



**1990 Worldwide
Developers Conference**



Michael Hopwood

Printer Product Marketing
Printing Software



Scott Zimmerman

Mac DTS



Printing in System 7.0

New Print Architecture is Not in 7.0

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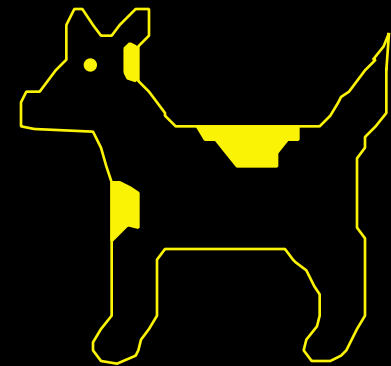


... But it is Alive and Kicking

- The NPA has been delayed so we can;
 - Integrate it with other system pieces
 - Provide key new functionality
 - Ensure superior compatibility
 - Fully document and seed
 -

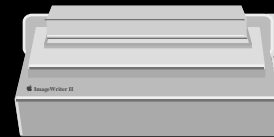
... But it is Alive and Kicking

- The NPA has been delayed so we can;
 - Integrate it with other system pieces
 - Provide key new functionality
 - Ensure superior compatibility
 - Fully document and seed
 - Preserve "Moofvernügen"



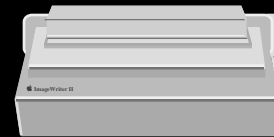
Raster Drivers and System 7.0

- Only two changes to the raster drivers;



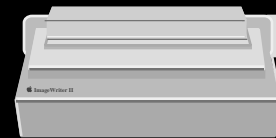
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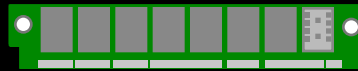


Raster Drivers and System 7.0

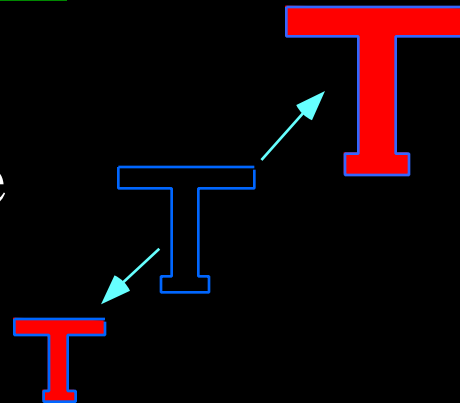
- Only two changes to the raster drivers;



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- Full support for TrueType



LaserWriter 7.0: One for All & ...

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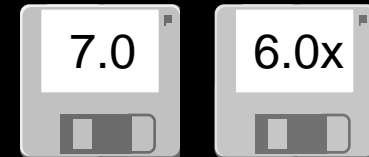
- Works with System 7.0 & 6.0x



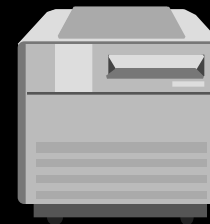
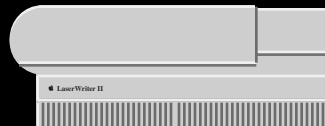
LaserWriter 7.0: One for All & ...

- LaserWriter 7.0 is a universal driver;

- Works with System 7.0 & 6.0x



- Works with compatible PostScript printers



Printing Bitmap Fonts

- Macintosh bitmaps print like today

Printing Bitmap Fonts

- Macintosh bitmaps print like today

- Adobe downloadable fonts



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- Downloading bitmaps



Printing TrueType Fonts

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Times, Helvetica, etc.

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Times, Helvetica, etc.

- TrueType on capable printers



Garamond



Printing TrueType Fonts

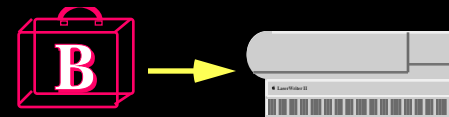
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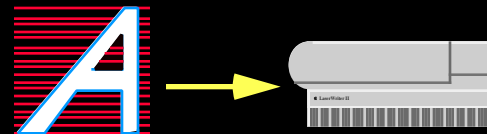
Times, Helvetica, etc.

