



CREATING THE VIDEO PLAYER APPLICATION

QlikView Technical Brief

September 2012

QlikView 11



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Introduction

In this document, the steps to create the Video Player Application using QlikView 11 will be outlined. What is contained in the Video Player Application? The Video Player Application allows a user to search for demo videos that appear on demo.qlikview.com. Once the user selects a single video, the selected video can be played within the application using a QlikView extension.

SUPPORTING MATERIALS

- **QVW.** A QVW titled Video Player.qvw was created to show users the necessary steps to have a video play within a QlikView application. The steps are outlined in this document
- **webpageviewer.qar** – The webpageviewer.qar is a QlikView extension that displays webpages within a QlikView application.

Set the Scene

The task was to create a QlikView application where users could search for QlikView demo videos and play those videos with the QlikView application. :

The screenshot displays a QlikView application interface. At the top, there are tabs for 'View All', 'Demo', and 'Videos'. Below this is a search bar and a section titled 'QlikView Videos'. A list of filters is on the left, including 'Source', 'Sector', and 'Title'. The main content area features a video player for 'Executive Dashboard' with a play button overlay. To the right of the video player is a table titled 'Cost Centre Report (\$000s)' and a pie chart titled 'Expenses as % Sales'. The table shows columns for 'Expense', '2012', 'Budget', 'Variance', '%', '2011', 'Budget', and '%'. The pie chart shows segments for 'General Costs' (47%), 'Staff Costs' (36%), and 'Other Costs' (17%).

| Expense | 2012 | Budget | Variance | % | 2011 | Budget | % |
|-------------------|---------|---------|----------|------|---------|---------|--------|
| General Costs | \$4,054 | \$4,571 | \$-516 | -11% | \$3,245 | \$3,617 | 228.1% |
| Other Costs | \$363 | \$395 | -\$32 | -8% | \$126 | \$227 | 288.0% |
| Staff Costs | \$1 | \$1 | \$0 | 0% | \$0 | \$1 | 0% |
| Depreciation | \$23 | \$5 | \$18 | 360% | \$6 | \$10 | 160.0% |
| Travel | \$116 | \$120 | -\$4 | -3% | \$71 | \$47 | 149.0% |
| Research and Dev. | \$7,350 | \$1,311 | \$6,039 | 461% | \$1,707 | \$166 | 111.4% |
| Research and Dev. | \$115 | \$168 | -\$53 | -31% | \$108 | \$117 | 109.4% |
| Staff Benefits | \$50 | \$29 | \$21 | 72% | \$44 | \$11 | 109.9% |
| Staff Temporary | \$1 | \$2 | -\$1 | -50% | \$1 | \$2 | 50.0% |
| Depreciation | \$2,768 | \$2,027 | \$741 | 37% | \$2,368 | \$264 | 118.9% |
| Total | \$7,226 | \$7,218 | \$8 | 0% | \$5,742 | \$1,664 | 125.6% |

Executive Dashboard
Overview:
 This business analysis model is for senior managers to monitor performance within their business, giving them both a high level view as well as the ability to drill down into the granular details of the business. In this example, the organization manufactures fast moving consumables, using a reseller model to distribute its products across multiple regions.

