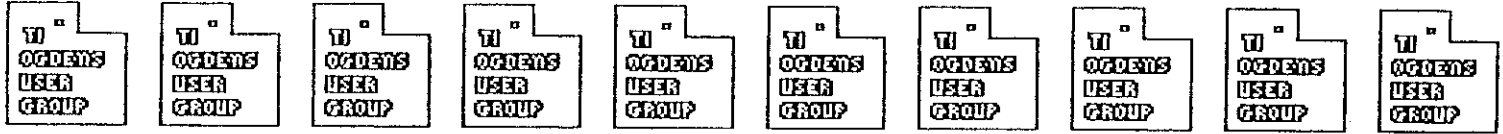
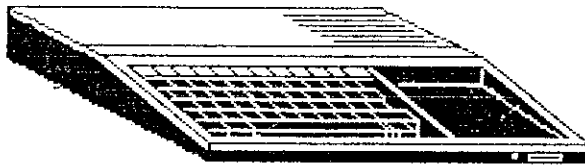


Videotour.com

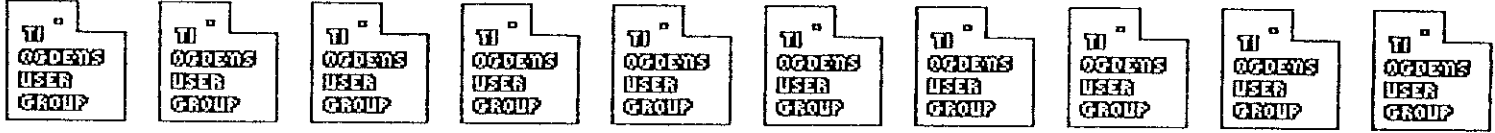


a publication of the ti 99-4a and 9640
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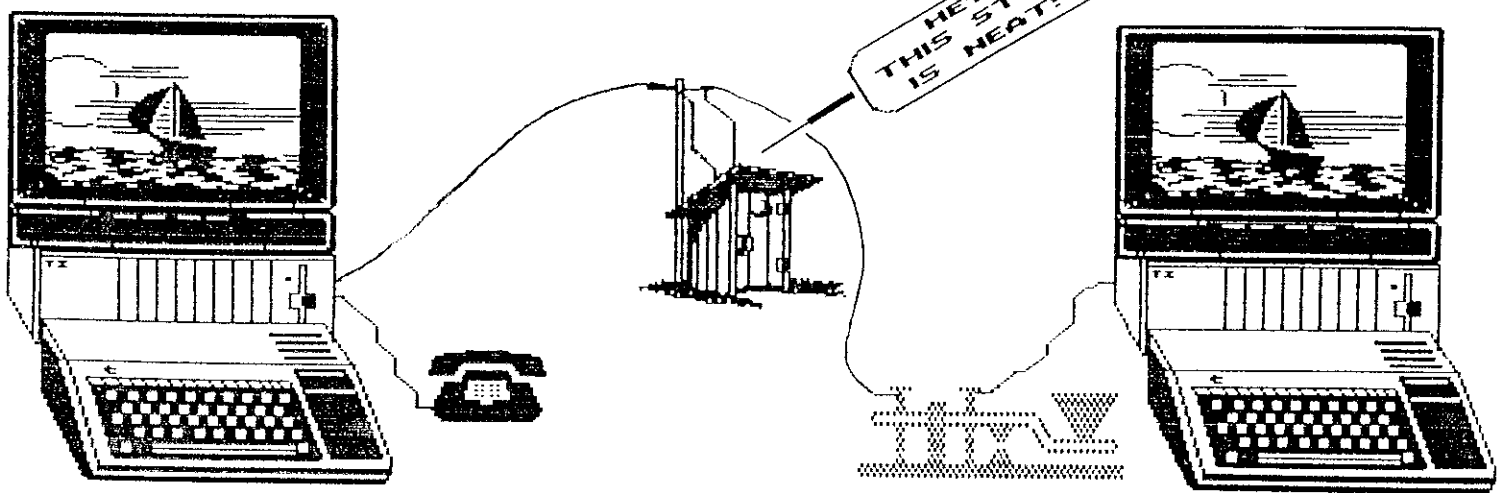


**THE CLUB THAT REFUSES
TO SAY GOODBYE**



JUNE 1989

COMMUNICATING



COME TO USER GROUP MEETINGS

TI-BASE - From INSCEBOT
TUTORIAL 8.1 By Martin Smoley
NorthCoast 99'ers - March 12, 1989
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***** More on Printer Controls *****

Last month I thought I covered printer controls, but then I tried to use them. I made a real mess of things. At that point I decided that instead of trying to remember another set of printer commands, I would change the TIB commands to the type I use the rest of the time. I normally use directly inserted codes which can be found on page 146 of the original TI-Writer manual. I placed these characters in the right hand column of last months FunnelWeb TI-Base Control Code sheet. After firing up TI-Base I typed USE DSKS.PRINTER, which is where my PRINTER DB is located, and then MODIFY STRUCTURE. This brought up the PRINTER STRUCTURE SCREEN, which I then modified to look like the one below.

