









Principal Scientist,
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### Agenda

- Introduction
- General Installation Considerations
- PDF File Creation
- PostScript Driver Setup
- Distiller Setup
- Acrobat 6 Print Configuration Issues
- Q&A



### Introduction



# Introduction Some Simplifying Assumptions



- We limit our discussion to the following operating system environments:
  - Windows NT 4, Windows 2000, Windows XP, and Windows Server 2003 for Acrobat 6 Professional plus Windows'98 SE for Acrobat 6 Standard; all Windows versions for Acrobat 5
    Windows

 MacOS 10.2.2 and above for Acrobat 6 (both versions);
 MacOS 9.x for Acrobat 5

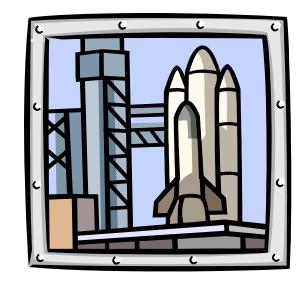




#### This is not ...



- A sales pitch If you are attending this conference, you have already bought into Acrobat and PDF.
- A tutorial on Advanced Techniques
   Other sessions deal with the specifics of hyperlinks, indexing, multimedia, forms, collaboration, prepress, etc.
- Rocket Science





#### We will ...



 Solve the puzzle as to simply configure Acrobat 6 such that you may reliably, consistently, and easily create PDF files without gurus and prepress experts

— mere mortals can do this!





#### We will ...



#### Discuss:

- Limiting the number of settings, options files, and decisions necessary to create a PDF file
- Configuration techniques to create lean, mean, high quality PDF files suitable for:
  - Display (and web)
  - Printing
  - & Prepress
- Provide configuration background material for Wednesday monring's general session, Reliable PDF Creation & Publishing Workflows



#### The Fine Print (pun intended) ...

The material presented today may challenge longheld religious beliefs about how to create content and PDF.

The opinions and techniques presented are those of the presenter, Dov Isaacs, and do *not* necessarily represent opinions held by or techniques officially endorsed by Adobe Systems Incorporated.

Your mileage may vary, but DO try this at home (and in your office, of course)!



### General Installation Considerations



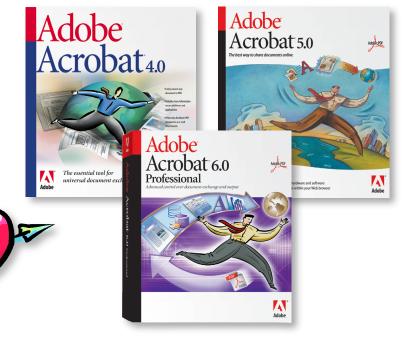


## General Installation Considerations Concurrent Version Installation

#### **Question:**

How do you install and support multiple versions of Acrobat (or full Acrobat and Reader) concurrently on a

single operating system configuration?





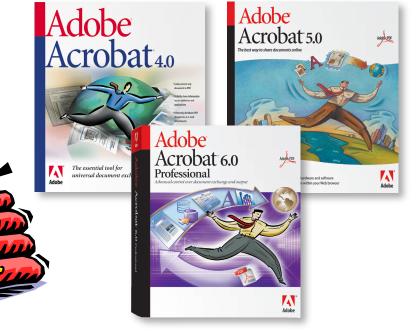
## General Installation Considerations Concurrent Version Installation

**Answer:** 

#### You don't!

**Acrobat and Acrobat / Adobe Reader** 

cannot be safely installed to allow *full* and *safe* operation in this manner!





## **General Installation Considerations Concurrent Version Installation**



- Why would you want this?
  - Generation of "old" versions of PDF
  - Testing generated PDF files in an end-user environment (i.e., Reader) as opposed to in the full Acrobat product
  - Test and transition from one version to another
- What are some of the problems?
  - Browser integration
  - Integration with and plumbing for PostScript drivers and PDFMaker components
  - Operating system version support
  - What runs when .PDF or .PS files are double-clicked?



#### **General Installation Considerations**



#### **Concurrent Version Installation**

- For end-user PDF file "testing" purposes, a "system" stripped of resources (including fonts) should be used with Adobe / Acrobat Reader only!
- For other purposes, consider:
  - Separate computer systems
  - Multiple bootable disk partition system(s)
- Always fully uninstall one version of Acrobat before attempting to install another version of Acrobat on any single computer system!



## General Installation Considerations Enterprise & Customized Installation

Installation of Acrobat under Windows, especially in multiple user environments, may be customized and expedited via:

- The Acrobat Enterprise Installation Tool for Acrobat 5.0.5
- The InstallShield Tuner 6.0 for Adobe Acrobat for Acrobat 6.0 (all versions including Reader)

Both are available for customer free download from Adobe's web site







PDF files may be created by the following methods:

- Application Direct PDF Export
- PDF via Distillation of PostScript
   (PostScript generated either directly by the application program itself or via the system's PostScript driver)
- PDF via PDFWriter
- Third-party solutions





#### **Application Direct PDF Export**



Content



Direct PDF Export Capable Applications



PDF File









Content

#### **PDF File Creation**



### PDF File Creation via Distillation of PostScript



Adobe PostScript\*

PostScript

File



**Job Options** 







All Applications



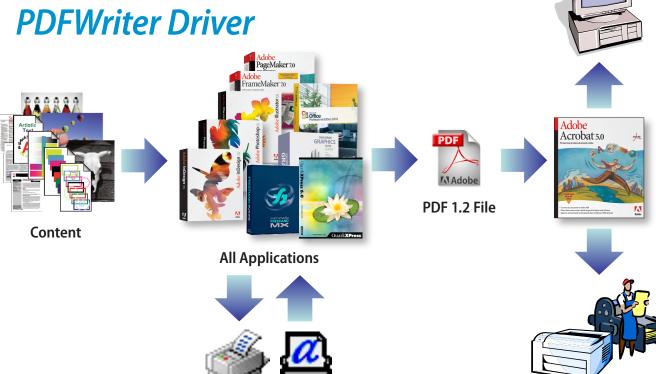


PDFMaker or Adobe PDF PostScript Driver Instances





### PDF File Creation via



Windows PDFWriter & Macintosh **PDFWriter Driver Instances** 

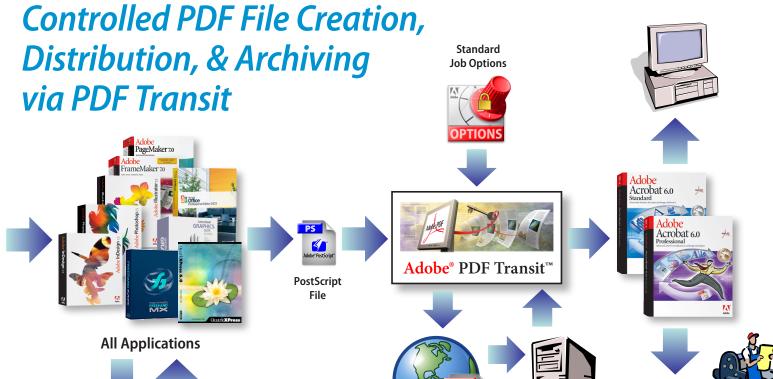


Content

#### **PDF File Creation**

PDF Transit PostScript Driver Instance





20



#### **Application Direct PDF Export**

Application Direct PDF Export trumps
PDF File Creation via Distillation of PostScript

