

Building an advanced touchscreen application

Multiple Choice Quiz

The quiz page set-up follows a repeating format. We have used an example question about Bristol Museum and Art Gallery below.

- Page 1: Multiple Choice Question and boxes (with hyperlinks) for the answer options
- Page 2: Result: correct answer - Alfred in our example
- Page 3: Result: wrong answer(s) = Harry, King Kong and Cedric in our example
- You need to set up the hyperlinks so that correct answer (in this case Alfred) links to the 'correct slide' and wrong answers link to the 'wrong slide'. Refer to worksheet 1 if you need a reminder on creating links
- The 'correct slide' will contain a congratulation message and perhaps gives more details to the
- The 'wrong slide' states the correct answer and an explanation.

**What is the name of the gorilla at
Bristol Museum?**

Harry

King Kong

Alfred

Cedric

Note: Running Score not possible at this level

This requires the use of code (Visual Basic for Applications Macros). If you were to explore this as an extension exercise please note that PowerPoint Viewer does not support Macros so in order for it to run you would also need the full version of PowerPoint on the PC.

Map interactive with videos

- This example uses a map for the main menu and then each location on the map triggers an associated video clip.
- This main menu page works the same as the menu on the standard interactive on worksheet 1.
- The main difference is the layout of the 'Image buttons' on the map.
- When a user clicks on a button they are taken to another page (same behaviour as with the 'Gallery Page') but this time it shows information and video related to that location.



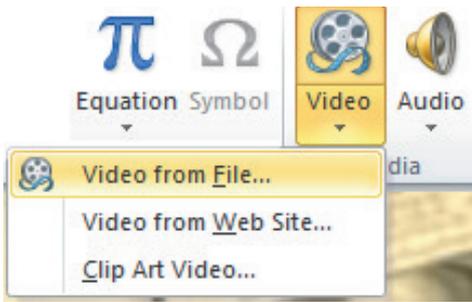
The linked Location Page (example below) is similar to our 'Gallery Page'. It still shows some content and has a 'back button' to return to the main menu. The content is laid out slightly differently and has the addition of a video clip as the main feature.

26. Shakespeare the 'storyteller'

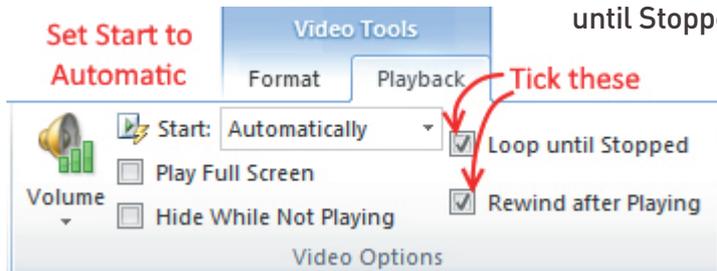
[Back to London](#)

Why is Shakespeare still so popular all around the world? He knew humanity, he understood all aspects of the human condition, and he could write to appeal to the masses. From high, beautiful poetry, to low comedic debauchery – he could do it all.

To add video files



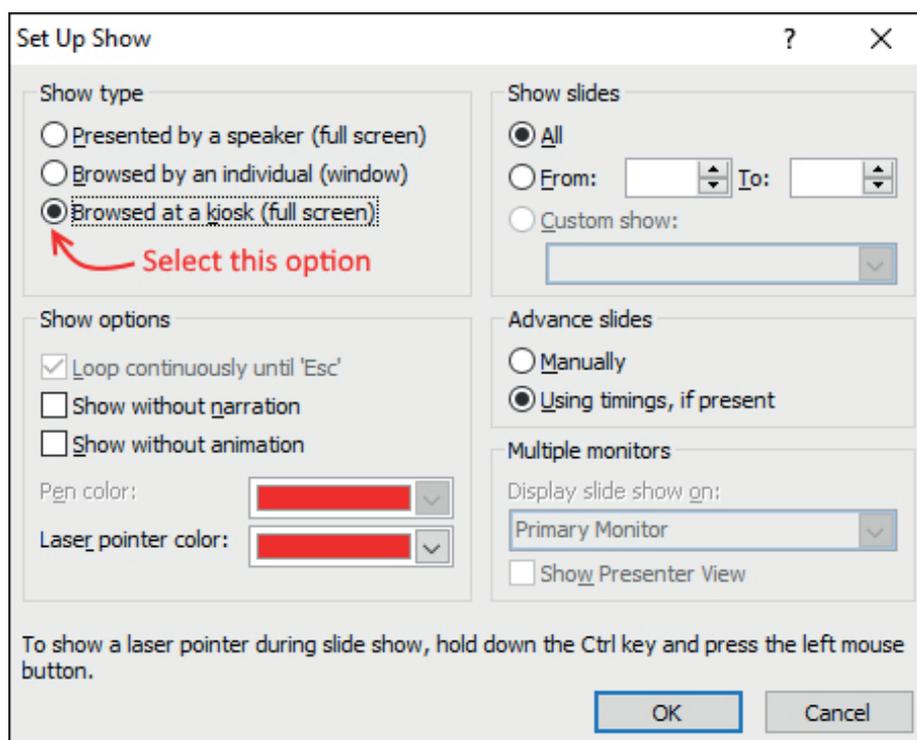
- 1 Click on the **Insert** tab > choose the **Video** drop down > select **Video from File...**
- 2 This will bring up a **file dialog box** and you can select your video format from your saved files.
- 3 As we are most likely using a low-powered PC the ideal video files are lower resolution and will need to have been converted to the **.wmv filetype** (this is a Microsoft standard)
- 4 Change settings: Under **Video Tools** > select **Playback**.
- 5 You need to set the video to start **Automatically** and tick both **Loop until Stopped** and **Rewind after Playing**.