CREATED	CHANGED			
FIELD	DESCRIPTOR	TYPE	WIDTH	DEC
1	NAME	C	010	
2	FF	X	002	
3	LF	X	002	
4	CR	X	002	
5	G	X	004	
6	UL	X	006	
7	e	X	002	
8	f	X	004	
9	4	X	004	
10	E	X	004	
11	SPS	X	006	
12	SBS	X	006	
13	HT	X	002	
14	ST	X	020	
15	Drft	X	026	
16	BLANK	X	030	

. SNAP

000 1 PRINTER 00006/00007

You can type over the name and press FCTN 8 to save your changes. Do not change anything in the width column or you will lose the data in the file. Next I type EDIT (E), to get into the file and make one change. When the EDIT Screen came up I pressed FCTN 5 to get to the EPSON record and I pressed (E) until the cursor was in the ST field. I then entered 1B442B followed by all zeros, and FCTN 8 to save my changes. This changed my ST (Set Tab) field to set one tab at 40 columns. 1B44 means Set Tab, and 2B is Hex for 40. The zeros are null bits and don't do anything. I then typed CLOSE ALL (E), to get out of the PRINTER DB. I had previously removed the asterisk (*) from the beginning of the PRINTER EPSON line in my SETUP CF, so I typed DO DSKS.SETUP. The SETUP file ran and I saw the PRINTER flash on the screen so I knew that my new commands were in place. NOTE: I have placed a copy of the PRINTER database at the bottom of this page with my modification to the ST field. I chopped off the BLANK field to make it all fit on one line. The BLANK field contains 30 zeros. You cannot print out your PRINTER DB because of the special X-type field designation. To print this out I place a copy of the two PRINTER files on a disk in drive #1 and entered these commands. COPY DSK1.PRINTER/D DSK2.C_PRNTR/D 60 (E), then COPY DSK1.PRINTER/S DSK2.C_PRNTR/S 60 (E). If you have a two drive system, you must also have a copy of the TIB system in Drive #1, or you can make the copy directly from your TIB system disk. These commands will cause TIB to COPY the printer files to two new files. You can now enter USE DSK2.C_PRNTR (E), and the MODIFY STRUCTURE (E). At this point change all of the X-type designations to C, for Character, and FCTN 8 to save the changes, and FCTN 9 to get out of that mode. At that point I entered TOP (E), then PRINT (f) and PRINT ALL. My printout was roughly what you see at the bottom of this page except for added line because of field lengths. With this printout you can visualize the complete PRINTER database and see where your own particular printer fits in. Remember to modify the original PRINTER database if needed. The C_PRNTR database is completely useless except for a printout.

I really hope this helps some of you get into the swing of printer controls. I spent a lot of time and messed up a lot of data in order to produce this tutorial.

Hopefully you now have modified your printer control database and have put it in use by removing the asterisk from the SETUP file on your system disk. Now let's put the PRINTER COMMANDS to some use. I had a specific question at one time that I will answer in the same Command File. The question was, "How can I print more than one label across? I got some labels cheap that are two across." **Continued Next Page.**

PRINTER DATABASE

REC	NAME	FF	LF	CR	G	UL	e	f	4	E	SPS	SBS	HT	ST	Drft	BLANK	
0006	DIABD	0C	0A	0D	0000	000000	00	0000	0000	0000	000000	000000	09	00000000	00000000000000	00000000000000	
0000	EPSON	0C	0A	0D	1B47	1B2D01	0E	000F	1B34	1B45	1B5300	1B5301	09	1B442B00	00000000000000	1B4B1B2D3014121B351B461B54	00000000000000
0003	MX-80	0C	0A	0D	1B47	000000	0E	000F	0000	1B45	000000	000000	09	1B440A0A	0A0A0A0A0A0A00	1B4B14121B4600000000000000	00000000000000
0002	NEC	0C	0A	0D	0000	000000	0E	1B51	0000	1B21	000000	000000	09	1B2B3031	302C30320000	1B220F1B4E0000000000000000	00000000000000
0004	OKIDATA	0C	0A	0D	1B4B	1B43	1F	001D	0000	1B54	001B4A	001B4C	09	00000000	00000000000000	00000000000000000000000000000000	00000000000000
0005	PROPRINTER	0C	0A	0D	0000	000000	00	0000	0000	0000	000000	000000	09	00000000	00000000000000	00000000000000000000000000000000	00000000000000
0001	TI-850	0C	0A	0D	1B47	000000	0E	000F	0000	1B45	000000	003000	09	1B440A0A	0A0A0A0A0A0A00	1B4B14121B460000000000000000	00000000000000

TI-BASE - From INSCEBOT
TUTORIAL 8.2 By Martin Smoley
NorthCoast 99'ers - March 12, 1989
Copyright 1989 By Martin A. Smoley

```
* Command file 2WLBLS/C
* Copyright Martin Smoley 1989
*
* SET TALK OFF
* TRACE ON
SET RECNUM OFF
SET HEADING OFF
SET PAGE=000
CLEAR
COLOR WHITE,DARK-BLUE
LOCAL XPDT C 38
LOCAL NAME C 38
LOCAL ADDRS C 38
LOCAL CTSTZ C 38
LOCAL TEMP C 38
USE TNames
TOP
PRINT (ST),(G)
WHILE .NOT. (EOF)
    REPLACE XPDT WITH "          " ;
    | "          Exp. Date " ; XP
    REPLACE NAME WITH TRIM(FN) | " ";
    | MI | " " | LN
    REPLACE ADDRS WITH SA
    REPLACE CTSTZ WITH TRIM(CT) | " ";
    | ST | ". " | ZP
    MOVE
IF (EOF)
    PRINT (G),XPDT,(Drft)
    PRINT (CR),(LF)
    PRINT (E),NAME,(Drft),(G)
    PRINT (4),ADDRS
    PRINT CTSTZ,(Drft)
    PRINT (CR),(LF)
ELSE
    REPLACE TEMP WITH "          " ;
    | "          Exp. Date " ; XP
    PRINT (G),XPDT,(HT),TEMP,(Drft)
    PRINT (CR),(LF)
    REPLACE TEMP WITH TRIM(FN) | " ";
    | MI | " " | LN
    PRINT (E),NAME,(HT),TEMP,(Drft),(G)
    REPLACE TEMP WITH SA
    PRINT (4),ADDRS,(HT),TEMP
    REPLACE TEMP WITH TRIM(CT) | " ";
    | ST | ". " | ZP
    PRINT CTSTZ,(HT),TEMP,(Drft)
    PRINT (CR),(LF)
    MOVE
ENDIF
ENDWHILE
CLOSE ALL
DO DSK5.SETUP
RETURN
*
* CF to print two across labels
```

