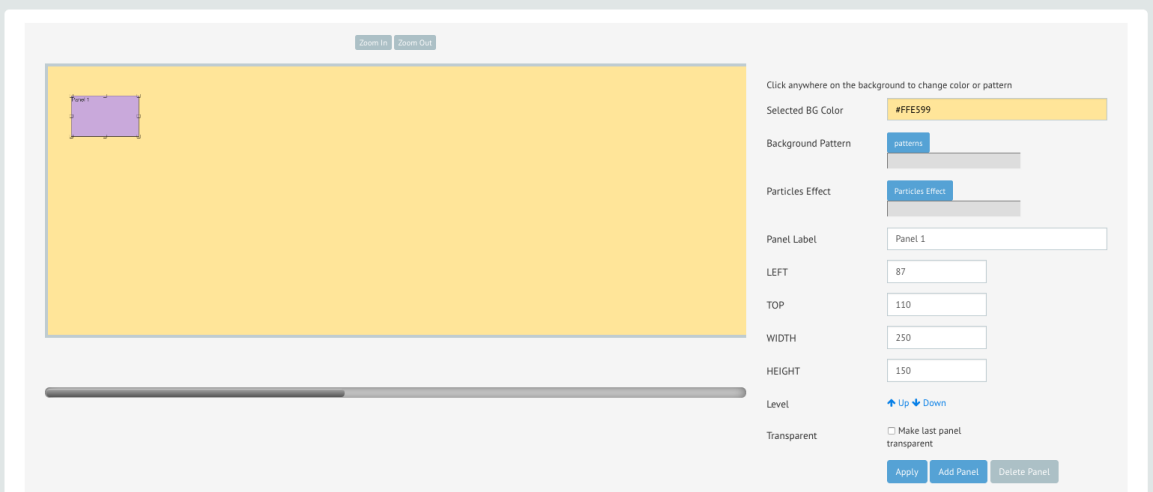
As for the free design option above the video wall layout differs slightly in that you can specify the x and y dimensions in pixels of the show you wish to create. Normally this would be larger than the max default resolution of 1920x1080. You can create video wall layouts with resolutions like 6000x1000 if you wish. You can add background colors, patterns and particle effects to video wall layouts as well.



Once you have entered the show dimensions you will be taken to the same canvas editing screen as for the free design above, where you can add , size and position the panels that you want to include in the video wall layout

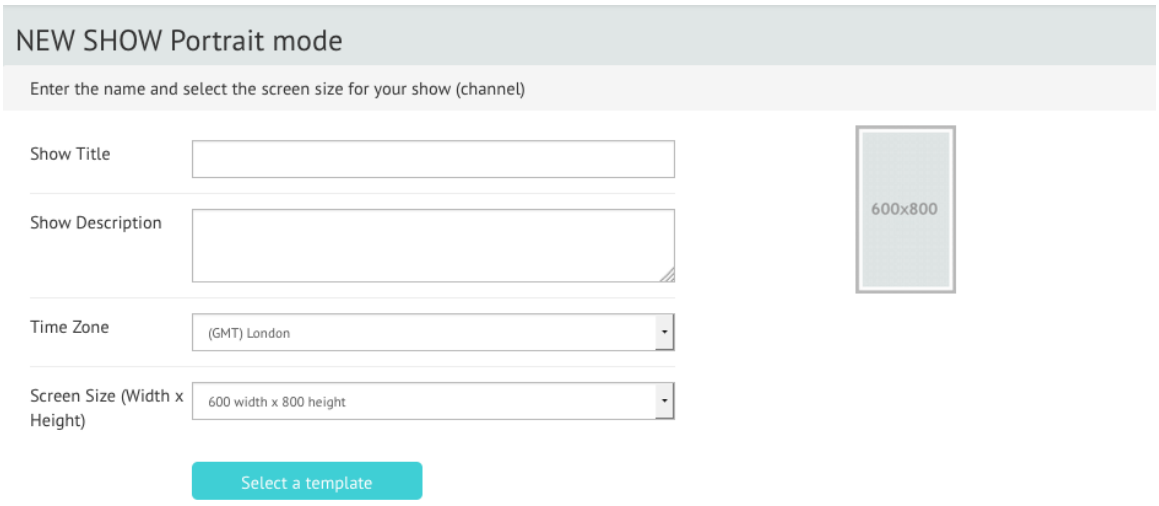


Use the zoo out option at the top of the canvas so that you can see the entire video wall canvas and then add the new panels as per the free design show description



