ANSI

Spiny Norman

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Chapter 1

ANSI

1.1 ANSI/SkyPix Documentation v1.12 - 01 Sep 1994

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1.2 Table of Contents

1.3 A Few Tiresome Words From Yours Truly

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| ## | N T R O D U C T I O N |
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When this document was first released almost two years ago, the tide of SysOps converting their BBS's from Commodore to Amiga was reaching its peak. At that time, SkyLine 1.3 was the hottest Amiga BBS around (because of its unique SkyPix protocol.) Michael Cox, however, decided to release Version 2.0 without SkyPix implementation, and some would say that the decline of SkyLine's popularity began there. Fortunately for SkyPix fans such as myself, however, C-Net Amiga now supports the protocol, providing a viable outlet for it until a better graphic-oriented protocol becomes ubiquitous in the Amiga market (such as RIP for instance.) TO C-NET USERS: the ANSI portion of this document is basically useless to you (other than as a technical reference), since C-Net's [M]essage [C]ommand [I]nterpreter mirrors all of the standard ANSI commands . However, SkyPix commands are not covered by MCI, and BBS artists must still enter them the old-fashioned way (or with SKYPAINT .) As of version 2.63, the only way to use ANSI/SkyPix while on-line is through the line editor (the visual editor will not respond to ESC sequences for some reason, but this may have been fixed in CNet/3.) Also, you must press ESC twice for the code to register with the editor (the ESC code will show as a tilde ~.)

TO SKYLINE 1.3 USERS: this document contains commands to which SkyLine's built-in editor should (I said SHOULD) respond, and since SkyLine has no equivalent of MCI, these Escape-commands provide the only method of changing colour and adding other various effects from within the BBS. OK, BUT JUST EXACTLY WHAT IS ANSI?

ANSI is actually an organisation, the American National Standards Institute, which back in the stone ages decided to introduce hardware/software standards to make the job of persons in the computer industry easier. Originally, the ANSI protocol governed printer-tocomputer communications since monitors were rare at that time. Eventually, however, someone invented the CRT, and ANSI seemed a logical choice to govern text displays on this new device. When MS-DOS came into being in the 1970's, MicroSoft picked up on the ANSI standard (implemented in ANSI.SYS) to allow non-graphics-capable machines (this was before CGA) to generate pseudo-graphic displays using text and ANSI colour changes. Then came the 80's and the era of the modem, and some clever programmer grabbed the standard once again to use for data terminal emulations, providing SysOps and users with on-line "pictures", colour changes, and cursor movement which made BBS'ing more interesting. The word "ANSI" can refer to a variety of standards (such as ANSI C, for instance), but for now I will refer to only the data terminal implementation. The ANSI protocol is functionally similar to Commodore's Pet ASCII in that each command is implemented by a series of weird characters that no one in their right mind would ever type by mistake. Also like PetSCII, it is designed so that terminal and host should (ideally) respond identically to the same command (this is rarely the case, however.) Since all 16colour ANSI terminals (including ones on the Amiga) are designed to emulate the standard ANSI palette, it is possible to view the same graphics using vastly different machines. Next Section Table of Contents

1.4 How The Stuff's Put Together

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== ## O M M A N D S T R U C T U R E ## = ## #### Standard ANSI Commands are structured as Introducer + Command + Terminator where the Introducer is almost always the ESC [key sequence and the Terminator is generally a letter (ANSI) or an exclamation point (SkyPix.) Confused yet? The ";" key can also be used within a complex command to join 2 command strings together. I know this sounds awfully naughty and complex, but just study the command charts in the following section and I think you'll see where I'm driving. The key sequences are spelled out key-for-key (they must be entered exactly.) Next Section Table of Contents

1.5 The Section You've All Been Waiting For

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| ## ## |
| ## ## ================================= |
| ###### N S I C O M M A N D S |
| ## ## ================================= |
| ## ## |
| ## ## |
| NOTES: |
| |
| · [] - refers to optional parts of a command. |
| \cdot '[n]' or '[m]' - always decimal numbers, containing one or more ASCII |
| digits to express their value. |
| \cdot Where '[n]' occurs in a command and the value of 'n' is not explicitly |
| defined, it usually defaults to 1. |
| \cdot 'ESC' - an ESCape key press (HEX \$1B or DECIMAL 27) - Use CTRL-[if you |
| don't have an ESCape key (Commodore 64's, for instance) - in some |
| implementations, \$DB also works as a command introducer, but ESC is much |
| |

more widely-used

· Commands involving upper or lower-case letters are always case-sensitive.