The Command File on this page is the working result of my effort for this month. It is probably not the most efficient as far as programming is concerned, but it does print labels two across and it also demonstrates the use of the printer controls in the Command File mode. If you wish to type this CF in and use it, it is too large for the TIB Editor, so it must be entered with FunnelWeb in the non-wordwrap mode. Lines 4 and 5 do not execute because of the asterisk in the first column. If you run into a lot of bugs, you can find many of them by watching the program lines scroll up the screen. When the CF works well, remove the asterisk from that line to turn the screen junk off. If your problems are massive, as mine were, remove the asterisk from the TRACE ON line and all lines which are executed will also be sent to the printer, along with line numbers. The printout will help you find your problems. When the CF runs well remove the TRACE line completely. The line PRINT (ST),(G) is the first line to issue printer controls. It sets the printer tab at 40 columns and turns double strike on. Note: This line can be typed at the Dot Prompt and executed provided a DB is in use at the time. I am using TNames which contains 5 records. "WHILE .NOT. (EOF)", is roughly the same as saying to TIB, if you have any data right, now load the respective fields into XPDT, NAME, ADDRS and CTSTZ, then MOVE to the next record. The IF statement says, IF you have turned up the EOF marker with that MOVE, then print out the fields you have and jump to the end or ENDIF. This will print one label. If the MOVE has not brought us to the EOF marker, TIB will jump to the ELSE statement. The ELSE statement is the same as saying, we must have another record so proceed with the statements right after the ELSE, which will produce two across labels. TEMP is reused for each line so that portion works like this. REPLACE TEMP WITH " Exp. Date" XP, is filling TEMP with items from the second record because of the MOVE statement. Therefore, PRINT (G),XPDT,(HT),TEMP,(Drft) says this; set double strike on, print whatever is in XPDT (which we gathered from the previous data record), Horizontal Tab to column 40, print TEMP (which contains data from the second record, and last, change the printer back to Draft mode. This will print across the page side by side with a tab of 40. The next line prints a Carriage Return and a Line Feed. I like the PRINT (CR),(LF), it eliminates the need to initialize space for BLNK, which is what I previously used for a line feed. This process continues until the two labels are printed, another MOVE is executed and the whole process starts over. When the EOF is reached the WHILE statement no longer executes, and in my case the SETUP file is run. I have started using my SETUP CF at the end for other Command Files. I turn on the RECNUM etc. and it DISPLAYS the STATUS so I can see exactly what is happening. This way I always return to a system I am familiar with, and it's easy to do. You may not want to use my symbols for control codes, (G) double strike, (f) condensed etc., but you should have enough information at this time to set up whatever you want and be able to use whatever you do set up. I am beginning to like this type of printer control, because it is available at all times. I do not need to jump to FunnelWeb to insert special characters. I have not tried this yet, but I believe that the control codes for your personal system can be greatly expanded by dedicating the whole PRINTER database to one printer. For example, you would not have DIABLO, EPSON, MX-80, etc. You would have EPSON1, EPSON2, EPSON3 etc. and fill the whole database with EPSON commands. With the PRINTER database on the PRGDISK you could then SELECT an unused slot within a running CF and execute PRINTER EPSONn (n=1-0). At that point TIB would load another 15 printer commands which you could use. Interesting thought isn't it. Next Month.

FLUC - May 1988

TI-WRITER TIPS #1
- by Bob Seddon -

EDITOR MARGINS VERSUS
FORMATTER MARGINS

There are two kinds of margins in TI-Writer: Editor Tabs & Formatter Dot commands.

EDITOR TABS

When you create text with the Editor you use margins called Tabs. Tabs are set via CTRL c (PROMPTS), t (Tabs), Enter. This sequence of keystrokes makes the Tab Line appear across the top of the screen. You can type over the Default settings at 0 and 79 and reposition L and R to make on-screen tabs any width within that range.

PRINTING WITH THE EDITOR

You can print text created in the Editor with the Editor itself by CTRL c (PROMPTS), f (FILES), pf (Print File), Enter. This sequence of keystrokes prints text with margins equal to the tab settings; the printer output resembles the screen.

However, there are advantages in NOT using this method to print. If you use the Formatter instead of the Editor you can print lines longer than 80 spaces. You can automatically number successive pages. You can put Headers at the top of each page, Footers at each bottom. You can make the R margin flush with the .FI;AD command. You might want to use the Ampersand to underline, the Each to Print Bold. You can double space and set page length.

PRINTING WITH THE FORMATTER

To print through the Formatter you must Save the file, Exit the Editor, Load the Formatter, reLoad the file, and then print. The Formatter prints the file according to the Dot Command instructions.

FORMATTER DOT COMMANDS

Formatter margins are also set in the Editor, but not the same way as the Tabs. Instead, Formatter margins are typed in (usually on line 0001) as Dot

Commands (.LM n;RM n). Dot Command margins (if present) override Tab margins when text is printed through the Formatter. If there are no Dot Commands the file will print out according to the Tab margins. The Formatter follows the Dot Command instructions but does not print the Dot Commands as it does text. The Editor, on the other hand, not only ignores Dot Commands but also prints them just as it will any other text, since it cannot make the distinction between Dot Commands and regular text.

Quite often you will want to print your text with margins EXACTLY the same as on-screen. There are at least two reasons you might want to do this:

(1) HYPHENS

If you pack in as much text per line as possible you will want to break words and hyphenate them; if you do so, the final printed output must break the words at the same place you did. Otherwise, your text will take on the appearance of this particular sentence.

(2) MULTIPLE COLUMNS

If you create text with narrow columns so that you can put several parallel columns on one page you need to count the EXACT number of lines. Line numbers down the left column give you this number (minus the lines devoted to printer commands) if your on-screen equals your printed work. (NOTE: see box at end of article about the advantages of narrow columns.)