Updated by:
 Demo and Best Practices in 10/2011

QlikView Version:
 Undefined

Video URL:
http://www.youtube.com/embed/o3_mQzPTvr4

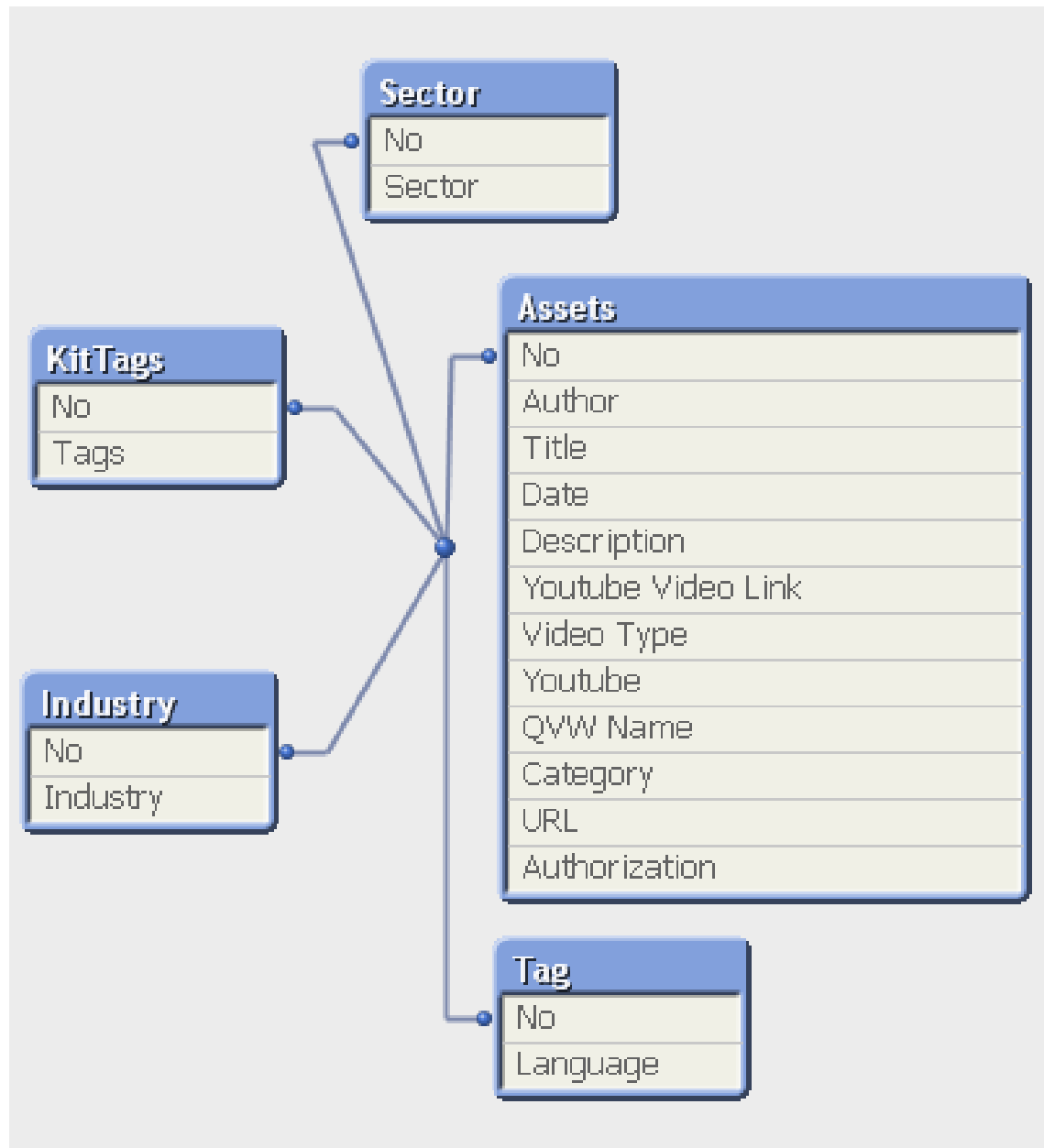
FUNCTIONS, FEATURES AND TRICKS USED

To create the Video Player in QlikView, the following QlikView functions, features and/or tricks were used:

- QlikView Extension – webpageviewer.qar
- Conditional Show Expressions

Data Model

Before beginning, let's take a look at the data model. Below is an illustration of the data model created. The QVW can also be opened to view the data model.



TABLES

- Assets – The main table which contains the majority of the information for the demo videos.
- Sector - Contains the Sector associated to each demo video.
- KitTags – Contains the tags associated with the demo video.
- Industry – Contains the Industry associated to each demo video.
- Tag – Contains the Languages associated to each demo video.

Script

1. Load the Assets table

```
Assets:
LOAD
'Demo and Best Practices' as Author,
No,
Title,
Date,
Description,
[Youtube Video Link],
[Video Type],
Youtube,
[QVW Name],
Category,
URL,
Authorization
FROM
Assets.qvd
(qvd);
```

2. Load the Sector table

```
Sector:  
LOAD  
    No,  
    Sector  
FROM  
Sector.qvd  
(qvd);
```

3. Load the Industry table

```
Industry:  
LOAD  
    No,  
    Industry  
FROM  
Industry.qvd  
(qvd);
```

4. Load the KitTags table

```
KitTags:  
LOAD No,  
    Tags  
FROM  
[Kit Tags.qvd]  
(qvd);
```

5. Load the Tag table

```
Tag:  
LOAD  
    No,  
    Language  
FROM  
Tag.qvd
```

QlikView

Now the data model is created we can now start creating the video page.