- Applications with the capability of directly generating PDF from all content:
  - InDesign

FreeHand

Custom enterprise applications

Illustrator

- MardDarfact

CorelDRAW

Photoshop

- WordPerfect
- Application Direct PDF Export is the preferred method of generating PDF from Adobe applications





#### **Application Direct PDF Export**

- Best support for PDF objects and attributes that have no corresponding feature in PostScript or difficult to "hack" with PDFMark (transparency, ICC color management, advanced tagging, etc.)
- QuarkXPress 6 does not provide direct PDF export

   under the covers, it generates PostScript and converts to PDF either via a bundled third-party product or configured to Acrobat Distiller



#### PDF via Distillation of PostScript

#### PDF File Creation via Distillation of PostScript trumps PDF File Creation via PDFWriter

- EPS graphics support for most applications requires a PostScript output stream
- Application, driver, and OS support for PostScript:
  - Highest level of graphics support for most applications
  - Most mature drivers
  - Documented "escape" mechanism by which PDFMark can supplement standard PostScript for PDF creation (tagging, bookmarks, hyperlinks, etc.)
  - Support for colorspaces other than RGB





#### PDF via Distillation of PostScript

- Generate PostScript per capabilities of PDF, not the capabilities of "final" target print device
  - Acrobat Distiller PPD in conjunction with the application program and the PostScript driver
  - PostScript Language Level 3
  - Native TrueType support

```
*PPD-Adobe: "4.3"
                                         *Product: "(Adobe PDF)"
                                                                                  *DefaultColorSpace: CMYK
*% Adobe Systems PostScript(R) Printer
                                         *PSVersion: "(3015.102) 0"
                                                                                  *FileSystem: True
*% Copyright 1987-2002 Adobe Systems ...
                                         *ModelName: "Adobe PDF"
                                                                                  *?FileSystem: "(True) == flush"
*% All Rights Reserved.
                                                                                  *LanguageLevel: "3"
                                         *ShortNickName: "Adobe PDF"
                                         *NickName: "Adobe PDF 3015.102"
                                                                                  *FreeVM: "4194304"
*% PPD file last updated 3 Dec 2002
                                         *% PPD for Adobe PDF 6, Roman
                                                                                  *VMOption None/Standard: "4194304"
*FormatVersion: "4.3"
                                         *% === Options and Constraints =====
                                                                                  *FCacheSize None/Standard: 204800
                                         *% ==== Device Capabilities =======
*FileVersion: "1.0"
                                                                                  *Throughput: "400"
*LanguageEncoding: ISOLatin1
                                         *SuggestedJobTimeout: "120"
                                                                                  *VariablePaperSize: True
*LanguageVersion: English
                                         *SuggestedWaitTimeout: "0"
                                                                                  *TTRasterizer: Type42
*PCFileName: "ADPDF6.PPD"
                                         *ADTrueGray: True
                                                                                  *?TTRasterizer: "(Type42) ="
                                         *ColorDevice: True
*Manufacturer: "Adobe"
```





### PDF via Distillation of PostScript

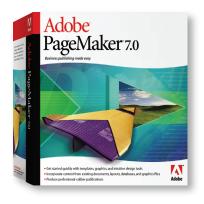
- Adobe PDF (Acrobat 6),
   Acrobat Distiller (Acrobat 5 Windows),
   & Create Adobe PDF (Acrobat 5 Macintosh)
   printer driver instances
  - Created by Acrobat Installer with correct PPD file
  - Obviates most any need to manually create and distill PostScript or to maintain the PostScript files
- Adobe PDF Transit
  - Customizable OEM / VAR / Service Provider product
  - PDF generation, encryption, distribution, archiving, and printing based upon tightly controlled PostScript generation and normalization into PDF

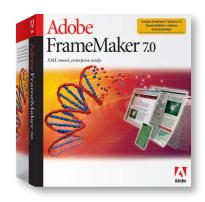


### Adobe

#### PDF via Distillation of PostScript

Export PDF in PageMaker,
 Save as PDF in FrameMaker, and
 PDFMaker for Microsoft Office
 create PDF via "silent" creation and distillation of PostScript followed by post-distillation fixup and optimization of the resultant PDF





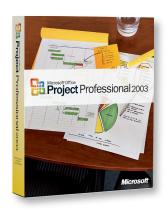


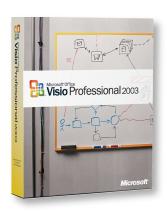




#### PDF via Distillation of PostScript

- Acrobat 6 Professional's PDFMaker adds support for:
  - Microsoft Project
  - Microsoft Visio
    - Visio layers translate to PDF layers
  - AutoDesk AutoCAD
    - AutoCAD layers translate to PDF layers









## PDF File Creation PDF via PDFWriter



- PDF support limited to features of the operating system imaging model (GDI - Windows, QuickDraw - MacOS 9 & earlier, etc.)
- PDFWriter support ends with PDF 1.2
   default Acrobat 5 installation does not install PDFWriter!
- PDFWriter is not available with Acrobat 6





### PostScript Driver Setup



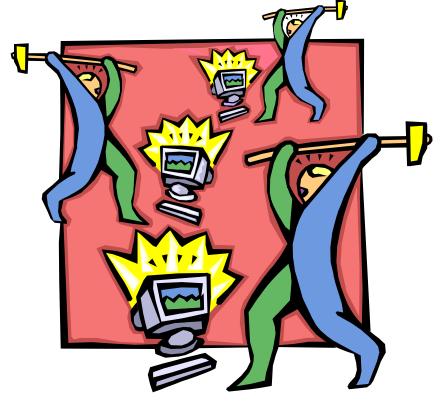
#### **PostScript Driver Setup**



#### PDF Production & Otherwise

Some "as installed" default driver settings could use some serious "tweaking" for best (or even usable)

results ...

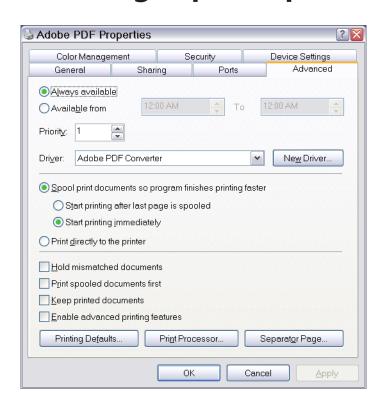


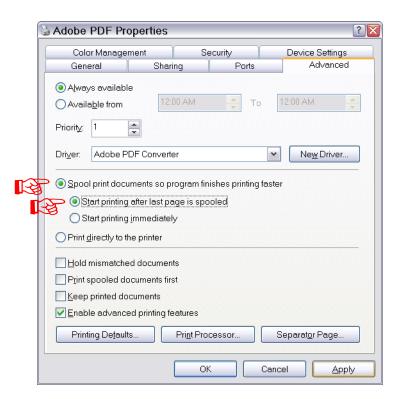




Windows 2000/XP/2003 Server – Properties → Advanced

- Controls when and how "printing" occurs
- Change spool options









Windows 2000/XP/2003 Server – Properties → Advanced

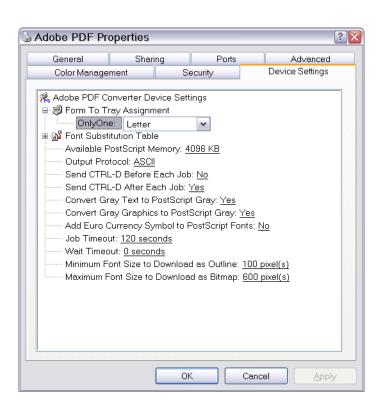
- Spooling dramatically improves "return control to application" time (Acrobat 6 finally defaults to spooling on)
- Printing after last page is spooled avoids possible PostScript wait timeout problems in the Distiller (or real PostScript printer)