There is a trick you must use to make your on-screen work created in the Editor resemble the printed output of the Formatter so that each resembles the other line-by-line.

R TAB ONE / HIGHER THAN .RM

If you use the Formatter you must set the R Tab one digit higher than the setting of the .RM dot command. The difference between the Formatter and Editor is that the Formatter will print ON the .RM column. The Editor prints UP TO (but not on) the R Tab.

TAB SETTINGS:	0 & 31
SPACES USED ON-SCREEN:	0 - 30
(31 ACTUAL SPACES OCCUPIED)	
DOT SETTINGS:	0 & 30
COLUMNS PRINTED ON:	0 - 30
(31 ACTUAL SPACES OCCUPIED)	

In this article I set the Editor margins at 0 and 31 to fit three columns on the page. The Formatter settings are at .LM 0;RM 30. You can see that the columns printed at a width of 31, not 30.

123456789 123456789 123456789
L....T....T....T....T....T....T

When counting, remember to begin ON zero: call the 0 a 1, 1 a 2, 2 a 3, etc. R follows the last T. We cannot print it here for the very reason being discussed! Counting the number of spaces used in each line on printed work is not difficult. Nor is it hard to count spaces used on screen. It is even easy to memorize the rule for making Editor margin width one character longer than dot command margin width. The one frustrating thing about this whole business is allowance for a L margin on zero!

Instead of making .RM one digit smaller than the R tab setting you have the option of achieving the same effect by making the .LM one digit greater than the L Tab of the Editor. The option of using zero as a L Tab adds confusion to this issue because you can also set .LM at zero; thus, this tactic is of no particular benefit for you.

SPACE(S) AFTER . : ? !
REFORMAT VERSUS .FI

When you Reformat, the Editor packs in text according to its own set of rules, rules different from the Formatter .FI command. If you leave only one space after a period, the Editor's Reformat command will NOT increase the spacing to two places. The Formatter, on the other hand, ALWAYS leaves two spaces after periods, whether you want it to (at sentence ends) or not (after initials).

We can prevent the Formatter from increasing the single space after the final dots of initials, abbreviations, etc. by putting a carat between such dots and the next letter.

Similarly, we need to force in two places after `!`, `?`, and `!`. If you merely leave two spaces after each one the Formatter will reduce your two spaces after each of these down to one unless you follow them with a carat, then the space. Optionally, you can key in two carats (and no space).

SPACES LEFT AFTER:

	period	initial	?!:
Editor	1	1	1
Reformat			
Formatter	2	2	1
.FI			
Remedy	space twice	carat once	carat twice

FORCED IN CARRIAGE RETURN

The Formatter makes a decision to Wrap based on the R tab setting and whether a word (or ANY group of characters) occupies or exceeds that setting. Usually the last PRINTED character in a paragraph is a period and if it falls on the last occupiable position (R tab setting minus one) you must be careful where you place the carriage return.

- (1) If you space once after the period, then Key CTRL m, there is no problem.
- (2) If you cursor down below your text, then Key CTRL m, there is no problem.
- (3) If you key CTRL m in the position directly following the period, the last word in a paragraph will not fit at the end of the line and will drop to the next line.

When it drops, you notice that it SHOULD fit, even when you account for the space before the word and the period following. The Editor Wraps the word around to the next line because it treats the carriage return

following the period as part of the word, even though the carriage return is not a printed symbol.

If this happens to you, you must break the text after the period and before the carriage return (CTRL g), then Reformat. The word will now NOT wrap to the bottom line. The carriage return also moves up to the original line.

FORCED IN FORMATTER COMMAND

A similar problem occurs when you precede a word with an ampersand, carat, or @. Let us consider the ampersand which is, of course, a Formatter command to underline any word it precedes. The Formatter .FI Command ignores the ampersand and packs in Text as though the ampersand were not there. Unfortunately, the Editor treats the ampersand as a regular character when Reformatting and, so, will make a decision to Wrap a line based on the presence of it within a line of text, just like the carriage return. This anomaly makes it difficult to create a line of text which appears on screen exactly as it will print.

There is a technique to insert these codes in front of any (or even every) word on the line. Unlike the carriage return which FOLLOWS a word, a Formatter command PRECEDES it, making the previous technique impossible. Turn off wordwrap with CTRL O. This turns your cursor into a hollow rectangle. Move the cursor to the letter before which you want an &. Key in Insert (FCTN 2). Key in the ampersand. Everything right of it will move right one column. This is the only way you can make a character appear ON column R.

You can only insert one such ampersand per line using this trick UNLESS YOU RESET THE EDITOR R MARGIN TO A HIGHER NUMBER. If you insert an additional character anywhere else on the line and do not first increase the R margin the last character on the line will vanish. You can precede EVERY

word in the line with a non-printable character so long as you increase the R Tab enough so that all text and all codes fit on that line. The only restrictions which apply are that you may not mix text and code such that you exceed 80 spaces; nor can you Reformat afterwards.

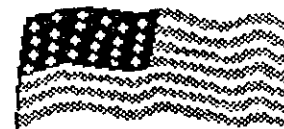
THE NARROW COLUMN ADVANTAGE: NO WINDOWING

I find it convenient to set on-screen margins so I can see all text without Windowing left and right. Since I also like to leave the four-digit column numbers on the left side of the screen at all times, the highest possible R margin setting is 34. (34 is off screen, but Wordwrap causes text to occupy 33 by briefly Windowing right, then left, when you type on 33 itself.)

You can turn off the column numbers (FCTN 0) to see six more columns of text (4 digits and 2 spaces) which lets you set the margins at 0 and 39. You can even set R at 40 (which is off screen) so that Wordwrap will cause text to occupy 39; this makes a REAL 40 column screen. Naturally, the R Tab can be reset anytime to Reformat to any desired margin width up to the on-screen maximum of 0-79.

