



# THE PUG PERIPHERAL



THE MONTHLY NEWSLETTER OF THE  
PITTSBURGH USERS GROUP  
JANUARY, 1990

## CLUB NEWS BY GARY TAYLOR

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## NEXT MONTH TI-TAX



BILL CHAVANNE WILL PRESENT A CLASS ON THE  
USES OF MULTIPLAN AND HIS FEDERAL INCOME TAX  
TEMPLATES. DONT MISS THIS ONE!

PITTSBURGH USERS GROUP

PRINTERS #4  
by John F. Willforth (Jan. '89) ML=More Later

I needed that month off. I mentioned in November that we'd deal with spacing paper in PRINTERS #4, so here goes.

The most common spacing is 6 lines of print per vertical inch of paper. Most printers manufactured today can have that adjusted to just about any increment that you could want. Below are several interesting options and results. Try them on your printer, and look at your appendix on Control Codes to adjust the codes to your particular printer.

\*\*\*\* LINE SPACING \*\*\*\*

```

100 T=39 ! T=TAB POSITION
110 OPEN #1:"PIO"
120 FOR I=1 TO 20 ! INCREMENT
130 T=T+1 ! JUST TO MOVE EACH LINE RIGHT
140 PRINT #1:CHR$(27);"A";CHR$(I);
150 PRINT #1:TAB(T);I;"/72 INCH LINE FEED"
160 NEXT I

```

1234567891011121314151617181920  
1 / 72 INCH LINE FEED  
2 / 72 INCH LINE FEED  
3 / 72 INCH LINE FEED  
4 / 72 INCH LINE FEED  
5 / 72 INCH LINE FEED  
6 / 72 INCH LINE FEED  
7 / 72 INCH LINE FEED  
8 / 72 INCH LINE FEED  
9 / 72 INCH LINE FEED  
10 / 72 INCH LINE FEED  
11 / 72 INCH LINE FEED  
12 / 72 INCH LINE FEED  
13 / 72 INCH LINE FEED  
14 / 72 INCH LINE FEED  
15 / 72 INCH LINE FEED  
16 / 72 INCH LINE FEED  
17 / 72 INCH LINE FEED  
18 / 72 INCH LINE FEED  
19 / 72 INCH LINE FEED  
20 / 72 INCH LINE FEED

THE PROGRAM ABOVE PRODUCES THE PRINTOUT ON THE RIGHT. YOU OF COURSE WILL NOT NEED THE LOOP TO PRODUCE YOUR RESULTS BUT IT CAN HELP YOU CHOOSE WHICH SPACING YOU MAY NEED. THERE ARE THREE PACKAGED COMMANDS IN MY EPSON COMPATIBLE THAT SELECT 8 LPI OR 6 LPI OR A SPACING THAT WILL PROVIDE GRAPHICS WITH NO WHITE LINE. THESE ARE RESPECTIVELY CHR\$(27);"0"(8 LPI) CHR\$(27);"1"(6 LPI) AND CHR\$(27);"2"(7/72" GRAPHICS). IN THE PROGRAM ABOVE ONLY LINES 110 AND 140 ARE NEEDED TO SET UP THE PRINTER.

\*\*\*\* PAGE LENGTH AND CENTERFOLD \*\*\*\*

```

100 OPEN #1:"PIO"
110 PRINT #1:CHR$(27);"C";CHR$(5)!LINE UNITS PAGE LENGTH
120 FOR I=1 TO 2
130 FOR J=1 TO 3
140 PRINT #1:"PAGE ";I;" , LINE ";J
150 NEXT J
160 PRINT #1:CHR$(12)
170 NEXT I
180 PRINT #1:"PAGE 3"

