
Ann Arbor Softworks Application Notes

#1: LaserPrint™

See also: FullPaint™ User's Manual

Written by: Roy Harvey

August 2, 1986

This note describes some of the **advanced** features of the LaserPrint application included on the FullPaint disk.

Super Posters

Using FullPaint and its ability to print out images at greater than 100%, you now have the power to make "Super Posters" using LaserPrint. Here's how:

- Take any FullPaint document (or for that matter, any MacPaint™ document), and use LaserPrint to split the document.
- Now, use FullPaint to print out each split document. FullPaint allows you to print a document at up to 400% using the ImageWriter™ or LaserWriter™. Here's what you get:

1 document @ 100% printing = 1 page (1x1 or 8"x10")
1 document @ 200% printing = 4 pages (2x2 or 1'4"x1'8")
1 document @ 400% printing = 16 pages (4x4 or 2'8"x3'4")
4 documents @ 400% printing = 64 pages (8x8 or 5'4"x6'8")
16 documents @ 400% printing = 256 pages (16x16 or 10'8"x13'4")

Note: In FullPaint, when printing at a size greater than 100%, blank pages are not printed.

- Or, if you want to go totally crazy -- Split a document into 4 documents and split each one of those into 16 documents for a total of 64 documents. Or split a document into 16, and those 16 into 16 more for a total of 256 documents. You can, of course, continue to split the remaining documents...

Stand back!

64 documents @ 400% printing = 1024 pages (32x32 or 21'4"x26'8")
256 documents @ 400% printing = 4096 pages (64x64 or 42'8"x53'4")

Caution: Printing 4096 pages will probably tie up the printer for a week!

Split Paintings

When splitting documents in LaserPrint, it is sometimes convenient to escape from the entire process all together. To do this, simply hold down the Command key and click in the Cancel button when prompted to save a Split File. This saves you from having to hit Cancel 16 times when you want to abort a "Split 16" command.

Print Paintings

When printing in LaserPrint, there are two ways to cancel the operation:

- Clicking in the Cancel button.
- Holding down the Command key and pressing the '.' (period key).

Printing Problems

LaserPrint occasionally runs into trouble when it encounters the following situations:

- When printing 16 paint documents and using files from many different disks, the LaserWriter may timeout (i.e. think nothing is happening and cancel the printing process) while you are switching disks. To remedy this, put the documents you want to print on the same disk.
- Avoid using the "Print Final" command when printing 16 paint documents. This function is reserved for future Laser Printers and will cause the current version of the LaserWriter to "freeze-up" due to memory constraints.

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#2: Managing Disk Space

See also: FullPaint™ User's Manual
 ColorPrint™ User's Manual
 Macintosh Owner's Manual

Written by: Roy Harvey

August 2, 1986

This note describes methods of managing disk space for various system configurations.

NOTE: It is important that at least one back-up copy of BOTH FullPaint disks (Program Disk and Print Utilities) be made as soon as possible.

Program Disk

The Program Disk is the primary disk included in the FullPaint package. The system on this disk has been configured to work with **HFS** (Apple's Hierarchical File System available on Macintoshes with the new 128K ROMs) and the **ImageWriter Printer**. The Program Disk is a standard 400K format disk containing the following:

FullPaint - This is the FullPaint application itself.

Alphies Bar - An example of FullPaint artwork.

Bamboo Eyes - Another example of FullPaint artwork.

The **System Folder** contains these additional files:

Finder - This is Finder version 5.3 needed for HFS.

System - This is System version 3.2 needed for HFS.

Scrapbook - Used in conjunction with the Scrapbook Desk Accessory.

Clipboard - The storage area used when cutting, copying & pasting.

ImageWriter - The printer driver needed for printing on the ImageWriter.

Print Utilities

The Print Utilities disk is also included in the FullPaint package. The disk contains some additional printing programs for use with the LaserWriter and various color printers. The system on the disk has been configured to work with **HFS**, the **ImageWriter Printer** and the **LaserWriter Printer**. The Print Utilities disk is a standard 400K format disk containing the following:

LaserPrint - A high resolution printing utility for use with the LaserWriter.

ColorPrint - A color printing utility for use with various color printers.

The **System Folder** contains these additional files:

Finder - This is Finder version 5.3 needed for HFS.

System - This is System version 3.2 needed for HFS.

Scrapbook - Used in conjunction with the Scrapbook Desk Accessory.

Clipboard - The storage area used when cutting, copying & pasting.