79 COLUMN SCREEN

I am sorry to break the news to you that you only have a 79 column screen, not the 80 column screen you thought you did! When in Wordwrap the Editor does not let text occupy the column of the R margin (on screen or when printed with the Editor). If you create text with Wordwrap on, the Editor alone cannot print 80 columns: its extremes are 0 and 79, and 79 is not printed on. The arithmetic is tricky because of the presence of the zero. If your Editor margins are on 0 and 79 you can only print 80 column text IF your dot commands are set at 0 and 79! AND IF you use .FI; nor will on-screen equal output.



FLORIDA DAY

#57

Tigercub Software
156 Collingwood Ave.
Columbus OH 43213

I am still offering over 120 original and unique entertainment, educational and utility programs at just \$1.00 each, or on collection disks at \$5.00 per disk.

The contents of the first 52 issues of this newsletter are available as ready-to-run programs on 5 Tips Disks at \$10 each.

And my three Nuts & Bolts Disk, \$15 each, each contain over 100 subprograms for you to merge into your own programs to do all kinds of wonderful things.

My catalog is available for \$1, deductible from your first order (specify TIGERCUB catalog).

TI-FD LIBRARY

I have selected public domain programs, by category, to fill over 200 disks, as full as possible if I had enough programs of the category, with all the Basic-only programs converted to XBasic, with an E/A loader provided for assembly programs if possible, instructions added and any obvious bugs corrected, and with an auto-loader by full program name on each disk. These are available as a copying service for just \$1.50 post-paid in U.S. and Canada. No fairware will be offered without the author's permission. Send SASE for list or \$1, refundable for 9-page catalog listing all titles and authors. Be sure to specify TI-FD catalog.

```

: ***** : M$ :: RESTORE 200 :: GOTO 50 : 1700 PRINT D$(S):: GOTO 800
: I like little programs : 0 : 1800 PRINT "NOT FOUND": "CLOS
: that load quickly and do : 700 ON ERROR 800 :: GOTO 600 : EST ARE"
: just what I want to do at : 800 DISPLAY AT(16,1): "NAME N : 1900 IF D$(S2)>M$ THEN PRINT
: the moment. And one of the : OT FOUND" :: RESTORE 200 :: : D$(S2-1):D$(S2+1):: GOTO 80
: things I wanted to do : GOTO 500 : 0
: quickly was to find phone : : 2000 PRINT D$(S2+1):D$(S2+2)
: numbers. So, I used FUNLWEB : That funny thing in line : :: GOTO 800
: to create a little file - : 201 turns off the prescan :
: SMITH,JOHN (999) 111-2222 : and speeds up initializa- : Note that in this case
: BUSH, GEO. (000) 123-1234 : tion. This routine is no : the records must be in
: GHADDAFI, O. (666)66-6666 : faster than the last, but : alphabetical sequence. New
: and all my other frequent- : can be updated by editing : records can be inserted in
: ly called numbers. I SAVED : the program itself. It is : intermediate line numbers,
: it as DSK1.PHONELIST and : limited to about 500 records : in alphabetic sequence,
: wrote this little routine to : due to the least-known and : always preceded by X=X+1 ::
: use it. : greatest weakness of the TI, : D$(X)= . Obsolete records
: : that string storage is : can be deleted, and records
: 100 CALL CLEAR : limited to console memory. : can be corrected in place if
: 110 OPEN #1:"DSK1.PHONELIST" : But, computer users are : the correction does not
: ,INPUT : paranoid about speed, so I : change the alphabetic
: 120 DISPLAY AT(12,1): "LAST N : decided to put my data into : sequence.
: AME?" :: ACCEPT AT(14,1):N$ : a pre-loaded array with self : This idea did not work
: 130 LINPUT #1:M$ :: IF POS(M : incrementing subscript num- : out as well as I hoped. The
: $,N$,1)<>0 THEN DISPLAY AT(1 : bers, and find the data by a : maximum number of records is
: 6,1):M$ :: RESTORE #1 :: GOT : binary search. : less than 300, for the
: 0 120 : : reason mentioned above, and
: 140 IF EOF(1)<>1 THEN 130 : 100 !QUICKFINDER by Jim Pete : this leaves so little free
: 150 DISPLAY AT(16,1): "NAME N : rson : memory that even a binary
: OT FOUND" :: RESTORE #1 :: G : 200 DIM D$(50):: GOTO 300 :: : search is slow. However,
: 200 120 : D$(1),X :: !@P- : for a smaller file this is
: : 300 X=X+1 :: D$(X)="ALDA, AL : perhaps the best method.
: : AN (999) 666-1234" : For a large file, the
: 400 X=X+1 :: D$(X)="BUSH, GE : best method is certainly a
: 500 X=X+1 :: D$(X)="GHADDAFI : fixed sequential disk file,
: , OMAR (999) 456-1234567" : accessed by a binary search
: 600 X=X+1 :: D$(X)="KHOMEINI : routine. But, that requires
: , AVATOLLAH (666) 666-6666" : other routines to delete,
: 700 !@P+ : had best be the subject of : add or change records, and
: 800 INPUT "NAME? ":M$ : another Tips.
: 900 IF M$>D$(X) THEN PRINT "N : There is apparently a
: OT FOUND": "CLOSEST IS":D$(X) : mistaken belief that sprites
: :: GOTO 800 : cannot be used together with
: 1000 IF M$<D$(1) THEN PRINT " : my BXB routine. Not so -
: NOT FOUND": "CLOSEST IS":D$(1 : you can use all 28 of them!
: ): GOTO 800 : However, you cannot change
: 1100 H=X :: S=INT(X/2) : their color with CALL
: 1200 S=D$(S):: IF POS(S$,M$ : COLOR(#,N). The only other
: ,1)=1 THEN 1700 : limitations of BXB that I
: 1300 S=D$(S+1):: IF POS(S$, : can think of, are that a
: M$,1)=1 THEN S=S+1 :: GOTO 1 : single CALL COLOR cannot be
: 700 : used for multiple character
: 1400 IF S>M$ THEN H=S :: S= : sets and a single CALL CHAR
: INT(H/2):: GOTO 1600 : can only reidentify one
: 1500 S=S+INT((H-S)/2) : character. CALL CHARPAT
: 1600 IF S=S2 THEN 1800 ELSE : cannot return the hex code
: S2=S :: GOTO 1200

