

Why are you still using a 20-yearold standard? Stop that!

David van Driessche, Christian Blaise

Executive Director & co-chair Specifications Subcommittee,

Marketing Officer



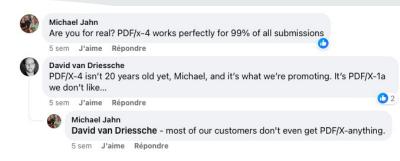
David

- Started working at Enfocus in 1996 (Tailor, PitStop...)
- Helped to start the Ghent Workgroup in June 2002
- Co-founded Gradual Software in 2004 (Switch)
- CTO at Four Pees from 2008
 (working with callas software, axaio software, Elpical, InSoft...)



Christian

- 30+ years of experience in several companies and roles:
 - bleuprocess (Founder & owner)
 - agileStreams, now Four Pees France (Founder & CEO)
 - Gap Systems (Implementation Consultant, then COO)
 - Enfocus (International Sales Account Manager)
 - Nestlé (eBusiness Project Manager & Graphic Chain Expert)
 - Société Alsacienne d'Aluminium, now AMCOR (Prepress Manager)
- Currently serves as Head of Customer Success at Four Pees





Eddy Hagen • 1st Research & Funding @ VIL " After hours: print industry provo...

Move over PDF/X-1a! We had good times, but it's time to move on. In case you didn't see it yet, the Ghent Workgroup has an important webinar later this month. On why the printing industry should move on from PDF/X-1a as the preferred standard for digital data exchange. In my article, I share some of the reason why we need to move on... An important one from my side: being able to use your digital presses to the full potential.

#printing #pdf #design



2w ***

2w *** Stuart Nimmo (He/Him) • 2nd

Creating magical bespoke print which creates personal physi...

Yes - 30 years of PDF... Changed the world of print, from analogue to digital properly. Yes agree we need to move it forward, we have some very dubious PDF's presented to us as printers these days, and anyone in the studio hears me grizzling at the substandard files.



Paul Sherfield (He/Him) • 2nd Founder and Owner, The Missing Horse Consultancy Ltd and...

I believe that changing to a PDF x4 format should be encouraged but with some caveats:

1. The colour space should the chosen CMYK profile rather than depend on the PSP to convert RGB images to the PDF CMYK outputintent. This is because the PSP may use differing colour management settings in their PDF workflow for image conversion, rendering intents and BPC being come to mind. 2. The PSP must have and use the latest version of the Adobe PDF Print Engine, or simliar, within their CtP workflow or DFE. Otherwise PDF X4 features such as transparency may not be processed correctly.

So to sum up, if changing to PDF X4 from PDF X1a a conversation with your PSP with be needed.



Dario Zannini (He/Him) • 2nd Prepress Man - /'dario/

Since RIPs no longer had problems with transparencies, I always suggested sending me PDF 1.4. When colour management was no longer an issue, I also suggested embedding ICC profiles in the layout photos and the final PDF.





Luis de la Hoz + 2nd Gerente Artes Gráficas Luis de la Hoz

+ Follow

Sigo recibiendo muchos pdf/x-1a:2001 (algo que puedo entender porque se supone que es con el que tenemos/tienen menos "sorpresas de impresión").

Animo a que empiecen a usar el pdf/x-4:2008, ya que permite colores adicionales, perfiles ICC y la inclusión de elementos como capas y transparencias. Un pequeño salto, porque ya sabemos que hay pdf/x más actuales, pero no todos los rips los aceptan.

Ah!, y por favor, a la hora de exportar, seleccionar en "conversión de color": Convertir a destino (conservar valores).

A ver si esto le llega a algunos de mis clientes :)

#pdfx #preimpresión #artesfinales #artesgráficas #diferenciasentrep



3w ***

Guillermo Carbaial Alcazar + 1st

3w ***

Children's Illustrator - Digital Retoucher - Freelance Graphic ...

Tienes mucha razón Luis, durante años trabaje con el PDF/x-1a:2001 en teoría por que evitaba muchos errores, pero hace ya unos años atrás empecé a detectar en el mas impresoras laser, al procesar el PDF en esta versión generaba en las imágenes con transparencia o formas orgánicas con fondo transparente, unas líneas blancas detectando los bordes del área y la imagen no estaba girada y estaba en Adobe Illustrator (Error que si pasaba en versiones antiguas de CorelDraw), investigando y probando encontré que la solución era el PDF/x-4:2008, comparto una imagen de referencia para que se entienda al problema que detecte con la versión PDF/x-1a, que pases un Feliz Año 2024.