· Where applicable, the equivalent C-Net MCI commands (version 2.0 and

beyond) have been included for reference.

 \cdot All sequences should be entered WITHOUT SPACES - the spaces are included

for readability only.

Cursor Positioning Making your screen do the tango

Text F/X Italics, Boldface, and international intrigue

Changing Colours Monochrome users may skip this part

Next Section Table of Contents

1.6 Cursor Positioning Commands, or Watch the Bouncing Letters

CURSOR POSITIONING COMMANDS Backspace Left Arrow Key (CTRL-H) Tab Tab Key (CTRL-I) Line Feed (Down One Line) Down Arrow Key (CTRL-J) Up (Up One Line) Up Arrow Key (CTRL-K) Clear Screen (Form Feed) [MCI \f1] CTRL-L Carriage Return (Move To First Column) Return Key (CTRL-M) Insert n Characters [MCI \-n] ESC [[n] @@ Cursor Up n Lines [MCI \^n] ESC [[n] A Cursor Down n Lines [MCI \!n] ESC [[n] B Cursor Forward n Spaces [MCI \>n] ESC [[n] C Cursor Backward n Spaces [MCI \<n] ESC [[n] D Cursor Down n Lines And To Column 1 ESC [[n] E (Multiple Carriage Return) [MCI \nn] Cursor Up n Lines And To Column 1 ESC [[n] F (Opposite Effect Of Above) Cursor to the beginning of the current line ESC [G Cursor To Row n, Column m [MCI \f0\!n\>m] ESC [[n] ; [m] H Erase To End Of Display ESC [J Erase To End Of Line ESC [K Insert Line Above Current Line ESC [L

Delete Current Line ESC [M

Delete n Chars From Under Cursor Forward ESC [[n] P

Scroll Display Up n Lines ESC [[n] S

Scroll Display Down n Lines ESC [[n] T

Set Carriage Return Mode (What Is Transmitted Whenever You Hit RETURN) RETURN = Line Feed + Carriage Return ESC [20 h RETURN = Carriage Return Only ESC [20 1 Next Sub-Section 'ANSI Commands' Menu Table of Contents

1.7 Text F/X, or Emphasis Made Easy

TEXT F/X

Normal Display (clear all F/X) ESC [0 m (turns off reverse, brightness, and boldface; sets text and background to default colours . In SkyPix, this will also reset the font to Topaz-8.) Activate Bright Colours (STANDARD ANSI ONLY) ESC [1 m (forces the next colour change to use the second 8 colours instead of the first. This command is ignored in SkyPix mode.) Activate Italics (STANDARD ANSI ONLY) ESC [3 m (This only worked on a few terminals I tried.) _____ Activate Boldface (STANDARD ANSI ONLY) [MCI \o1] ESC [5 m (This command is also ignored in SkyPix mode.) _____ Reverse Display [MCI \r1] ESC [7 m (interchanges the background and foreground colours.) _____ FLASHING TEXT AND OTHER STUFF _____ Many of the above commands are dependent upon the terminal used. For instance, on many IBM terminals Boldface text (ESC [5 m) appears instead as flashing (blinking) characters. On other terminals, the (ESC [1 m) command activates flashing text instead of turning on bright colours (TERM, for instance, uses flashing text to represent the second 8 colours on 8-colour (3 bit-plane) screens.) Still others represent the second 8 colours by Boldface text. You will need to experiment to figure out how your terminal implements each of the above commands. Next Sub-Section 'ANSI Commands' Menu Table of Contents

1.8 Changing Colours, or Chartreuse Your Way to Social Ridicule

CHANGING COLOURS

NOTES:

 \cdot If Reverse Display is activated, the foreground colour becomes the

background colour

· In SkyPix mode, the first 8 colours can be accessed with standard ANSI

commands (to allow compatibility with ANSI screens), however the second

8 SkyPix colours can only be accessed by changing the SkyPix Pen Colour,

which is discussed later in this text.

- \cdot Only the first 8 colours may be used as a background.
- \cdot The foreground and background colours can be mixed and matched to achieve

128 total colour combinations.