```

PAGE 1 , LINE 1  
PAGE 1 , LINE 2  
PAGE 1 , LINE 3  
  
PAGE 2 , LINE 1  
PAGE 2 , LINE 2  
PAGE 2 , LINE 3

THE PROGRAM ABOVE CREATES THE CONTROL OVER PRINTING TEXT ON A PAGE BASED ON THE NUMBER OF LINES DESIRED ON A PAGE. THE COMMAND IN LINE 110 SETS THE PAGE TO FIVE LINES ONE AT TOP AND ONE AT THE BOTTOM ALLOWED FOR THE CENTER-FOLD SO THAT YOU WILL ONLY GET THREE LINES PRINTED PER PAGE. YOU CAN SUBSTITUTE SIXTY-SIX LINES IN PLACE OF THE FIVE TO SEE IF IT WILL SPACE CORRECTLY FOR YOUR PAGE. CHANGE THE 3 IN LINE 130 TO A 64 IF YOU WANT TO RUN THIS PROGRAM FOR THAT TEST.

\*\*\*\* FOR FUN CREATE A SPECIAL GRAPHIC CHARACTER \*\*\*\*



```

100 OPEN #1:"PIO"
110 PRINT #1:CHR$(27);"K";CHR$(8);CHR$(0);
120 PRINT #1:CHR$(48);CHR$(16);CHR$(30);CHR$(241);CHR$(2);CHR$(241);CHR$(174);CHR$(128)

```



THE PROGRAM ABOVE CREATED THE SMALL "JFW" YOU SEE IN AN 8x8 SQUARE GRAPHIC CHARACTER. YOU NEED TO FIRST DESIGN YOUR CHARACTER AND THEN FIGURE THE BINARY WEIGHTS AND THEN PUNCH THEM INTO LINE 120. PLAY AROUND WITH THIS UNTIL WE SEE EACH OTHER AT THE JANUARY MEETINGS. USE THE DECODING CHART ABOVE. ML



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# HIGH RES GRAPHICS AND THE 99/4A

Support for Drawing Packages by Anne Dhein

## 4: The Hard Copy

It seems like the whole computer world is talking about "desktop publishing" these days. To most of that world, desktop publishing means creating documents on your personal computer that look as if they were produced on a typesetting machine. Typeset quality is simply not achievable on a dot matrix printer, which is what the vast majority of 99/4A users still have for graphics. To the average 99/4A user, therefore, the term "Desktop Publishing" has come to mean creating text documents to which graphics can be easily added. Mixing text with the graphics they create so well is one area to which the paint programs have not easily lent themselves. Although the capability of adding text is certainly present, it is generally used for labeling, not for long text files.

Electronic Publishing, 99/4A Style  
TI Artist almost certainly gives its users a taste for fine printer graphics. First of all, it gives the user a tremendous variety of print-out options. A creative user can get anything from posters to greeting cards from the TI Artist screen dump. Moreover, it will work with most printers, not just Epson compatibles. So, beginning with TI Artist, and Character Sets and Graphic Design I, which emphasized the printing of graphics along with special fonts, a new type of program began to evolve. These programs would allow graphics created within TI Artist to be used to illustrate text files prepared with the TI Writer. At this point, the TI user had come a long ways from the day when Texas Instruments had first abandoned him. What was to follow was beyond anyone's wildest imagination. If 1984 was the year of the paint program, and 1985 was the year of the Companion, then 1986 was surely the year that made it possible for the drawings created from these packages to be incorporated into text files. This evolution could be clearly seen by November, 1986 when, at the TI Faire in Chicago, four software packages that all accomplished this goal, but in vastly

different ways, were being offered for sale. They were Character Sets and Graphic Design III, Art Convert, Font Writer and The Printer's Apprentice. 1987 saw some of these same packages revised and refined and upgraded, and new ones added. And, against all odds (after all, our machine hasn't even been in production for nearly five years!), the trend is continuing right on in 1988.

A Closer Look at the Major Programs  
Art Convert, authored by Barb Berg for Trio+ Software, changes TI Artist instances to TI Writer transliterate files that can be added to any other TI Writer file and printed through the text formatter - graphics and all. The program also converts any one-character high Artist font to a transliterate file that allows the use of the font with TI Writer files. Although quite limited in some respects, this program nevertheless does extremely well what desktop publishing packages are supposed to do on the 99/4A - mix graphics with text.