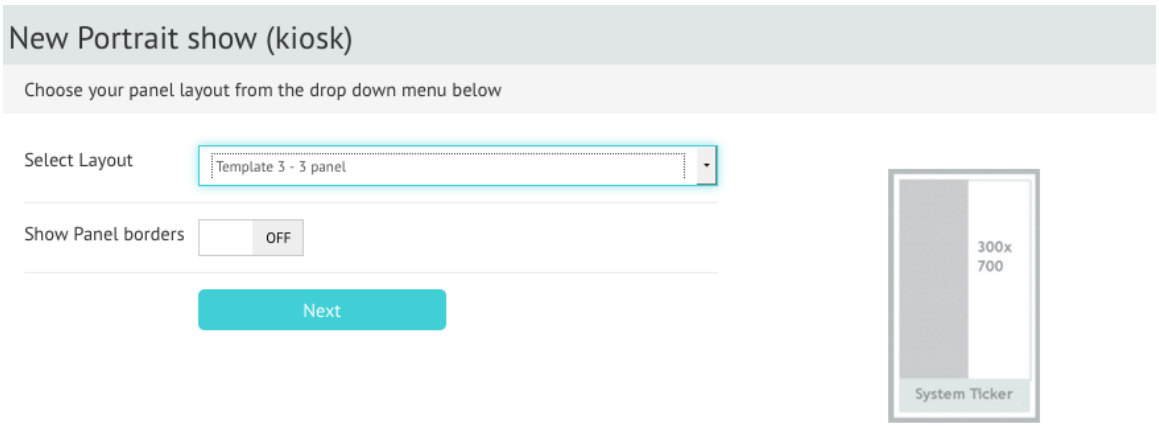
Kiosk Show

Display5 offers you the ability to create a Kiosk show for a situation where you would like to be able to orient the screen in a portrait rather than the default landscape mode. The process to create the show is very similar to that covered at the beginning of this guide for the static template design. Select the “Create Show for Kiosk” from the menu on the left hand side. Then you will be presented with the following screen:



Enter the show name (mandatory), the time zone, etc. and then pick a target screen size from the list. You will notice that the screens on the right are shown vertically or in portrait mode.

Then after selecting and entering this information on the following screen you can pick from the list of templates that are defined in the system



