AcroT_EX.Net

The fldigigal Package Creating Flash Digital Galleries

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1. Introduction

The fldigigal package is the third application of rmannot; the others are the AcroFeX and yt4pdf packages.

The Flash Digital Gallery distribution consists of a Lagrange fldigigal, several SWF files, a small collection of digital photos, and sample files. The purpose of this distribution is to provide a convenient way to create a Flash slideshow. The distribution offers several design layouts of the slideshow, called *galleries*. Below is an example of a slideshow created by fldigigal using source code from this document.

Flash Digital Gallery

The photos themselves may be embedded in the PDF file (increasing the file size), or may be referenced with an URL. The gallery can be manually operated, or set to change photos at a regular interval.

There are steps for creating a flash digital gallery:

- 1. In the preamble of your document, specify the digitals (PNG, JPG, GIF) you want displayed in you gallery. This is entered by using the \fdgXmlList command. See the section 'In the Preamble: Populating the \fdgXmlList Command' on page 4 for details.
- 2. In the body of the document, create a Rich Media Annotation (RMA) using the command \fgRmAnnot, defined in fldigigal. For details of this command, see the section 'In the Body: Create a Gallery with \fgRmAnnot' on page 7.

2. Requirements

This package is part of AeB Pro, which means Acrobat Distiller is used to create the PDF; the package requires rmannot, which creates rich media annotations. Therefore, we require

Adobe Acrobat, version 9.0 or later

To use this package, the document author must have AeB and AeB Pro installed, as well as rmannot. The manual for rmannot needs to be read closely to install it properly and for it to function correctly.

3. Configuring your installation

In addition to configuring the rmannot package correctly, the fldigigal package needs configuring as well. The fldigigal comes with a configuration file fldigigal.cfg. Open this file in your favorite editor to see

```
% fldigigal config file. Delete the \endinput below and replace the path
```

% provided with the path to the swf folder of your fldigigal installation.

% This path is used to locate the fldigigal SWF files. \endinput

\renewcommand{\fdgFolder}{C:/Users/Public/Documents/My TeX Files/%
 tex/latex/aeb/aebpro/fldigigal/swf}

Edit this file so that \fdgFolder points to the swf folder on your computer.

4. In the Preamble: Populating the \fdgXmlList Command

The AcroTEX Flash Gallery SWF files take several arguments that are passed to it using FlashVars; one such variable is a reference to an XML file that contains the paths and captions to the digital files. When I began developing the package, the XML file was just hand-written in an editor; when I started to write the package, I included the \fdgXmlList command which writes the XML file as the source file is compiled.

At the bare minimum, the preamble must include a definition for \pathToSource and the \fdgXmlList command.

The definition of \pathToSource should be made using the \definePath command, defined in the eforms package. Here is one such definition to a sample file in this distribution.

\definePath{\pathToSource}{%
 C:/Users/Public/Documents/My TeX Files/tex/%
 latex/aeb/aebpro/fldigigal/examples}

The fldigigal uses the Adobe Distiller to create the PDF file. Distiller only works with absolute file references; so, Distiller needs to know the location of XML file that is to be written by the \fdqXmlList command. *This definition is required*.

Another (optional, but recommended) definition is the path to the digital files. The photos may reside on your local hard drive, or on the Internet. In the example that follows, we illustrate the method of defining the paths; one for a local hard drive, the other for photos found online.

```
\definePath{\digisOnline}{%
   http://www.math.uakron.edu/~dpstory/photos/pa_demo}
\definePath{\digisLocal}{\pathToSource/digis}
```

These paths may then be conveniently included in the path key of the \image command, see below.

```
\fdgXmlList[<kv-pairs>]{<name>}{%
    \image{...}
    \image{...}
    ...
    \image{...}
}
```

Command Description: When the source document compiles, this command writes an XML file to the source file's folder. The XML is later embedded in the PDF file when the file is distilled.

Parameter Description: The command has three arguments, the first is optional.

- [#1] The optional argument labeled above as [<kv-pairs>] may include only two (Boolean) key-value pairs: showcounts and nowrite.
 - showcounts When this key appears as showcount or as showcount=true, a count and a total count of the number of photos appearing in the gallery is displayed in the title bar. The count appears as (1 of 8), for example, but this can be redefined by the command \fdgcntOf. The default definition is

The default is that no count is written to the title bar of the gallery.

- nowrite You optionally include this key in the list if the XML has already been
 written to your source folder; however, if you change options, or change the
 key-value pairs of the \image commands, you will need to re-write the XML
 by removing the nowrite option.
- #2 The second parameter, <name>, is a unique name for the gallery being created with the photos; for example myVacation2010. The name should follow the rules of a JavaScript variable.
- #3 The third argument consists of a series of \image commands, each command takes three key-value pairs.
 - path: The path to the digital file, the path may be that to a digital file on your hard drive, or on the Internet. A digital file may be a JPG, PNG, or GIF file. This key is required.

- caption: The (short) descriptive string to be displayed along with the associated photo. This key is optional, if not present, the filename of the digital file is displayed. See the optional key-values nocaptions and nocaptionstext of \fgRmAnnot.
- online: Use this key to indicate that the path key is an URL, and refers to a resource on the Internet. If this key is not present, it is assumed that path points to a file on the local hard drive, and Distiller will get that file and embed it in the PDF. If Distiller does not find the file, distillation is aborted and a message is written to the distiller long which suggests that it cannot find the file.