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Garamond

- Type 1 if not capable



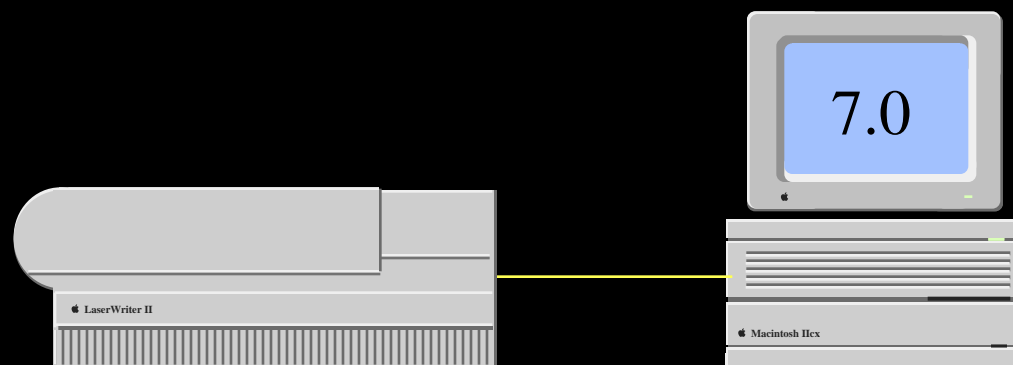
Garamond

The War to End All Wars...

- No Laser Wars

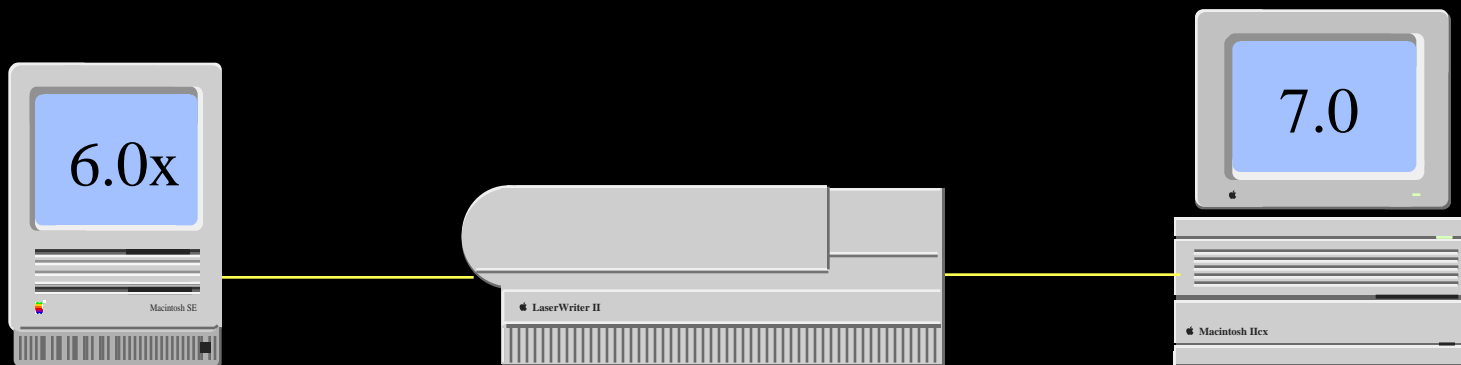
The War to End All Wars...

- No LaserWars
 - LaserWriter 7.0 used on both 7.0



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The War to End All Wars...