Character Sets and Graphic Design III, programmed by Dave Rose and distributed by Textments, wasn't billed as "desktop publishing" but it's certainly getting close! The four programs pull together several desirable printer functions into one convenient package: graphic mailing labels and letterheads can be easily designed, messages using the CSGD fonts can be mixed with text, positioned and printed out; and the docuprint program will print any TI Writer generated file using one-character-high CSGD fonts. The file is printed through the docuprint program (not through TI Writer) with a number of print options such as line spacing, tabs, margins and page numbers available. The file can even be printed in two columns if desired. The only drawback to docuprint files is that graphics cannot be added to them directly.

Fontwriter was the most comprehensive of the programs offered at the Faire in 1986. Since then it has been upgraded and is even

CONVERSION OF FORTH SCREENS TO D/V 80  
(AND BACK TO SCREENS)

Some time ago, there was a program floating about to convert Forth screens to DIS/VAR 80 files. If memory serves me correctly, it was 13 (!) screens long and required a lot of typing by the user including that ugly F-D" word. Now, in the September issue of the LA 'Topics' newsletter (with credit to the TINS newsletter), I spotted a three-screener to do the same thing. Though 16-line screens are shown, the article states that the code is Wycove and I/O specific words would have to be replaced to make it work in TI-Forth. If you don't know what Wycove's I/O words mean (or do), this is a bit hard to do. Here, for all the writers who wish to include Forth screens in text files but have no desire to enter them manually, is a two-screener that not only transfers screens to DV80 files, but also does it in reverse. And it works in standard TI-Forth:

```

0 ( SCREENS>FILE ) BASE->R DECIMAL 0 CLOAD F>S 68 CLOAD STAT
1 HEX 0 VARIABLE BUF 4E ALLOT
2 PABS 2+ BUF 1400 FILE XF XF
3 : FNAME ( -- cnt ) CR ." Filename: " PAD 40 20 FILL
4 PAD 1+ 30 OVER OVER EXPECT -TRAILING 2- -DUP ;
5 : SETFILE ( n-- ) IF XF SET-PAB VRBL 50 REC-LEN DUP
6 ROT 1- C! 1+ PAD PAB-ADDR 9 + ROT VMBW
7 ELSE DROP APPND THEN ;
8 : S>F FNAME SETFILE OPN
9 CR ." Start from screen: " QUERY INTERPRET
10 CR ." End with screen: " QUERY INTERPRET 1+ SWAP
11 DO I BLOCK 400 OVER + SWAP
12 DO I BUF 20 MOVE BUF 40 -TRAILING 1 MAX WRT DROP
13 40 +LOOP LOOP CLSE
14 CR CR ." S>F, F>S or FORGET BUF" CR ;
15 R->BASE -->

0 ( FILE>SCREENS )
1 BASE->R HEX
2 : EOF STAT 1 AND 0- ;
3 : F>S FNAME SETFILE OPN
4 CR ." Destination screen: " QUERY INTERPRET
5 CR ." How many screens?: " QUERY INTERPRET
6 OVER + SWAP
7 DO EOF IF I BLOCK UPDATE 400 OVER OVER 20 FILL OVER + SWAP
8 DO EOF IF RD BUF I ROT CMOVE ELSE LEAVE THEN
9 40 +LOOP
10 THEN
11 LOOP CLSE FLUSH
12 CR CR ." F>S, S>F or FORGET BUF" CR ;
13 R->BASE
14 CLS CR ." Enter S>F for screens to DV80 file,"
15 CR ." or F>S for DV80 file to screens." CR CR ;S

```

The original version of this routine comes from Michal Jaegermann of the Edmonton, Alberta, user group and is only one screen long. However, it works only with the enhancements he has incorporated in his file I/O load option. I adapted it to work with the normal -FILE load option and added some on-screen prompts which increased