```

```

of an ASCII above 143 : JUMPA S80 21          ; ",INPUT          ; . . . 4 . . . 5 . . . 6 . . .
because those ASCII's were : * restore R12          ; 110 LINPUT #1:M$ :: PRINT M$ ; 7 . . . 8 . . . 9 . . . 0"
not supposed to be available : MOV @>FFFC,R12         ; :LEN(M$):: IF LEN(M$)>0 THEN ; 120 M$=M$&A$&B$&C$ :: K=K^3
in Extended Basic.        ; * standard XB return now ; PRINT ASC(SEG$(M$,LEN(M$),1 ;
I have used BXB on        ; * clear error for basic ; ))                ; Here's how you do it.
hundreds of Basic-only    ; SB @>B37C,@>B37C       ; 120 CALL KEY(0,K,S):: IF S=0 ; Load the above in the
programs and have had only ; * return to calling program ; THEN 120 ELSE 110   ; Editor, position the cursor
two rare problems. If the ; B @>0070              ;                                ; at the beginning of the 1st
program contains multiple ; END ALPHA              ;                                ; line, hit FCTN 9, type RS
line feed colons :::::, the ;                                ; Filled/Adjusted and the line ; and Enter, then /&/ and
computer may rearrange them ; Now, put this in the first ; feed characters are stripped ; Enter. At the prompt, type
into pairs of double colons ; lines of the joystick ; with the C option, the lines ; A. Now get the cursor back
:: :: and lock up. Or, if ; program -                ; are one character longer ; to the beginning, repeat the
the colons are before the ;                                ; than they appear to be. An ; above with /*!/, and then
text, as in FRINT         ; 1 ! by M. Gikow, Andover ; apparently blank line also ; ././ and /~/ and /@/(/
:"something" you may get a ; MA August 1988          ; contains ASCII 32.          ; and the file should now look
puzzling error message.   ; 2 ! used with ALPHA/O, ; Since these characters are ; like this -
Also on rare occasions you ; will detect whether     ; blank, they normally do no ;
might get an error message ; Alpha Lock is up (A=    ; harm. However, they can ;
indicating the subprogram ; 255) or down (A=0)     ; create problems when records ;
was called from a line    ; 3 CALL CLEAR :: CALL INIT :: ; are read into programs for ;
containing a CALL CHAR, if ; CALL LOAD("DSK1.ALPHA/O") ; multiple column printing or ;
the programmer had        ; 4 CALL LINK("ALPHA"):: CALL ; concatenation of strings. ;
inadvertently put more than ; PEEK(-1,A):: IF A=0 THEN DIS ; In these cases, this routine ;
16 characters in the hex ; PLAY AT(12,1):"RELEASE ALPHA ; can be used to strip out any ;
code. Basic just ignores ; LOCK" :: GOTO 4 ELSE CALL CL ; ASCII below 33 at the ends ;
any extra characters, and ; EAR                      ; of records.                ;
XBASIC uses them to      ;                                ;                                ;
reidentify the following ; I published this one in ; 100 DATA INPUT,OUTPUT    ;
ASCII, but BXB crashes.  ; the C.O.N.N.I. newsletter. ;                                ;
From the T*I*M*E*S news- ; Barry Traver picked it up ;                                ;
letter from England, here is ; and put it in the TI Forum ;                                ;
an extremely useful bit of ; in Computer Shopper, but ;                                ;
assembly which should be ; their typesetter garbled it, ;                                ;
assembled as ALPHA/O and ; so here is how it was ;                                ;
placed on the disk of every ; supposed to be -          ;                                ;
joystick program, or     ; According to the TI-Writer ;                                ;
imbedded in it with ALSAVE ; Reference Guide, page 77, ;                                ;
DEF ALPHA                 ; when you select the PrintF ;                                ;
* save old R12            ; command, then type C and ;                                ;
ALPHA MOV R12,@>FFFC      ; space once and then the ;                                ;
* 9900 CRU base=0        ; device name, any control ;                                ;
CLR R12                   ; characters with ASCII less ;                                ;
* signal alphaslock key line ; than 32 are removed before ;                                ;
S8Z 21                    ; the file is printed.      ;                                ;
* check alphaslock other side ; With Funlweb, at least, ;                                ;
TB 7                      ; this is not quite true. A ;                                ;
* jump if state=on        ; carriage return character, ;                                ;
JNE STATE                 ; ASCII 13, or a line feed ;                                ;
* state=off               ; character, ASCII 10, at the ;                                ;
SETD @>FFFE              ; end of a line is actually ;                                ;
* as off skip next line   ; not deleted but is changed ;                                ;
JMF JUMPA                 ; to the space bar character, ;                                ;
* state=on                ; ASCII 32. This can be ;                                ;
STATE CLR @>FFFE         ; proved by running this ;                                ;
* stop sending to alpha key ; little routine -          ;                                ;
100 OPEN #1:"DSK1.(filename) ;                                ;
110 PRINT "1 . . . 2 . . . 3 ;                                ;
120 LINPUT #1:M$          ;                                ;
130 IF ASC (SEG$(M$,LEN(M$),1 ;                                ;
) < 33 THEN M$=SEG$(M$,1,LEN( ;                                ;
M$)-1):: IF LEN(M$)>0 THEN 1 ;                                ;
30                        ;                                ;
140 PRINT #2:M$ :: IF EOF(1) ;                                ;
< 1 THEN 120 :: CLOSE #1 :: ;                                ;
CLOSE #2                  ;                                ;
                            ;                                ;
                            ; Attention all newsletter ;                                ;
                            ; editors! If you are going to ;                                ;
                            ; print my Tips (or anything ;                                ;
                            ; else that contains program ;                                ;
                            ; listings!) through the ;                                ;
                            ; Formatter, PLEASE first ;                                ;
                            ; replace and transliterate ;                                ;
                            ; the ampersand, asterisk, ;                                ;
                            ; period, carat and "e" sign! ;                                ;
                            ; Print this one through the ;                                ;
                            ; Formatter and see why - ;                                ;
                            ;                                ;
                            ; 100 A=A*264 :: @=1          ;                                ;
                            ; 110 PRINT "1 . . . 2 . . . 3 ;                                ;
                            ;                                ;
                            ; Save the result, go to the ;                                ;
                            ; Formatter and print it.    ;                                ;
                            ;                                ;
                            ; If my multi-column ;                                ;
                            ; Printall program (Tips from ;                                ;
                            ; the Tigercub #45) won't run ;                                ;
                            ; on your Epson-compatible ;                                ;
                            ; printer, try changing line ;                                ;
                            ; 250 to - ;                                ;
                            ; 250 ACCEPT AT(12,3)VALIDATE( ;                                ;
                            ; "123")SIZE(1):P :: IF P=2 TH ;                                ;
                            ; EN PRINT #1:CHR$(27);CHR$(77 ;                                ;
                            ; )ELSE IF P=3 THEN PRINT #1:C ;                                ;
                            ; HR$(15) ;                                ;
                            ;                                ;
                            ; You might also need to ;                                ;
                            ; change the 136 in line 280 ;                                ;
                            ; to 132. ;                                ;
                            ; If your printer offers the ;                                ;
                            ; elite condensed option, you ;                                ;
                            ; might want to add - ;                                ;
                            ; : " (4) ELITE CONDENSED" to ;