TEXT (FOREGROUND) COLOUR [MCI \cn]

DARK (ESC [0 m) BRIGHT (ESC [1 m) SKYPIX

0 - Black Dark Grey Black ESC [30 m

- 1 Red Bright Red Bright Red ESC [31 m
- 2 Green Bright Green Bright Green ESC [32 m

3 - Orange Yellow Yellow ESC [33 m

- 4 Dark Blue Bright Blue Dark Blue ESC [34 m
- 5 Violet Bright Violet Violet ESC [35 m
- 6 Cyan Bright Cyan Medium Blue ESC [36 m
- * 7 Light Grey White White ESC [37 m
- * = default colour

BACKGROUND COLOUR [MCI \zn]

DARK (ESC [0 m) BRIGHT (ESC [1 m) SKYPIX

----- -----

- * 0 Black N/A Black ESC [40 m
- 1 Red N/A Bright Red ESC [41 m
- 2 Green N/A Bright Green ESC [42 m
- 3 Orange N/A Yellow ESC [43 m
- 4 Dark Blue N/A Dark Blue ESC [44 m
- 5 Violet N/A Violet ESC [45 m
- 6 Cyan N/A Medium Blue ESC [46 m

7 - Light Grey N/A White ESC [47 m

* = default colour

AMIGA IMPLEMENTATIONS

For Amiga terminals, the accepted standard ANSI palette (which most closely approximates the original CGA text colours) is as follows:

R G B COLOUR | R G B COLOUR

0 = 00 00 00 Black | 8 = 06 06 06 Dark Grey 1 = 10 00 00 Red | 9 = 15 00 00 Bright Red 2 = 00 10 00 Green | 10 = 00 15 00 Bright Green 3 = 10 06 00 Orange | 11 = 15 15 00 Yellow 4 = 00 00 10 Dark Blue | 12 = 00 00 15 Bright Blue 5 = 10 00 10 Violet | 13 = 15 00 15 Bright Violet 6 = 00 10 10 Cyan | 14 = 00 15 00 Bright Cyan 7 = 11 11 11 Light Grey | 15 = 15 15 15 White Next Section 'ANSI Commands' Menu Table of Contents

1.9 'Smart' Code and What it Can Do For Your Social Life

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E N E R A T I N G ' S M A R T ' C O D E

or enter ESC [1; 36 ; 45 m where the ; is the division character in the combined command, and the "m" is the common terminator of the three combined commands. As you can see, the second, 'optimised,' code contains four fewer characters than the first (those characters can add up after a while.) Another thing to consider in optimising your code is that colour, background, and text F/X changes remain in effect until they are removed in some way (by another change or by resetting to defaults.) So, if you wanted a whole passage of text to have a bright purple foreground but wanted to change backgrounds in the middle, it would only be necessary to enter something such as: ESC [1; 35; 43 m This is a test of the ESC [44 m Emergency Broadcast System. instead of entering ESC [1;35;43 m This is a test of the ESC [1; 35; 44 m Emergency Broadcast System However, if for some reason you wanted the text of "Emergency Broadcast System" to appear in dark purple instead of bright purple, you would need to specify a longer command: ESC [1; 35; 43 m This is a test of the ESC [0; 35; 44 m Emergency Broadcast System This is necessary since ESC [0 m not only turns off brightness but resets the colour and background as well. COMPLEX DICE _____

OK, let's take a quantum leap here. Let's say you wanted to clear the screen, jump down 14 lines, jump over 43 columns, change the text colour to dark red, change the background colour to yellow, and then make your machine quote Monty Python. CTRL-L clears the display ESC [14 B jumps down 14 lines ESC [43 C jumps over 43 lines ESC [7 ; 1 ; 33 ; 41 m the only way to use a bright colour as a

background is through Reverse Mode

type "I didn't expect a kind of Spanish Inquisition !"

Next Section Table of Contents

1.10 Extremely Silly Reference

NOBODY expects the Spanish Inquisition! Our chief weapon is surprise... surprise and fear... fear and surprise.... Our two weapons are fear and surprise... and ruthless efficiency... Our THREE weapons are fear, surprise, and ruthless efficiency... and an almost fanatical devotion to the Pope... Our FOUR... no... AMONGST our weapons... Amongst our weaponry... are such elements as fear, surprise... I'll come in again. Jane! Stop This Crazy Thing!

