

THE PUG PERIPHERAL



THE MONTHLY NEWSLETTER OF THE PITTSBURGH USERS GROUP

JANUARY 1992

CLUB News By Gary Taylor

This month I will begin classes on Funnelweb. Funnelweb is more of an environment for the TI-994a than a program. so many things contains so many features that several sessions will be needed to show you all that it can do. The current version is 4.41, and was placed in out library just a few months ago. There are not that many differences in the various versions numbered 4.0 or greater, so if you have a copy beginning with 4, you should be in great shape to follow along.

I will begin my class at 4 o'clock, and the first topic will be how to load it. It can be loaded from many different modules and programs. If there is time I will also start to discuss how to configure the I have used this menus. program environment for years, but in all that time I have never explored all possibilities of the program. I am particularly interested in discovering the uses of the script files.

You may want to print out the documentation on loading and configuring Funnelweb in preparation for the class. I will try to use it as a guideline for the discussion. Susan will have a few extra copies of the disk for you if you want to get the latest version.

Mickey will again host her beginning basic class at 5:00. Susan will also have a few copies of a basic tutoring disk that Mickey is using for her class so that you can follow along.

At the main meeting we will have a demonstration of Legends This is a dungeon and dragon type game that is being sold by Asgard software for around \$18. It is a sequel to their very popular Legends This is a very large game. program and uses all features of the TI speech. The sound and graphics are really cleverly done and should you en joy demonstration even if you are not into these types of games. I might add that it took me well over 100 hours to solve the game, so it is not something that you load up and expect to finish in evening.

We are going to start a new program where the club will buy new software and give it to a member for evaluation. member will review the program and write up an article for the newsletter and then demonstrate it at one of our meetings. member will be able to keep the program as a sort of payment for the review and demo. The first program we have is called SGW. It is a program to redefine the chara files that are used to display character fonts on the screen. I will be looking for volunteers at the next meeting as we have several



programs that were picked up at the Chicago faire.

Our T-Shirt making project was not all that successful. Art is looking into using the same company that produced the shirts for the West Penn 99'ers. Theirs came out very nicely and only cost \$5 each which included the cost of the shirt. Art will have more to say about this at the meeting.

Thanks again to Marlene Curran for stepping up to the job of newsletter editor. Audrey is still helping out but is enjoying a well deserved rest from the N/L editor duties.

EQUIPMENT FOR SALE

Present at this month's meeting, between 3:30 and 4:30, will be a young man with a system to sell. If you need any of the following equipment, he has it for sale.

Keyboard
TI Tape Recorder
P-Box with 32K expansion.
TI Phone Modem
Alpha Com Printer
Assorted Cartridges including
games and TI Logo (all carts
include user manuals)



FROM THE LIBRARIAN



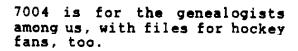
by Sue Harper

If you can remember AND count. you know that this month's section of the library to review is section 7, PERSONAL section. This area of the library has some very interesting programs, that some might put in another section. as professional such utility, but they seem to me. the person who decides where things go, to be more of an individual choice type program.

For instance, disk 7001 is an extended basic disk that holds a program called The Organizer. It will assist in managing files, generating reports organizing data, and preparing outlines. This type of program might be very useful to someone who has to organize a great amount of information for work or for a student.

There are currently 68 disks in this section, and room for more when more fairware disks become available. Let me briefly review a few of the disks in the section to whet your interest.

7003 computes your biorhythm. contains a perpetual calendar some banking aids, a diet assist program, and even a VCP record keeper file. A very primitive data base program. CARDTREX is included.



7010 has three DV80 files, an ad for CORCOMP, obviously out of date, a review of the TI speech, and SCR1, defined as (P)oke"in Around 3/26/84.

7014 is an excellent demonstration of the use of graphics and sprites in a program made available from the Nutmeg 99ers, Zodiac version 2.0.

7016 - TI Writer Homework Helper.

7018 - create your own mailing list.

7024 will help you write your will.

7030 - some interesting recipes.

7034 for ham radio operators.

7048 contains files from Earl G. Raguse, including his "famous" THEORY OF THE DARK.