```

IS THE TI-99/4A A CHILD'S TOY OR A COMPETITOR IN THE PC WORLD

BY

RICHARD L. SCOTT

TAKEN FROM AN ARTICLE IN COMPUTER SHOPPER

BY BARRY TRAYER AND JONATHAN ZITTRAIN.

THOSE OF YOU WHO MAY OCCASIONALLY GET TOGETHER WITH GENERAL (NON-TI) COMPUTER TYPES MAY IDENTIFY WITH THE FOLLOWING EXPERIENCE. IN SUCH A SETTING (LIKE AN AREA COMPUTER SOCIETY WAS ONE SUCH SETTING), SOONER OR LATER THE QUESTION COMES. "AND WHAT COMPUTER DO YOU HAVE?" IF YOU RESPOND AT ONCE TO THE QUESTION, "A TI-99/4A," THE RESPONSE MAY BE GALES OF LAUGHTER ACCOMPANIED BY COMMENTS NOT APPROPRIATE TO BE WRITTEN HERE. SO STRATEGY HAS BEEN DEvised TO MEET SUCH SITUATIONS.

RATHER THAN ANSWERING AT ONCE, I WOULD SAY SOMETHING LIKE THIS: "I'LL LET YOU GUESS. UNLIKE THE LOWLY APPLE II OR COMMADORE 64 (OR WHATEVER), IT HAS A 16-BIT MICROPROCESSOR. GIVING ME MAINFRAME-STYLE ASSEMBLY LANGUAGE WITH SOME RATHER NICE FEATURES, SUCH AS RELOCATABLE CODE AND MOVABLE SOFTWARE REGISTERS. I CAN PUT 16 COLORS ON THE SCREEN AT ONE TIME, AND THE AUTOMATED SPRITES WILL STAY IN MOTIONS WITH NO ATTENTION FROM THE CPU. FOR LANGUAGES, I ALSO HAVE BASIC (AT LEAST A DOZEN DIFFERENT VARIETIES, INCLUDING THE MAJOR EXTENDED BASICS), FORTRAN, FORTH (TWO MAJOR KINDS), LOGO (WITH TURTLE, TILES, SPRITES AND MUSIC), PASCAL (UCDS AND TURBO), PILOT (THREE DIFFERENT VERSIONS, AND MORE (INCLUDING ASPIC AND A SMALL C). IN ADDITION TO RUNNING PROGRAMS USING SPEECH, I CAN RUN PROGRAMS USING SPEECH RECOGNITION..." AND SO ON.

AS YOU CAN GUESS, THEIR GUESSES WERE RATHER COMICAL (ALMOST SENDING ME INTO GALES OF LAUGHTER!), BUT WHAT I ENJOYED MOST WAS THE LOOK ON THEIR FACES "NO, IT'S A TI-99/4A." YOU SEE, BY THAT POINT I HAD PROVEN THAT THE /4A WAS NOT JUST AN EDUCATIONAL TOY FOR CHILDREN SOLD BY A WELL KNOWN JELLO SALESMAN ON TV, BUT A SERIOUS COMPUTER WITH SERIOUS CAPABILITIES FOR ADULTS.

YOU CAN SEE THAT WE HAVE COME TO THE PLACE WHERE THE PENDULUM HAS SWUNG, SO MUCH SO THAT WE HAVE FORGOTTEN THAT THE /4A - INDEED A GOOD COMPUTER FOR ADULTS - IS STILL ONE OF THE BEST COMPUTERS AROUND FOR CHILDREN. THERE IS MUCH SOFTWARE AVAILABLE FOR /4A ON MANY TELECOMMUNICATIONS NETWORKS BUT THERE IS NOT MUCH SOFTWARE IN THE EDUCATION AREA FOR CHILDREN. LOGO II IS AN EXCELLENT PROGRAM FOR CHILDREN EVEN BETTER THAN SOME OF THE PROGRAMS FOR APPLE. THERE HAS NOT BEEN ANY NEW PROGRAMS FOR LOGO IN A LONG TIME. SO THERE IS MUCH ROOM FOR IMPROVEMENT. AND THERE IS NEED FOR MORE SOFTWARE TO UTILIZE THE CAPABILITIES OF THE TI-99/4A.