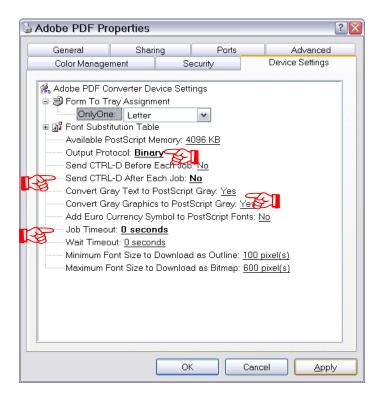




Windows 2000/XP/2003 Server – Properties → Device Settings

Controls device-specific parameters









Windows 2000/XP/2003 Server – Properties → Device Settings

- Output Protocol Binary yields a smaller PostScript file size and more efficient PostScript for distillation (Note that for actual PostScript printers connected via parallel port, USB, or TCP/IP, TBCP protocols may be appropriate. Consult with your system administrator!)
- CTRL-D is technically incorrect for binary channels (although Distiller kludges around it)
- Wait Timeout & Job Timeout = 0 avoids Distiller or PostScript printer job cancellation due to transient system or network slowdown





Windows 2000/XP/2003 Server – Properties → Device Settings

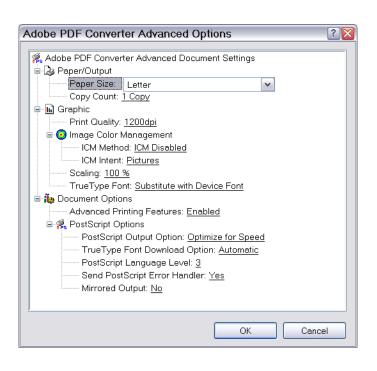
- Convert Gray Text/Graphics to PostScript Gray yields more efficient PostScript and PDF
  - Windows GDI is totally RGB;
     application black and grayscale expressed as R=G=B
  - Black and grayscale as RGB can lead to "rich black"
     (C=M=Y or C=M=Y=K) printing or prepress problems
  - Option enabled causes driver to change all GDI text and line art graphics (not images) for which R=G=B to equivalent K (grayscale) Postscript
  - Defaulted yes for "Adobe PDF" by Acrobat 6 installer; otherwise defaulted no by PostScript driver installer

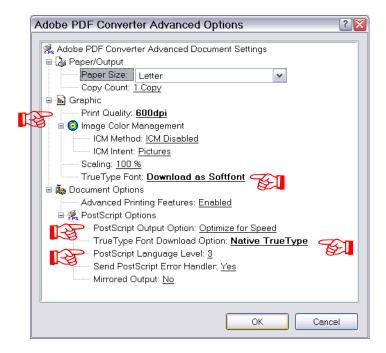




Windows 2000/XP/2003 Server – Properties  $\rightarrow$  Advanced  $\rightarrow$  Printing Defaults  $\rightarrow$  Layout  $\rightarrow$  Advanced Properties  $\rightarrow$  General  $\rightarrow$  Printing Preferences  $\rightarrow$  Layout  $\rightarrow$  Advanced

Additional document-oriented PostScript options









Windows 2000/XP/2003 Server – Properties  $\rightarrow$  Advanced  $\rightarrow$  Printing Defaults  $\rightarrow$  Layout  $\rightarrow$  Advanced Properties  $\rightarrow$  General  $\rightarrow$  Printing Preferences  $\rightarrow$  Layout  $\rightarrow$  Advanced

- 600 DPI? Windows 2000 / XP / Server 2003 / NT 4 Bug
  - For GDI applications only, "large text" is passed to driver as filled outlines
    - poor rendering / no searchability / no PDF touch-up
  - Crossover point dependent upon point size, specified print device resolution, font, and Windows version
  - 600 DPI setting under Windows 2000 / XP / 2003 Server typically allows for 144 pt text; 1200 DPI setting doesn't
  - FrameMaker pixel limit bug for large page size and high resolution
  - Very minor but tolerable side effects





Windows 2000/XP/2003 Server – Properties  $\rightarrow$  Advanced  $\rightarrow$  Printing Defaults  $\rightarrow$  Layout  $\rightarrow$  Advanced Properties  $\rightarrow$  General  $\rightarrow$  Printing Preferences  $\rightarrow$  Layout  $\rightarrow$  Advanced

- TrueType Font Download as Softfont
  - Option avoids any substitution of host-based TrueType fonts with "printer resident" fonts
  - Problems with substitution:
    - Differences in style
    - Differences in character sets supported
    - Less of a problem with Acrobat Distiller printer instance; potentially a massive problem with "real" PostScript printers with documents using international characters
- Do not modify PostScript Output Option from Optimize for Speed; other settings are archaic!





Windows 2000/XP/2003 Server – Properties  $\rightarrow$  Advanced  $\rightarrow$  Printing Defaults  $\rightarrow$  Layout  $\rightarrow$  Advanced Properties  $\rightarrow$  General  $\rightarrow$  Printing Preferences  $\rightarrow$  Layout  $\rightarrow$  Advanced

#### TrueType Font Download Option Native TrueType

- Explicit setting of option avoids surprises
- Conversion of TrueType fonts yields degraded results
  - Bitmaps at device resolution; not scalable or searchable
  - Outlines are "unhinted" Type 1 fonts
  - No PDF touch-up for text in these fonts

#### PostScript Language Level 3 for Distiller

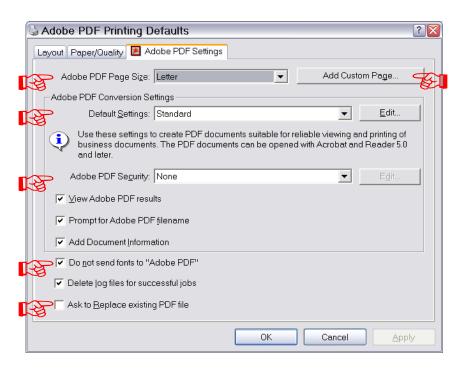
- Disregard the language level of the final printing device
- Acrobat / Acrobat Reader printing capable of printing all constructs to PostScript printers of all language levels





Windows 2000/XP/2003 Server – Properties → Advanced → Printing Defaults → Adobe PDF Settings
Properties → General → Printing Preferences → Adobe PDF Settings

 Controls interface between PostScript driver and the "background" Distiller plus job options specification







Windows 2000/XP/2003 Server – Properties  $\rightarrow$  Advanced  $\rightarrow$  Printing Defaults  $\rightarrow$  Adobe PDF Settings Properties  $\rightarrow$  General  $\rightarrow$  Printing Preferences  $\rightarrow$  Adobe PDF Settings

- Acrobat 6 now allows selection of page size and/or definition of custom page sizes directly from this dialogue
- Conversion settings
  - Specify the appropriate job options for distillation (the Standard settings are most likely inappropriate for you!)
  - Defaults for printer, once set, can be or overridden on a job-by-job basis
  - Live dangerously; create and use your own job options appropriate to your needs!





