

HOWTO: Save embedded XMP annotation data in a Jpeg or Tiff

This article is designed to be used with the Load methodology described in Q10308 - HOWTO: Load Annotations from Jpeg or Tiff

Jpeg and Tiff formats allow for custom tags to be added during encoding. This allows a user of DotImage to embed XMP annotation data into an image file using the JpegEncoder or TiffEncoder. The example below is an abstracted version of saving that removes the role of the AnnotationController. This allows the same code to be used to save and load in different viewers.

C#

```
public void Save(System.IO.Stream s, Atalasoft.Imaging.AtalaImage image,
Atalasoft.Annotate.UI.LayerCollection layers) { SetXmp(layers); myImageEncoder.Save(s, image,
null); } private void SetXmp(Atalasoft.Annotate.UI.LayerCollection layers) { XmpFormatter xmp
= new XmpFormatter(); MemoryStream mem = new MemoryStream(); xmp.Serialize(mem, layers);
mem.Seek(0, SeekOrigin.Begin); SetEncoderXmp(mem.ToArray()); } private void
SetEncoderXmp(byte[] p) { TiffEncoder tiff = myImageEncoder as TiffEncoder; if (tiff != null)
tiff.Xmp = p; JpegEncoder jpeg = myImageEncoder as JpegEncoder; if (jpeg != null) jpeg.Xmp =
p; }
```

VB.NET

```
public Sub Save(ByVal s As System.IO.Stream, ByVal image As Atalasoft.Imaging.AtalaImage,
ByVal layers As Atalasoft.Annotate.UI.LayerCollection) SetXmp(layers) myImageEncoder.Save(s,
image, Nothing) End Sub Private Sub SetXmp(ByVal layers As
Atalasoft.Annotate.UI.LayerCollection) Dim xmp As New XmpFormatter() Dim mem As New
MemoryStream() xmp.Serialize(mem, layers) mem.Seek(0, SeekOrigin.Begin)
SetEncoderXmp(mem.ToArray()) End Sub Private Sub SetEncoderXmp(ByVal p As Byte()) Dim tiff As
TiffEncoder = TryCast(myImageEncoder, TiffEncoder) If tiff IsNot Nothing Then tiff.Xmp = p
End If Dim jpeg As JpegEncoder = TryCast(myImageEncoder, JpegEncoder) If jpeg IsNot Nothing
Then jpeg.Xmp = p End If End Sub
```

The following snippet shows how to load back this same data into a new LayerCollection:

C#

```
XmpAnnotationDataImporter imp = new XmpAnnotationDataImporter(stream);
AnnotationDataCollection data = imp.Import(); LayerCollection layers = new LayerCollection();
foreach (LayerData layerdata in data) { LayerAnnotation layer = new
LayerAnnotation(layerdata); layer.CreateAnnotationUIObjects(new
AnnotationUIFactoryCollection()); layers.Add(layer); }
```

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VB.NET

```
im imp As New XmpAnnotationDataImporter(stream) Dim data As AnnotationDataCollection =  
imp.Import() Dim layers As New LayerCollection() For Each layerdata As LayerData In data Dim  
layer As New LayerAnnotation(layerdata) layer.CreateAnnotationUIObjects(New  
AnnotationUIFactoryCollection()) layers.Add(layer) Next
```

Original Article:

Q10274 - HOWTO: Save embedded XMP annotation data in a Jpeg or Tiff

Atalasoft Knowledge Base

<https://www.atalasoft.com/kb2/KB/50197/HOWTO-Save-embedded-XMP-annotation-d...>