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Subject: Re: JPEG Images do not get rotated correctly

Posted by [Tom1](#) on Sun, 21 Oct 2018 14:20:14 GMT

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Hi Mirek,

Could you possibly add two lines of code in jpgupp.cpp in order to support Exif "DateTime" -tag:

```
int JPGRaster::Data::ExifDir(const char *begin, int offset, IFD_TYPE type)
{
    const char *e = begin + offset;
    int nitems = Exif16(e);
    // puts(NFormat("directory %08x: %d items", dir, nitems));
    e += 2;
    for(int i = 0; i < nitems; i++, e += 12) {
        int tag = Exif16(e);
        int fmt = Exif16(e + 2);
        int count = Exif32(e + 4);
        static const int fmtlen[] = {
            1, 1, 2, 4, 8, 1, 1, 2, 4, 8, 4, 8
        };
        int len = 0;
        if(fmt > 0 && fmt <= __countof(fmtlen))
            len = fmtlen[fmt - 1] * count;
        const char *data = e + 8;
        if(len > 4)
            data = begin + Exif32(data);
        // puts(NFormat("[%d]: tag %04x fmt %d, count %d, data %s",
        // i, tag, fmt, count, BinHexEncode(data, data + len)));
        if(type == BASE_IFD) {
            if(tag == 0x112)
                metadata.Add("orientation", Exif16(data));
            if(tag == 0x132)
                metadata.Add("DateTime", String(data, 20));
            if(tag == 0x8825) {
                int offset = Exif32(data);
                // puts(NFormat("GPS IFD at %08x", offset));
                ExifDir(begin, offset, GPS_IFD);
            }
        }
        else if(type == GPS_IFD) {
            if((tag == 2 || tag == 4) && fmt == EXIF_RATIONAL && count == 3) {
                metadata.Add(tag == 2 ? "GPSLatitude" : "GPSLongitude",
                    ExifF5(data + 0) + ExifF5(data + 8) / 60 + ExifF5(data + 16) / 3600);
                // puts(NFormat("GPSLatitude: %n %n %n", n1, n2, n3));
            }
            else if(tag == 6 && fmt == EXIF_RATIONAL && count == 1)
                metadata.Add("GPSAltitude", ExifF5(data));
            else if(tag == 16 && fmt == EXIF_ASCII && count == 2 && *data)
```

```
    metadata.Add("GPSImgDirectionRef", String(*data, 1));
else if(tag == 17 && fmt == EXIF_RATIONAL && count == 1)
    metadata.Add("GPSImgDirection", ExifF5(data + 0));
}
}
int nextoff = Exif32(e);
// puts(NFormat("next offset = %08x", nextoff));
return nextoff;
}
```

More specifically those reading:

```
if(tag == 0x132)
    metadata.Add("DateTime", String(data, 20));
```

This would be great help!

Best regards,

Tom

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