

Patch 4.1 — White Overprint Mode

Intent

The intention of this patch is to identify correct or improper rendering of files with white elements not defined in CMYK set to overprint or almost white set to overprint. This patch uses CMYK and spot color GWG Green.

Testing guidelines

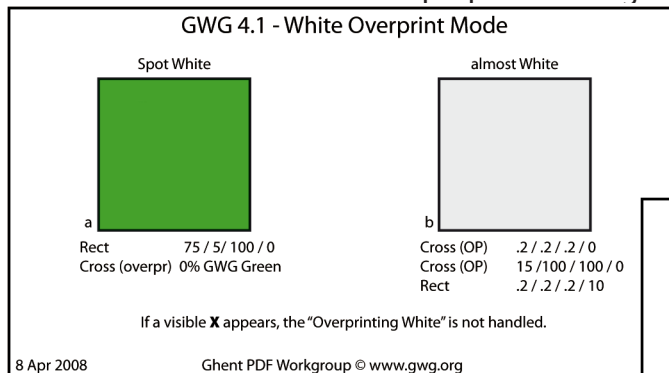
The files may be used in two ways:

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

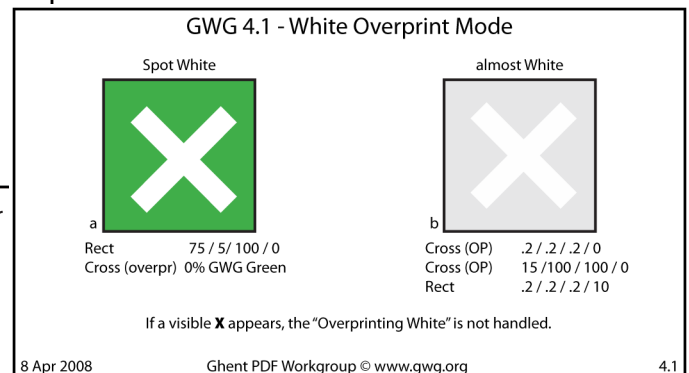
Method of evaluation

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. Note that the X in box b could also be red, see notes on next page for details.

Description of tests

If an X clearly shows, the patch has been rendered incorrectly - mostly because the overprint of a white element was set to knockout.

- a) A white vector element defined in Separation "GWG Green" with overprint on placed on top of a CMYK element.
- b) An CMYK element defined almost white (0.2% in each process color channel except black) set to overprint placed on top of a red cross and a vector element, both defined in DeviceCMYK.

If a PDF/X conforming workflow performs the rendering, the patch to show up as a green and a gray rectangle.

Possible wrong output:

- white X in patch a:
Overprint was deactivated or not honored.
- white X in patch a:
The spot color object was converted to CMYK, Overprint stayed on, but OPM was not set to 1.
- red X in patch b:
Due to rounding errors the 0.2% colorant are treated as 0% leading to an overprinting white element
- white X in patch b:
The overprinting got deactivated or not honored.

Notes

Patch 4.1 has been introduced to go along with Patch 4.0.1 It test for known problematic cases that do not appear in patch 4.0.1 The behavior of the objects included in this patch can easily be modified when doing conversion or amalgamating this patch with other patches. Overprint behavior changes depending on different color spaces and overprint modes. An object that is “nearly white” (0.02% in this instance) could be interpreted as white by some applications as the numbers get rounded by the application, therefore changing the overprint behavior. This patch includes examples of cases where objects would be expected to disappear as well as cases where the proper behavior would be to knock out the object below. It is 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 application that would otherwise go unnoticed.

Patch contributors

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