7067 and 7068 contain Multiplan enhancements and a program called SIDE*PRINT which will print data sideways on your printer.

Well, as you can see, I skipped over a lot of the disks because I would like you to come to the meeting and take the time to find that perfect program just for you. And, if there is

something you have that could be added to the library for the benefit of all the members, please contact me.

See you at the meeting. . . .

Graphics Comparison by Marlene Curran

There are many ways to include graphics in your documents. There are also more than a few ways to print out the graphics you have on disk. Our clubs library has a wealth of images in Artist, CSGD, Page Pro, and other formats. Why not try some and enliven your documents.

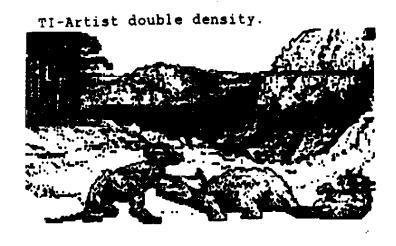
While I have absolutely no talent as an artist, some of my documents look pretty professional after I add the creative efforts of those who HAVE talent by using and combining pictures and instances they have produced for the TI.

The following page (page 4) is a selection of graphic images produced by TI-Artist using Ken Gilliland's Disk of Dinosaurs (Asgard Software), and printed on TI-Artist and a little program from "Home Publishing on the 99/4A" by Harry Thomas Brashear. I've marked the pictures so you can see the different results you can get by varying density and size.

Next month I'll try to

experiment with some of the other programs available to produce interesting graphics on our machine. If you have done some artwork that you would be willing to contribute, please call your temporary editor. I'd love to print your work.

Home Publishing quad density.





TI-Artist low density.



MEETING MINUTES

LIBRARIAN'S REPORT:

Sue Harper delivered a report of the current state of the Library - and new additions - 'TIPPS MODULATOR" - Ricky's ONGV - Index - "Midi Story."

Von Ricky's On-Line-Grapevine Rick Keppler (v.p.) was reported as out-of-town: so, Gary gave a report on the On-Line-Grapevine, our ear to the ground on commercial services and activities, software, etc.

BBS Report

A brief history of the BBS hardware was given - to wit the present hardware in use on the BBS is JGMT's personal equipment, and it recommended that the club purchase adequate equipment and free up Gary's stuff! disk, disk drive etc.) We were in the process of obtaining a Myarc HFDC card, which looks like a forlorn hope at this point! We had devoted approximately \$200 for this purchase from a now more or less defunct Myarc vendor. (details to be worked out)

NEW BUSINESS:

A brief discussion of the Pittsburgh Atari Club Enthusiasts (PACE) swap meet held at the Chartiers Valley H.S. It was reported that 125 people and 25 vendors attended this meeting. Attending the meet brought us two new members, Joseph Cheronsky and John Skinger.

Frank Zic reported on the annual Hamfest held at the Meadows. This year it moved down the road a bit. "Smart drives," printers, large disk drives dip switches etc were available!

CHRISTMAS GOODIES:

Gary Taylor acknowledged the donation of baklava, nut roll, and pizzelles by Mr. and Mrs. Nick Gramaticos. It hit the spot in holding appetites in check until after the meeting. Enjoyed by all present!

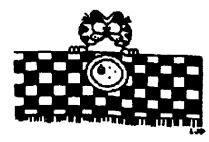
BINGO GAME:

1st game winner - Nick Gramaticos.

2nd game winner - George Dick. 3rd game winner - Dean King. 4th game winner - Mike Shavne.

MEETING ADJOURNED 7:45 P.M.

DIET IS "DIE" WITH A "T"





TIPS FROM THE TIGERCUR

No. 60

1 June 1990

My stock of Tigercub Software catalogs is depleted and it would not pay me to reprint it. Therefore I have released all copyrighted Tigercub programs, except the Nuts & Bolts Disks, for free distribution providing that no price or copying fee is charged. All of my Tigercub programs have been added to my TI-PO library and are cataloged, by category, in Supplement #8.

My three Nuts & Solts disks, each containing 100 or more subprograms, have been reduced to \$5.00. If I run out of printed documentatiion, it will be supplied on disk.