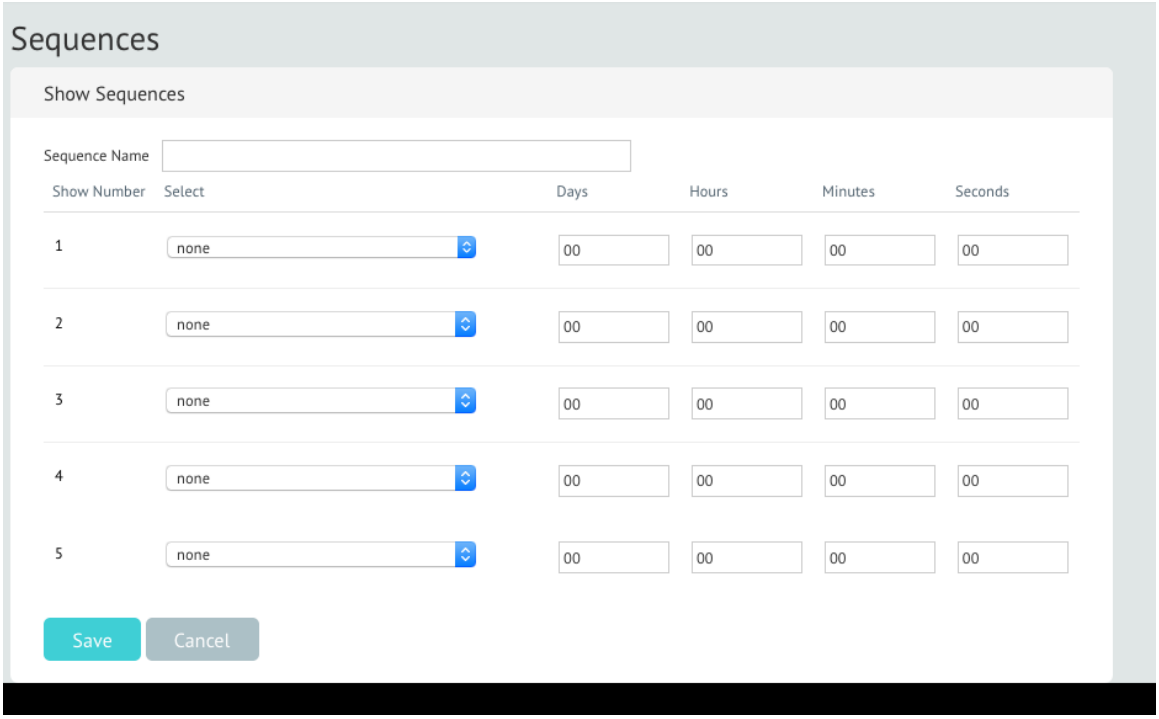
Click on **Next** to save your choice and you will be taken directly to the Playlist screen for the Show and you can now start adding your content slides.

Show Sequences

Introduction

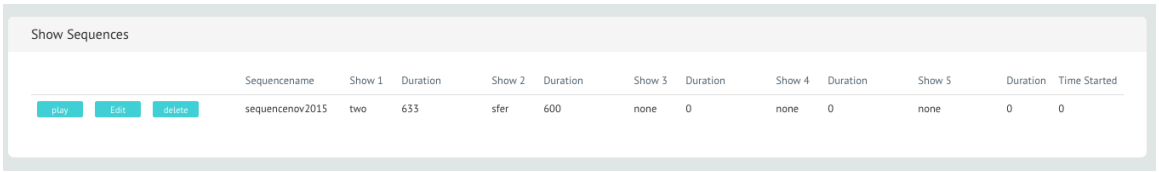
Display 5 has the advantage of being able to play shows one after another in a series or sequence. This applies to any show that you have created and you can add up to 5

shows to a sequence. Launch the Show Sequence screen by clicking on the **Create Show Sequence** menu item on the left hand side. You will then be presented with the following screen:



You are required to enter a name for the sequence first (mandatory) and then beneath the show name field you will see a series of drop down boxes that should contain a list of all the shows that you have created. Select the appropriate show from the list for the sequence item 1. Then to the right of the show drop down you will see a series of duration boxes divided into days, hours, minutes and seconds. This is a cumulative set of input fields and so all values are added together. You can specify a duration of only 10 seconds for each show – or you can specify 10 days between each show being played. For example if you wanted to have 3 shows that rotate each day and then back to the first show again on the 4th days, you would select the 3 shows from the drop down list , and then enter 1 in each of the day duration fields. And then click the **Save**. This sequence will now be 3 shows played in a 3-day period with each day playing a different show.

Show sequences are always displayed on the MyShows dashboard page.

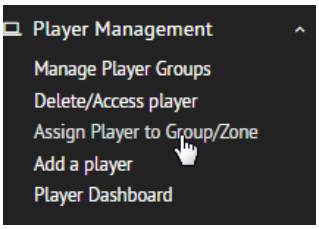


The sequence above is for two shows that are to play for 10 mins 33 secs and 10 mins one after the other, the sequence will restart again. You will notice that the Time started field at the far right is showing zero, this will only get updated once a player is launched to play that sequence. The time stamp will then be used to precisely time the shows from the start date and time.

You will also notice that you can edit the sequence by clicking on the **Edit** button to the left which will take you to the same screen as creating a sequence. You can also delete the sequence using the 'delete' button and you can also preview the sequence by clicking the **Play** button.

