

The *Fancy Font*[™] System
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DEMONSTRATION
PACKAGE

SoftCraft

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The *Fancy Font*TM Demonstration Package

Introduction

The *Fancy Font* personal typesetting system allows the user to fully exploit the capabilities of the Epson printers and provides print quality and flexibility rivaling that of much more expensive printers such as phototypesetters and laser printers. Font sets are provided in a large variety of styles, sizes and faces with sizes from 8 to 40 points; styles including Roman, Sans Serif, Script and Old English; bold, italic and regular faces. *Fancy Font* also includes the Hershey character database, containing over 1500 characters and graphic symbols that can be scaled to different sizes and formed into new font sets.

This pamphlet describes the use of the *Fancy Font* demonstration diskette and provides additional information regarding the full *Fancy Font* system.

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System Requirements:	Description of Hardware and Software required to use <i>Fancy Font</i> .
Demonstration Instructions:	How to use the demonstration program.
Before and After:	Example of <i>Fancy Font</i> input and corresponding output.
System Contents:	Description of the components of the <i>Fancy Font</i> system.
Font Samples:	Samples of character styles.
Hershey Samples:	Selected characters from the Hershey database.
Trouble Shooting:	Samples, descriptions and solutions to printing problems.
Order Form:	Special <i>Fancy Font</i> order form with demonstration rebate.

This entire pamphlet was printed by the *Fancy Font* system on an Epson printer. The pamphlet has been photographically reduced to allow it to fit in a diskette mailing envelope.

The *Fancy Font*[™] System: System Requirements

Computer and Operating System

CP/M computer system with minimum 48K bytes memory (including CP/M) or
IBM MS-DOS computer system with minimum 128K bytes memory (including MS-DOS)

Minimum 100K bytes *on-line* disk storage – more recommended

Printer

Epson or *IBM* printer

MX80 or MX80 F/T with either Graftrax-80 or Graftrax-Plus

MX100 with Graftrax-Plus

FX series printer

(Note: Printers labeled IBM may require Graftrax)

Printer Interface

Full 8 bit parallel or serial printer interface

must allow transmission of *all* 8 bit bytes

Serial Interface: transmission rate of 2400 baud or more, no parity

Serial interface card in printer capable of graphics transmission.

(e.g. Epson 8155, 8151. *not* Epson 8141)

The *Fancy Font*TM System: Demonstration Instructions

Follow these instructions to use your *Fancy Font* demonstration diskette. In this and all other instructions, type all characters which are underlined; ↵ indicates a press of the Return, Newline or Enter key (depending upon your keyboard).

1. Connect your printer and computer and turn on both machines.
2. Select a system disk (i.e. a disk you normally use with your computer system) and insert in drive A.
3. Insert the *Fancy Font* demonstration diskette in drive B.
4. Log to drive B:
A> B↵
5. Start the demonstration:
B> FFDemo↵
6. The first demonstration should begin printing. If you receive no output, or output that is inconsistent, see the section on trouble shooting.

Additional Demonstrations

Follow these instructions for a *before and after* demonstration. (Arrange the diskettes as described in above instructions).

1. Start the *before and after* demonstration:
B> FFDemo Demo↵

Note: You can run either or both of the demonstrations selectively as follows:
(substitute Demo1, Demo2 or both for *demo*)
FFDemo demo↵

Example: B> FFDemo Demo1 Demo2↵

To run the demonstration continuously, add the word *Loop:* to the end of the command (make sure to include "."), e.g.:

B> FFDemo Demo1 Demo2 Loop.↵
or B> FFDemo Loop.↵

The *Fancy Font*TM System: Before and After Example

The example shown on the back of this page depicts the input to the *Fancy Font* printing program (Pfont) and the resulting output. This is a somewhat complicated example as we have included a variety of features for demonstration purposes. It is best to understand in a very general way how *Fancy Font* works and then look at this specific example.

General Description

Fancy Font has been designed to work with any text editor or word processing package that produces an ASCII file as output. Thus *Fancy Font* works with WordStar, Perfect Writer, Mince and many others. This saves you time and money - you need not either purchase or learn to use a new editing program. Using your favorite editor, you create a file containing text to be printed by Pfont. If you wish to take advantage of the Pfont formatting and font selection features, you embed a variety of commands in the text. The example is divided into 3 parts: the text file (labeled THE INPUT FILE) is the file you create with your editor; the second part (labeled THE COMMAND LINE) is the command you issue to tell Pfont to start printing and exactly how that printing is to be accomplished; the final part (labeled THE RESULTING OUTPUT) is the end product - high quality, proportionally spaced, multi-font print.