Steps to Create Videos Page

Now that the data model is complete, there were a few variables created to aid in the show/hide expressions. They are:

1. **v_url:** =only([YouTube Video Link])
This stores the value of the YouTube Video Link for the video selected.
2. **vShowTags:** =Is set to either YES or NO
This stores the value YES or NO based on actions on buttons.

Now let's begin to create the Videos Page:

1. Load the webpageviewer.qar file
2. Create list boxes for *Sector*, *Title*, *Date*

| Sector | |
|--------------------------|----|
| Consumer Products / R... | 21 |
| Consumer Products / R... | 1 |
| Cross-Sector | 15 |
| Financial Services | 6 |
| Healthcare | 3 |
| Infrastructure Services | 6 |
| Life Sciences | 4 |
| Manufacturing | 2 |
| Public Sector | 0 |

| Title | |
|--------------------------------|--|
| Alternate States - Brushing | |
| Campaign Performance | |
| Executive Dashboard | |
| Facebook Friend Analyzer | |
| Golf Quest | |
| Helpdesk Management | |
| Movies Database | |
| My Life in Data | |
| Order and Inventory Management | |
| Pharma Sales | |
| Pharmaceutical RD Pipeline | |
| QlikView Developer Toolkit | |

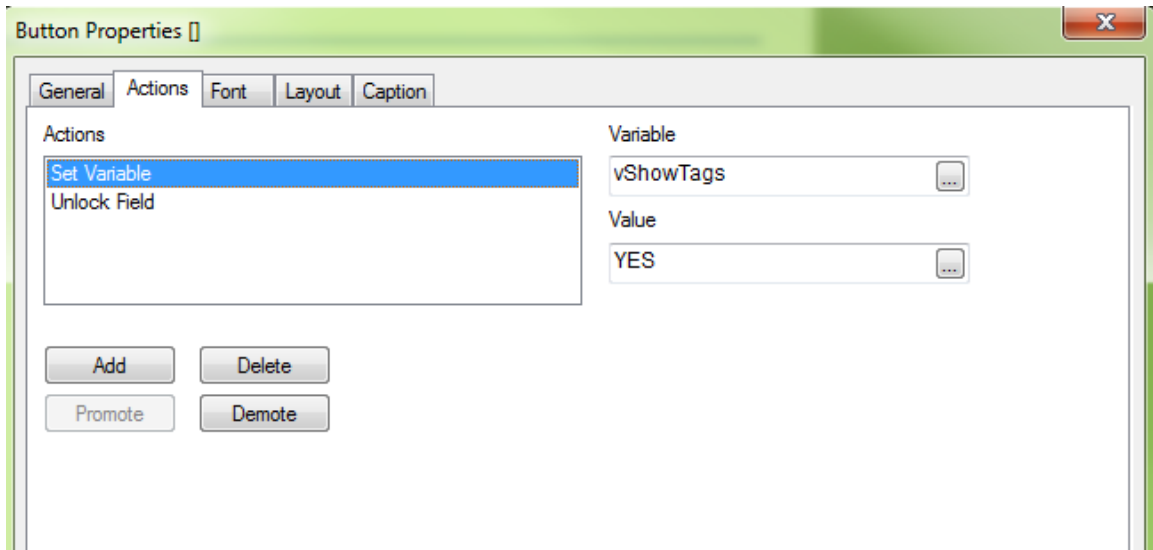
| Date | |
|---------|--|
| 2012-05 | |
| 2012-02 | |
| 2011-10 | |