My TI-PO library now comsists of 400 disks of fairware (by author's permission only) and public domain, all arranged by category and as full as possible, provided with loaders by full program name rather than filename. Basic programs converted to X8asic, etc. The price is just \$1.50 per disk(!), post paid if at least eight are ordered. TI-PD catalog \$2 with Supplement \$8, listing all titles and authors, is currently available for \$1 which is deductible from the first purchase.

Here are a couple of improvements to the CHARFIX subprogram. published is Tips #58. 29000 SUB CHARFIX(HX\$()):: D ISPLAY AT(12,1)ERASE ALL BEE P: Transliterate punctuation ?" :: ACCEPT AT(12,28)SIZE(1)VALIDATE("YN"):Q\$:: IF Q\$= 'N' THEN 29004 29007 CALL CHARVIEW(HX\$()) 29009 SUB CHARVIEW(HX\$())

And call the routine by

CALL CHARFIX(HX\$()). These changes will avoid unwanted transliteration, and will make it possible to use CHARFIX for ASCII 24-31 and 144-159, if BXB has been merged in, as described in Tips #55.

The Spring 1990 issue of the TI*MES sensietter from England contailmed an interesting challenge - write a program in amy language to find the lowest power of 7 which contains six sevens in succession, i.e. '777777'.

The computer cannot solve this by any normal means, because it soon goes into scientific notation in which large numbers are rounded off into long strings of zeros. So, I taught it to multiply the old-fashioned May -

100 AS=STRS(7):: Y=1 110 Y=Y+1 :: FOR J=LEM(A\$)TO 1 STEP -1 :: E=(VAL(SEGS(AS ,J,1))*7+X)/10 120 X=INT(E):: F=(E-Y)=10 :: X\$=STR\$(F)&X\$:: NEXT J 130 IF X)O THEN XS=STRS(X)4X 140 IF POS(X8, "777777",1)()0 **THEN 160** 150 A\$=X\$:: X\$=** :: X=0 :: 60T0 110 160 PRINT "7"";STR#(Y);"=";X 170 PRINT #2:"7"";STR#(Y);"= ":X\$

The assuer? 7-175=78011207 9122061581024046412791118077 7777188182006932636111839698 5716038858440266717799156064 7169989331265664440734763224 8554716494939953912586437943

My TI-99/4A computed that in 24 minutes. Would someone like to try it on the 9640?

Anyway, I thought I would use the same method to solve precise aultiplication of numbers too large to be computed directly. This routine will multiply two numbers of up to 28 digits each, and will handle decimals and negative numbers. For even larger numbers, change the ACCEPTs to INPUTs and if necessary change the DIM. The only limitation seems to be that the result cannot contain more than 256 digits and even that could be prograssed around.

100 DIM Cs(100) 110 DISPLAY AT(12.1) ERASE AL L: "FIRST NUMBER?" :: ACCEPT AT(14.1) VALIDATE(NUMERIC) BEE P:AS 120 IF SEG#(A#,1,1)="-" THEN A\$=SEG\$(A\$,2,255):: M=1 130 A=LEM(A\$):: D1=POS(A\$,* A\$,1,D1-1)&SE6\$(A\$,D1+1,255) :: 01=A-01 140 DISPLAY AT(16,1)ERASE AL L: "SECOND NUMBER?" :: ACCEPT AT(18.1) VALIDATE(NUMERIC) BE EP:88 150 IF SEGS(B\$,1,1)="-" THEN B\$=SE68(8\$.2.255):: H=H+1 160 Y=LEN(8\$):: D2=POS(8\$,* ",1):: IF 02()0 THEN 8\$=\$E6\$ (B\$,1.D2-1)&SE6\$(B\$,D2+1.255):: 02=Y-02 :: 01=01+02 :: Y =Y-1 170 FOR J=Y TO 1 STEP -1 :: W=W+1 :: B=VAL(SE69(B\$.J.1)) :: FOR K=LEN(AS)TO 1 STEP -1 :: A=VAL(SEGS(A5,K,1)) 190 D=(A#8+X)/10 190 E=INT(D):: F=(D-E)+10 :: ce(J)=STRe(F)&Ce(J):: X=E : : NEXT K 200 IF X)O THEN CS(J)=STRS(X)#C#(1) 210 Cs(J)=Cs(J)&RPTs("0",U-1 220 X=0 :: NEXT J 230 L=LEN(CS(1)):: FOR J=1 T 0 Y :: L2=LEN(CS(J)):: IF L2 FC#(1)