The Text File

All commands in the text are preceded by the "\" character (this can be changed if you so desire). The first command, "\r", indicates that all subsequent text on the line is to be *right aligned*, that is, printed flush with the right margin (notice the placement of *Demonstration Diskette* in the output). The next line introduces 2 new commands: \c for centering and \f for font selection. The \c indicates that the entire line is to be centered between the margins, again notice the corresponding centered output. \f is the most frequently used command. It is used to specify a font to be used for printing. In the example, all characters are selected from font 0 (the default font) until the \f2 appears. Notice that \f2 causes SoftCraft to be printed in a different font (Old English); the subsequent \f1 switches selects the number 1 font (Roman 18 pt. in this case), and the \f3 selects the *Fancy Font* font. You may switch fonts as often as you like using as many as 10 different fonts in any document.

The next paragraph begins with a \j command to indicate justification. When justification is on (i.e. \j), all lines are printed so that they have an even left and right margin. This is accomplished by increasing the width of all spaces in the line by units of one 120th inch. Justification is turned off (i.e. lines have a ragged right edge) by a \k command (see the middle of the second paragraph). Justification can be temporarily turned off by the \b command. This is useful at the end of paragraphs and elsewhere to allow short lines (e.g. see the end of the first paragraph in the demonstration).

THE INPUT FILE - CREATED BY ANY STANDARD EDITOR OR WORD PROCESSOR

\rDemonstration Diskette

\c\2SoftCraft \f1presents The \f3Fancy FontTM \f1System\f0

\jThe \f4Fancy Font\f0 system provides font sets in a large variety of styles, sizes and faces with sizes from 8 points to 40 points; styles including Roman, Sans Serif, Script and Old English; bold, italic and regular faces. The package also includes the \uHershey character database\u containing over 1500 characters and graphic symbols that can be scaled to different sizes and formed into new font sets.\b

\f5Super\f0script and \f6sub\f0script are available:\b

\cx\f52\f0 + y\f52\f0 = z\f52\f0 CH\f63\f0CH\f62\f0OH

Create any special symbols you need, for example:\k

\c\f42\f0 Copyright: \f4C\f0 Carriage Return: \f4R\f0 Trademark\f4TM \f0

\v0018\c\uThe following demonstrates shading, overprinting

\cand absolute horizontal positioning:\u

\a0120 Use Absolute positioning for overprinting\a0120\f3bGGGGGGGG b 6

\f2SoftCraft\f0 8726 S. Sepulveda Bl. Suite 1641 Los Angeles, CA 90045

THE COMMAND LINE USED TO PRINT THE FILE WITH FANCY FONT

B> Pfont Demo2.ff +Fo Romn12 Romn18 Olde20 ff20 ff12 Romn8p romn8b +lw 5.5

THE RESULTING OUTPUT

Demonstration Diskette

SoftCraft presents The *Fancy Font*TM System

The *Fancy Font* system provides font sets in a large variety of styles, sizes and faces with sizes from 8 points to 40 points; styles including Roman, Sans Serif, Script and Old English; bold, italic and regular faces. The package also includes the Hershey character database containing over 1500 characters and graphic symbols that can be scaled to different sizes and formed into new font sets.

^{Super}script and _{sub}script are available:

$$x^2 + y^2 = z^2 \quad \text{CH}_3\text{CH}_2\text{OH}$$

Create any special symbols you need, for example:

Ⓛ Copyright: © Carriage Return: ↵ TrademarkTM Ⓜ

The following demonstrates shading, overprinting
and absolute horizontal positioning:

Use Absolute positioning for overprinting

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The `\u` command is used in the first paragraph and elsewhere to both turn on and turn off underlining. The first `\u` begins underlining, the second ends the underlined region. The second paragraph contains more centering and font selection commands (`\c` and `\f` respectively) as well as introducing a new command: vertical spacing (`\v`). Notice that super and subscripting is achieved by selecting a super or subscript font (i.e. `\f5` for superscript and `\f6` for subscripting in the example). Thus super and subscripting are as simple as any other font selection. Font 4 in the example contains several special characters that do not appear on any key on most keyboards. In this case, we chose a labeled key to represent a special character in a particular font. In the example, the character "C" in font 4 represents the copyright symbol.