1.11 SkyPix Commands, or Cox's Folly

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K Y P I X C O M M A N D S

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SkyPix is defined as a sub-set of the ANSI standard, and in fact most ANSI commands have the same effect in SkyPix mode. There are however several SkyPix-specific commands (each followed with a characteristic "!" [bang] terminator) which can only be used from a terminal equipped to emulate the SkyPix protocol (all 2 of 'em ;) NOTES:

· All SkyPix graphics are implemented on a default screen of 640x200

(8 colours) with the default palette described below (unless the palette

or number of number of bitplanes is changed.)

 \cdot All sequences should be entered WITHOUT SPACES - the spaces are included for readability only.

Commands:

1 - SET PIXEL 9 - PLAY SAMPLE 16 - XMODEM TRANSFER

2 - DRAW LINE 10 - SET FONT 17 - SET DISPLAY MODE

- 3 AREA FILL 11 NEW PALETTE 18 SET PEN B COLOUR
- 4 RECTANGLE FILL 12 RESET PALETTE 19 POSITION CURSOR

5 - ELLIPSE 13 - FILLED ELLIPSE 20 - (NOT IMPLEMENTED)

6 - GRAB BRUSH 14 - DELAY (PAUSE) 21 - CONTROLLER RETURN

7 - USE BRUSH (BLIT) 15 - SET PEN A COLOUR 22 - DEFINE GADGET

8 - MOVE PEN

Next Section Table of Contents

1.12 Command #1

1 - SET PIXEL ESC [1; x; y!

(Sets the pixel at the specified X and Y coordinates to whatever colour is in Pen A)

Next Command 'SkyPix Commands' Menu Table of Contents

1.13 Command #2

2 - DRAW LINE ESC [2 ; x ; y !(Draws a line in the current A pen colour from the existing pen position to the point X,Y)Next Command 'SkyPix Commands' Menu Table of Contents

1.14 Command #3

3 - AREA FILL ESC [3 ; m ; x ; y !(Floods, in mode m, the area beginning at X,Y)Next Command 'SkyPix Commands' Menu Table of Contents

1.15 Command #4

4 - RECTANGLE FILL ESC [4 ; x1 ; y1 ; x2 ; y2 !
(Draws a filled rectangle in the current colour. Numeric parameters are the top left X and Y coordinates followed by the lower right X and Y coordinates)
Next Command 'SkyPix Commands' Menu Table of Contents

1.16 Command #5

5 - ELLIPSE ESC [5 ; x ; y ; a ; b !
(Draws Ellipse with center at X,Y; major [horizontal] axis A pixels, and minor [vertical] axis B pixels)
Next Command 'SkyPix Commands' Menu Table of Contents

1.17 Command #6

6 - GRAB BRUSH ESC [6 ; x1 ; y1 ; a ; b !

(Stores a piece of the screen as a brush in memory. From there it will behave exactly like a brush that has been received remotely. X1 and Y1 define the starting point, A the width and B the height) Next Command 'SkyPix Commands' Menu Table of Contents

1.18 Command #7

7 - USE BRUSH (BLIT) ESC [7 ; a ; b ; c ; d ; e ; f ; g ; h !
A = upper-left X coord. of the source bitmap
B = upper-left Y coord. of the source bitmap
The above two will usually be 0. HOWEVER, you can use these to blit parts of a brush to the screen.
C = upper-left X coord. of the destination (the screen X coord.)
D = upper-left Y coord. of the destination (the screen Y coord.)
E = horizontal (X) size of brush
F = vertical (Y) size of brush
G = MINTERM to be supplied to the blitter (commonly 192)
H = MASK to be supplied to the blitter (commonly 255)
The above commands blit what is in the brush buffer (following a CRC Transfer or a GRAB BRUSH command) - if no brush is found, the command aborts.

1.19 Command #8

8 - MOVE PEN ESC [8 ; x ; y !(Move the drawing pen to X,Y - NOT the cursor)Next Command 'SkyPix Commands' Menu Table of Contents

1.20 Command #9

9 - PLAY SAMPLE ESC [9 ; a ; b ; c ; d !