Windows 2000/XP/2003 Server – Properties  $\rightarrow$  Advanced  $\rightarrow$  Printing Defaults  $\rightarrow$  Adobe PDF Settings Properties  $\rightarrow$  General  $\rightarrow$  Printing Preferences  $\rightarrow$  Adobe PDF Settings

- Acrobat 6 now allows setting of security settings via this dialogue
- Ask to Replace existing PDF file option prevents accidental overwrite of an existing PDF file with the same name if you don't have the prompt for Adobe PDF filename option selected





Windows 2000/XP/2003 Server – Properties → Advanced → Printing Defaults → Adobe PDF Settings
Properties → General → Printing Preferences → Adobe PDF Settings

- Do not send fonts to Distiller Huh?
  - Very counter-intuitive to what we've been preaching!
  - Distiller 5 and 6 now find and embeds Type 1, TrueType, and OpenType fonts from system any user-specified locations
  - Why?
    - Efficient and compact intermediate PostScript
    - Faster distillation and less chance of VM problems
    - Better and more consistent embedding of font subsets
  - Exceptions? Private, application-installable fonts



Windows 2000/XP/2003 Server – Fixing "Font Problems" via PPD Hackery

- PPD enumeration of "printer resident fonts" causes major problems:
  - Phantom Fonts Fonts listed as "printer resident" in PPD file, but not installed on user's host computer
  - ITC Zapf Dingbats Display Bug Certain fonts print correctly but always display on-screen as Wingdings from some applications!



Windows 2000/XP/2003 Server – Fixing "Font Problems" via PPD Hackery

- The "Fix" (done by system "Administrator"):
  - Edit out all fonts except Courier from all .PPD files in system driver directory:
    - C:\WINDOWS\system32\spoo1\drivers\w32x86\3 Windows NT4/2000 *or* C:\WINDOWS\system32\spoo1\drivers\w32x86\3 Windows XP/2003 Server
  - Delete all .BPD files in the system driver directory





Windows 2000/XP/2003 Server – Fixing "Font Problems" via PPD Hackery

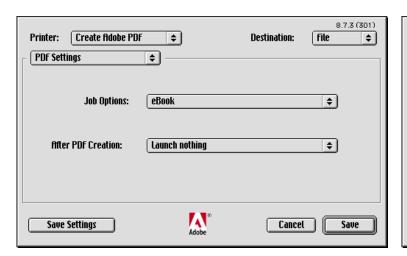
```
*% Font Information ===========
*DefaultFont: Courier
*Font AvantGarde-Book: Standard "(001.002)" Standard ROM
*Font AvantGarde-BookOblique: Standard "(001.000)" Standard ROM
*Font AvantGarde-Demi: Standard "(001.000)" Standard ROM
*Font AvantGarde-DemiOblique: Standard "(001.000)" Standard ROM
*Font Bookman-Demi: Standard "(001.000)" Standard ROM
*Font Bookman-DemiItalic: Standard "(001.000)" Standard ROM
*Font Bookman-Light: Standard "(001.000)" Standard ROM
*Font Bookman-LightItalic: Standard "(001.000)" Standard ROM
*Font Courier: Standard "(001.000)" Standard ROM
*Font Courier-Bold: Standard "(001.000)" Standard ROM
*Font Courier-BoldOblique: Standard "(001.000)" Standard ROM
*Font Courier-Oblique: Standard "(001,000)" Standard ROM
*Font Helvetica: Standard "(001.000)" Standard ROM
*Font Helvetica-Bold: Standard "(001.000)" Standard ROM
*Font Helvetica-BoldOblique: Standard "(001,000)" Standard ROM
*Font Helvetica-Narrow: Standard "(001.000)" Standard ROM
*Font Helvetica-Narrow-Bold: Standard "(001.000)" Standard ROM
*Font Helvetica-Narrow-BoldOblique: Standard "(001.000)" Standard ROM
*Font Helvetica-Narrow-Oblique: Standard "(001,000)" Standard ROM
*Font Helvetica-Oblique: Standard "(001.000)" Standard ROM
*Font NewCenturySchlbk-Bold: Standard "(001.000)" Standard ROM
*Font NewCenturySchlbk-BoldItalic: Standard "(001.000)" Standard ROM
*Font NewCenturySchlbk-Italic: Standard "(001,000)" Standard ROM
*Font NewCenturySchlbk-Roman: Standard "(001.000)" Standard ROM
*Font Palatino-Bold: Standard "(001.000)" Standard ROM
*Font Palatino-BoldItalic: Standard "(001.000)" Standard ROM
*Font Palatino-Italic: Standard "(001.000)" Standard ROM
*Font Palatino-Roman: Standard "(001.000)" Standard ROM
*Font Symbol: Special "(001.001)" Special ROM
*Font Times-Bold: Standard "(001.000)" Standard ROM
*Font Times-BoldItalic: Standard "(001.000)" Standard ROM
*Font Times-Italic: Standard "(001.000)" Standard ROM
*Font Times-Roman: Standard "(001.000)" Standard ROM
*Font ZapfChancery-MediumItalic: Standard "(001.000)" Standard ROM
*Font ZapfDingbats: Special "(001.000)" Special ROM
```





MacOS 9.x (Acrobat 5 only) – Print → PDF Settings

 Controls interface between PostScript driver and the "background" Distiller plus job options specification



Printer: Create Adobe PDF PDF Settings	<b>*</b>	Destination:	8.7.3 (301) <b>file</b> \$
Job Options:	Isaacs PDF 1.4		
After PDF Creation:	Launch Adobe Acrobat		÷ %
Save Settings	Adobe	Cancel	Save





MacOS 9.x (Acrobat 5 only) – Print → PDF Settings

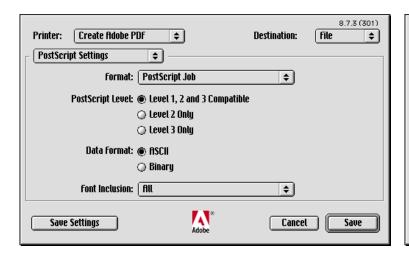
- Conversion settings
  - Specify the appropriate job options for distillation (the eBook settings are most likely inappropriate for you!)
  - Live dangerously; create and use your own job options appropriate to your needs!
- After PDF Creation option allows for PDF file preview
  - Unlike Windows, default is Launch Nothing
  - Reasonable option is to Launch Adobe Acrobat
- Save Settings allows "stickiness" of settings by application program

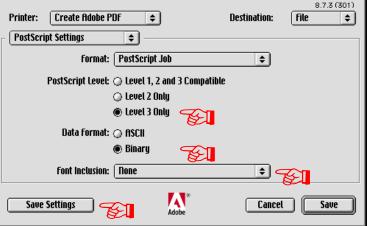




MacOS 9.x (Acrobat 5 only) – Print → PostScript Settings

 Determines type and format of PostScript generated plus options for font embedding in the PostScript stream