Forth Tidbit (cont.)  
 its size to two screens. Even though this is a step backwards - at least from Michal's version - it's still a considerable improvement over the 13-screener and a useful one if you don't happen to have Wycove. With the prompts it is self-explanatory and requires only one comment: If you have written a number of (consecutive) screens to a file and wish to append more to the same file, press <Enter> instead of entering a new file name. For example, you have established a file named DK2.SCREENS and transferred screens 39 through 45 to it. If you opt for 9>F again and press <Enter> at the 'Filename:' prompt, the next entries, say from starting screen 60 to ending screen 66, are appended to the earlier transfer. Your 'SCREENS' file will contain screens 39-45 and 60-66. Please note that only the contents of each screen is written to the file. For use in an article, such as this one, you will have to insert some blank lines to separate the screens. For eye appeal you may also want to add line numbers as I have done here.

EOF.. Lutz Winkler

#### MINUTES OF THE PUG MTG. OF DEC. 17, 1989

Meeting called to order by Pres. Taylor at 6:05 PM.

Minutes of the last meeting were read by Editor Bucher. Approval of them was moved, seconded and passed with the following corrections...Bolderdash uses mini-memory and Rattlesnake Bend uses the Adventure Module.

Treasurer Shoemaker gave a report.

#### OLD BUSINESS:

Renewal of the mailing permit was discussed. We are presently mailing to many exchange groups that do not reciprocate as we need to mail out 200 pieces to use bulk mail. A decision will be made before the January mailing. Our present membership is 67. Pres. Taylor has invited the Airport User Group to merge with the PUG as they are considering disbanding.

#### NEW BUSINESS:

Santa put in an appearance and left all kinds of goodies with Pres. Taylor. His gift to all attendees was a Christmas disk put together by Pres. Taylor, containing Boot, Xmas music, St. Nick Game and a

slide show. A copy has been placed in the library for those who missed the meeting.

Aluminum TI logoes were also passed out. These were made by Joe Ekl of the West Penn Group.

Gary brought candy canes for all and the best part of the meeting was the yummy refreshments sent by Lucille Gramatikos...Baklava and Cream Rolls.. We all gained a few pounds but it was worth it!!!!

Pres. Taylor passed out info on the AVPC card from Digit Systems, info on Supplement #3 to Home Publishing by Harry Brashear. \$10.50, available to the first 150 orders.

It was announced that Mike Aleprete is selling his system. \$350 for all or will sell separately. 412-795-4490.

There were several dollar disks for sale...Micropendium programs for April, May, June and July...also a game disk containing DigDug, PacMan, Donkey Kong, Protector and Moon Patrol.

Pres. Taylor passed on the sad news that Ray Wallis has been transferred to New Jersey. We'll miss you Ray.

We had lots and lots of prizes. A co-worker of Pres. Taylor's donated miscellaneous cartridges to the club and free raffle tickets were passed out to all attendees.

Following are the cartridges and their new owners.

TI Games (cassette and book), Art Gardner.  
 Personal Recordkeeping, Mickey Schmitt  
 Household Budget Management, Bill Herman  
 Bridge Bidding III, Dean King  
 Home Financial Decisions, Tim Goralski  
 Garbage Belly, Marty Kroll Jr.  
 Mission Impossible, Cliff Pemper, Mike Shayne and Peter Armbrust  
 Math Flash Game I, Frank Shoemaker  
 Centipede, Leon Sienkiewicz  
 An Atari Disk, Lynn Gardner and Marty Kroll Sr.

TI Joysticks were won by Scott Coleman  
 A demo of TI Sort was given by Lynn Gardner.

See what goodies you missed by not attending the meeting!

Respectfully Submitted...Audrey Bucher

REPRINTED FROM K.C. 99'ER CONNECTION 9/89

Walter H. Blood  
2032 North 32nd Street  
Kansas City, Kansas 66104

(913) 371-1092

The Gunning-Mueller Clear Writing Institute developed a "Fog Index" as a measure of clarity of writing. The Fog Index is roughly equal to the years of schooling required to read a piece of writing.

