PaintAIDE
with the
SWIFT FONT KIT
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Salt Lake City, Utah 84106

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USING PaintAIDE

PRELIMINARIES

PaintAIDE fixes a few minor bugs that slipped by in the PowerPAINT object code. It also allows you to customize some aspects of the PowerPAINT program.

PaintAIDE requires TWO PHYSICAL drives. And, you should ONLY attempt to modify a BACKUP of your PowerPAINT medium. There are numerous utilities available for making backups of software -- both commercial titles and public domain programs.

After powering up the system, insert PaintAIDE into a drive (the other drives should be empty) and pull the computer reset switch. Instantly a title screen will appear and ADAM will play a simple melody to entertain you while loading is in progress.

After a few moments, the title screen will clear and you'll be prompted to select a drive for PowerPAINT. Insert the PowerPAINT disk or data pack into the drive of your choice (a DIFFERENT DRIVE from the one that PaintAIDE is in) and select the corresponding number key on the keyboard. DO NOT REMOVE any media until AFTER you select "exit to SmartWriter"

THE PROGRAM FUNCTIONS

Now you're given six options. These are:

1. fix PowerPAINT bugs
2. enable printer status
3. disable printer status
4. select SPECIAL fonts
5. clear background color
6. exit to SmartWriter

Just select the number that corresponds to your choice. Where additional options are availble after making a choice, you may come back to these six selections (thus aborting the current task) by tapping the <ESCAPE> key. And, upon completion each function will return control to this primary menu.

The "fix PowerPAINT bugs" will simply correct the minor bugs on PowerPAINT.

Originally, PowerPAINT included a function to check for the status of your dot matrix printer before any output was sent to the device. This feature was cancelled because some systems with alternate power supplies would erroneously indicate ready status errors. The second and third options from the PaintAIDE primary menu permit you to select whether or not you want to implement this feature.

The fourth option, "select SPECIAL fonts", lets you choose a typeface for each of the four SPECIAL font sizes. With half width, the options are "SYSTEM" (better than original) and "MICRO". With full width, the choices are "COMPU", "MICRO", and "SYSTEM". The double width choices are "BOLD", "COMPU", "GOTHIC", and "SYSTEM". The double sized (headline) choices are "BIG" (system), "BOLD", "COMPU", "GOTHIC", "OUTLINE", and "RITZ".

After making all four selections, the files will be read from PaintAIDE and then written to PowerPAINT. Along with the ability to load FontPOWER files from within PowerPAINT this gives you a wide variety of typefaces to choose from. This aspect greatly enhances the full page design potential of PowerPAINT.

The fifth option, "clear background color", just lets you choose the background color for clear. The default (system) color was black. You'll be prompted to enter the number of your color choice. These are as follows.

1 = black	8 = med red
2 = med green	9 = lght red
3 = lght green	10 = dark yellow
4 = dark blue	11 = lght yellow
5 = med blue	12 = dark green
6 = dark red	13 = magenta
7 = cyan	14 = gray

The Font Sets

THE VARIETY

The Swift Font Kit gives you over three dozen font files to choose from. These are stored in at least one of three possible formats: FontPOWER font set, hi-res shape table, or SpritePOWER bit image table. Accompanying these instructions is the *Swift Font Kit Quick Reference Sheet*. This reveals the particular designs for the basic 20 typefaces included. Use this sheet to preview the sets for your graphics creations.

THE FontPOWER SETS

The FontPOWER sets may be loaded within PowerPAINT simply by pointing to the file name on the graphic file folder. Then select USER FONTS for normal text entry. All FontPOWER compatible font sets end with the suffix ".fnt".

These font sets may also be used from SmartBASIC V1.0. Just enter BRUN and the filename. After executing a TEXT, GR, HGR, or HGR2 command, you'll need to enter "CALL 56320" to invoke the typeface. In TEXT mode, the INVERSE fonts will be set to the standard ADAM characters.

THE HI-RES SHAPE TABLES

Fifteen sets of hi-res font shape tables are included. These are also the typefaces used by PaintAIDE to allow you to customize the PowerPAINT SPECIAL FONTS.

These files may be used from SmartBASIC V1.0 (or 2.0) to print characters on the HGR or HGR2 screen. Just use the standard command, *ie*, DRAW, XDRAW, HCOLOR, SCALE, and ROT.