MacOS 9.x (Acrobat 5 only) – Print → PostScript Settings

- PostScript Language Level 3 for Distiller
  - Disregard the language level of the final printing device
  - Acrobat / Acrobat Reader printing capable of printing all constructs to PostScript printers of all language levels
- Output Protocol Binary yields a smaller PostScript file size and more efficient PostScript for distillation





MacOS 9.x (Acrobat 5 only) – Print → PostScript Settings

- Font Inclusion: None
  - Same issues and reasoning as under Windows
  - Works around TrueType font embedding bug on Mac:
    - All TrueType fonts embedded in PostScript stream by MacOS end up as "unhinted" Type 1 outlines
      - Quality degradation
      - PDF text touch-up problems
    - MacOS (PrintingLib 8.7.x module) bug!!
- Save Settings allows "stickiness" of settings by application program





MacOS 10.2.2 (Acrobat 6 only) – Print → PDF Options

 Distillation joboptions and post-PDF file creation options selectable via print dialog PDF Options tab

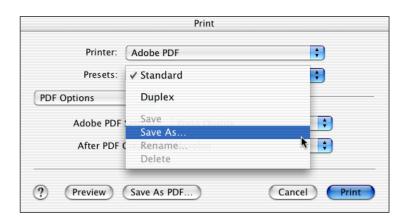
	Print					Print	
Printer:	Adobe PDF	•		Printer:	Adobe P	DF	•
Presets:	Standard	<b>;</b>		Presets:	Standard	d	•
PDF Options	•		_	PDF Options	+		_
Adobe PDF	Settings: Use default	•		Adobe PDF	Settings:	✓ Use default	•
After PDF	Creation: Launch nothing	g ;		After PDF (	Creation:	High Quality PDFX1a	•
			_			PDFX3 Press Quality	
? Preview	Save As PDF		Print			F Smallest File Size Standard	Print
		Printer: Ac	lobe PDF	+		Standard	
			andard	•			
		PDF Options	+				
		Adobe PDF Sett	ings: Press Quality	y			
		After PDF Crea					
		? Preview Sa	ve As PDF	Cancel Pr	rint		

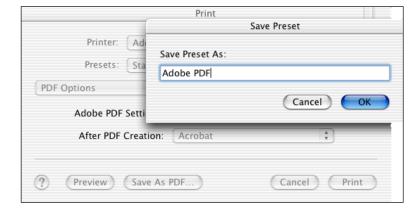




MacOS 10.2.2 (Acrobat 6 only) – Print → PDF Options

 Convenient facility for providing named "presets" for printer options









MacOS 10.2.2 (Acrobat 6 only)

- No facility is provided for selection of PostScript language level; uses value from PPD (that's OK)!
- No provision is made for not placing fonts in the PostScript stream
- No provision is made for binary / ASCII format selection for generated PostScript
- Significant PostScript driver bugs await resolution by Apple in future MacOS X releases



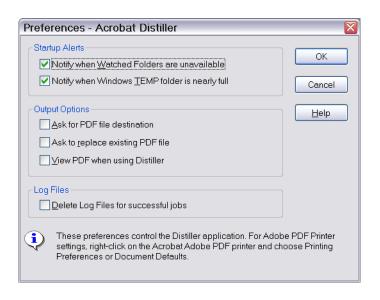




### Distiller Setup Preferences



- Provides output options for when the Distiller is invoked "manually"
- Delete Log Files for successful jobs option for all invocations of Distiller

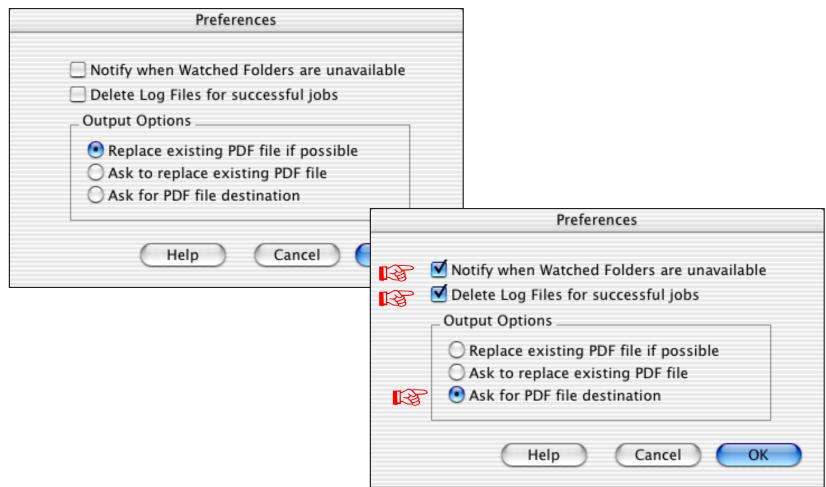






### Distiller Setup Preferences



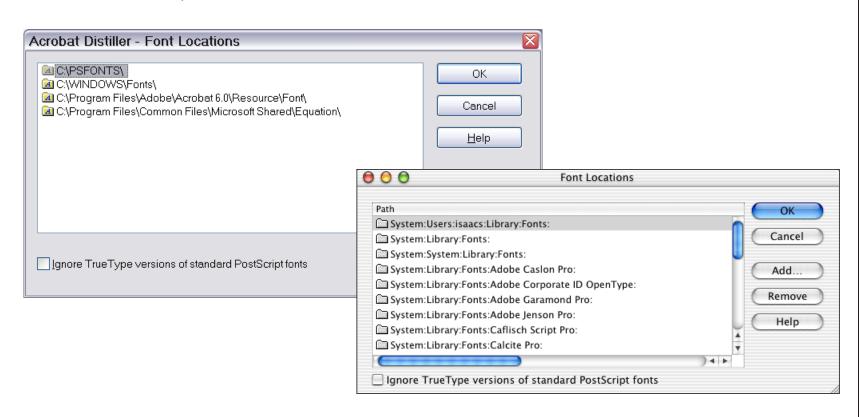




## **Font Locations**



- Initially set to system font directories (including any font directories linked to via Windows font directory)
- Manually add application-specific font directories





## Distiller Setup Job Options – Acrobat Distiller 6



- Acrobat Distiller 6 predefined job options:
  - Smallest File Size, Standard, High Quality, and Press Quality
  - Acrobat 6 Professional adds PDFX1a and PDFX3
  - All predefined job options, except for those for *PDFX1a* and *PDFX3*, produce PDF 1.4 (Acrobat 5-compatible) files





#### Job Options – Acrobat Distiller 6

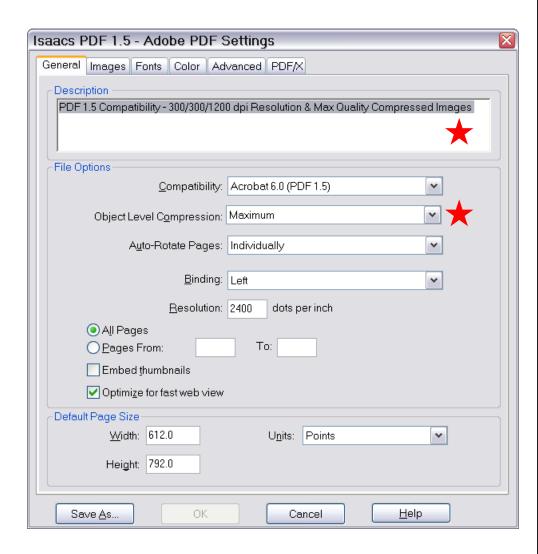
- Sample customized job options illustrate improvements on the predefined job options.
   Differences are in the dpi value for image downsampling and support for PDF version 1.4 or 1.5 (better compression and more features):
  - Isaacs 1.4 150 PDF 1.4 compatibility; standard usage
  - Isaacs 1.4 300 PDF 1.4 compatibility; PDF file will be printed on a high resolution device
  - Isaacs 1.5 150 PDF 1.5 with JPEG 2000 compression; standard usage
  - Isaacs 1.5 300 PDF 1.5 with JPEG 2000 compression; PDF file will be printed on a high resolution device



