

Insert Image Demo

Intro

WordTemplate can insert images from byte arrays or ADO.NET objects into your Word documents.

The AdventureWorks SQL query includes the *ProductPhoto.ThumbNailPhoto* field, which is a binary image stored in the database. By using special merge field syntax (click "View template" to see the template document and merge fields), you can import the image from the DataColumn into the document at runtime.

Code

```
public void GenerateDocument()
{
    //Retrieve the datatable with a a helper method
    DataTable dt = GetData();
    // A list of the mergefield names in the template file
    string[] fieldNames = { "ProductNumber", "ProductName", "ProductPrice",
"ProductImage" };

    // Name of the template bookmark that marks the repeatblock
    string repeatBlockName = "ProductRow";

    WordTemplate wt = new WordTemplate();

    // Open the template document
    wt.Open(@"..\..\WordTemplateFiles\InsertImageTemplate.docx");

    // Set the repeat block by providing the data source,
    // a list of mergefield names in the proper order, and
    // the name of the repeat block bookmark

    wt.SetRepeatBlock(dt, repeatBlockName);

    // Call process() after setting the data source and/or repeat blocks
    wt.Process();

    //Save the output to the desired location
    wt.Save(@"..\..\WordOutputFiles\InsertImage_output.docx");

    return;
}

//Gets all data for product catalog including pictures.
private DataTable GetData()
{
    DataTable dt = GetProductData(@"..\..\WordData\InsertImageData.csv");
    dt.Columns.Add("ProductImage", typeof(byte[]));
    for (int k = 0; k < dt.Rows.Count; k++)
    {
        string imageName = dt.Rows[k].ItemArray[3].ToString();
        dt.Rows[k][4] = GetPictures(imageName);
    }
}
```

```

        return dt;
    }

    // Get a DataTable of product data excluding photos
    private DataTable GetProductData(string csvFileName)
    {
        DataTable dt = new DataTable();
        using (GenericParserAdapter parser = new
GenericParserAdapter(csvFileName))
        {
            parser.ColumnDelimiter = ',';
            parser.FirstRowHasHeader = true;

            dt = parser.GetDataTable();
        }
        return dt;
    }

    private byte[] GetPictures(string picName)
    {
        //Opens image and returns byte array
        byte[] imageArray =
File.ReadAllBytes(@"..\..\WordImages\InsertImageDemoImages\" + picName);

        //ReadAllBytes() is able to find the files.
        return imageArray;
    }

```

```
}
```

Downloads

Template: [InsertImageTemplate.docx](#)

Data: [InsertImageData.csv](#)

Output: [InsertImage_output.docx](#)