

## W1.1 2004 - 008

### Color Rendition Teleconference, April 28, 2004

Present: Susan, Ann, Helen, Karin

The main achievements of this meeting involved the Color Fidelity experiment. Specifically, the concerns regarding the observer instructions were resolved and some results from the Color Fidelity experiment were shared.

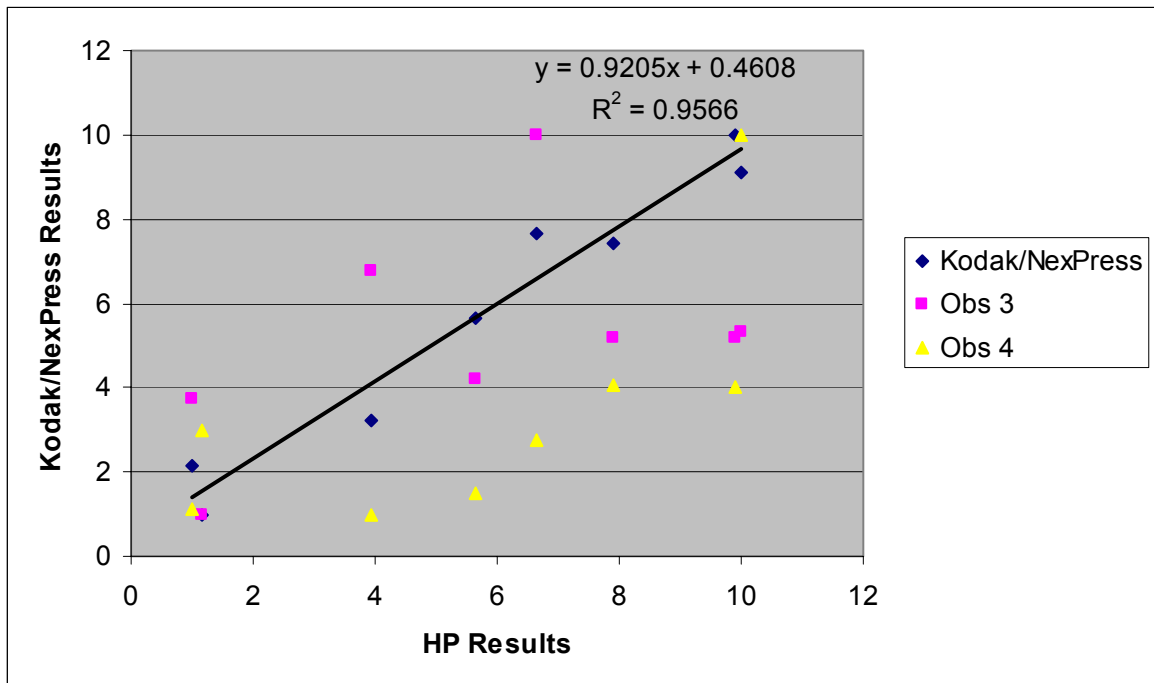
#### 1) Color Fidelity Experiment

- We agreed to use the basic structure of the present observer instructions, and that the variation of conducting a rough rank order followed by the assignment of numbers was acceptable.
- Susan reported on further results of the Color Fidelity experiment that she and Dmitri conducted at Kodak and NexPress, respectively. A summary of the results for six Kodak observers and five NexPress observers is depicted in the graph below, which shows the mean rating for each printer as determined by the Kodak/NexPress studies relative to the results obtained by HP. The results indicate a strong correlation (.98) between the studies. There were two additional NexPress observers, shown as dots in the graph below. These two clearly did not agree with the other twenty-one observers. It will be interesting to probe the reasons why. Among the possibilities are that these observers were both secretaries, they were both female, and one seemed to prefer matte finish images. As the study progresses, we may wish to examine the impact on the results of observer experience and gender and gloss level of the images. This brings me to the next point...
- The main objective of this part of the study (Phase I) is to search for something measurable that correlates well with observers' perception of color fidelity. Given this, it is desirable to have a set of observers likely to generate low-noise results. A set of observers composed entirely of Image Scientists is acceptable, and may be useful. If a possible metric for "color fidelity" is determined, experimentation sampling the entire range of observers will then be necessary.
- ACTIONS:
  - Color fidelity study results are still being collected. Please get these to me by May 12 in preparation for discussion at the next teleconference

2) Next meetings:

There was some discussion of what date would work for the next meeting, given that DRUPA is approaching, and other things. We proposed May 19. Please let me know how this date will work for you.

- May 19, 2004, 12:00-1:00 Eastern Time
  - Review Color Fidelity test results
- June 9, 2004
- June 23, 2004



Mean ratings (over all eight scenes) for each of eight printers.