(L THEN CS(J)=RPTS("0".L-L2) 240 NEXT J 250 FOR J=LEN(C#(1))TO 1 STE P -1 :: FOR K=1 TO Y :: G=G+ VAL(SEGS(CS(K),J,1)):: NEXT

260 G=(G+H)/10 :: L=INT(G):: 6=(6-L)=10 :: Ds=STRs(6)&Ds :: H=L :: 6=0 :: NEXT J

270 IF HOO THEN DS=STRS(H)&D 280 IF D1)0 THEN DS=SEGS(DS, 1,LEN(0+)-01)&"."&SEG#(0+,LE N(D\$)-01+1,255) 290 IF M=1 THEN 09="-"40\$ 300 PRINT DS

And this one will add up an almost unlimited number of integers of almost any length - I haven't figured out how to get it to line up decimals.

100 CALL CLEAR :: DIN C%(100 110 DISPLAY AT(12,1): "Imput from D*: " (D)isk or ": " (K) eyboard?" :: ACCEPT AT(12,12)VALIDATE("DK")SIZE(-1):Q8 : : IF Q\$="K" THEN 140 120 DISPLAY AT(12.1)ERASE AL L:'Filename? DSK' :: ACCEPT AT(12,14):F\$:: OPEN 81:'D\$K "&F\$,[MPUT 130 X=X+1 :: LIMPUT 61:CM(X) :: H=MAX(H,LEN(Cs(X)):: IF E OF(1)()1 THEN 130 ELSE CLOSE #1 :: GOTO 160 140 DISPLAY AT(12,1): "PY eas ENTER when finished": "": "" 150 X=X+1 :: IMPUT Cm(x):: # =MAX(H,LEN(CO(X))):: [F CO(X)() " THEN 150 ELSE X=X-1 160 FOR J=1 TO X :: IF LEW C s(J))(H THEN Cs(J)=RPTs('0'. M-LEN(CS(J)))&CS(J) 170 NEXT J :: FOR J=M TO 1 5 TEP -1 :: FOR K=1 TO X :: 6= 6+VAL(SE64(C4(K),J,1)):: WEX 180 G=(G+H)/10 :: L=[NT(G):: 6=(6-L)=10 :: D\$=STR0(6)400 :: H=L :: G=O :: MEXT] 190 IF H)O THEN DS=STRO(H)&O 200 PRINT DS

It is easy to invert charactors on the screen simply by making the foreground 'on' pixels a lighter color than the background 'off' pixels - but when you make a screen dump, you will find that the 'on' pixels will print and the "off" pizels will mot.

Key this in, SAVE it by SAVE OSK1. INVERSE, MERGE and then merge it into any program by MERGE DSK1.INVERSE, call it at any point by CALL INVERSE(A,8). (A and 8 are the first and last ASCII to be inverted), and you will have all 'on' pixels turned off and vice versa.

31111 SUB INVERSE(A,B):: FOR CH=A TO B :: CALL CHARPAT(C H.CHS) 31112 FOR J=1 TO 16 :: CH2\$= CH2\$&SEG\$("FEDC8A9876543210" ,POS("0123456789ABCDEF",SEG\$ (CH\$,J,1),1),1):: NEXT J :: CALL CHAR(CH,CH28):: CH28="" :: NEXT CH 31113 SUBEND

Here is a truly remarkable discovery by Bill Hudson of the Central Ohio Minety Niners. This 2-line program will allow you to RUN a variable name such as -A\$= "DSK1_PROGRAM"

You can write lines before these, after these, and even RES the program. You can also use MOVE from GK UTILI-TY. You can do anything to the program you want as long as you don't change the content of line 1000. The line number does not even have to be 1000 BUT IT MUST BE THE FIRST LINE THAT YOU KEY IN!! You can merge a program into this but can't perge this into a program, Line 900 cam also be a different line number but program execution must go to that lime first.