(Plays a simple sample. A is the "speed" of the sample, B is the starting point in bytes, C is the ending point in bytes, and D is the number of loops to perform) NOTE: Parameters A-C are not yet implemented. SPINY'S NOTE: As of C-Net version 2.63, SkySound is not yet implemented. Hopefully it will be added by the developers in the future.

Next Command 'SkyPix Commands' Menu Table of Contents

1.21 Command #10

10- SET FONT ESC [10 ; y ! fontname.font !

(Y is the size of the font, and fontname is the name of the font - the font must be in the fonts: directory of both the BBS and the Remote user for this command to work!)

SPINY'S NOTE: It's wise to stick to just the basic 7 Workbench fonts, since you know everyone will have them available on their system disk. Next Command 'SkyPix Commands' Menu Table of Contents

1.22 Command #11

11- NEW PALETTE ESC [11 ; c1 ; c2 ; c3 ; ... ; c15 ; c16 !
Sets the palette to the sixteen colours C1-C16 [you must enter all 16 colours even if you are just in 8-colour mode !] The parameters C1-C16 are decimal numbers arrived at in the following way:
Take a grey, for instance, whose R-G-B value is 12-12-12. Then convert that to C-C-C (since 12 is hex \$0C). Now take the hex number CCC and convert back into Decimal, which gives you 3276.
NOTE: Unless you are a massochist, I'd suggest using SKYPAINT since it does all of the above automatically. Even if you just need to set the palette, load up SKYPAINT and begin recording, go to the palette screen and set it to what you want, then end recording. You can then look at the tiny file you created and tell what ESC [11 command is needed in your final project.

Next Command 'SkyPix Commands' Menu Table of Contents

1.23 Command #12

1.24 Command #13

13- FILLED ELLIPSE ESC [13 ; x ; y ; a ; b !(Same as standard Ellipse [Command #5], except this one is filled-in)Next Command 'SkyPix Commands' Menu Table of Contents

1.25 Command #14

14- DELAY (PAUSE) ESC [14 ; a !(A is a value in jiffies [60ths of a second])Next Command 'SkyPix Commands' Menu Table of Contents

1.26 Command #15

15- SET COLOUR OF PEN A ESC [15 ; a !
Sets Pen A to colour a, where a is one of the following (assumes default palette)
0 = black 4 = bright green 8 = dark green 12 = dark blue 2
1 = dark blue 1 5 = med. blue 1 9 = cyan 13 = indigo
2 = white 6 = yellow 10 = med. blue 2 14 = violet 2
3 = bright red 7 = violet 1 11 = grey-blue 15 = magenta
Next Command 'SkyPix Commands' Menu Table of Contents

1.27 Command #16

16- CRC XMODEM TRANSFER ESC [16 ; m ; a ; b ! filename !
Files will be sent to whichever directory BRU: is assigned.
M (MODE) 1 = IFF Brush
2 = IFF Sound Sample
3 = FutureSound Sample
20 = General Purpose (saves to default dir.)
A & B are the X and Y size of the IFF brush, if that is what is being transmitted.
Next Command 'SkyPix Commands' Menu Table of Contents

1.28 Command #17

17- SELECT DISPLAY MODE ESC [17 ; m !

M is 1 for a 3-bitplane display (first 8 colours) or 2 for a 4-bitplane display (all 16 colours allowed). Note that if M is 1, then the second 8 colours (see Command #15) are disabled. Next Command 'SkyPix Commands' Menu Table of Contents

1.29 Command #18

18- SET B PEN ESC [18 ; b !
(Sets background pen to colour B [see Command #15] - this is useful for allowing ANSI commands to access more colours)
Next Command 'SkyPix Commands' Menu Table of Contents

1.30 Command #19

19- POSITION CURSOR ESC [19 ; x ; y !

(Moves text cursor to X,Y. Does NOT affect the position of the drawing pen) NOTE: This is not the same as ESC [[n] ; [m] H . In this case x and y refer to pixels on the screen and not to rows and columns of text. Next Command 'SkyPix Commands' Menu Table of Contents

1.31 Command #21

21- CONTROLLER RETURN ESC [21 ; c ; x ; y !

