

Photo Gallery

Description

This sample demonstrates how to mimic mail merge behavior to create a photo gallery using PowerPointWriter.

The Data

The data for this sample is a file containing multiple images. The images will be programmatically added to a data table along with a description.



Chrysanthemum.jpg



Desert.jpg



Hydrangeas.jpg



Jellyfish.jpg



Koala.jpg



Lighthouse.jpg



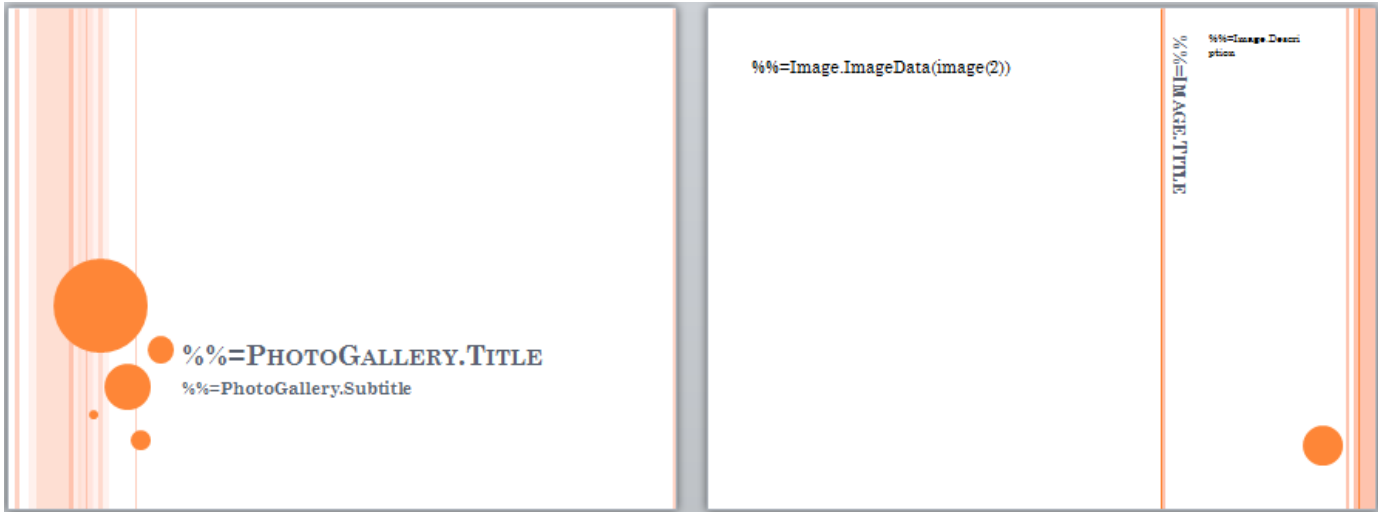
Penguins.jpg



Tulips.jpg

The Template

Our template presentation consists of a title slide and a content slide. The content slide will be repeated for each of our images.



h3. The Code

The code below uses `ExcelApplication` to extract the data from the Excel spreadsheet into a `DataTable`. This code is also used in the `ExcelWriter` sample, [Excel to DataTable Sample](#). It then passes the presentation to `PowerPointTemplate` and binds the data. The code uses `[MaxRowsPerSlide|DatabindingProperties.MaxRowsPerSlide]` to ensure the data fits neatly in the presentation. See [Fitting Data on to Multiple Slides](#) for more information.

```

private void MailMerge(){
using(PowerPointTemplate ppt = new PowerPointTemplate()){
ppt.Open(@"C:\..\..\PhotoGalleryTemplate.pptx");
string[] colNames = { "Title", "Subtitle" };
object[] values = { "My photo gallery", "Images from April vacation 1998" };
ppt.BindData(values, colNames, "PhotoGallery", ppt.CreateDataBindingProperties());
DataTable imagedt = GetImageData();

DataBindingProperties dataProps = ppt.CreateDataBindingProperties();
dataProps.MaxRowsPerSlide = 1;
ppt.BindData(imagedt, "Image", dataProps);
ppt.Process();
ppt.Save(@"C:\..\..\outputs\PhotoGalleryOutput.pptx");
}
}
private DataTable GetImageData()
{
string filePath = @"C:\..\..\inputs\";
DataTable imagedt = new DataTable();
imagedt.Columns.Add("ImageData", typeof(byte[]));
imagedt.Columns.Add("Title");
imagedt.Columns.Add("Description");
imagedt.Rows.Add(new object[] { System.IO.File.ReadAllBytes(filePath +
"Chrysanthemum.jpg"), "Chrysanthemum", "A beautiful red flower" });
imagedt.Rows.Add(new object[] { System.IO.File.ReadAllBytes(filePath + "Desert.jpg"),
"Blistering Desert", "Red plateaus of the desert" });
imagedt.Rows.Add(new object[] { System.IO.File.ReadAllBytes(filePath +
"Hydrangeas.jpg"), "Hydrangeas", "From a walk" });
imagedt.Rows.Add(new object[] { System.IO.File.ReadAllBytes(filePath +
"Jellyfish.jpg"), "Jellyfish", "Spotted at the aquarium" });
imagedt.Rows.Add(new object[] { System.IO.File.ReadAllBytes(filePath + "Koala.jpg"),
"Koala Bear", "From the zoo" });
imagedt.Rows.Add(new object[] { System.IO.File.ReadAllBytes(filePath +
"Lighthouse.jpg"), "North Harbor Lighthouse", "An old lighthouse off the coast of my
summer home" });
imagedt.Rows.Add(new object[] { System.IO.File.ReadAllBytes(filePath +
"Penguins.jpg"), "Penguin Trio", "Emperor penguins that happened to stumble on the
beach outside my hotel" });
imagedt.Rows.Add(new object[] { System.IO.File.ReadAllBytes(filePath + "Tulips.jpg"),
"Golden Tulips", "Day 1 of my holiday in Holland" });
return imagedt;
}
}

```

Result

Below is one of the resulting slides from our output file.



PENGUIN TRIO

Emperor penguins
that happened to
stumble on the
beach outside my
hotel



Downloads

- * Images: inputs.zip
- * Template: PhotoGalleryTemplate.pptx
- * Sample output: PhotoGalleryOutput.pptx