Subject: Re: JPEG Images do not get rotated correctly
Posted by Oblivion on Thu, 04 Oct 2018 09:28:13 GMT
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Hello Tom,

There seems to be support for EXIF rotation in U++, jpeg plugin, but I think its usage is -reasonably, IMO- left to client code.

See plugin/jpg/jpgupp.cpp, ln: 341, 343 (JpegRaster:Data:ExifDir):

```
 if(type == BASE_IFD) {
  if(tag == 0x112)
   metadata.Add("orientation", Exif16(data));
```

Now, I did not test this yet, as I rarely work with jpg images directly, but it should be possible to extract the information using JpegRaster::GetMetaData("orientation").

Edit: Ok, I've tested it and it works with ImageView too:

```
void ImageView::Load(const char *filename)
{
 img.SetImage(Null);
 FileIn in(filename);
 One<StreamRaster> r = StreamRaster::OpenAny(in);
 if(!r)
  return;

 JPGRaster *jpg = dynamic_cast<JPGRaster*>(~r);
 if(jpg) {
  DUMP(jpg->GetMetaData("orientation")); // will return "3" for the image you've provided.
 }

 Size rsz = img.GetSize();
 Size isz = r->GetSize();
 if(isz.cx >= rsz.cx || isz.cy >= rsz.cy) {
  if(isz.cx * rsz.cx < rsz.cy * isz.cy)
   rsz.cx = isz.cx * rsz.cy / isz.cy;
  else
   rsz.cy = isz.cy * rsz.cx / isz.cx;
  ImageEncoder m;
  Rescale(m, rsz, *r, isz);
  img.SetImage(m);
 }
 else
```

```
  img.SetImage(r->GetImage());
}
```

Best regards,
Oblivion