#### Job Options – Acrobat Distiller 6

Job Options

– General





New or changed *joboptions* for Acrobat 6



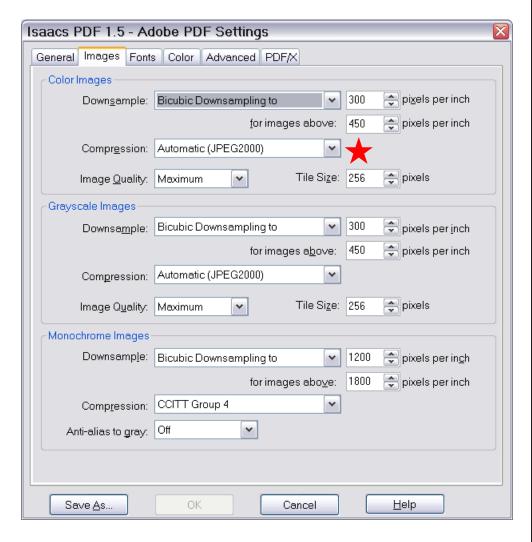
## Distiller Setup Job Options – Acrobat Distiller 6



				Gei	neral Job Opti	ons				
	Smallest File Size	Standard	High Quality	Press Quality	PDFX1a & PDFX3	Isaacs 1.4 150	Isaacs 1.4 300	Isaacs 1.5 150	Isaacs 1.5 300	
Compatibility		PDF	1.4		PDF 1.3	PDF 1.4 PDF 1.5				
Object Level Compression		Tags	Only		X	<b>X</b> Maximum				
	"Maximum"	yields PDF file com	npatible only Acro	bat 6 / Adobe Rea	der 6; "Off" requi	ired for full compa	atbility with earlie	r Acrobat / Acroba	t Reader versions	
Auto-Rotate Pages		Collectively		X	X	Individually				
Binding		Le	ft		Left	Left				
Resolution	600	) dpi	240	0 dpi	2400 dpi	2400 dpi				
			Does <b>not</b> set d	locument resolution	n! Returns a valu	e for the few Post	Script program th	at may query for s	uch information.	
Pages		A	II		All	All				
Embed Thumbnails		<b>&gt;</b>	(		X	×				
			Acrobat 5 / Reade	er 5 create thumbi	nails "on the fly" w	hile displaying PD	F file; pre-built t	humbnails are no	onger necessary.	
Optimize for Fast Web View		·			X	✓				
Default Page Size		612 × 7	792 pts		612 × 792 pts	612 × 792 pts				
				Rele	vant only if PostSc	ript has no specific	ed pagesize or EPS	has no bounding	box information.	



Job Options
– Images





New or changed *joboptions* for Acrobat 6



## Distiller Setup Job Options – Acrobat Distiller 6



				Im	age Job Option	ons					
•	Smallest File Size	Standard	High Quality			Isaacs 1.4 150	Isaacs 1.4 300	Isaacs 1.5 150	Isaacs 1.5 300		
Color Images Downsampling	Bicubic 100 dpi, for over 150 dpi	Bicubic 150 dpi, for over 225 dpi	Bicubic 300 dpi, for over 450 dpi		Bicubic 300 dpi, for over 450 dpi	Bicubic 150 dpi, for over 225 dpi	Bicubic 300 dpi, for over 450 dpi	Bicubic 150 dpi, for over 225 dpi	Bicubic 300 dpi, for over 450 dpi		
Color Images Compression	Automatic (JPEG), Low Quality	Automatic (JPEG), Medium Quality	Automatic (JPEG), Maximum Quality		Automatic (JPEG), Maximum Quality	Automatic (JPEG), Maximum Quality		Automatic (JPEG 2000), Maximum Quality			
For all image compressions, any value less than "maximum" may yield results that are unacceptable for any printing! JPEG 2000 compression is compatible only with Acrobat 6 / Reader 6											
Grayscale Images Downsampling	150 d	ubic pi, for 25 dpi	Bicubic 300 dpi, for over 450 dpi		Bicubic 300 dpi, for over 450 dpi	Bicubic 150 dpi, for over 225 dpi	Bicubic 300 dpi, for over 450 dpi	Bicubic 150 dpi, for over 225 dpi	Bicubic 300 dpi, for over 450 dpi		
Grayscale Images Compression	Automatic (JPEG), Low Quality	Automatic Automatic (JPEG), (JPEG), Automatic (JPEG),			Automatic (JPEG), Maximum Quality		ic (JPEG), m Quality		JPEG 2000), n Quality		
Monochrome Images Downsampling	Bicubic Bicubic 1200 dpi, for over 450 dpi over 1800 dpi			dpi, for	Bicubic 1200 dpi, for over 1800 dpi	Bicubic 600 dpi, for over 900 dpi	Bicubic 1200 dpi, for over 1800 dpi	Bicubic 600 dpi, for over 900 dpi	Bicubic 1200 dpi, for over 1800 dpi		
Monochrome Images Compression	CITT Group 4			CITT Group 4	CITT Group 4						
Monochrome Images Anti-alias to Gray	×				X		<b>)</b>	(			
	Any value other than "Off" results in image conversion to grayscale										



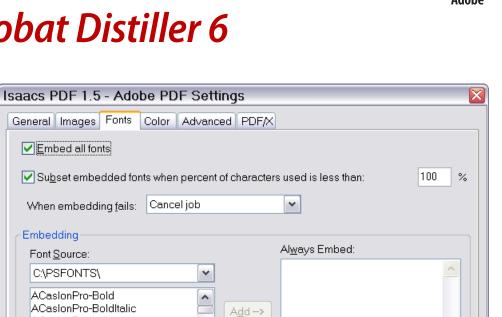
ACaslonPro-Italic ACaslonPro-Regular ACaslonPro-Semibold ACaslonPro-SemiboldItalic AdobeCorplD-Acrobat

AdobeCorpID-Adobe AdobeCorpID-Bullet AdobeCorpID-MinionBd AdobeCorpID-MinionBdlt

AdobeCorpID-MinionPkg AdobeCorpID-MinionRg AdobeCorpID-MinionRglt AdobeCorpID-MinionSb AdobeCorpID-MinionSblt

Save As..

Job Options
– Fonts



Never Embed:

Add Name...