See translation

A brief history of PDF/X and derived standards







2010

PDF/X-4 1.6 **GWG 2022**

PDF/X-1a

1.3

2003

GWG 1v4







PDF/X-1a

1.3

CMYK, gray, spotcolor

No transparency

PDF/X-4

1.6

All color-managed color spaces

Live transparency

Layers

JPEG-2000 compression

PDF/X-6

2.0

Page-based output intents

Dpart information

CxF information

Object-based blackpoint compensation

Additional colorant information

Evolution driven by RIP technology





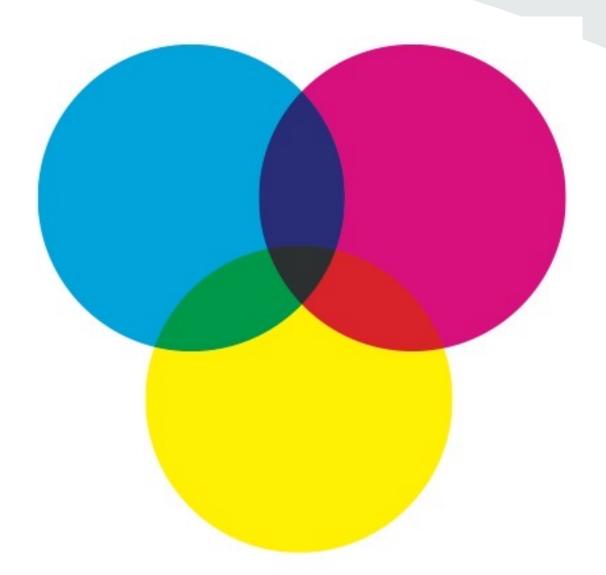
RIP technology

- The RIP (Raster Image Processor) is in charge to convert the original PDF into a raster image that the platesetter or printing machine can understand
- Older RIPs had to convert the PDF into a PostScript file first
 - As PostScript does not understand transparency, file has to be flattened during the conversion from PDF to PostScript, using the CPSI (Configurable PostScript Interpreter)
- Modern RIPs, such as APPE (Adobe PDF Print Engine)-based or Harlequin-based can directly process the PDF
 - They are able to honor modern features of PDF natively

