Patch 1.0 — CMYK Overprint

Intent

This patch is designed to highlight certain problems that can arise when rendering CMYK objects that are set to overprint other CMYK objects. This patch uses CMYK only.

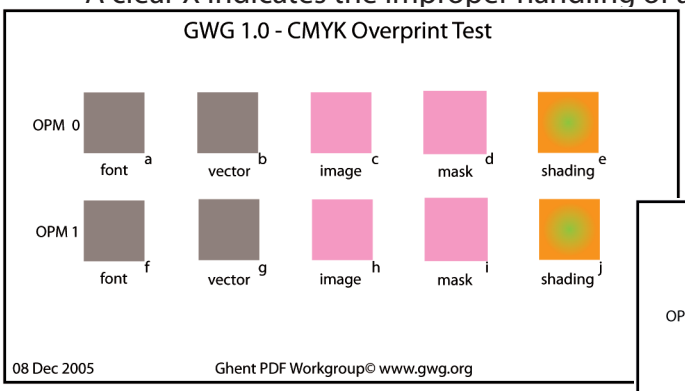
Testing guidelines

Test patches may be used in two ways:

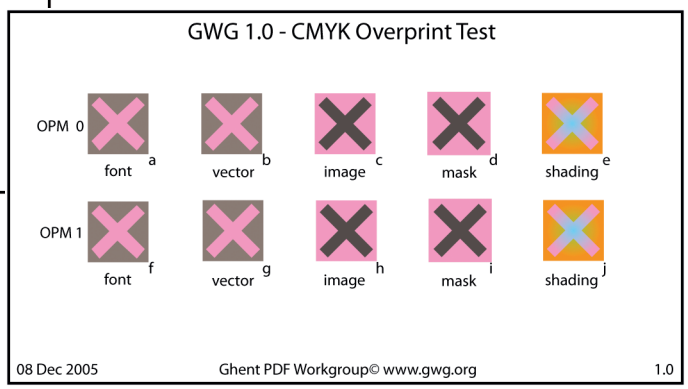
- A single patch may be used to test a specific step in a workflow, such as a RIP.
- Patches may be grouped with other patches to test the whole of a workflow that will aggregate multiple files together, e.g. for partial page advertisements in a magazine.

Method of evaluation

Method 1
A clear X indicates the improper handling of a file



Correct rendering of the patch, all tests passed. No clear X is showing.



Incorrect rendering of the patch, all tests have failed. Each X indicates an incorrectly rendered test.

Description of tests

OP Mode 0

a) A test using a Magenta text object defined as a single channel Magenta and is overprinting a CMYK object of 50C,0M,50Y,0K using op mode 0. If an X shows, it means that overprints have not been honored or rendered correctly or some other rendering problem has occurred.

b) A test using a Magenta vector object defined as a single channel Magenta and is overprinting a CMYK object of 50C,0M,50Y,0K using op mode 0. If an X shows, it means that overprints have not been honored or rendered correctly or some other rendering problem has occurred.

c) A test using a CMYK image of 50% Magenta set to overprint CMYK object shaped as an X of color 50C,0M,50Y,0K with op mode 0. Images or image masks in CMYK should never overprint CMYK objects. If an X shows, it means that overprints have been wrongly applied or some other rendering problem has occurred.

d) A test using a CMYK image Mask of 50% Magenta set to overprint CMYK object shaped as an X of color 50C,0M,50Y,0K with op mode 0. Images or image masks in CMYK should never overprint CMYK objects. If an X shows, it means that overprints have been wrongly applied or some other rendering problem has occurred.

e) A test using a DeviceN duotone gradient including Cyan and Magenta set to overprint a solid yellow object in overprint mode 0. If an X shows, it means that overprints have been wrongly applied or some other rendering problem has occurred.

OP Mode 1

f) A test using a Magenta text object defined as a single channel Magenta and is overprinting a CMYK object of 50C,0M,50Y,0K using op mode 1. If an X shows, the overprints have not been honored or rendered correctly or some other rendering problem has occurred.

g) A test using a Magenta vector object defined as a single channel Magenta and is overprinting a CMYK object of 50C,0M,50Y,0K using op mode 1. If an X shows, the overprints have not been honored or rendered correctly or some other rendering problem has occurred.

h) A test using a CMYK image of 50% Magenta set to overprint CMYK object shaped as an X of color 50C,0M,50Y,0K with op mode 0. Images or image masks in CMYK should never overprint CMYK objects. If an X shows, it means that overprints have been wrongly applied or some other rendering problem has occurred.

i) A test using a CMYK image Mask of 50% Magenta set to overprint CMYK object shaped as an X of color 50C,0M,50Y,0K with op mode 0. Images or image masks in CMYK should never overprint CMYK objects. If an X shows, it means that overprints have been wrongly applied or some other rendering problem has occurred.

j) A test using a DeviceN duotone gradient including Cyan and Magenta set to overprint a solid yellow object in overprint mode 1. If an X shows, it means that overprints have been wrongly applied or some other rendering problem has occurred.

Notes

This is a basic patch and all graphic arts equipment should be able to handle this patch without any issues. It is, however, possible that the amalgamation of this patch with other patches may very well lead to problems. For example, the amalgamation of this patch with patch 11 (default color space) using a layout application could very well point out some problems with the layout application that would otherwise go unnoticed.

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