Below is an example of the \fdgXmlList used for this document, I've modified the first two entries by removing the online key, and replacing \digiOnline with \digisLocal to demonstrate how you reference each type. (The definitions of \digiOnline and \digisLocal appeared earlier.) For this definition below, two files will be embedded (the first two), all others are online and the gallery will get them from the Internet.

```
\fdgXmlList{myDigis}
   {%
       \image{path=\digisLocal/Chrysanthemum.jpg,
           caption=Jürgen\'s Chrysanthemum}
       \image{path=\digisLocal/Desert.jpg,caption=Desert}
       \image{path=\digisOnline/Hydrangeas.jpg,caption=Hydrangeas.online}
6
       \image{path=\digisOnline/Jellyfish.jpg,caption=Jellyfish,online}
       \image{path=\digisOnline/Koala.jpg,caption=Koala,online}
8
       \image{path=\digisOnline/Lighthouse.jpg,caption=Lighthouse,online}
       \image{path=\digisOnline/Penguins.jpg,caption=Penguins,online}
       \image{path=\digisOnline/Tulips.jpg,caption=Tulips,online}
11
   }
12
```

One comment is needed, refer to line (3). I've included my friend, Jürgen, name value of the caption key to demonstrate how to use special latin-1 characters. The u-umlaut (ü) may be entered by your keyboard, as I have, or by special command \iso{252}, which expands to 'ü'. The interested user is referred to these two online documents.

```
http://en.wikipedia.org/wiki/List_of_XML_and_HTML_character_entity_references http://www.html-entities.com/
```

The \iso{<dec>} command expands to &#<dec>;, see above URLs to determine the correct value of the <dec> to get the desired glyph.

The second comment concerns the single apostrophe ('). The captions are enclosed in single quotes, so if you want an apostrophe, you must use the the character entity ''', or you can use \', as I did above. This special command, redefined within a group, expands to '''. Thus, we can write Jürgen\'s, or Jürgen's, or J\iso{252}rgen's, etc. If you want to use an ampersand, use '&'.

OK, that's it for the preamble; on to \fgRmAnnot!

5. In the Body: Create a Gallery with \fgRmAnnot

To create a flash gallery of photos, use the command \fgRmAnnot, its definition uses the command \rmAnnot, which is defined in the rmannot package.

```
\fgRmAnnot[<kv-pairs>]{<name>}
```

Parameter Description:

- 1. The first (optional) parameter is used to pass the key-value pairs of the \rmAnnot command. Additionally, the galleryopts key is recognized by the \fgRmAnnot command. The value of the galleryopts key consists of key-value pairs that customize the gallery.
 - gallery: The value of this key determines the layout of the gallery. Permissible choices are vthumbs1 (vertical thumbnails on the left), hthumbs1 (horizontal thumbnails below digital), and nothumbs1 (no thumbnails, the caption bar is a multiline text field so longer captions may be displayed). More designs are possible, as my skill in Flash Professional Pro CS5 increases. The default is vthumbs1.
 - trans: This key determines the transition effects. Possible values are Blinds, Fade, Fly, Iris, Photo, PixelDissolve, Rotate, Squeeze, Wipe, Zoom, Random. The default is Random.
 - auto: If true, the gallery will automatically display the list of photos at a regular interval. The user can stop the automatic display by pressing the pause button. The default is auto=true.
 - delay: The delay, in seconds, between the automatic display of photos. The default is 6 (seconds).
 - captionalign The alignment of the text in the caption bar. Possible choces are left (the default), right, and center. This key-value pair is ignored for gallery=nothumbs1.
 - nocaptions: A Boolean key, which if true, the caption strings are not displayed in the caption bar.
 - nocaptionstext: If the nocaptions key is passed, you can populate the caption bar with a static string. Thus, nocaptionstext=Hi Mom! displays the string 'Hi Mom' in the caption bar for each and every photo.

See the manual for the rmannot package for more details on the key-value pairs that can be passed through the optional first parameter.

2. The <name> argument matches the <name> argument of a \fdgXmlList declared in the preamble.

The example that appeared earlier in this manual has code

```
1 \resizebox{.9\linewidth}{!}
2 {%
3 \fgRmAnnot[%
4 galleryopts={gallery=vthumbs1,auto=false,captionalign=center},
5 posternote={Flash Digital Gallery},enabled=pageopen
6 ]{myDigis}
7 }
```

Line (1) shows how the gallery may be resized used using \resizebox (or by using \scalebox). In line (3) we have the \fgRmAnnot command that creates the digital gallery. In line (4), we specify some of the galleryopts key-value pairs. The other key-value pairs (outside the scope of galleryopts are \rmAnnot key-value pairs. The second argument, the <name> argument is shown in line (6). This name matches the name declared earlier in the preamble in an \fdqXmlList command.

6. Sample files

The following are the sample files shipped with fldigigal:

- fdg_demo.tex lays out the basic structure for creating a *AcroT_EX Flash Digital Gallery*. You can experiment with this file by changing the options.
- fdg_demo_fit.tex demonstrates how to have a one-page gallery whose size matches the size of the page.

Advanced examples AeB Blog site.

That's all for now, I simply must get back to my retirement. 🕸