900 FOR Z=1 TO LEN(A4):: CAL L LOAD(-41+Z,ASC(SEGS(AS,Z.1)),0):: NEXT Z :: CALL LOAD(-41.LEN(AS)):: CALL LOAD(-44 .4+LEN(A\$}) 1000 RUN "DSKx.1234567890"

It's been a long time since we had a screen display to watch just for the fun of it, so here is a tinygram -

100 CALL CLEAR :: FOR SET=1 TO 14 :: CALL COLOR(SET.SET+ 1.SET+2):: MEXT SET :: CALL SCREEN(2):: CALL VCHAR(1,1,3 1.768) 110 FOR CH=32 TO 136 STEP 8 :: CALL CHAR(CH, "FF000000000 OOOFF"):: NEXT CH 120 X=INT(RND*6+1)*2-1 :: Y= INT(14*RND+1)*8+32 :: FOR R= 12-X TO 12-INT(RND*X):: CALL HCHAR(R,5,Y,R) 130 CALL HCHAR(25-R,5,Y,R) 140 CALL HCHAR(R,28-R,Y,R) 150 CALL HCHAR(25-R,20-R,Y,R 160 ON INT(2*RND+1)GOTO 170, 170 CALL HCHAR(R,4+R,Y+8,25-R*2) 180 CALL HCHAR(25-R.4+R.Y+8, 25-R#2) 190 NEXT R :: 6010 120

This is a challenging and educational math puzzler which I think is unlike anything you have seen. I had it in my Tigercub catalog for 7 years and sold just 18 copies. If you don't want to key it in, it is now one of the programs on TI-PO disk Mo. 1300.1.

100 GOTO 140 110 J.K.ST.LV.I.R().T.X.A.AS ,X\$,B,8\$,C,C\$,D,D\$,AY,BY,846 ,8Y\$,CY,CY\$,C@\$,Q.Y(),Y@,X**@**(

),FLAG,R\$,RL,Z,YY,D@(),Q\$ 120 CALL CLEAR :: CALL CHAR :: CALL COLOR :: CALL VCHAR

:: CALL SCREEN :: CALL KEY : : CALL SOUND 130 !@P-

140 CALL CLEAR :: FOR J=1 TO 12 :: CALL COLOR(J.5.16):: NEXT J

150 CALL VCHAR(1,3,32,672):: DISPLAY AT(5,1): * @\$\$#### RITHMATIK 8+4140 "

160 DISPLAY AT(10,1): Selec t difficulty level -": :" Ty Pe 1 or 2"

170 CALL KEY(O,K,ST):: IF ST (1 THEN 170 180 IF (K(49)+(K)50)THEN 170

190 LY=K-48 200 CALL VCHAR(1,3,32,672):: FOR I=1 TO 4 :: RANDOMIZE

210 R(I)=INT(RM0*10):: IF R(I)=0 THEN 210 220 FOR T=1 TO I-1 :: IF R(I)=R(T)THEN 210 230 NEXT T 240 NEXT I :: X=R(1)*1000+R(2)*100+R(3)*10+R(4) 250 A=INT(4*RMD)+1 260 ON A GOSUB 330,340,350,3 60 :: A\$=X\$ 270 B=IMT(4*RMO)+1 :: IF B=A **THEN 270** 280 IF (LV=1)*(LEM(STR\$(R(B) /R(A)-INT(R(B)/R(A))))>2)THE N 250 290 ON 8 GOSUB 330,340,350,3 60 :: 8\$=X\$ THEN 300 310 IF C=8 THEN 300

300 C=INT(4=RND)+1 :: IF C=A

320 ON C 605UB 330.340.350.3 60 :: C\$=X\$:: D=10-A-8-C :: ON D 605UB 330,340,350,360

:: 0\$=X\$:: 60T0 370 330 X#=" 1st " :: RETURN 340 X\$=" 2md " :: RETURN

350 X\$=" 3rd " :: RETURN 360 XS=" 4th " :: RETURN 370 AY=R(B)/R(A):: BY=ABS(R(C)-R(8)^2):: IF 8Y=0 THEN 38

0 ELSE 390 380 805="" :: 8Y\$=" equal to * :: 60TO 400

390 808=STR\$(BY):: BY\$=" mor e or less than' 400 CY=ABS(R(D)-R(C)-R(B)-R(A)):: IF CY=0 THEN 410 ELSE

410 CY\$=" equal to" :: C@\$=" " :: 60TO 430

420 CYS=" more or less than" :: COS=STRS(CY)

430 DISPLAY AT(2,1): I have a 4-digit number ":" with m o two digits the": " same." : : DISPLAY AT(6,1): The ;8%; 'digit is';AY;' times the';A *; "digit."

