
Subject: StreamRasterEncoder puzzle

Posted by [nixnixnix](#) on Tue, 15 Apr 2008 13:07:03 GMT

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So here's a puzzle for you:

The following piece of code writes all four image types but the resulting PNG and TIF files cannot be read by photoshop elements. They can be read by other less fussy types of image viewer. And here's the bit that's puzzling, when I use the same plugins elsewhere to write TIF and PNG, photoshop reads the resulting files just fine and even with this code, photoshop can read the resulting BMP and JPG files just fine. Can you find the error?

```
bool RasterLayer::SaveLegendAsImage(String path)
```

```
{
    StreamRasterEncoder* pEnc=NULL;

    if(path.Find(".jpg") || path.Find(".JPG"))
    {
        pEnc = new JPGEncoder(100); // top quality
    }
    else if(path.Find(".png") || path.Find(".PNG"))
    {
        pEnc = new PNGEncoder(); // default 32bpp
    }
    else if(path.Find(".tif") || path.Find(".TIF"))
    {
        pEnc = new TIFEncoder(); // default 24bpp
    }
    else if(path.Find(".bmp") || path.Find(".BMP"))
    {
        pEnc = new BMPEncoder(); // default 24bpp
    }
    else
    {
        return false;
    }
}
```

```
ImageDraw id(2000,2000);
DrawLegend(id);
```

```
Image img = id.GetStraight();
```

```
pEnc->SaveFile(path,img);
```

```
delete pEnc;
```

```
return true;
}
```

Cheers,

Nick

EDIT: the following code (and you can see the different things I've tried commented out) has the same effect

```
bool RasterLayer::SaveLegendAsImage(String& path)
{
    ImageDraw id(1500,2000);
    DrawLegend(id);

    // Image img = id.GetStraight();
    // Image img(id);

    ImageBuffer ib(id);
    Image img(ib);

    if(path.Find(".jpg") || path.Find(".JPG"))
    {
        JPEGEncoder enc(100); // top quality
        if(!enc.SaveFile(path,img))
        {
            PromptOK("problem saving legend");
            return false;
        }
    }
    else if(path.Find(".png") || path.Find(".PNG"))
    {
        PNGEncoder enc; // default 32bpp
        if(!enc.SaveFile(path,img))
        {
            PromptOK("problem saving legend");
            return false;
        }
    }
    else if(path.Find(".tif") || path.Find(".TIF"))
    {
        TIFEncoder enc; // default 24bpp
        if(!enc.SaveFile(path,img))
        {
            PromptOK("problem saving legend");
            return false;
        }
    }
}
```

```
}  
}  
else if(path.Find(".bmp") || path.Find(".BMP"))  
{  
    BMPEncoder enc; // default 24bpp  
    if(!enc.SaveFile(path,img))  
    {  
        PromptOK("problem saving legend");  
        return false;  
    }  
}  
else  
{  
    return false;  
}  
  
return true;  
}
```