It is simply the average sentence length plus the percentage of words having three or more syllables, all multiplied by 4/10.

A Mr. Nottingham tackled the problem of programming the Fog Index. His efforts were published by Creative Computing and I found it reprinted in a book called "The Creative TRS-80" published in 1983. Here is his approach.

Now, how do you count the number of syllables in a word? Let us say, that a syllable always has a vowel. The number of syllables equals the number of vowels. Uh uh, how about the word "pear?" Two vowels but only one syllable. All right, we will not count double vowels; that is, two vowels in succession. Fine. How about the word "piece?" O.K., so we don't count final "e's." Then consider "syllable." If we don't count the final "e," it would have only two syllables. Sooo - we make an exception for "le," if it is final "le."

After some hours of head scratching, I finally arrived at the following theorem:

Any word having three or more vowels (a,e,i,o,u,y) has three or more syllables if:

Double vowels are counted as one.  
Final "e" and final "ed" are not counted except in the case of "ded," "ted," and "le."

Now I know this theorem is not correct. It doesn't cope with double "e" as in Whoopee! However, I feel that it is close enough for practical purposes.

The short program shown, is liberally sprinkled with remarks, but at the risk of redundancy, we will explain it.

Line 220 begins input while line 280 puts it on the screen. Line 290 builds the characters into a string.

Line 330 detects the ASCII for "space" to count words. Line 350 similarly counts sentences. Now the fun of counting syllables begins. Line 380 detects vowels and tentatively counts vowels. V is incremented to detect double vowels. Line 460 decrements the syllable count for two consecutive vowels. Line 480 detects "ded" or "ted" and by jumping to line 510, bypasses 490 which rejects "ed." Note that the sub-strings must include a space since we are only concerned here with word endings. Line 510 similarly bypasses 520 to keep "le" from being rejected under the final "e" rule.

Now things get easier. Line 550 detects word ends via the ASCII for "space," tests for three or more syllables in the word and if found, increments the "long word" count. Line 580 resets the syllable count for the next word. Line 600 tests for 100 or more words (minimum size for an adequate sample) and stops at the end of the sentence.

Line 610 detects the ASCII for "enter" and makes it possible to break off the testing before 100 words so that you may test the program or satisfy your curiosity. Line 620 goes back for the next letter. You will note that many things are happening between one character and the next. If you are a speed typist, you will have to slow your pace. One note: Where a sentence has a clearly independent clause, it should be treated as a separate sentence. Use periods to break it into two sentences. Program on next page.

#### WELCOME

The PUG would like to thank the following members who have recently renewed their memberships... Art Gardner, Matthew Falce and Frank Legler. We are still waiting to hear from John Yankel, John Drennen, Chuck Connor, Jerry Petrulak and Fred Dean. Check your mailing labels for your expiration date.