- 6 When the user clicks on a video they will get addition controls to skip through the clip. Generally these icons are too small to be functional on a touchscreen so we can disable them:
- 7 Open the **Slide Show** tab > untick the **Show Media Controls** option.



- 8 The final step is to ensure that the slideshow is set up to **Kiosk Mode**.
- 9 Click on the **Slide Show** tab > select **Set Up Slide Show** option to bring up the dialog box > select **Browsed at a kiosk** option and click **OK**



- 10 Save the file and then transfer it to a USB stick and copy over to your target PC.

Troubleshooting: If animations do not work when you return to a previous slide

PowerPoint has a feature that if you go to back to a previous slide it remembers how it was when you left it. Generally when giving a presentation this is a useful feature – however when we are using it to make an interactive this is a hindrance as we usually want each page to reset to their original state. It turns out that if you go to the slide again (only forward) it will reset it back to the original (the behaviour we would like).

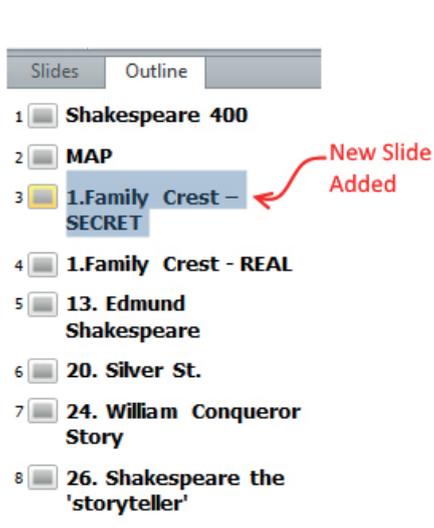
Note: the video playback is triggered using animations – so if your video isn't correctly restarting this is probably the reason.

Solution

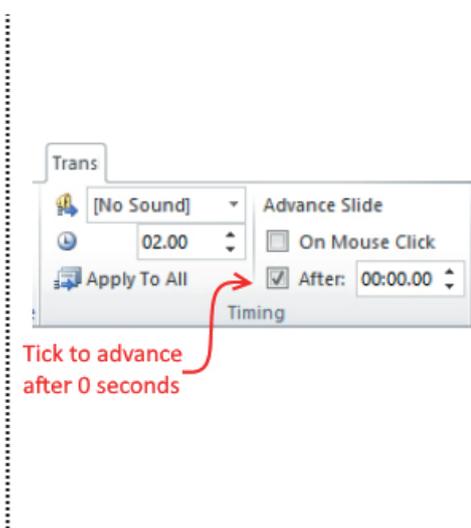
The option compatible with PowerPoint Viewer is to always transition forward to that slide.

Add an additional (secret) blank slide before the real one and have that transition forward automatically after 0 seconds. The steps for this are:

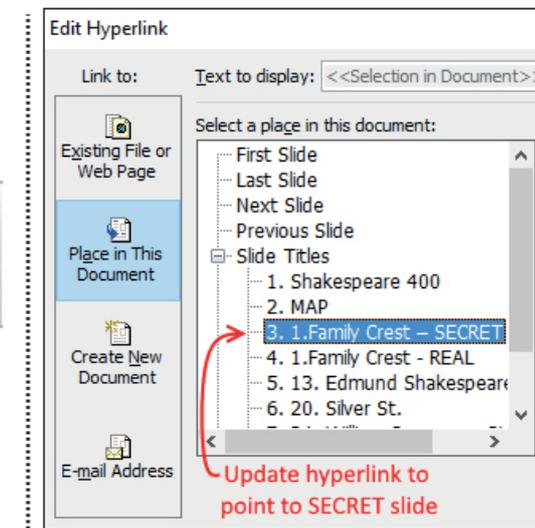
- 1 Insert new secret slide before the real slide.
- 2 Set this new slide to immediately transition.
- 3 Update any hyperlinks to point to our secret slide.



The screenshot shows the PowerPoint Slides pane with a list of slides. Slide 3, '1. Family Crest - SECRET', is highlighted in blue and has a red arrow pointing to it with the text 'New Slide Added'. Slide 4 is '1. Family Crest - REAL'. The other slides are: 1. Shakespeare 400, 2. MAP, 5. 13. Edmund Shakespeare, 6. 20. Silver St., 7. 24. William Conqueror Story, and 8. 26. Shakespeare the 'storyteller'.



The screenshot shows the 'Timing' tab in the 'Trans' task pane. The 'Advance Slide' section has the 'On Mouse Click' checkbox checked and the 'After' time set to '00:00:00'. A red arrow points to the 'After' field with the text 'Tick to advance after 0 seconds'.



The screenshot shows the 'Edit Hyperlink' dialog box. The 'Text to display' field contains '<<Selection in Document>>'. The 'Link to' section is set to 'Place in This Document'. The 'Select a place in this document:' list shows the following items: First Slide, Last Slide, Next Slide, Previous Slide, Slide Titles, 1. Shakespeare 400, 2. MAP, 3. 1. Family Crest - SECRET (highlighted in blue), 4. 1. Family Crest - REAL, 5. 13. Edmund Shakespeare, and 6. 20. Silver St. A red arrow points to the '3. 1. Family Crest - SECRET' item with the text 'Update hyperlink to point to SECRET slide'.

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