- No LaserWars
 - LaserWriter 7.0 used on both 7.0 & 6.0x
 - No wars beyond 7.0



Interface Changes

- Changes on the desktop:

Interface Changes

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 - Generic PostScript printer icon



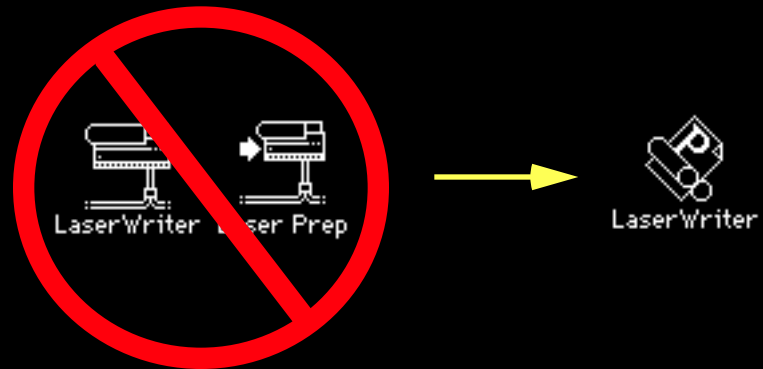
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Apple and PostScript


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 - Anything that prints today prints tomorrow
 - Applications and drivers work as before
 - Existing fonts work as before


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LaserWriter Font Utility



- Extended to support TrueType
 - Downloads PostScript and TrueType fonts
 - Enables the TrueType scaler to be resident
 - TrueType fonts behave like PostScript fonts