ImageWriter - The printer driver needed for printing on the ImageWriter.

LaserWriter - The printer driver needed for printing on the LaserWriter.

Laser Prep - Also needed for printing on the LaserWriter.

The **ColorPrint Example** folder contains:

Rose.Red - The rose artwork to be printed red.

Rose.Green - The rose artwork to be printed green.

Rose.Black - The rose artwork to be printed black.

Rose.Outline - The original rose artwork.

Making Back-up Disks

Any modifications to the disks (**Program Disk** and **Print Utilities**) should be done to copies of the originals. Start by making a back-up copy of both disks and putting the originals away in a safe place. Consult page 83 of the Macintosh Owner's Manual if more information on making back-up disks is needed.

Working with 400K Disks

The sample artwork on the Program Disk (**Alphies Bar** and **Bamboo Eyes**) can be removed or copied to another disk to recover 32K of disk space. They have been included for demonstration purposes only.

Extra Desk Accessories and Fonts can be removed from the System of any disk with the use of the **Font/DA Mover** available from Apple. If you are working with the LaserWriter or ImageWriter printers do not remove the Chooser or Control Panel Desk Accessories.

If the printers are not going to be used, the printer driver files can be removed from the disk(s) (**ImageWriter** and/or **LaserWriter** and **Laser Prep**).

Working with 800K Disks

All the files from both disks can be copied to one 800K (double-sided) format disk. Start by copying the entire contents of the Print Utilities disk to a blank 800K disk -- the system on the Print Utilities contains all of the printer drivers. Then copy the FullPaint application and sample artwork to the 800K disk. This process should leave about 231K free on the 800K disk. If additional space is still required, follow some of the suggestions mentioned above ("Working with 400K disks").

Working with Hard Disks

Given the memory size of hard disks, there should be no problem finding space for copying all the files of both disks to a hard disk.

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#3: Printing Notes

See also: FullPaint™ User's Manual
 ColorPrint™ User's Manual
 #1: LaserPrint™

Written by: Roy Harvey

August 2, 1986

This note includes some additional information for printing with FullPaint and the accompanying utilities - LaserPrint and ColorPrint.

Chooser Desk Accessory

The Chooser desk accessory is located under the apple menu on the **Program Disk** and **Print Utilities** systems. The Chooser is used for choosing where the printing output will be sent -- ImageWriter, LaserWriter, etc... And for selecting which port on the back of the Macintosh is connected to which printer.

ImageWriter Printing

For ImageWriter printing, the **ImageWriter** printer driver file must be on the disk used for printing. Also, the ImageWriter must be selected using the Chooser desk accessory. Both FullPaint disks have been prepared for use with the ImageWriter.

LaserWriter Printing

For LaserWriter printing, the **LaserWriter** and **Laser Prep** printer driver files must be on the disk used for printing. Also, the LaserWriter must be selected using the Chooser desk accessory. The Print Utilities disk has been prepared for use with the LaserWriter.

ColorPrint

To open a FullPaint document under ColorPrint you must rename the document with a "." and then an extension. For example ".Outline" or ".color". By renaming it with a color extension you can then separate out the different color overlays. Remember that the document name can not contain more than 12 letters. If you wish to open **Bamboo Eyes** under ColorPrint you might rename the document as "Eyes.Outline", "Eyes.Blue", "Eyes.Yellow", etc. continuing to rename and Save As... until you had one document for each color you wanted in the final printout.

To open FullPaint files with color name suffixes (Rose.Red, Rose.Green, etc...) use the "Open Auto..." command found under the File menu in ColorPrint. Opening a

"Rose" file using the "Open Auto..." command will cause ColorPrint to search for and open other files with the same prefix. Individual files can be opened for each color by selecting the color choices found under the Colors menu.

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#4: Technical Support

Written by: Roy Harvey

August 2, 1986

FullPaint and LaserPrint Technical Support

The Ann Arbor Softworks technical staff is available Monday through Friday (except holidays) from 1 - 6 p.m. Eastern Standard Time. If you have questions about FullPaint or LaserPrint, technical support can be reached by phone at (313) 996-3838 or by mail:

Ann Arbor Softworks, Inc.
Technical Support Division
308 1/2 South State Street
Ann Arbor, MI 48104

ColorPrint Technical Support

For questions regarding ColorPrint, contact I/O Design Incorporated by phone at (201) 747-0943 or by mail:

I/O Design, Inc.
ColorPrint Support
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Rumson, NJ 07760

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