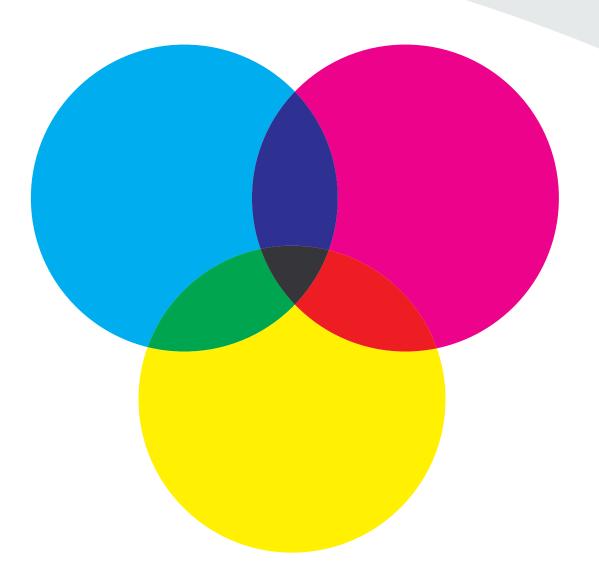
Transparency flattening



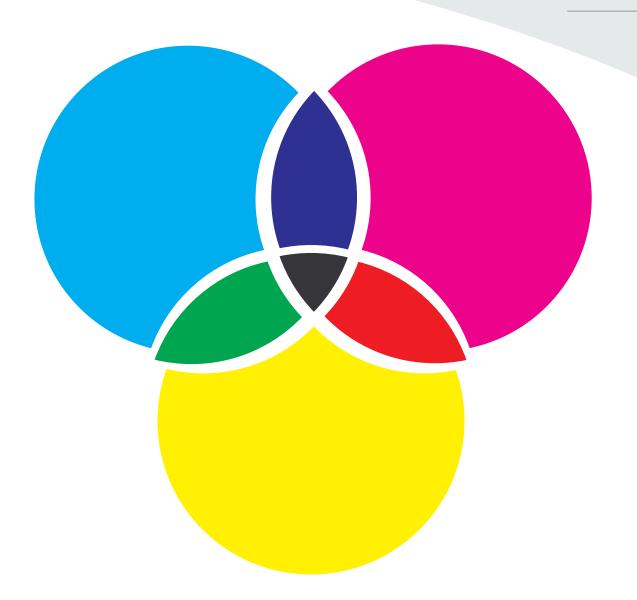














Penguins are the best



Original



Flattened

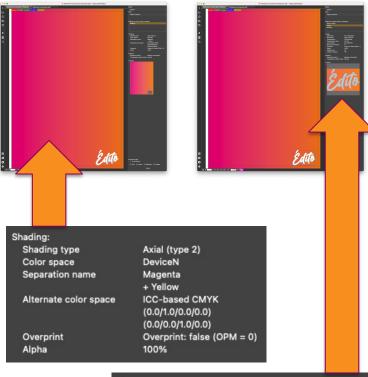


Image: Dimension 512 x 346 pixel Resolution 300 x 300 ppi Compression **DCTDecode** 97.14% Compression ratio Color space DeviceCMYK Bits per component 8 Overprint: false (OPM = 1) Overprint 100% Alpha No Image mask Image is clipped Yes

Result





Problems

- It complicates the PDF files
 - Makes the PDF file bigger in size
 - Makes it more difficult to print
- It reduces editability
- It can cause alignment issues (white lines)
- It can cause color issue (text / vector vs image)

NO – flattening IS NOT the same as ripping.

Modern features





Modern features of PDF

- Live transparency
 - Almost every file contains some sort of transparency now!
- Layers
 - This is useful to separate content
 - This has allowed to add automation to the workflow
 - This is needed for the ISO 19593-1 standard (processing steps)



Modern features of PDF

- JPEG2000 compression
 - This allows to decrease the file size with a higher quality than
 JPEG (can even be non destructive)
- Color-managed images
 - This allows to keep the best color accuracy you can get with images using extended gamut (6 or 7 colors for example)



Modern features of PDF

- No question!
 You are going to get PDF files that contain
 - Live transparency
 - Layers
 - JPEG2000
 - Color-managed images
- Everything here will be lost when converting these PDFs into a PDF/X-1a standard!

Risks, risks, risks





I want to use PDF/X-4! But I have seen files where...

You have my deepest sympathy.

Now use PDF/X-4.



You are a printer...

Good prints

Bad prints

Communication and testing





Communication

Communication between stakeholders of the chain is KEY!

 Of course, you're not going to switch from PDF/X-1a to PDF/X-4 over the weekend without telling anyone and expecting that this will solve ALL of your issues!



Testing

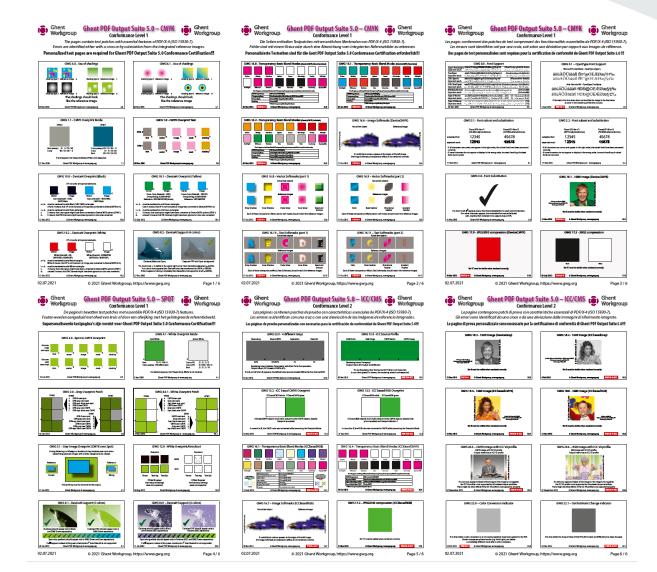
 To ensure that your workflow (and the workflow of the other stakeholders, upstream and downstream) is behaving correctly, you have to make tests to see if everything is in order

How?

- The Ghent Workgroup provides you the best tool to test this: the Ghent PDF Output Suite
- Available for FREE here: https://gwg.org/gos5/



The Ghent PDF Output Suite

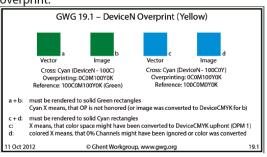




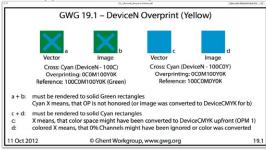
The Ghent PDF Output Suite

- The Ghent PDF Output Suite allows you to test CMYK, SPOT and CMS parts of your workflow
- Each patch comes with a description of the purpose and explanation of the (possible) errors
- Easy to use!

Two green and two cyan squares indicate correct rendering of DeviceN with overprint.



Blue crosses on the left side indicate that DeviceN overprint is not supported or the overprint attribute is not honored.



Questions?





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