Add ->

Cancel

OK

Remove

Help



## Distiller Setup Job Options – Acrobat Distiller 6

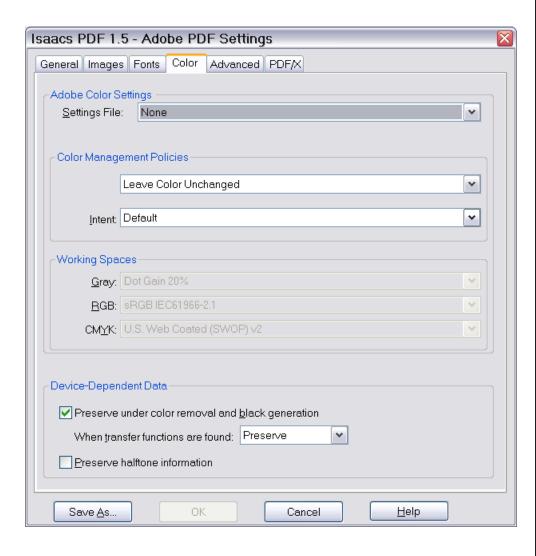


				Fo	onts Job Options						
•	Smallest File Size	Standard	High Quality	Press Quality	PDFX1a & PDFX3	Isaacs 1.4 150	Isaacs 1.4 300	Isaacs 1.5 150	Isaacs 1.5 300		
Embed all fonts	X		<b>/</b>		<b>V</b>		·				
	The ability to re	liably and consiste	ntly view, print, a	ind/or render a PD	F file is seriously c	ompromised if any	y referenced fonts	are not embedde	d in that PDF file!		
Subset embedded fonts		V			<b>/</b>		·				
when % of characters used is less than		100	)%		100%	100%					
10	0% yields uncond	itional font subset	embedding; 0%	yields full font en	nbedding. Full for	nt embedding yiel	lds no tangible be	nefits over font su	bset embedding!		
When embedding fails	V	Varn and continu	e	Cancel job	Cancel job	Cancel job					
				Va	lues of "ignore" o	r "warn and contir	nue" result in an ir	herently unreliab	le PDF workflow!		
Always embed		(no	ne)		(none)	(none)					
Never embed	(none)	List of forty system TrueType				(none)					
	The ability to re	liably and consiste	ntly view, print, a	ind/or render a PD	F file is seriously o	ompromised if any	y referenced fonts	are not embedde	d in that PDF file!		



Job Options
– Color







## Distiller Setup Job Options – Acrobat Distiller 6

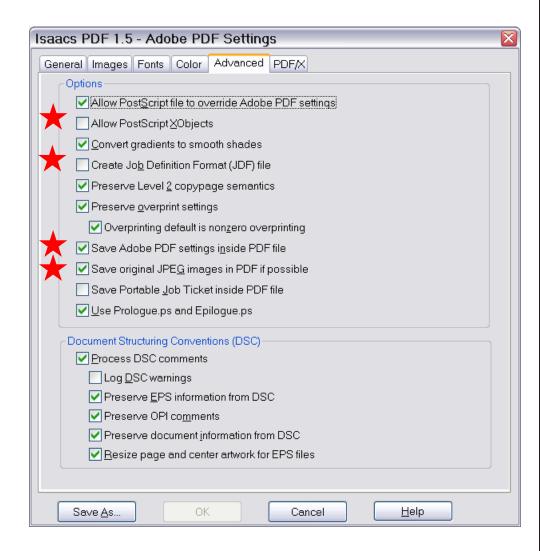


	Color Job Options											
				Co	pior Job Options							
	Smallest File Size	Standard	High Quality	Press Quality	PDFX1a & PDFX3	Isaacs 1.4 150	Isaacs 1.4 300	Isaacs 1.5 150	Isaacs 1.5 300			
Color Settings File		No	ne		None		No	ne				
Color Management Policies	Convert All Colors Leave Color to sRGB Unchanged				Leave Color Unchanged	Leave Color Unchanged						
Intent		Defa	ault		Default	Default						
Working Space – Gray		n,	⁄a		n/a	n/a						
Working Space – RGB	sRGB IEC	61966-2.1	n	/a	n/a	n/a						
Working Space — CMYK	U.S. Web Coa	ted (SWOP) v2	n	/a	n/a	n/a						
Preserve under color removal and black generation	×				×	<b>✓</b>						
When transfer functions are found	Apply				Apply	Preserve						
Preserve halfton information		>	•		X		,	(				



#### Job Options – Acrobat Distiller 6

Job Options
Advanced





New or changed *joboptions* for Acrobat 6



## Distiller Setup Job Options – Acrobat Distiller 6



	Advanced Job Options											
	Smallest File Size	Standard	High Quality	Press Quality	PDFX1a & PDFX3	Isaacs 1.4 150	Isaacs 1.4 300	Isaacs 1.5 150	Isaacs 1.5 300			
Allow PostScript to override Adobe PDF settings		v			V	<b>✓</b>						
Allow PostScript xObjects		<b>X</b>	\$		X		,	(				
						II.	Deprecated featur	e" – feature shou	ld never be used!			
Convert gradients to smooth shades		v			<b>V</b>	✓						
Create Job Definition File (JDF) file		×	•		×	×						
			Prop	perly created Post	Script for distillation	on should not have	any setpagedevi	ce commands tha	t would yield JDF.			
Preserve Level 2 copypage semantics		v			<b>V</b>	✓						
Preserve overprint settings		v			<b>V</b>	<b>✓</b>						
Overprint default is nonzero overprint		v			<b>V</b>	<b>✓</b>						
Save Adobe PDF settings inside PDF file	,	<b>K</b>	ı		×	<b>✓</b>						
				Joboptions used	for distillation stor	red as metadata w	ithin generated P	DF file for audit tr	ail purposes only.			
Save original JPEG images in PDF if possible	X		<b>/</b>		<b>V</b>	V						
		Distilla	tion optimization	n — avoids cascadi	ng JPEG image con	npression if neithe	r downsampling r	or higher compre	ssion is required!			



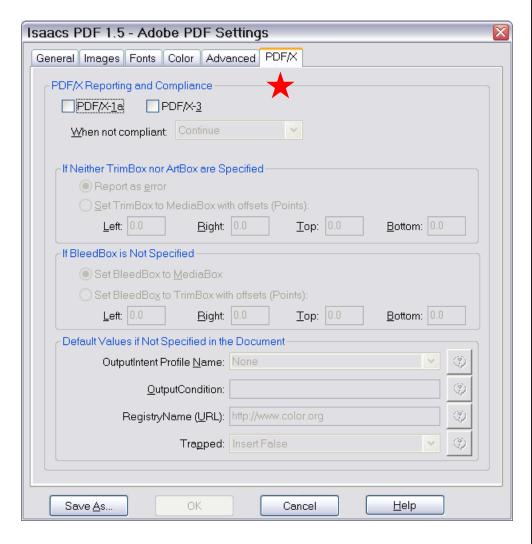
# Distiller Setup Job Options – Acrobat Distiller 6

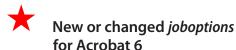


				Adv	anced Job Op	tions				
	Smallest File Size	Standard	High Quality	Press Quality	PDFX1a & PDFX3	Isaacs 1.4 150	Isaacs 1.4 300	Isaacs 1.5 150	Isaacs 1.5 300	
Save Portable Job Ticket inside PDF file		>	•		X	×				
								Obsolete – PJ	Γ replaced by JDF.	
Use Prologue.ps and Epilogue.ps		×	\$		X	V				
Process DSC comments		V			<b>V</b>	<b>✓</b>				
Log DSC warnings		<b>&gt;</b>	<b>(</b>		X	×				
Preserve EPS info from DSC	,	<			V		ı	/		
Preserve OPI comments		>	\$		X	×				
Preserve document info from DSC	X		<b>V</b>		<b>V</b>	✓				
Resize page & center artwork for EPS files		V			<b>V</b>	✓				