(This is SENT from the terminal every time a controller is activated c=1 for left button mouse click at coord. x,y ; c=2 for menu selection [x is the menu item #, y is ignored]) SPINY'S NOTE: Due to a bug in JR-COMM 1.02 (which was fixed in 1.02a), the ESC code is not sent with this command. This should be taken into consideration when adding mouse control to your own applications. Next Command 'SkyPix Commands' Menu Table of Contents

1.32 Command #22

22- DEFINE A SKYPIX GADGET ESC [22 ; n ; c ; x1 ; y1 ; x2 ; y2 ! (N is the gadget # (1-20), C is the command # associated with it; X1,Y1 defines the top left corner and X2,Y2 the lower right. The gadget appears in the colour of Pen A [see Command #15]) Next Section 'SkyPix Commands' Menu Table of Contents

16 / 21

1.33 IBM Graphics, or IBM ASCII's Better Half

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$\#\!\# \mathrel{B}M \mathrel{G} \mathrel{R} \mathrel{A} \mathrel{P} \mathrel{H} \mathrel{I} \mathrel{C} \mathrel{S}$

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What is IBM Graphics? Well, it's yet another throwback to the early IBM days (as the name indicates.) All IBM's and compatibles have a special set of graphic characters built into the upper half of their ASCII table (128-255) as a way for text-only programmes to make boxes, windows, lines, and such. Use of IBM Graphics found its way into terminals and BBS programmes much like ANSI did.

Of course, the Amiga with its ROM-based windows environment had no need for such primitive methods of generating graphics, but once Amiga terms started emulating IBM ANSI the need for emulating the IBM ASCII table arose as well. Fortunately, all that was required was a special font containing all of the necessary characters.

THE BBS END

IBM Graphic characters can be generated easily in most ANSI editors using point-and-click gadgets, but they can also be generated the old-fashioned way by using special key sequences entered in a text editor or terminal which has an IBM Graphic font selected as its default. An IFF-ILBM screen showing the most commonly-used IBM Graphic characters and their associated key sequences (assumes keymap 'usa0') has been included in this archive for your viewing pleasure. You can display it either by clicking below or by using a viewer of your own devising.

Click Here to View!

THE TERMINAL END

USING IBM GRAPHICS WITH ANSI: To enable IBM Graphics on any Amiga terminal, simply select an IBM Graphic font as the terminal's default text font. (a good IBM font has been included in this archive for those who don't have one.) This information is generally entered in a requester somewhere in the terminal's configuration.

USING IBM GRAPHICS WITH SKYPIX: This requires a bit more work, but believe

it or not, it's possible. JR-COMM uses Pearl rather than Topaz-8 as its default font in SkyPix mode, so all you need to do is replace Pearl with an IBM Graphic font (such as the included CleanIBM.) This is accomplished simply by copying the '8' file from the FONTS:CleanIBM/ subdirectory into the FONTS:Pearl/ subdirectory and running FixFonts (for good measure.) NOTE: If your terminal has an option for 'High-Bit Stripping' or '8th-Bit Stripping', it must be turned off for IBM Graphics to function. Next Section Table of Contents

1.34 Keeping Up With the Joneses

= ###### OWTOGETSTARTED ## ## = ## ## ## ## You don't need an intricate understanding of the ANSI protocol to start making pretty pictures. All you really need is a good ANSI editor. An ANSI editor is something of a cross between a paint programme and a text editor. A good one is designed to provide the user with an easy-to-use, intuition-based, DPaint-like format for 'drawing' ANSI screens and to do most of the nuts-and-bolts ANSI code generation automatically. For instance, the user would simply click on a gadget to change text colours rather than entering the full ANSI code. For non-animated ANSI screens, I would highly recommend using BBS-DRAW. It is extremely easy to use and is available through most Public Domain/ Shareware archives. I have used this programme for close to a year and have found that it generates code very nearly as 'smart' as my own with only a very few exceptions (plus working with it is considerably easier than pounding out ESC codes blindly in a text editor.) I'd also highly recommend getting a copy of SKYPAINT . SKYPAINT has the virtue of being the only ANSI editor equipped to interpret and generate standard SkyPix code. It is also relatively versatile and easy to use and it implements most of the SkyPix commands automatically using a point-and-click gadget box. At any rate, it's a GREAT DEAL faster than trying to enter them by hand and you can see the immediate results of each command as you create your file.