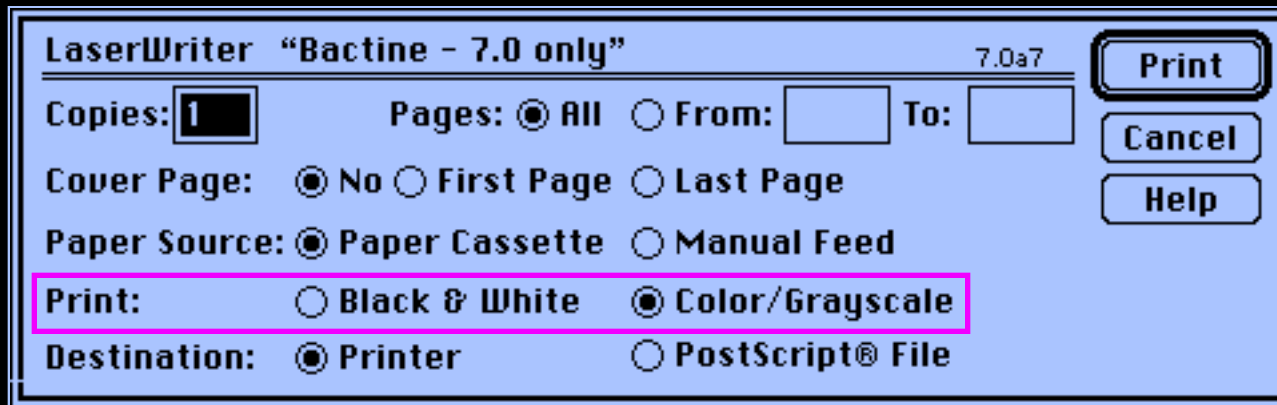


TechTalk

ZZ Zimmerman

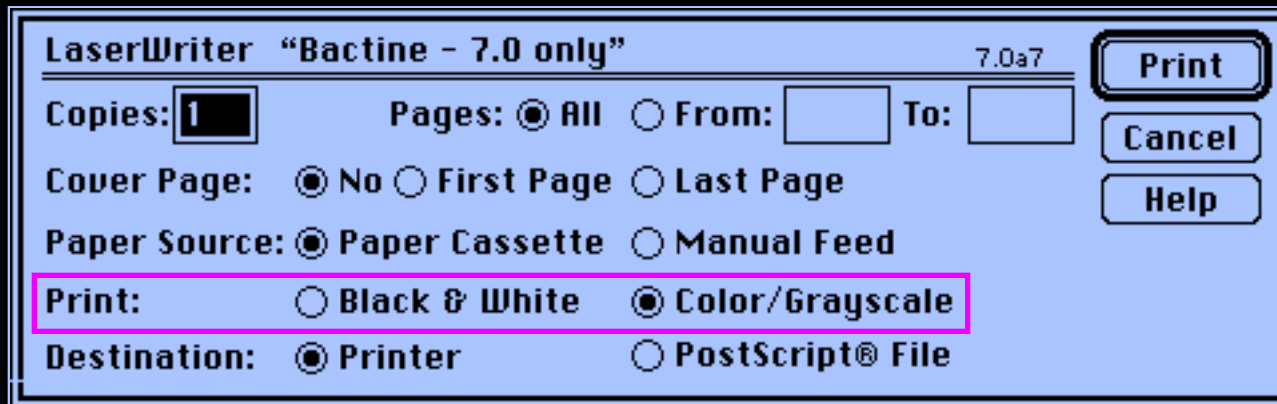
Color/Black and White Button

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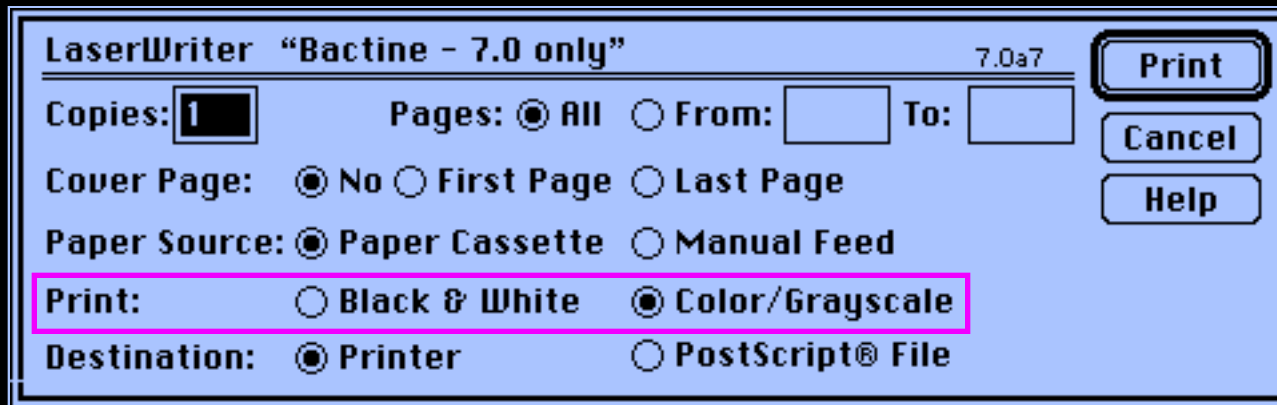
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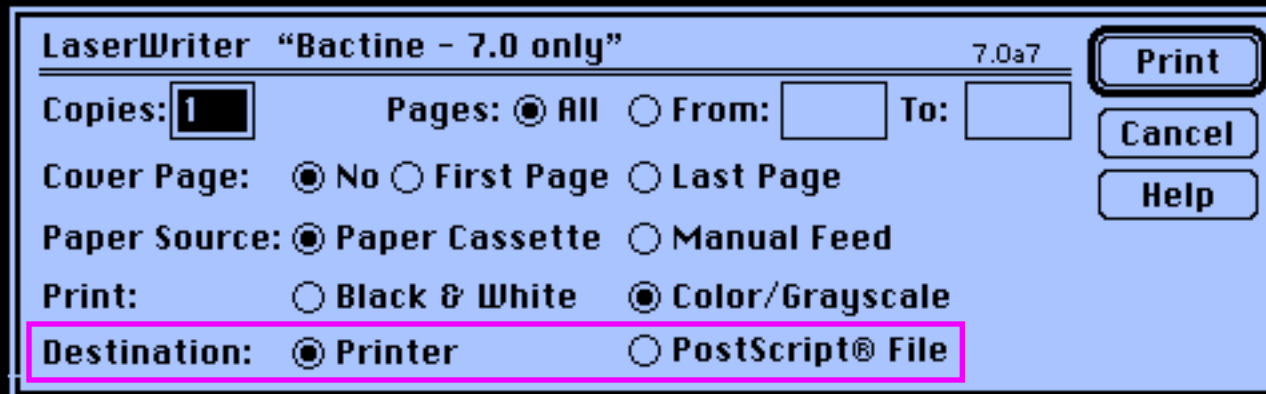
Color/Black and White Button