The vertical spacing command indicates the distance between the bottom of the previous line and the top of the current line (i.e. the amount of white space preceding the current line). The vertical space command is measured in units of printer's points (one 72nd inch). Measure your demonstration output and notice that there are exactly 18 points (1/4 inch) between the line containing the copyright symbol and the following line.

The line beginning `\a0120` is one of the more unusual and interesting lines. Here we are using absolute horizontal positioning to overprint a background pattern and normal text. The absolute horizontal motion is measured in units of one 120th inch; thus the command `\a0120` positions the print head one inch to the right of the left margin. Following the horizontal positioning, notice several words of text, another `\a` command and a peculiar sequence of b's and G's. The second `\a` command repositions the print head to 1 inch from the left margin, `\f3` selects font 3, and the b's and G's are special characters in font 3 (the 20 point *Fancy Font* in this example). The "b" character represents a vertical bar (an individual bar is shown at the right side of the line), and the "G" represents a 1/2 inch wide background character (an individual "G" appears at the end of the line). By combining several G's and b's we form the background pattern you see in the output.

Printing the File

We have seen how to construct a text file to be used as input to the *Fancy Font* printing program. The next step is to use the printing program (Pfont). Pfont can be used in a variety of ways to control the printing process. Basically, Pfont accepts a variety of parameters to specify different aspects of the printing operation. The most often used parameters are 1) the name of the file to be printed and 2) the fonts to be used during the printing. In the example (following the line: THE COMMAND LINE ...), the Pfont command is issued with "Demo2.ff" as the name of the file to be printed, "+Fo" to indicate the fonts to be used and a list of fonts (e.g. Romn12). The order in which the font names are listed is very important. This determines the correspondence between font numbers (e.g. `\f0`) in the text and the actual font to be used. For example, `\f2` in the text refers to font "Olde20" which is an Old English, 20 point font. Notice that the fonts are numbered from 0 to 6 in this example. This correspondence between font numbers and names saves typing an entire font name in your text each time you want to change fonts and additionally allows you to change the fonts used to print your file without actually modifying the file (i.e., just change the list of fonts following `+Fo`).

The final parameter used in this example is "+lw 5.5". This indicates that a Line Width of 5 1/2 inches is to be used when printing. There are many additional parameters which can be specified to control top and bottom margins, headers, footers, page length etc. Each of these has a preset value which you only change if you want to.

Pfont can be used in this "command line" manner, or can be used in 2 other ways depending upon your level of expertise and what you are trying to do. The printing parameters can be entered interactively. That is, Pfont prompts you for parameters, always allows you to ask for help and provides general help or help specific to the parameter you are using; allows you to inspect and change the settings of any parameters; responds to and helps you to correct errors and generally makes it as easy as possible to control printing. Finally, Pfont can be used in a "canned" manner. That is, a file can be created containing Pfont parameter settings. Pfont can then be totally or partially controlled by the settings specified in this *parameter input file*. This is extremely useful for developing settings for different types of printing and then selecting the appropriate parameter input file relevant to the type of printing you are doing at the moment. Don't be confused by all the options provided by Pfont. When you are beginning, you use all the built-in settings and just indicate the name of the file to be printed and the fonts to be used.

The *Fancy Font*TM System: System Contents

The following are the components that are included in the *Fancy Font* package. All combined, this is over 450,000 bytes of programs and data.

- PFont:** Formatting and printing program. Takes a normal text file created using any text editor or other program and prints it on the dot matrix printer using a variety of character styles. Formatting features include: font selection, *justification*, pagination, headers, footers, horizontal and vertical motion, overprinting, underlining, string substitution and much more.
- EFont:** Font (character) editing program. Supports the modification of any character. Editing makes use of your normal text editor. Any characters can be modified and completely new characters and logos can be constructed.
- CFont:** Font creation program. Supports creation of entire character sets from the Hershey database of over 1500 characters. Characters can be scaled to produce different sized fonts or special effects.
- Hershey Database:** Over 1500 characters which can be scaled and combined into new fonts using CFont.
- Fonts:** Over 30 character sets. Most include alphabetic, numeric, punctuation and special characters. Fonts are ready to use, but any character or font can be modified using EFont (see list below).
- User's Manual:** 96 page manual describing all aspects of the *Fancy Font* system and providing an abundance of examples and suggestions for use.