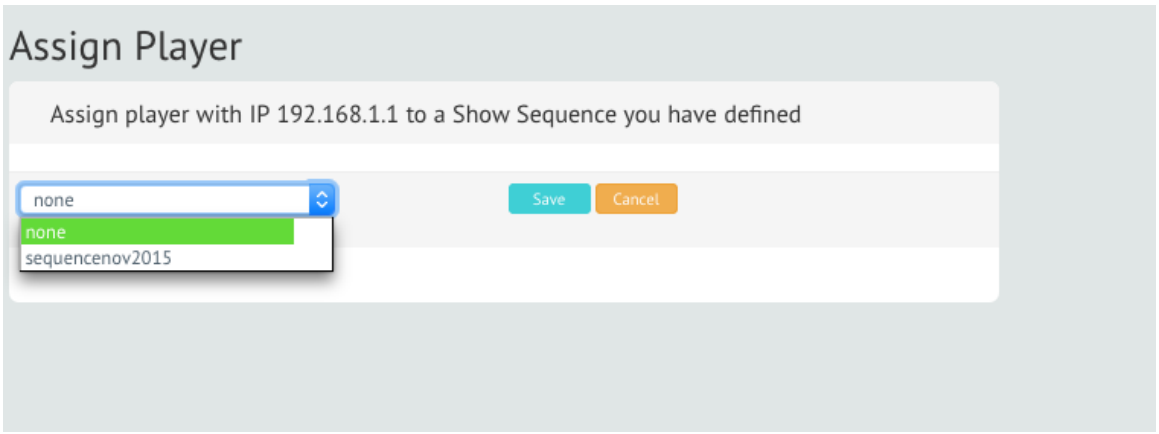
Launching Sequences on Player

The player management menu item on the left-hand side has an option called Player Assign Group/Zone, select this option from the left-hand menu.



You will be presented with a screen similar to this:

To the right of each player entry row you will see a group of buttons that apply to each player. The button labeled 'to Sequence' in the ASSIGN column will allow you to assign a player to start playing a sequence instead of an individual show. Select this button next to the relevant player and then you will see a new screen with a drop down list of sequences that you have created.



From the drop down list select the sequence name and click the Save' button to the right. This will now force the player into Sequence mode – it may take a couple of seconds for the player to respond however the player should then join the playback of the sequence of shows you have created. You can then repeat the same procedure for other players that you want to join the how sequence.

Setting up the Show Sequences on the player

As mentioned above the Display5 program supports show sequences, i.e. playing 1 show after another in a specified sequence. If you want to play a show sequence then you will need to specify the following URL on the player itself as the default at startup (see the sections below on how to set up players to auto start the browser)

http://www.display5.com/SHOW_NAME/sequence.php?sequencename=*sequencename*
as your startup up URL. The *sequencename* after the = sign is the name that you provided when creating the sequence (which is covered in the previous section above) again adding the -k or whichever command to put the browser into full screen mode will allow the entire screen to be used.

Example Start Scripts:

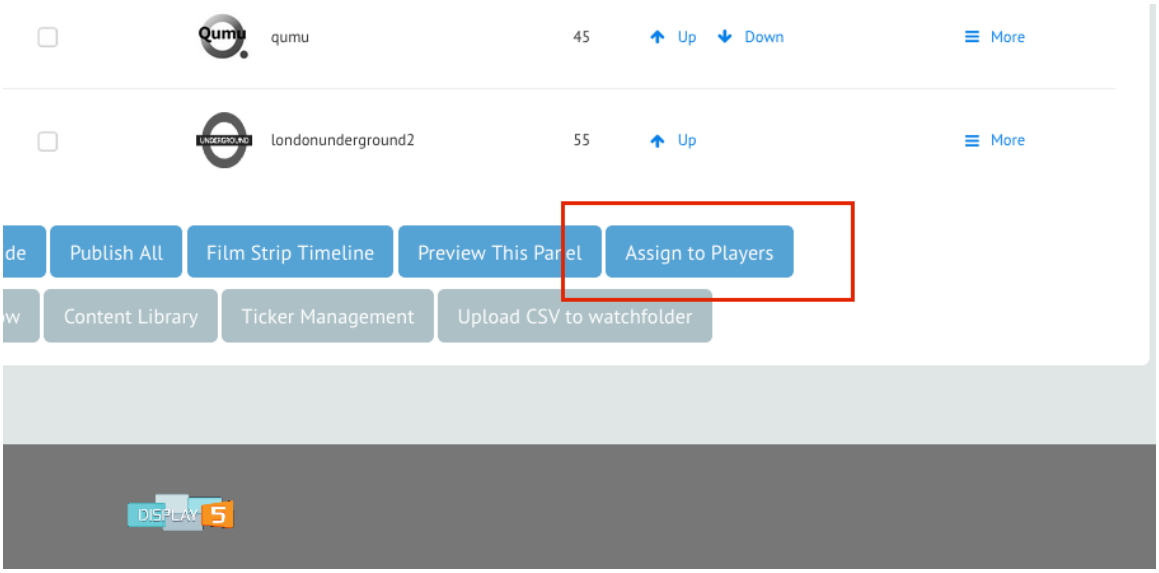
```
Playing a Show Sequence:  ie.exe -k
http://www.display5.com/show_name/sequence.php?sequencename=myseq

Playing a Single Show:  chrome.exe --kiosk
http://www.display5.com/show_name/iv.php
```

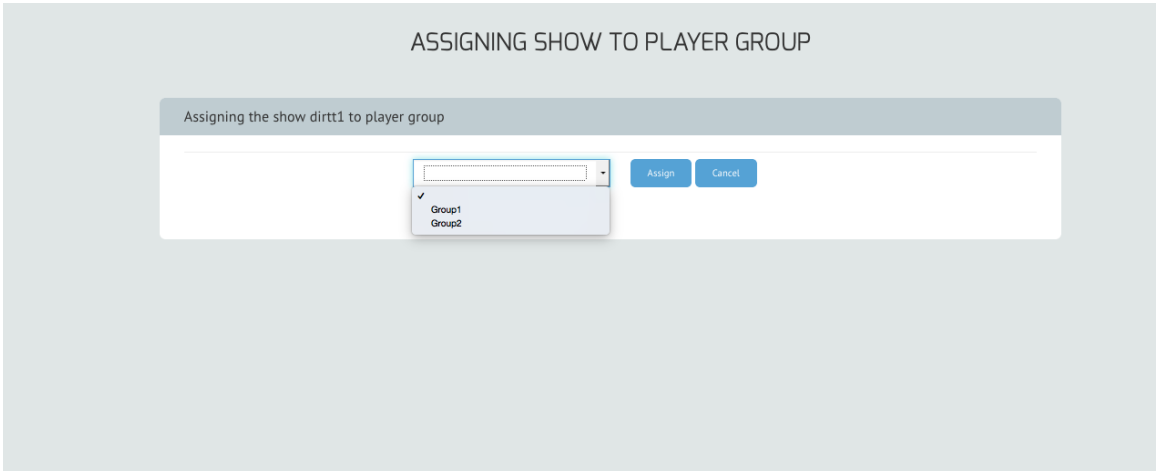
If you need more detailed instructions for creating Linux start scripts, or Windows start scripts we can provide further details if you Contact Us for further information.

Assigning Shows to Players

Display5 allows for the management of content by users relating to what can get sent to particular players or player groups. Administrators of Display5 can add player groups to a user's profile allowing them to send different shows that they manage or create to different player groups assigned to them. As shown in the screenshot below – users have the 'Assign to Players' button that they can click on to assign the current show to a group of players



Clicking on this button will open a simple dialog screen that allows them to select the pre-assigned player groups from the drop down list. Once selected the user clicks on the 'Assign' button and all the players in that group will be triggered to start playing the selected show.



Please refer to the Enterprise management documentation for details on how to manage user player groups.