FOG INDEX

100 REM ### FOG INDEX ###	or, do not backspace to correct it. It"	350 IF K(>46 THEN 380	530 S=8-1
110 REM BY R.B. NOTTINGHAM L	200 PRINT "will make little	360 REM PERIOD = END OF SENTENCE, NS=NUMBER OF SENTENCES	540 REM COUNTS LONG WORDS 3 OR MORE BYLLABLES
IGHTHOUSE POINT, FLORIDA	difference in the score. The	370 US=NS+1	550 IF (K=32)\$(18)2)THEN 560
120 REM TRANSLATED FOR THE T	program will stop when you h	380 IF (K=65)+(K=69)+(K=73)+	ELSE 570
19974A BY WATER H. BLOOD	ave a 100-word sample. Type	+(K=85)+(K=89) THEN 420	560 LM=LM+1
130 REM K=ASKII OF LAST LETT	slowly"	390 V=0	570 IF K(>32 THEN 600
ER. S=LETTERS. S=SYLLABLES.	210 PRINT "as the program is	400 GOTO 480	580 S=0
L=WORD LENGTH. NS=NUMBER OF	utilizing CALL KEY for input	410 REM COUNTS WORDS ; CONSID	590 REM STOPS AT END OF SENT
SENTENCES.	.	ERED EQUAL TO BYLLABLES	ENCE WITH 100 OR MORE WORDS
140 REM N=NUMBER OF WORDS. L	220 PRINT : "Press any key to	420 S=S+1	600 IF (N)=100)\$(K=46)THEN 6
N=NUMBER OF LONG WORDS.	begin."	430 V=V+1	30
150 CALL CLEAR	230 CALL KEY(3,K,S)	440 REM ELIMINATES DOUBLE VO	610 IF K=13 THEN 630
160 PRINT TAB(5);"#####	240 IF S=0 THEN 230	WELS	620 GOTO 260
#####":TAB(5);"### FOG IN	250 PRINT :: "BEGIN TYPING":	450 IF V(>2 THEN 480	630 PRINT :: :: :: :: "Number o
DEX ###":TAB(5);"#####	::	460 S=8-1	f sentences ="; NS:"Number of
#####"	260 CALL KEY(3,K,S)	470 V=0	words ="; N:"Words per senten
170 PRINT : " This program	270 IF S=0 THEN 260	480 IF (B0="BED ")\$(B0="TED	ce =": W/NS
calculates the FOG INDEX of	280 PRINT CHR\$(K);	) THEN 510	640 PRINT "Number of long wo
text. This is equal to the	290 B0=B0&&CHR\$(K)	490 IF BEG\$(B0,2,3)(>"ED " T	rds ="; LM
grade level"	300 IF LEN(B0)(<4 THEN 330	HEN 510	650 F=INT((W/NS+100)LM/2)\$.4
180 PRINT "of the reader for	310 B0=BEG\$(B0,2,4)	500 S=8-1	+5)
which it is suitable.": :: " I	320 REM SPACE = END OF WORD,	510 IF BEG\$(B0,2,3)="LE " TH	660 PRINT : "FOG INDEX ="; F
n typing text, use only one	N = NUMBER OF WORDS	EN 550	670 END
space after a period and"	330 IF K(>32 THEN 350	520 IF BEG\$(B0,3,2)(>"E " TH	
190 PRINT "ignore other punc	340 N=N+1	EN 550	
tuation. If you make an err			

PRESS RELEASE

Want to sell your used or surplus computer, accessories, modems, printers, CRTs, software, etc? Place an ad in a nationally distributed monthly circular devoted to the used and surplus computer and accessory marketplace. One of the most interesting features is the "500 Dollar Marketplace" which will allow the seller an inexpensive ad of 25 words or less for \$25 to appear nationally. Ads in this section must be for goods which are less than \$500. Other sections of the magazine allow display of ads based on the column inch or page. The minimum of one column can also hold 50 words for \$35. We will typeset any ad that is composed of characters. Other ads will require camera copy artwork or negotiated with the salesperson.

For a complete rate schedule call Ken Wilkinson at: 513-751-6414 or mail a reply to:

Ken Wilkinson  
Used Computer Locator  
2314 Iowa Ave  
Cincinnati, Ohio

If you are interested in buying used/surplus computer equipment and software please contact us to get on the mailing list.





THE KIDDIE CORNER  
by Sue Harper  
Pittsburgh Users Group



This month I would like to show you how to make your computer talk. Really, it is pretty simple. The most important thing you must have is a speech synthesizer. I would suggest that if you don't have a speech synthesizer, you try to get one. I personally enjoy having the computer talk. You will also need the Terminal Emulator cartridge. Turn your computer on and insert Terminal Emulator. Press '1' twice to enter basic, and type this:

```
OPEN #1:"SPEECH".OUTPUT
```

...And hit enter. If you get an error message, try again. Check the punctuation carefully. Using a period instead of a comma will mess up the entire works. If you did not get an error message you are ready to roll. Type in the following:

```
PRINT #1:"HELLO THERE"
```

...And again, enter. At this point your computer will say 'Hello there'. So, what else can it say? Lots! However, there are some very important points to remember:

The statement above is not in a program. To put the statements in a program, add line numbers.

```
10 OPEN #1:"SPEECH".OUTPUT
20 PRINT #1:"I AM A COMPUTER"
```

Next do not use any commas. The computer uses commas to separate variables and that can be a problem. Question marks and periods give interesting inflections, and can be fun.