The default BLOAD address of each set is 28000. You can also retrieve them to your own selected address (be SURE to set LOMEM high enough to compensate for the file length). Also, POKE the low and high order byte pointers (to the BLOAD address) into addresses 16766 and 16767, respectively (this is explained in detail in the SmartBASIC programmer's manual).

The PaintAIDE medium contains a file entitled "SHAPEdemo" which demonstrates a simple way to print words on the HGR screen using the shape tables. RUN this program to see the results. Then, LIST it to view the four print routines (one for each of the four sizes). REMark statements fully explain the program. We recommend that you print a LIST on paper for easy reference.

Each of the hi-res font shape tables stored on the PaintAIDE medium has a two letter prefix. This denotes the matrix dimensions of the characters. "ds" means DOUBLE SIZED, "dw" means DOUBLE WIDTH, "fw" means FULL WIDTH (normal size), and "hw" means HALF WIDTH.

Another program included on the medium allows you to convert the current TEXT fonts to a hi-res shape table. It is entitled "EZshapeCON". Load BASIC 1.0 and enter "BRUN EZshapeCON". First, you're asked if you want to load a (TEXT) font set. If so, just enter "BRUN xxxxxx.fnt" (replace the x's with the FontPOWER filename). Then you select the starting ASCII value (we recommend 33) and the ending value (we recommend 127). The program will proceed to convert the VRAM bit image font table to a hi-res shape table. You can use the demonstration routine from "SHAPEdemo" to print words in that typeface on the HGR or HGR2 screen — change letter colors, rotate the typeface, and change the size. This capabiltiy can add real appeal to your hi-res BASIC games.

THE SPRITE TABLE FONT SETS

PowerPAINT isn't open ended with respect to SPECIAL FONTS; it is for FontPOWER font sets and sprite files. But, headline (double sized) fonts can add impressive visual appeal to a variety of graphics creations. With this in mind, we converted all the "ds" hi-res shape tables to sprite files. This gives you the option of using different headline typefaces within a single workspace picture. Just load the particular headline font file (stored as a sprite file) by pointing to it on the PowerPAINT file folder. Select the SPRITE ART option and stamp the sprite fonts on the picture. For aligning text more easily using this trick, you may want to print the headline fonts on the screen with the DOUBLE SIZED SPECIAL FONT option first. Then REPLACE them with the sprite fonts to change the typeface.

THE REMAINING FILES

GraphFonts

The BASIC program "GraphFonts" allows you to print FontPOWER font sets stretched in length on a hi-res screen.

Just get the picture on the screen first. You may want to use the program entitled "pix.mgr" to display an RLE or SmartPAINT picture on the screen first (pix.mgr is also included with the PowerPAINT package).

Be sure to BRUN the FontPOWER file after you're in HGR mode to have it used on the HGR screen. You will be prompted to select the HTAB and VTAB coordinates, the background and foreground screen colors, the font length factor, and the word or letters to print.
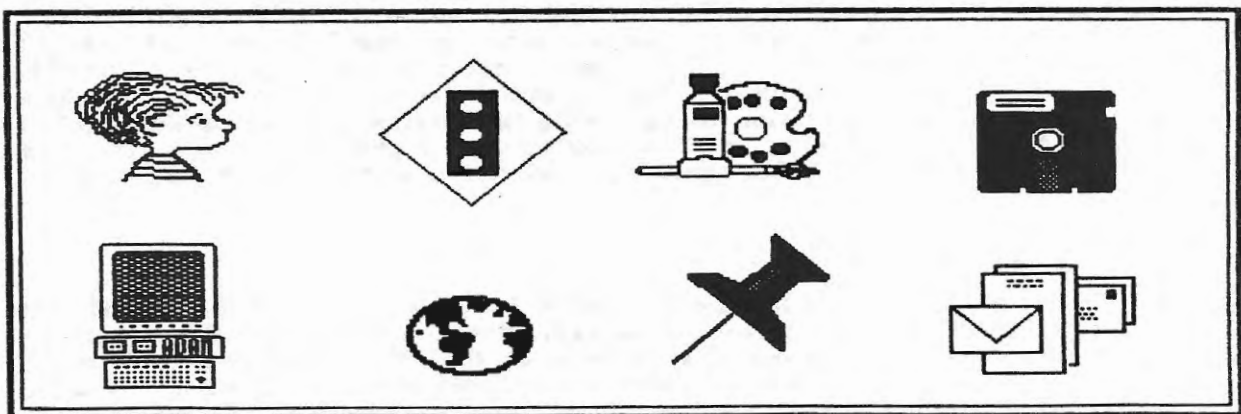
When you're done entering the text on the HGR picture, enter "BRUN pix.mgr" to store the revised picture in SmartPAINT format. Both "pix.mgr" and "GraphFonts" check to see if you're already in HGR mode; if you are, they won't clear the screen. This feature permits you to freely switch between immediate programming mode and the two programs. But, if you enter TEXT, GR, HGR, or HGR2, the graphics will be cleared.