Fonts

The *Fancy Font* system includes the following fonts in the indicated sizes:

Roman	8,10,11,12,18,40 point
Roman Bold	10,11,12,18 point
Italic	10,11,12,18 point
Sans Serif	8,10,11,12,18 point
Old English	18,20,40 point
Script	12,14,18,20,40 point
<i>Fancy Font</i>	12,20,40 point

As described above, the Hershey character database and a font creation program are also provided to allow creation of more font sets in many size variations.

Font Style Samples

These are samples of some of the different character styles included in the *Fancy Font* package. Each style is available in a range of sizes – only one size is shown (18 pt.) since this page has been photographically reduced.

- Roman A good character is for remembrance.
Ptah–Hotep, Instruction
- Roman Bold **Boldness has genius, power and magic in it.**
Goethe, Faust
- Italic *Print it as it stands -- beautifully.*
Henry James, Terminations
- Sans Serif Simplicity of character is no hindrance to
 subtlety of intellect.
Viscount Morely of Blackburn, Life of Gladstone
- Script *Fancy may kill or cure.*
James Kelly, Scottish Proverbs
- Old English **This is the sort of English up with**
which I will not put.
Winston Churchill

Selected Characters from the Hershey Database

There are over 1500 characters supplied with the *Fancy Font* system in addition to the regular fonts. The following are just a few of the available characters:

Φ Χ Ψ Ω Α Β C D E F G H I J ω α β c d e f g
κ ϖ ε ϑ ϕ ϗ Ϙ ϙ Ϛ ϛ Ϝ ϝ Ϟ ϟ Ϡ ϡ Ϣ ϣ Ϥ ϥ Ϧ ϧ Ϩ ϩ Ϫ ϫ Ϭ ϭ Ϯ ϯ ϰ ϱ ϲ ϳ ϴ ϵ ϶ Ϸ ϸ Ϲ Ϻ ϻ ϼ Ͻ Ͼ Ͽ Ͽ
α β γ δ ε ζ η θ ι κ λ μ ν ξ ο π ρ σ τ υ φ χ ψ ο ο ○
± ∓ × · ÷ = ≠ ≡ < > ≤ ≥ α ~ ^ [] { } ♠ ♥ ♦ ♣
'' √ ∫ ∪ ∩ ∞ → ↑ ← ↓ ∂ ∇ √ ∫ ∫ ∞ % & □ ∥ ⊥
@ \$ # § † ‡ ∃ ⊙ ⊚ ⊛ ⊜ ⊝ ⊞ ⊟ ⊠ ⊡ ⊢ ⊣ ⊤ ⊥ ⊦ ⊧ ⊨ ⊩ ⊪ ⊫ ⊬ ⊭ ⊮ ⊯ ⊰ ⊱ ⊲ ⊳ ⊴ ⊵ ⊶ ⊷ ⊸ ⊹ ⊺ ⊻ ⊼ ⊽ ⊾ ⊿
Ω Ϝ ϝ Ϟ ϟ Ϡ ϡ Ϣ ϣ Ϥ ϥ Ϧ ϧ Ϩ ϩ Ϫ ϫ Ϭ ϭ Ϯ ϯ ϰ ϱ ϲ ϳ ϴ ϵ ϶ Ϸ ϸ Ϲ Ϻ ϻ ϼ Ͻ Ͼ Ͽ Ͽ

The *Fancy Font*TM System: Trouble Shooting Guide

It is unlikely that you will experience any difficulty in operating the *Fancy Font* system. However, if you do have problems, follow the instructions below.

First, make sure you have the equipment listed under system requirements (*Fancy Font* will only work with the specified equipment). Second, follow all steps carefully from the *Instructions* section. If you still have difficulty, reset your system and type the underlined portion of the following:

B> FFDemo Trouble

Compare the output from your printer with the following samples. These samples represent the most frequent (albeit, rare) symptoms and explain the problem and its solution.

Symptom 1:

The printer rapidly prints many characters in no particular pattern, often with numerous form feeds (not shown in sample, sample is an approximation of output in this case).

Sample: @!aAGdast&(ha987 9809 sddf @@ asd @as df @33w2r d44TE dsafWE as

Description: Your printer is not capable of printing in *graphics* mode.

Solution: Install Graftrax-80 or Graftrax-Plus in your printer (see your local Epson dealer). Graftrax is standard in all Epson printers manufactured since late 1982 - older printers must be upgraded. Graftrax is not standard in IBM printers, but is available as an option.

Symptom 2:

Missing dot rows and some random characters, possibly followed by numerous form feeds.

