

PDF and PDF/X-Plus

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Who am I?

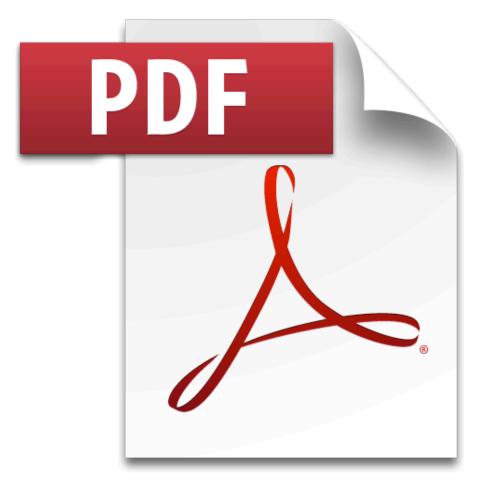
- Started working at Enfocus in 1996 (Tailor, PitStop...)
- Helped to start the Ghent Workgroup in June 2002
- Co-founded Gradual Software in 2004 (Switch)
- CTO at Four Pees from 2008
 (working with callas software, axaio software, Elpical, InSoft...)







Universal Self-sufficient Compatible Vendor-neutral Compact Well-behaved



ISO 32.000



PDF is not enough – PDF/X



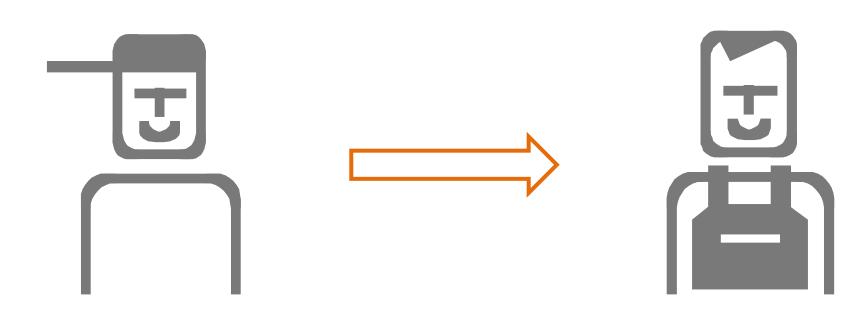


PDF/X origins...

- PDF/X-1 was developed by amongst others the DDAP (Digital Distribution of Advertising for Publishing).
- Taken up by the ISO standards organization
- In 2001



blind eXchange





Standards in standards





PDF/X flavors

- PDF/X-1, PDF/X-1a
- PDF/X-2
- PDF/X-3
- PDF/X-4, PDF/X-4p
- PDF/X-5g, PDF/X-5pg, PDF/X-5n
- PDF/X-6



PDF/X flavors

- PDF/X-1, PDF/X-1a
- PDF/X-2
- PDF/X-3
- PDF/X-4, PDF/X-4p
- PDF/X-5g, PDF/X-5pg, PDF/X-5n
- PDF/X-6



PDF/X-1a

- Based on PDF 1.4
- No support for transparency (has to be flattened), layers, JPEG-2000...
- Supports only gray, CMYK and spot color



PDF/X-4

- Based on PDF 1.6
- Allows transparency, layers, JPEG-2000 etc.
- Allows all color-managed color spaces
 - ICC-based gray, RGB, CMYK
 - Calgray, CalRGB
 - Lab
 - (and spot color as well of course)

PDF/X PDF/A PDF/UA PDF/E PDF/H PDF/VT PDF/VCR

PDF is not enough – Ghent Workgroup





How did the GWG start? (January 2001)





How did the GWG start? (February 2001)





How did the GWG start? (April 2001)





June 2002

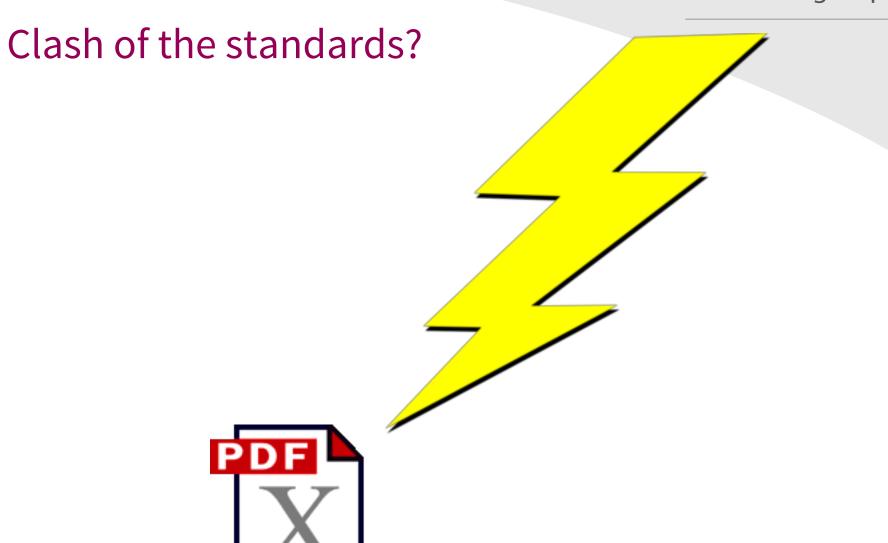




Mission Statement

To establish and disseminate process specifications for best practices in graphic arts workflows







Differences between PDF/X and GWG Specifications

- Faster
- More practical
- More user driven
- Less accurate
- Diversified for specific markets

- Slower
- More theoretical
- More vendor driven
- More accurate
- A global graphic arts standard



Standards in standards





PDF/X-Plus

- Unintended spot colors
- Low resolution
- RGB images/artwork
- Missing fonts
- Hairlines
- 4/C black elements / TAC
- Page size inconsistent
- Overprint problems
- Annotations
- Missing bleed

PDF/X GWG











































Variants

- There is one PDF/X-1a standard
- There are many GWG specification variants
 - Newspaper Ads
 - Magazine Ads
 - Sheetfed Offset CMYK
 - Sheetfed Offset Spot Hi-Res
 - Sheetfed Offset Spot Lo-Res
 - **–** ...



The GWG specifications

1v4

- Current standard
- Used by most national standards in Europe
- Based on PDF/X-1a



The GWG specifications

1v4 2012

- Used frequently for testing
- Virtually not used in production (with the exception of Switzerland)
- Based on PDF/X-4



The GWG specifications

1v4 2012 2015

- Approved in October 2015
- Based on PDF/X-4
- Tested extensively
- Implementation steps planned by organizations

Conclusions





So what should you use?

 Ask your printer / publisher / significant workflow-other

- PDF
- PDF/X
 - PDF/X-4
 - PDF/X-1a
- Ghent Workgroup specifications



Where do you find that?

- gwg.org
 - Application Settings area
 - gwg.org/application-settings

- Look in your software
 - The settings might already be included!

Thank you! Questions?

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Ghent Workgroup