3. Create the button for "View all video tags"



QlikView

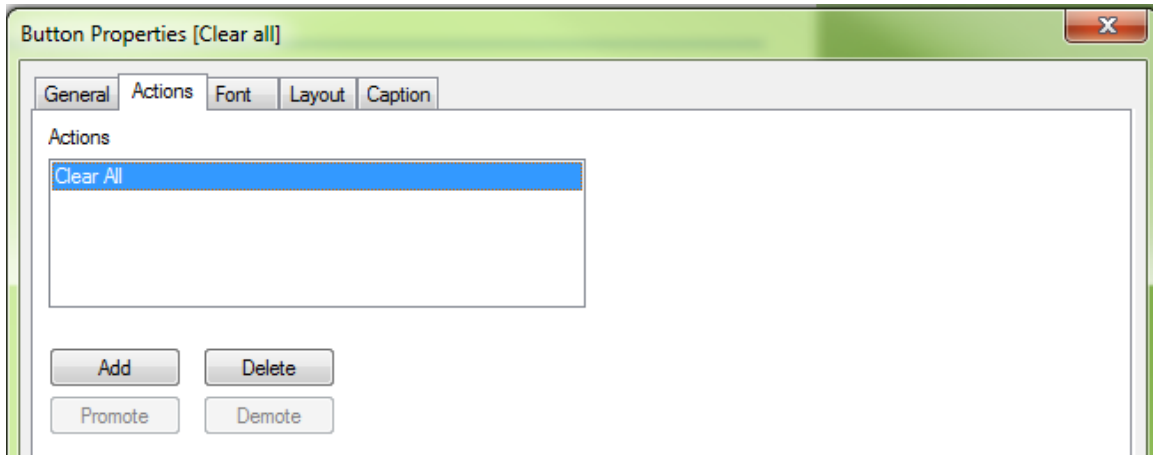
4. Add an action on the button to Set Variable vShowTags to YES



5. Add Clear all button



6. Add action on the button to Clear All Fields



7. Add Current Selections

Current Selections

8. Add Global Search



QlikView

9. Add text boxes for Overview, Updated By, QlikView Version and Video URL

Overview:

This application holds the data of tickets that are submitted by internal employees to the IT department. It includes when a computer needs to be upgraded or a mobile phone does not work. Each ticket is assigned to an IT resource, but an IT manager, s/he needs to be aware which tickets came in as a high priority, or which tickets have not been assigned to any resources yet. This application gives a great visibility for all tickets in detail as well as at a high level; therefore, it works well for IT managers and individual resources within the IT team. It is a great tool for making fast but proper collaborative decisions within an IT organization.

Updated by:

Demo and Best Practices in 10/2011

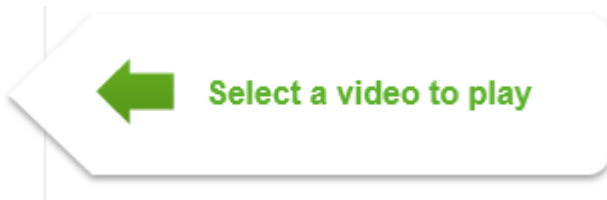
QlikView Version:

Undefined

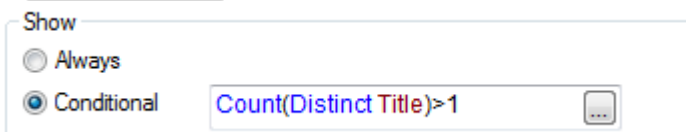
Video URL:

<http://www.youtube.com/embed/5vga8YTM9n4>

10. Create a text box and add an image for the Select a video to play image



11. Set the conditional expression to Count(Distinct Title)>1

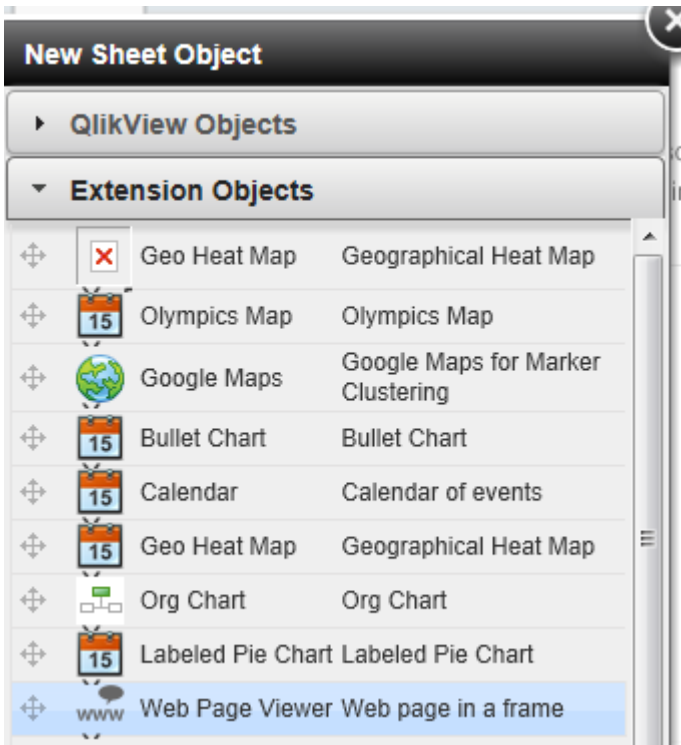


12. Place the application in AJAX mode by turning on WebView

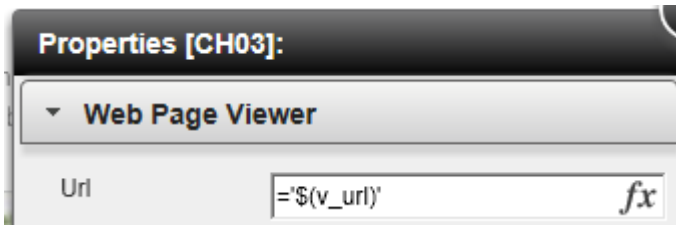


QlikView

13. Create the webpageviewer extension by dragging it on to the screen

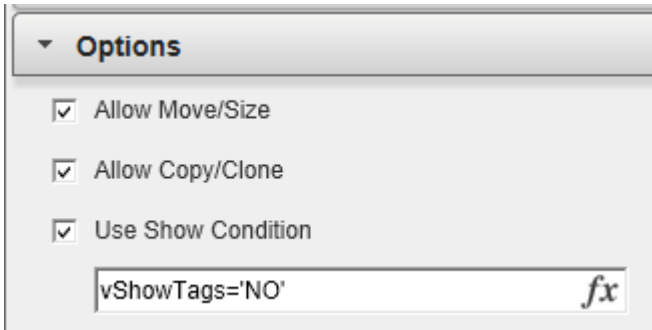


14. In the URL section of the extension add ='\$(v_url)'

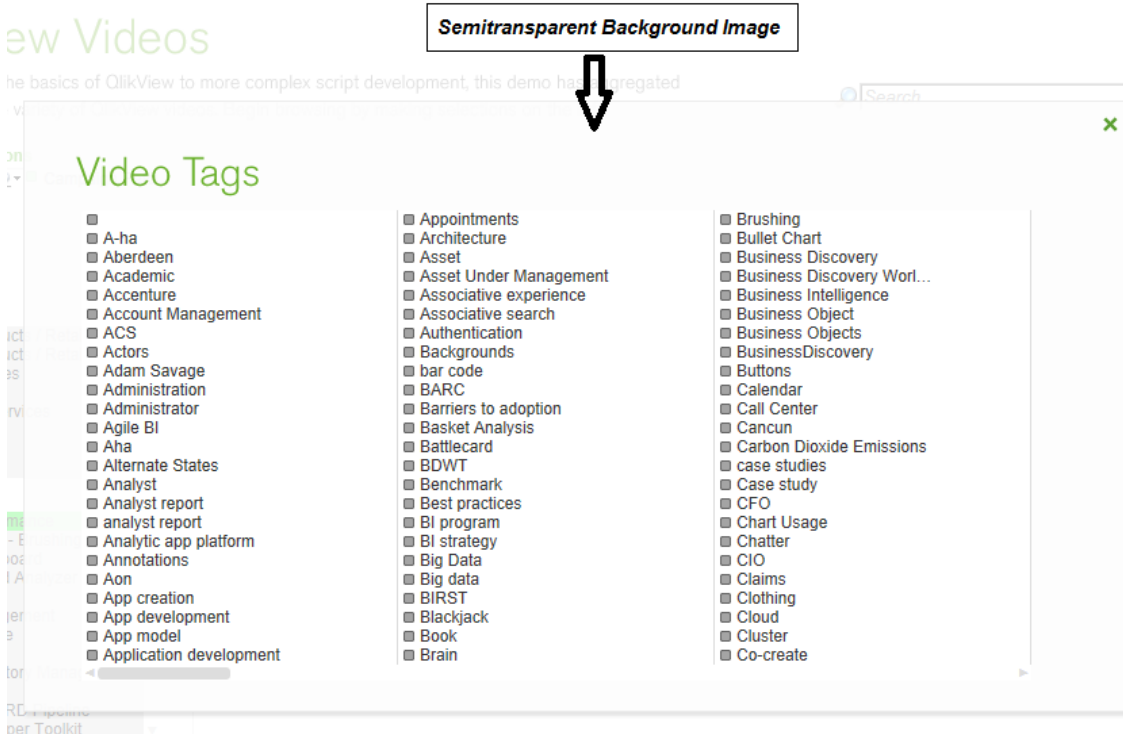


15. In the Options sections select Use Show Condition

16. In the expression box for Show Condition add vShowTags='NO'

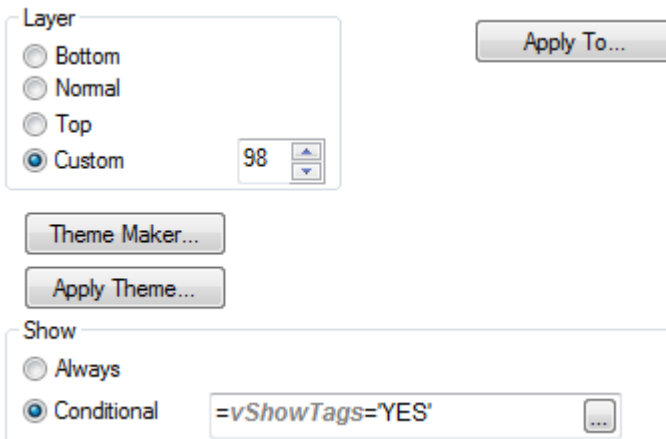