(Continued from page 7).

line 240, change the | the first statement in line
VALIDATE string in 250 to | 280.
"1234", add ELSE IF P=4 THEN | Memory almost full,
PRINT #1:CHR\$(27);CHR\$(77);C | Jim Peterson
HR\$(15) to the revised line |
250 and add +(P=4)*150 to |



MENU SELECTION OF TYPE STYLES.....by Ed Machonis



This 10 line TI BASIC program enables selection of any of the 128 type styles available on the Epson RX-80 printer. If line spacing and margin combinations are included, more than 1024 variations are available. It will also print a test line of print, showing the appearance of the selected style.

Selections should always start by pressing 1 for RESET to insure that previous selections are canceled. Printers that do not support a master reset should be turned off and then back on at this point.

Styles are combined by successive selections, i.e., COMPRESSED EXPANDED UNDERLINED DOUBLE STRIKE is obtained by selecting: 1 <ENTER> 4 <ENTER> 3 <ENTER> 8 <ENTER> 7 <ENTER>

The control codes are entered in LINE 10. CHR\$(27), the ESCape code is obtained by pressing CONTROL and PERIOD at the same time. CHR\$(15), turning on Compressed style, is obtained by pressing CONTROL AND 0. (Not Zero)

Due to its short length, the program loads quickly and can be placed on the TI-WRITER and MULTIPLAN disks to enable selection of different type styles before printing. (Compressed Underlined is great for printing MULTIPLAN files, making 132 columns available on 8-1/2" paper.)

It can also be placed at the beginning of other programs which utilize a printer, where it will permit setting up the printer each time the program is run.

RX-80

```
1 DIM P$(15)
2 READ P$(1),P$(2),P$(3),P$(4),P$(5),P$(6),P$(7),P$(8),P$(9),P$(10),P$(11),P$(12),P$(13),P$(14),P$(15)
3 OPEN #1:"P10"
4 PRINT : "COMBINE STYLES BY SUCCESSIVESELECTIONS- I.E. C
```

```
OMPRESSED EXPANDED UNDERLINE
D DOUBLE STRIKE=1-4-3-8-7"
```

```
5 PRINT : "1 PICA/RESET", "8 UNDERLINE", "2 ELITE", "9 TEST", "3 EXPANDED", "10 EXIT", "4 COMPRESSED", "11 SUPERSCRIP"
```

```
6 INPUT "5 EMPHASIZED 12 SUBSCRIPT 6 ITALIC 13 1/2 LINE SP7 D'BLE STRIK 14 R MARGIN 6715 L MARGIN 13 ?":I
```

```
7 IF (I<1)+(I>15)THEN 5
```

```
8 PRINT #1:P$(I)
```

```
9 IF P$(I)<>" THEN 5
```

```
10 DATA "0,M,W1,0,E,4,6,-1,QUICK BROWN FOX JUMPS OVER THE LAZY RED DOG 1234567890 TIMES,,50,51,1,1,OC,1
```

In LINE 10:
 =CONTROL PERIOD
 0=CONTROL 0 (Not Zero).
 The last character is a lower case L, NOT the figure 1.

NOTE: when program is listed to a printer, LINE 10 will not print properly and will send control codes to the printer.

When listed to screen, and when entering, a graphic symbol or a blank space will appear in place of the CONTROL character.

The program can be adapted to other printers by changing the OPEN statement in LINE 3 and the codes in LINES 8 & 10 as required. Refer to pg III-2 in TI's User's Reference Guide for the CONTROL KEY equivalents (Pascal Mode) of the printer's control codes. Appropriate changes should also be made in LINES 5 and 6. The sequence of the printer control codes in LINE 10 must match the numerical sequence of the style names. Note that EXIT is accomplished with a comma immediately following the comma after TIMES

Certain printers, such as the AXION, will not recognize CONTROL PERIOD as an escape code. For these printers the program must be modified to send the ESCAPE code as CHR\$(27), etc.

The following program shows such a modification for the RX-80 printer. We have to give up the instruction display and the test for a valid input in order to hold the program down to 10 lines.

Please note the space immediately following the first quotation mark in Line 10. The space is important and the program will not work properly without it. (Can you tell why?)

PRINTSTYLE (For RX-80)

```
1 DIM P$(15)
2 READ P$(1),P$(2),P$(3),P$(4),P$(5),P$(6),P$(7),P$(8),P$(9),P$(10),P$(11),P$(12),P$(13),P$(14),P$(15)
3 OPEN #1:"P10"
4 PRINT : "1 PICA/RESET", "9 TEST", "2 ELITE", "10 EXIT", "3 EXPANDED", "11 SUPERSCRIP", "4 COMPRESSED", "12 SUBSCRIPT"
5 INPUT "5 EMPHASIZED 13 1/2 LINE SP6 ITALIC 14 L MARGIN 137 D'BLE STRIK 15 R MARGIN 678 UNDERLINE ?":I
6 PRINT #1:CHR$(27)&P$(I)
```

```
7 IF I<>4 THEN 9
8 PRINT #1:CHR$(27)&CHR$(15)
```

```
9 IF I<>10 THEN 4
10 DATA "0,M,W1,E,4,6,-1," QUICK BROWN FOX JUMPS OVER THE LAZY RED DOG 1234567890 TIMES",,50,51,1,1,OC
```

Note: P\$(14), the next to last data item, is a lower case letter L, not the figure 1.

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JUNE 1989 NEWSLETTER

NEXT MEETING DATES

The next meetings dates are: JUNE 03 AND JUNE 20 1989 at 9:00 am on Saturday AND 7:00pm on Tuesday the 20th. We will be meeting in the CIVIL AIR PATROL building at the OGDEN MUNICIPAL AIRPORT, AIRPORT ROAD.

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