THE CLIP ART FILES

Upon completing the PaintAIDE master disk, we had 9K of storage space remaining. To fill up the medium, we added nine public domain clip art files. These are displayed below.

ADDITIONAL GRAPHICS

PowerPAINT has induced a surge in graphics design on the ADAM computer. Less than four months after its release there are well over 1000 compatible graphics available for you to easily add detailed artwork to your own graphics creations. The majority of these are in the public domain, contact your favorite retailer for information on obtaining these PD volumes. Additionally, Wizard's Lair, ADAMzap Software, and Bryan's Software offer commercial graphics collections designed by professional artists which you can use with PowerPAINT.

SWIFT FONT KIT

QUICK REFERENCE SHEET

BLOCK GOTHIC
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./

BOLD FONTS
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()'=~{}:"<>?
\1234567890-+^[];',./

BOLD2 FONTS
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()'=~{}:"<>?
\1234567890-+^[];',./

COMPU FONTS
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./

ITALIC FONTS
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!/@#$%_&*()`=~{},."<>?
\1234567890-+^[];",./

MACHINE FONTS
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./

MICRO FONTS
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./

MODERN FONTS
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./

MONTEREY FONTS
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./

OLD ENGLISH
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./

OLD WEST
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./

RITZ FONTS
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./

ROMAN FONTS
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./

SANS SERIF
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()[=~{}:"<>?
£1234567890-+^{}];',./

SCRIPT FONTS
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./

STENCIL FONTS
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./

STOP FONTS	SYSTEM FONTS
ΔBCDEFGHIJKLMNOPQRSTUVWXYZ	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ΔBCDEFGHIJKLMNOPQRSTUVWXYZ	abcdefghijklmnopqrstuvwxyz
!!@#$%_&*()`=~{}:"<>?	!!@#$%_&*()`=~{}:"<>?
\1234567890-+^[];',./	\1234567890-+^[];',./

SYMBOL FONTS	TRADITIONAL GOTHIC
→←↑↓™®■■■■▪▪▪'□□□□▪▪'▭▭▐▌▌▙	ABCDEFGHIJKLMNOPQRSTUVWXYZ
▙▃£¡!♪?◆λπ✦✛□□□□□※▨→←↑↓	abcdefghijklmnopqrstuvwxyz
▦◇●✔✦♯‖♀ℏ♂♯‖》✖✖)△○◇◑	!!@#$%_&*()`=~{}:"<>?
▛△▦△▦▦△↗↖✕∏✕♣♯♩♪ℯₚ日♀♈♉	\1234567890-+^[];',./

DOUBLE SIZED FONTS

BIG	GOTHIC
ABCDEFGHIJKLM	ABCDEFGHIJKLM
NOPQRSTUVWXYZ	NOPQRSTUVWXYZ

BOLD	OUTLINE
ABCDEFGHIJKLM	ABCDEFGHIJKLM
NOPQRSTUVWXYZ	NOPQRSTUVWXYZ

COMPU	RITZ
ABCDEFGHIJKLM	ABCDEFGHIJKLM
NOPQRSTUVWXYZ	NOPQRSTUVWXYZ

DIGITAL EXPRESS

CREATIVE COMPUTING
FOR THE ADAM

PaintAIDE

with the SWIFT FONT KIT

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2 DRIVES

A-LU004

MADE IN U.S.A.

20.95

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