

---

Subject: Re: Bayer to RGB conversion

Posted by [Karl\[1\]](#) on Wed, 15 Dec 2010 19:25:35 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

On Dec 15, 8:10 am, David Fanning <n...@dfanning.com> wrote:

> nata writes:

>> Ok, maybe I didn't understand the question.

>

> Well, I didn't understand the question either. :-)

>

Color quantization has nothing to do with it.

Bayer sensors, or more accurately perhaps, sensors that output Bayer-format images are often found in smartphones as part of their built-in camera system. The phone probably has a DSP or other specialized hardware to convert the Bayer image to RGB and then eventually to the JPEG file or whatever ends up storing your photo.

Wikipedia has a decent article about it, including links to GPL software that might do the conversion.

I've not looked at the algorithms involved, but if performance is important, then I'd doubt that coding it in IDL would work well. Matlab has a built-in function for it and there are GPU implementations out there. If I could use the GPL code, I'd probably put it in a DLM and call it from IDL, if it is not already in IDL or ENVI.

Karl

---