17. Create a text box and add the image for the semitransparent background

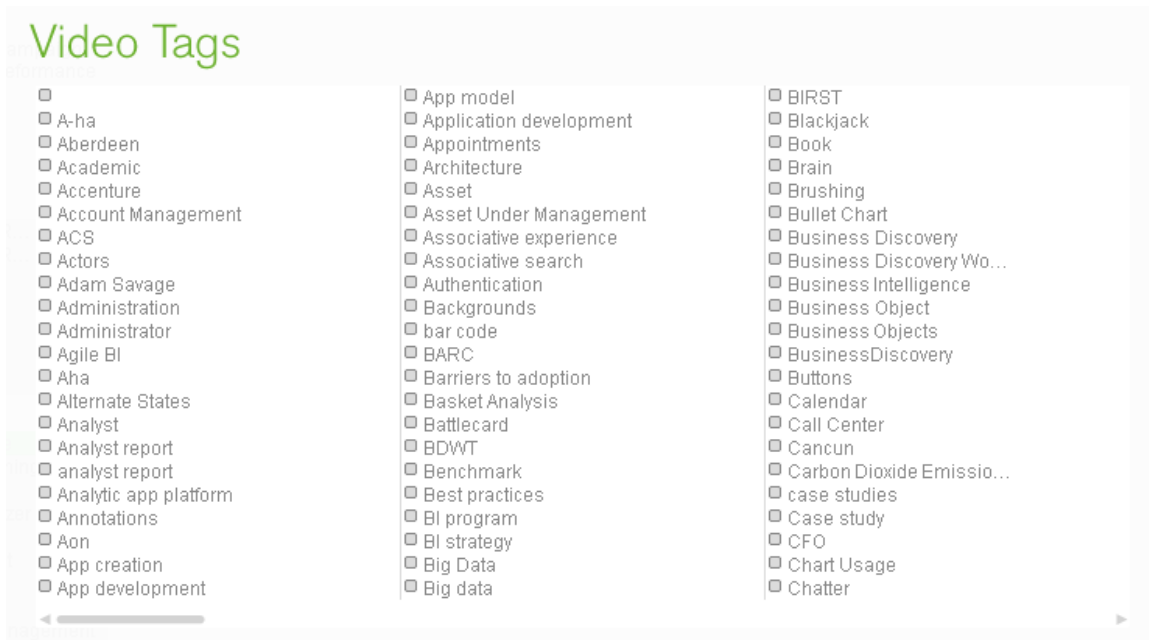


18. Add a Show Condition expression as =vShowTags='YES'

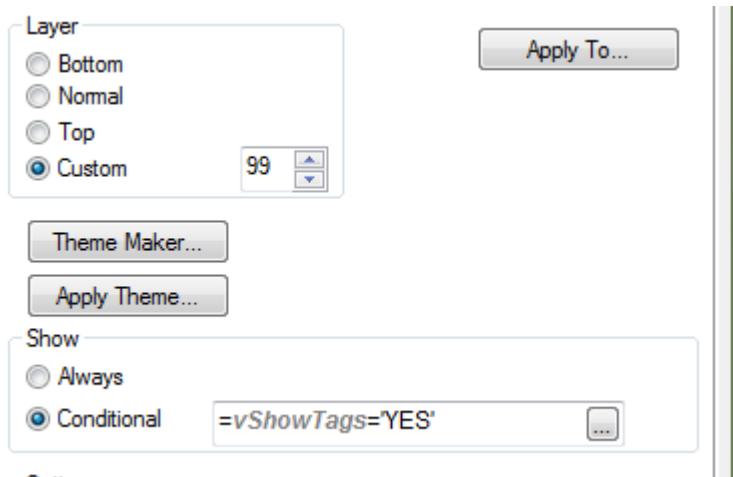
19. Set the Layout layer to a high number (98)



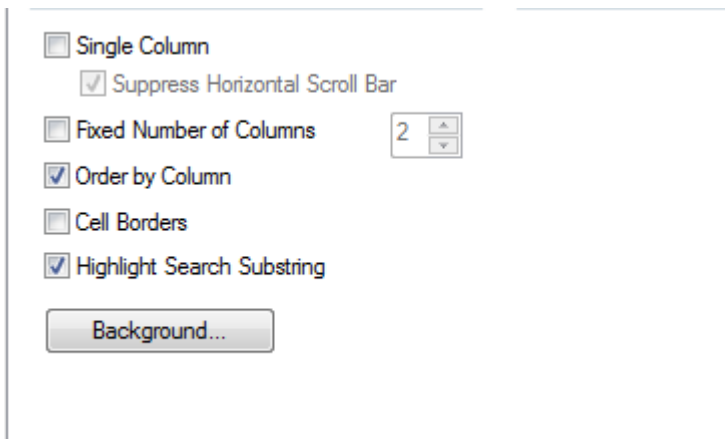
20. Create a list box for Tags



21. Set the Layout Layer to a higher number than the text box (99)

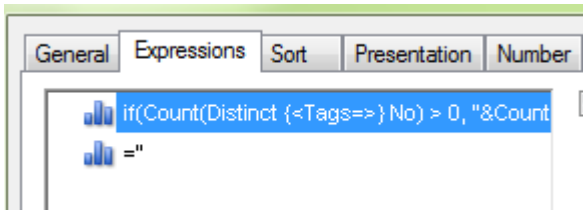


22. Under Presentation, deselect Single Column



23. Under Expressions create these 2 expressions

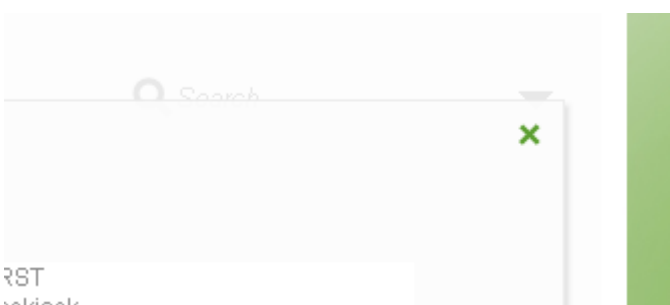
- `if(Count(Distinct {<Tags=>} No) > 0, "&Count(Distinct {<Tags=>} No) & ", "`
- `="`



24. Create a clear button to place over the 'X' in the semitransparent textbox

25. Create an action that sets the variable `vShowTags= NO`

26. Set the Show Condition expression to `vShowTags='YES'`



Additional Things to Consider

Keep in mind that when a video is showing in the webpageviewer, it takes layer preference on the screen. You cannot hide the video behind a text box. You must hide the extension with a show / hide condition.

Summary

In this technical brief, the steps to create the Video Player Demo were outlined. The Video Player Demo uses a QlikView extension to show a video within a QlikView QVW.



References

Below are supporting materials that may be helpful:

QVW – Video Player.qvw

QlikView Extension – Webpageviewer.qar

www.qlikview.com

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