440 DISPLAY AT(9,1): " The"; C \$; 'digit is ":80\$;8Y\$;" the square of the":88: " digit." :: DISPLAY AT(14,1):" The";D \$; "digit is ":C@\$; " ":CY\$; " the sum of the other digits' 450 DISPLAY AT(18,1): " What

is the number?" :: ACCEPT AT (20.2) VALIDATE(DIGIT) SIZE(4) BEEP:Q :: IF Q=X THEN 530 460 Y(1)=INT(Q/1000):: Y(2)=

INT((Q-1000*Y(1))/100):: Y(3

)=INT((Q/100-INT(Q/100))*10) :: Y(4)=(Q/10-INT(Q/10))+10 :: IF Y(B)()INT(Y(A)*AY)THEN 470 IF 8Y()0 THEM 490 480 IF Y(C)()Y(B) 2 THEN 570 ELSE 500 490 [F (Y(C)()Y(B)^2+BY)*(Y(C)()Y(B)^2-BY)THEN 570 500 IF CY()0 THEN 520 510 IF Y(D)()Y(A)+Y(B)+Y(C)T HEN 570 ELSE 530 520 IF (Y(D)()Y(A)+Y(B)+Y(C) +CY)*(Y(D)<)Y(A)+Y(B)+Y(C)-C Y)THEN 570 530 DISPLAY AT(22.1): Corre ct!": : :: FOR J*1 TO 2 :: C ALL SOUND(100.392.5):::CALL SOUND(100,440,5):: CALL SOUN D(100,494,5):: CALL SOUND(10 540 NEXT J :: CALL SOUND(100 0,523,5,392,5,330,5) 550 DISPLAY AT(24,1): " Hit & ny key* 560 CALL KEY(O.K.ST):: IF ST (1 THEN 560 ELSE 200 570 DISPLAY AT(22,1): " WY" :: CALL SOUND(900,30000.3 0,30000,30,400,30,-4,0):: 01 SPLAY AT(23,1): Type A to t ry again or Z":" to see the number ' 580 CALL KEY(O,K,ST):: IF ST (1 THEN 580

610 DISPLAY AT(22,1): * The * umber was";X:" " :: 6070 550 :: END

600 IF K=90 THEN 610 ELSE 58

590 IF K=65 THEN 450

Mearly out of secony and all out of ideas. Mere ment time, maybe.

Jim Peterson

Tigercub

THE PUG MEETS ON THE 2ND SUNDAY OF THE MONTH AT WHITEHALL BOROUGH COMMUNITY ROOM 100 BOROUGH PARK DRIVE WHITEHALL, PA.

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

		~/. *
	PUG OFFICERS	
Pres:	Gary Taylor	412-341-6874
V Pres:	Rick Keppler	412-941-3559
Treas:	Art Gardner	412-835-4304
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Paper Lib:	Tom Puhatch	412-885-3183
Cor. Sec.:	Gary Taylor	412-341-6874
NI Editor:	Marlane Curran	412-521-2542

	FEB 1992						
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16							
23							

SCHEDUL

3-4PM Questions, Problems, and Answers 4-5PM Loading Funnelweb with Gary Taylor 5-6PM Extended Basic with Mickey Schmitt 6PM-? General Meeting

DUES \$15/YR

PITTSBURGH TI USER'S GROUP P.O. Box 8043 Pittsburgh, PA 15216



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DATED MATERIAL
Please Deliver by
Jan 8th

JAN 1992

SMTWTFS

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12 MEETING

PUG 88S 412-341-4820 300/1200/2400 BAUD 24 HOURS