Sample: Fancy Font Sample File

ok at this file with an editor, and also print the contents of the file D:\HTF\@1\ct101

Description: Your printer is receiving only 7 out of every 8 bits of data being sent to it, thus whenever either the number 8 print hammer is to be struck or a number larger than 127 is used in a control code to the printer, the printer does not respond accurately.

Solution: For serial interfaces make sure that **no parity** is selected and

that 8 bit transmission is enabled (set both printer and computers accordingly). For parallel interfaces (rare) a modification may be required if 1 of the 8 data bits is grounded or used as a data strobe. Apple owners see instructions regarding Apple printer interface cards.

Symptom 3:

Some characters are blurred, printer possibly making extra, short passes.

Sample:

Fancy Font Sample File

Look at this file with an editor, and also print the contents of the file using Pfont. This will provide an example of use for many *Fancy Font* commands. This paragraph

Description: The Epson printer normally maintains excellent registration and therefore can attain high print quality in conjunction with *Fancy Font*. However, the print head must be kept in constant motion once it has started across the page. To keep the motion constant, the printer must be sent data at a fast enough rate; if not, the print head will make extra passes (to get a *running start*) and will lose registration. An old model Epson serial card (either unlabeled or marked as Epson 8145) is flawed in its design and may not be able to communicate properly for graphics such as are used with *Fancy Font*.

Solution: Increase the communication rate to a *minimum* of 2400 baud, make sure to set both the computer and printer switches accordingly. Osborne owners, it is difficult to make the Osborne serial port communicate faster than 1200 baud, we recommend using your parallel (IEEE) port. If you are using an old interface card as described above, try a) using 2 stop bits at 9600 baud communication rate, b) select a slower baud rate (faster than 1200 baud and slower than 9600 baud), and c) contact your Epson dealer for assistance.

Symptom 4:

Extra new lines during printing.

Sample:

```

  " " " " " " " " " "
Fancy Font Sample File
fancy font sample file
Fancy Font Sample File
```

```

  " " " " " " " " " "
Look at this file with an editor, and also print the contents of the file using Pfont.
LOOK AT THIS FILE WITH AN EDITOR, AND ALSO PRINT THE CONTENTS OF THE FILE USING PFont.
```

Description: The Epson printers, when properly equipped, can perform line feeds of

one 216th inch. Your printer is not responding appropriately to a one 216th inch line feed request.

Solution: If you have an MX100 printer, it does not have Grafrax installed. You must install Grafrax; older MX100 printers have only a partial graphics capability and can not perform the one 216th inch line feed.

If you are using a Gemini Star printer, we cannot solve your problem. This printer is very similar to the Epson MX printers, however does not support the one 216th inch line feed. Perhaps enough calls to the manufacturer will encourage support for this feature in an update or in future products.

Symptom 5:

No output from printer (perhaps bell sounds).

Sample:

Description: Most likely your printer is not connected to your computer and will not work with any software. Alternatively, you may have an Epson #8141 serial interface card.

Solution: Make sure your printer is turned on, all cables are connected securely at both ends, etc. Check to see that your printer works with your computer (e.g. type Control-P and then type return a few times). If your printer works, but does not print with *Fancy Font*, you have a printer interface which will not work in graphics mode. If you have an Epson 8141 serial interface card in your printer, you must either use a parallel connection to your printer (remove the 8141) or purchase a new serial card. The Epson 8141 card is incompatible with the Grafrax graphics modes. Contact your Epson dealer for more information.

SoftCraft

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ORDER FORM

Quantity	Description	Unit Price ¹	Total Price
_____	<i>Fancy Font</i> TM System	\$180.	_____
	California Shipments: Add 6.5% Sales Tax (\$11.70 per copy):		_____
	Outside US add \$10 postage:		_____
	Demonstration Rebate:		- \$7.50
	TOTAL ORDER		_____

Diskette Format:

- 8" Std. CP/M 5 1/4" Osborne 5 1/4" KayPro
 5 1/4" IBM MS-DOS² 5 1/4" Apple³ CP/M

Method of Payment:

- Check or Money Order Enclosed C.O.D.
 MC/VISA #: _____ Expiration: _____

Signature: _____ (required for credit card order)

Ship To⁴: _____

Telephone No. _____

¹Price subject to change (9/82)
²IBM requires 128K memory
³Fully transparent 8 bit printer interface required
⁴Your order will be shipped by UPS within 14 days

Rebate not valid on reproduced forms