Job Options
– PDF/X









# Distiller Setup Job Options – Acrobat Distiller 6



	PDF/X Job Options									
•	Smallest File Size	Standard	High Quality	Press Quality		X1a DFX3	Isaacs 1.4 150	Isaacs 1.4 300	Isaacs 1.5 150	Isaacs 1.5 300
PDF/X-1a compliance	X			1	X	×				
PDF/X3 compliance	X			X	<b>V</b>	X				
When not compliant	n/a			Canc	el job	n/a				
If Neither Trimbox nor Artbox are Specified	n/a			to Me	imbox diabox offsets , 0 pts)	n/a				
If Bleedbox is Not Specified	n/a				edbox diaBox	n/a				
Default values if not specified:					Coa	Web ited IP) v2				
Outputintent Profile Name		n/	⁄a			scale ed v2		n	/a	
OutputCondition	n/a			(no	ne)	n/a				
RegistryName (URL)		n/	⁄a			/www. r.org		n	/a	
Trapped	n/a			Inser	t false		n	/a		



#### **Distiller Setup**



#### The Prologue.ps and Epilogue.ps facility

- Designed for special effects via custom PostScript run by Distiller at the start and end of each PostScript job
- Requires detailed knowledge of PostScript to write Prologue.ps and Epilogue.ps code.
- Examples:
  - Cover page generation
  - Logging of Distiller parameters
  - Global fixup of bum PostScript





# Acrobat 6 Print Configuration Issues

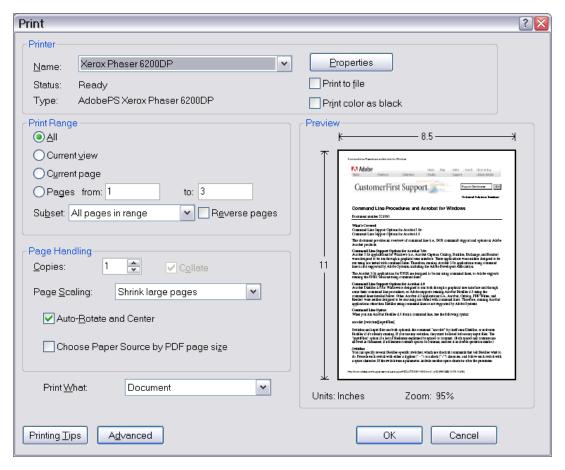


### Acrobat 6 Print Configuration Issues *Main Print Dialogue*



#### Reorganized main print dialogue

- Improved user interface
- More realistic "preview" of rendered page
- Most of the Advanced options are particular to Acrobat 6 Professional







Advanced	Print Setup						X
				_			
<u>S</u> ettings:	Custom	<u>∨</u> <u>D</u> elete	Save <u>A</u> s				
Printer: X	erox Phaser 6200DP		Print As <u>I</u>	mage			
		Outrout		,			
		Output					
		Color:	Composite		<b>~</b>		
Output							
	^	Screening:	60lpi 600dpi		~		
Marks and		Elip:	None	✓ <u>N</u> eqa	tive		
Transparer PostScript	ncy Flattening						
1 oswaripe	Орцопа	Printer Profi <u>l</u> e:	U.S. Web Coated	l (SWOP) v2	~		
		Apply Working	g Color Spaces				
	V	Apply Proof S	ettings				
<u> </u>	<u> </u>	Simulate Over	rprinting				
Fol Adobe	Note:   Note:   Select (Select / Exc Select )	_	-	)00 Image Resolution	l		
CustomerFirst	Support Support	Emit Trap Anı	notations	•			
Constraint Line Proceed	Tuberalitation hadon dures and Acrobatifor Windows	Ink Manager					- I
Whit's Germal Constitution Regard Option In Constitution Regard Option In	le Annihi di le Annihi di	Plate Control	Emit All Plates	~			
The december of the becomes dentile position. Company like Support Option dentile 1 Others from the Wood	aWet manch the fire, DOI manchet regres het sytter is Adde in the Armidel ICS addyres a Armidel Doron, Oktor, Danier, Blacker, bestefann	Figure Control	CITIIC AII Flates	Y			
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Command the Support Option Annials Station (Color World)	n br Arelai (D		ss Magenta 60.0				
Belley New order to specify to be publicated in the Course of Coursel to the best of	one, an Admin agreemen maning hamilik Dirillik Albaningki ter Anni Philip Dirillik Albanin (Albanin Dirillik Albaningki ter maning sarawati Panglama (Albanin Dirillik Albanin		ss Yellow 60.0 ss Black 60.0				
Sendar (Photos (SuperVise)		Proces	SS BIACK 00.0	3 45.00			
Speller generalised for links a findancy filledon Science Two degrals and Distince	egishika mandat femiri iyinkilara Battin e birdha ganan kupilika kepanat istindan kupin ilika iku danrapikat kupilara manda (danpika katimada ke malian gibar manda, manda di dalapika katimada ke gasha femiri. Mada kepana manda tarihi sadika di dalapika gasha femiri. Mada kepana manda tarihi sadika di Malia						
	grafin (Brides, Ward in America consider obsert District Walter of Digitary (*, *) = brides (*) (*) in blick, berick Walter (brite Brides, or Bylderen, brite brides gift on blick Brides (brides) or Bylderen, brides (*) (*) or					cript Color Management' is	
						ged in the printer RIP. If ignored, and only device	
		values are sent.		gementy is selected,	embedded promes are	ignored, and only device	
						OK Cance	





Advanced Print Setup		X
Settings: Custom	<u>Delete</u> Save <u>A</u> s	
Printer: Xerox Phaser 6200DP	Print As <u>I</u> mage	
Country of the process of the proces	Marks Style: Western-style	
	OK (	Cancel









Advanced Print Setup		×
Settings: Acrobat 6 Default	<u>D</u> elete Save <u>A</u> s	
Printer: Xerox Phaser 6200DP	Print As Image	
Customer First Support  Custom	PostScript Options  Eont and Resource Policy: Send by Range  Print Method: Language Level 3  Download Asian Fonts  Emit Undercolor Removal/Black Generation  Emit Halftones  Emit PS Form Objects  Discolored background correction  Control when fonts and resources should be downloaded. At Start: fonts and resources used on more than one page are downloaded at the beginning of the document (this is the fastest but uses more printer memory). By Range: fonts and resources are downloaded on the first page that uses them and removed when they are no longer needed (this option uses less memory). For Each Page: fonts and resources downloaded on each page used (this option uses the least amount of printer memory)	
	OK Cancel	





- Output options control output color management and well as separations options
- Marks and bleeds options controls optional output of printers' marks
- Transparency flattening options are necessary for proper PostScript printing of PDF 1.4 and 1.5 documents with "live" transparency
- PostScript options control generated PostScript
- Color management & transparency flattening to be discussed in presentation Reliable PDF Creation & Publishing Workflows



#### Colophon



PDF 1.5 (live transparency, managed color, JPEG 2000 image compression) exported directly from Adobe InDesign CS



**Adobe Acrobat 6 Professional** 



**Adobe OpenType Fonts** 















Tools for the New Work<sup>TM</sup>