

W.1.1 Image Quality of Printers
Gloss and Gloss Uniformity
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Attributes and Sub-attributes definition for W1.1 Gloss and Gloss Uniformity Working group (draft version 1.0, 1/9/2001, Yee Ng)

Dear members of the Working group: It is critical that there is a common understanding of the meaning of the attributes and sub-attributes within each working group of W1.1 (in this case Gloss and Gloss uniformity working group). We have been asked to have an appearance-based definition only as a starting point, and there should not be a technology-based definitions. The attribute definitions must be suitable for all printing technologies use in a wide range of output media as well as for comparisons between technologies. We may also need to have some scanned-in images of hard copy prints that illustrate actual print quality defects that pertain to the attributes. In order to capture gloss and gloss uniformity problems this way and reproduce that in print is a challenge. We will attempt to follow-up with artifact image examples (in addition to attribute definition) in a later date due to the aggressive schedule. In case we need to do that, I will suggest initially to use either Tiff or pdf format with compression for those images to save space. Please get back to me on which file format do you prefer.

Gloss and gloss uniformity on printed media are considered as part of the geometric attributes of print appearance and are perceived visually as being distinct from color. As a starting point, here are some of the attributes suitable for gloss and gloss uniformity.

- (1) Large area gloss uniformity within the page (such as left to right, top to bottom).
- (2) Global gloss difference from page to page (such as gloss difference between two adjacent pages – either that is created by front/back printing or otherwise).
- (3) Differential gloss between different colorant coverage on different output media.
- (4) Global gloss value (at a defined reflection density).
- (5) Gloss artifacts such as gloss streaks, gloss bands and observable surface textures which is part of visual appearance associated with geometric attributes of print appearance.

Thanks for your attention. If you have feedback for me, please contact me at Yee_Ng@nexpress.com or 716-726-3935.