For ANSI animations (ANSI-Mations), I generally use DIANE (Digital Intelligence Animation Editor.) This programme also uses an intuitionbased interface, but it employs a clever device which treats each character placed on the screen as a separate 'frame' in the animation, allowing the user to move between 'frames,' add, and edit 'frames' much like a real animation program. Backdrops for the entire animation can also be loaded. The only drawback of DIANE is that it is limited to 8 colours, but it is still my first choice.

For the other end of the line, I would recommend getting TERMINUS v2 or TERM v4 (Workbench 2 and above) for emulating IBM ANSI. If you use TERM, I would also recommend using the (included) xemibm.library, since it seems to provide better ANSI compliance than TERM's built-in ANSI/VT-102 routines. For SkyPix, JR-COMM is still your best bet. SKYTERM is another option, although (surprisingly enough, since Michael Cox wrote it) it does not conform as well to the SkyPix standard as JR-COMM. Most SkyPix-supporting BBS's (mine included) are designed to work with JR-COMM rather than SKYTERM.

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1.35 Where to find TERM

TERM v4.0

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Federal Republic of Germany

1.36 Where to find TERMINUS and JR-COMM

TERMINUS v2.0d, JR-COMM 1.02a

Copyright ©1993 by John P. Radigan, All Rights Reserved. The unregistered version of TERMINUS (with auto-dialer disabled) is freelyredistributable and can be found in most PD/ShareWare archives (including wuarchive.wustl.edu.) The registered version can be ordered through the author for a ShareWare fee of \$40 or for a \$10 upgrade fee if you are a registered JR-COMM user. The author can be contacted through E-Mail at the following addresses: GENIE: JRADIGAN **COMPUSERVE: 76545,201 BIX: JRADIGAN** INTERNET: jprad@faatcrl.faa.gov or bang path ...!rutgers!faatcrl!jprad or through Snail-Mail at Dynalogic P.O. Box 444 Ocean City, NJ 08226 TERMINUS and JR-COMM are also supported on Dynalogic Product Support BBS - FidoNet: 1:266/61 (609) 398-7453 (24hrs/7days) 3/12/24/96/14.4/16.8kbps HST/v.32bis For SkyPix fans, I'm not sure whether Radigan still supports JR-COMM 1.02a or even if it is still available from his BBS. However, the unregistered version of JR-COMM 1.02 or 1.02a (with the delay screen) is freelyredistributable and can be found in many Amiga archives such as wuarchive.wustl.edu and on most Amiga-supporting BBS's. JR-COMM 1.02a (unregistered) can also be found on the [A]miga [U]ser [I]nternational Userdisk #6 (11/91) Magazine Disk, and my BBS carries the original archive as a free download.

1.37 Well, Now Comes the Bad News...

SKYPAINT

SKYPAINT might be a little difficult to obtain. Unfortunately, Michael Cox limited its legal release to Registered SkyLine SysOps only (which is how I

acquired the programme.) The legalities are a bit vague since he abandonned the protocol, but I would assume that distributing SKYPAINT is still technically a no-no. Perhaps someone more proficient in programming than I could design a freely-redistributable SkyPix editor and win my life-long friendship (hint hint.)

1.38 Where to find BBS-DRAW

BBS-DRAW v4.01

1.39 Where to find DIANE

DIGITAL INTELLIGENCE ANIMATION EDITOR

Written by PER of Digital Intelligence
Copyright ©1991 Digital Intelligence, All Rights Reserved.
DIAne is freely-redistributable ShareWare with a suggested fee of \$15.
Its author can be reached through Snail-Mail at
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Bieslook 92
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The Netherlands

1.40 Whereabouts I Can Be Found (On Odd Thursdays)

I can be reached through E-Mail at the following addresses: drc76795@jetson.uh.edu or drc76795@tree.egr.uh.edu I can also be reached through Snail-Mail at The Flaming Hedgehog P.O. Box 73 Port Neches, TX 77651 Alternately, you can reach me on my BBS (The Flaming Hedgehog), Bartertown (1-409-898-4969), or Leisure World (1-713-859-0902). If you'd like to see first-hand the capabilities of SkyPix and C-Net (including full mouse-control), boot up JR-COMM 1.02 or 1.02a and dial 1-713-661-1930 I hope this whole mess has been helpful in some tiny way. _ _ __ /____/\/// //V/_\//Sr., Electrical Engineering ____ ____/___V/___V/////___V___/__V____\

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