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 - Black and white is default
 - Setting is persistent



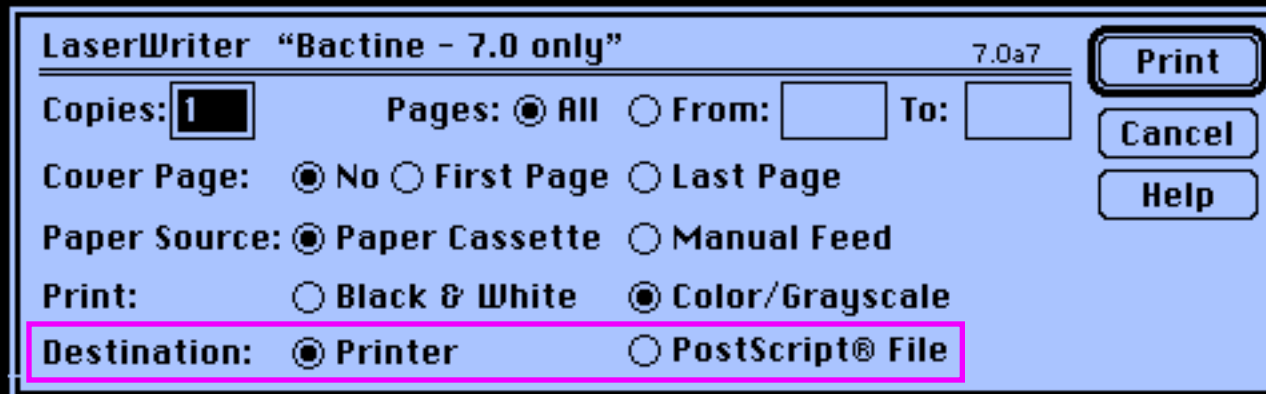
PostScript File

- Saving a PostScript file



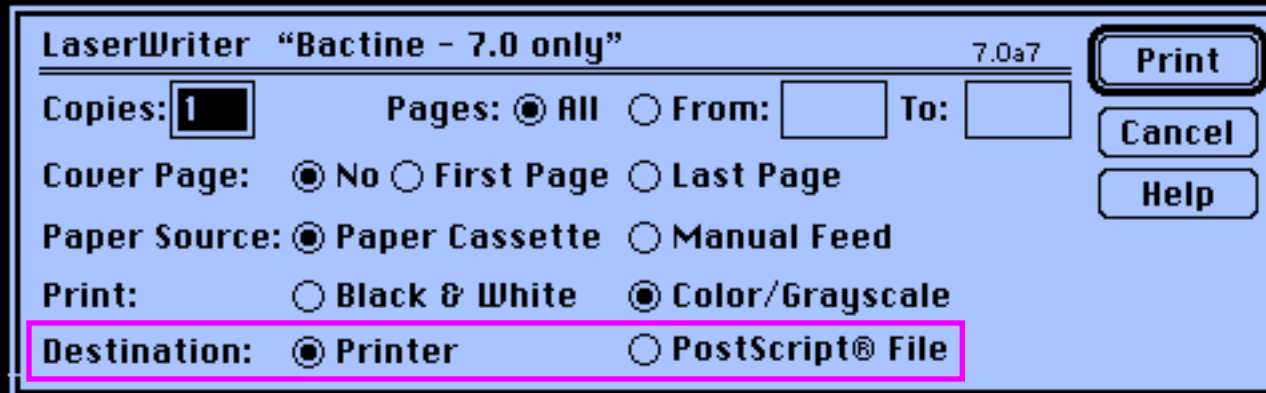
PostScript File

- Saving a PostScript file
 - Command key hacks go away



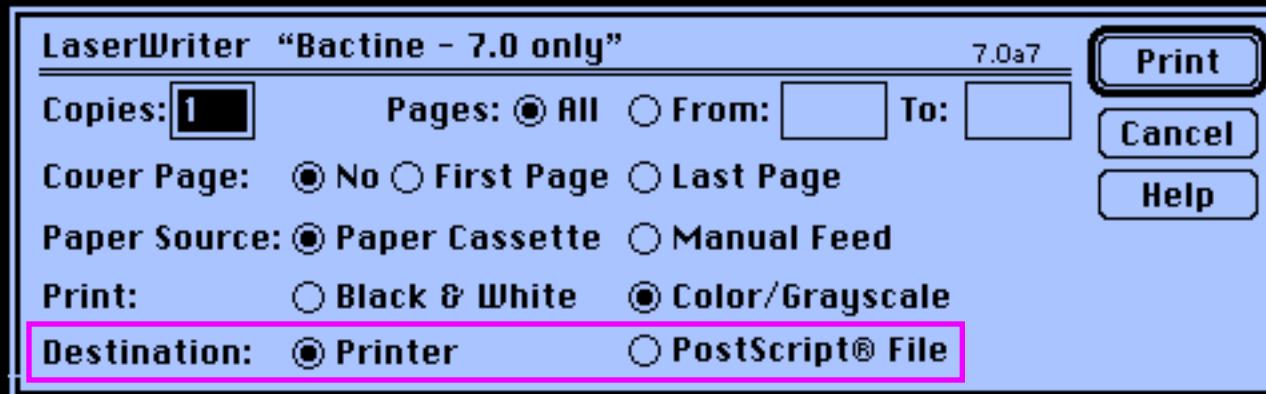
PostScript File

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 - Command key hacks go away
 - Standard file interface



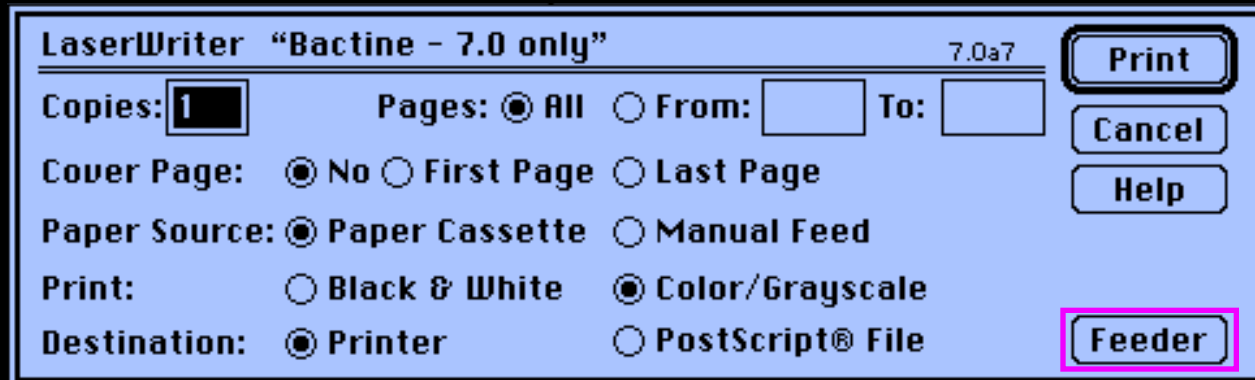
PostScript File

- Saving a PostScript file
 - Command key hacks go away
 - Standard file interface
 - Directory is remembered



Sheetfeeders Support

- Hook available for sheetfeeder control:
 - Displays Feeder button
 - Displays sheetfeeder dialog
 - Turns control over to feeder software





Demo

Enhancements for 7.0

- 16/32-bit pixmaps work

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- Minimal bug fixes (because we care!)

Applications and TrueType

- 3 types of applications

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 - Non-Driver applications
 - Font utility

7.0 Print Crimes

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- Space hack will still work
- Support color graph ports
- Don't depth convert
- Don't rely on LaserPrep structure
- Don't rely on existence of Laser Prep file
- Don't rely on font width tables

Driver Guys

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 - PAP can be licensed
 - New Print Architecture is delayed
 - Apple will still license toolkit

Sheetfeeders and Spoolers

- Sheet feeder interface available from DTS

Sheetfeeders and Spoolers

- Sheet feeder interface available from DTS
- Patching code available from Adobe



The power to be your best