Weekly Report

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Week 17, 23 April 2009

Summary of activities since last meeting

Last meeting: 2 April 2009

Next meeting: 23 April 2009

Goals and Work targets

Goals for this week

- Learn some basic HTML and CSS (although not entirely project related, worthwhile I feel)
- Ask local photo printing labs what provision they have for printing HDR images
- Find and read interesting papers referenced in [1]

Goals Achieved

- Website up and running (built in HTML and CSS from scratch)
- Spoke to both FotoFirst and Kodak
- Neither of them knew what HDR images are
- But people at Kodak seem keen to chat about ideas for printing
- Found some papers referenced in [1] but most were not that helpful

Proposed goals for next week

- Chat to Kodak (and possibly FotoFirst) people and get some prints done

Rate your work performance

This last week was fairly successful, in that I did manage to FotoFirst and Kodak. However, they weren't that helpful, as they didn't know what HDR images were. But, as stated in Goals Achieved, the Kodak people seemed interested in the idea so hopeful I can get some initial prints done through them.

Tasks/Learning

Apart from the early discussions with the Kodak people, a much closer source came up with a great idea. Matthew Van Cittert, a member of our research group, came up with the cunning of taking an HDR image of the HDR image of the HDR image... of the HDR image printed. This way loss in quality due to the evaluation process can be calculated, possibly by modelling it with some sort of mathematical model. A key question remains though, and that is how exactly to evaluate the HDR image. It has been suggested that the difference between the lightest and darkest pixels should be compared, to see how truly HDR an image is. I'm not sure how important file formats are yet - whether to use OpenEXR, psd, ... It seems reasonable to assume that psd files will be fine for now.

References

[1] Matthew Trentacoste. Photometric image processing for high dynamic range displays. Master's thesis, The University Of British Columbia, 2006.