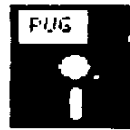
Here is a little program to play with until next time. Have fun!

```
10 CALL CLEAR
20 OPEN #1:"SPEECH".OUTPUT
30 INPUT "WHAT DO YOU WANT ME TO SAY?":AS
40 PRINT #1:AS
50 GOTO 30
```

This program will print "WHAT DO YOU WANT ME TO SAY?" on the screen, and then say anything you type in.

Well...almost. For fun try to get the computer to say mosquitos. Another fun thing to ask it to say is a line of letters, such as "00000000000000000000".

See you next month with more to talk about!



#### FROM THE LIBRARIAN

Hello out there in computer land! It is a new year, a new decade, but an old librarian! Ah, well. You can't have everything, I guess.

I want to say that I hope you all had a wonderful holiday season, and have recovered from the reveling. Since I missed the December deadline for the newsletter, here are some notes about the programs that were new in December.

The new version of Contract Bridge is here, version 3.0. Audrey reports it to be an improvement. Four other new disks will be in the library, (and maybe more). Hotbug is a utility debugging program.

Also we will have Bowling Secretary, a scorekeeping aid for you league members, Bible trivia for those tired of other 'trivial pursuits', and wordsearch, a program that will create wordsearch puzzles for your pleasure.

At the December meeting, Gary graced all of us with a special Christmas Disk from the PUG. This disk is in the library now, and anyone who missed the December meeting can find it there for a measly \$2.00 a disk.

Also, Gary gave me some new disks for in the library. They include a large number of games and utility programs that would be useful for any gamer or hacker. Come on by the library and check them out!

Once again, I want to publically thank Gary for all the neat-o programs that he locates for the library. Please, if any of you have a public domain program or shareware disk that you think others in the club would find useful, bring a copy to any meeting. I will give you a blank in trade, and maybe YOUR NAME will end up in the newsletter!

See you at the meeting.

THE PUG MEETS  
ON THE 3RD SUNDAY OF THE MONTH  
AT COMMUNITY COLLEGE OF ALLEGHENY COUNTY  
OFF ROUTE 885 NEAR CENTURY III MALL

JAN 1990						
S	M	T	W	T	F	S
7						
14						
21	MEETING					
28						

CLASSES BEGIN AT 3 PM  
GENERAL MEETING BEGINS PROMPTLY AT 6PM

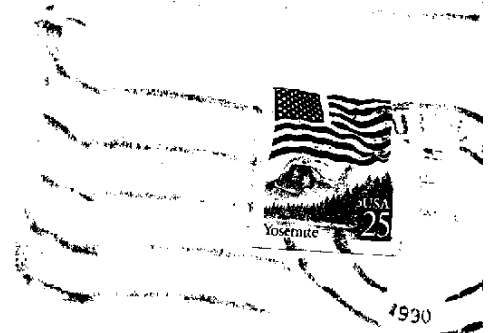
FEB 1990						
S	M	T	W	T	F	S
4						
11						
18	MEETING					
25						

PUG OFFICERS		
Pres:	Gary Taylor	412-341-6874
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Cor. Sec. &		
NL Editor:	Audrey Bucher	412-881-5244

SCHEDULE	
3-4:30	Picasso Demo and Class with Gary.....Rm. 482
4:30-6	Questions, Problems etc.....Rm. 482
4:30-6	Printers with John Wilforth.....Rm. 475
6:00-?	General Meeting
	Demo...Contract Bridge
	SEE YOU THERE



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JAN 18th



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