



EDITOR'S EDICTS



BI PHIL TOWNSEND

THE INUVIK 99'ERS

Our loss is Inuvik's gain! Mike McVeigh will be reaving our beautiful Kawartha Lakes area for the "cooler" climate some several hundred miles north of the Artic Circle. Mike will be teaching in the college there and hopefully might even be able to start up a computer interest group (if there isn't already one). If nothing else, Mike will be able to impress the Northern population with his 99/4A and its capabilities. Mike, your abilities, hard work, interest and friendship will be sorely missed by all of us in the group We wish you well in your new adventure and hope that you will be back with us in the not too distant future. Hopefully we will still be able to count on you for interesting articles and programs for the newsletter from time to time (hint). Mike's departure as of Sept. 19th. leaves the position of Publicity Coordinator to be filled, the membership will have to look after this at the Sept. meeting.

Speaking of the upcoming meeting, please be prepared to provide the following:
-consoles & wiring; Janet, Bob Mathews, Karen Wilson and anyone else who wishes.
-cassette recorder & wiring; Don Roberts, John Baal
-Jet Pack (tm); Lindsay
-PE box; Mike Dunn

-Power bars & bits & pieces;
Phil
-Printers, axioms & cabling;
Steve, Glen
Please bring Ex Basic modules if
you have them.

This Newsletter is a combinaton of a summer and September edition, many thanks to the following groups' newsletters for the reprinted articles; L.A. 99'ers, Southwest 99'ers, St. Louis 99'ers; Front Range 99'ers, and the Boston Computer Society. Several other groups' and individual's articles are recognized within the body of the newsletter. I hope the many groups that we share newsletters with will benefit from the reprinting of these articles as will our own members.

Under discussion at the September meeting will be the date and location for our next public demonstration and membership drive. Hopefully Mike Dunn will demonstrate his growing provess with The Companion wordprocessor and Glenn will set us all astir with a demo of the banner maker portion of CSGD. It sounds like an interesting and busy meeting so plan to attend.

P.S. the Editor of this newsletter could sure use some help from the members in the way of getting original technical articles, product reviews, personal computer experiences etc., all submissions would be appreciated.

KAWARTHA 99ers USER COUP

FOR USERS OF THE TEXAS INSTRUMENT 99/4A HOME COMPUTER

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Heetings are held on the first Wednesday of every month at the Queen Alexandra Community Centre. Meetings begin at 7:00 p.m.

Membership fees are collected on an annual basis of \$18.00 per annum or a portion thereof at the rate of \$1.50 per month. Memberships are on an individual basis and run annually from the first Wednesday in March.

The opinions expressed in this newsletter are those of the authors and not necessarily of the KAWARTHA 99ers USBR GROUP.

Advertisements and contributing articles for this newsletter may be given to the newsletter editor or mailed to the group's P.O. box.

The KAWARTHA 99ers would like to thank those groups who exchange information and newsletters regarding the TEXAS INSTRUMENT HUME COMPUTER with us. We endeavour to recognize original authors and sources of articles of information which we reprint or make available to our membership.

The KAWARTHA 99ers USER GROUP are a non-profit group who welcome any individuals who have an interest in the TRXAS INSTRUMENT HOME COMPUTER.

WANT ADS

VIEWS AND REVIEWS

SUPER EXTENDED BASIC

Review by Gene Bohot - Pomona Valley 99ers - Ontario, CA - Aug '87

At last, a major improvement to the TI-99/4A I can really use. SUPER EXTENDED BASIC is, for me, the best thing since DM1000 and the most used since I learned FunlWriter. If you have TI Extended Basic, you can send it to Triton for a \$20 coupon when buying Super XB, and if you don't have it yet, don't bother.

I read a review called <u>Super Extended Basic</u> in a MICROpendium of 1985 that was apparently disk-based and needed CALL LOADs to use, but the ad in Triton's Spring catalog said it came in a module and supported up-down arrow in-line editing. Since the price was only \$59.95 I decided to try it out.

WDW! It works just like TI Extended Basic and has been compatible with every program I have in "old xb" and some of the commands have been upgraded so you ca specify Line Length with LIST and can RES a segment of a program. You can also move the cursor immediately to the start or end of a line, or up or down a line in a statement, or tab left or right, in a statement, even erase everything up to or after the cursor.

But this is just the icing on the cake! Super Extended Basic also adds 33 new commands. I think the best are:

COPY, MOVE, or DELETE a segment of a program, CALL CATalog. CALL CLOCK, CALL CHIMES, CALL NEW or BYE, CALL QUITOFF, and CALL RUN(string variable program). It will also return the position of the ALPHA LOCK, CONTROL, FUNCTION, and SHIFT keys. Most of these commands can be accomplished with long programming techniques or assembly language aids, but now they are so much easier. Many times I have spent hours trying to do them in "old xb".

And even this is not all! Super Extended Basic also includes "DRAW 'N PLOT" from

Quality 99 Software BUILT IN as fifteen assembly language subroutines you can use like TI-ARTIST or GRAPHX to draw fictures, then dump them to printer or disk. (You do need memory expansion to use DRAWNPLOT.)

Altogether, I feel this is the best value I have found for the TI-99/4A in a long time. The 24-page manual is laid out like the "old xb' manual and very easy to use. The only fault I have been able to think of with this module, is users with "old xb" cannot run a program written in Super Extended Basic since the new commands are not supported. Can you imagine your "old xb" when it encounters CALL ALL(42) to fill the screen with asterisks? But this is simular to trying to run an XB program in BASIC and not really a fault of Super Extended Basic.

If you write your own programs and have been looking for a way to make life a little easier, I highly recommend SUPER EXTENDED BASIC. Availiable from TRITON PRODUCTS COMPANY, PO Box 8123, San Francisco, CA 94128, Phone 800/227-6900.

NOTE: Super Extended Basic, in the widget, will not allow you to access modules in other slots.

SIMPLY PUT....

by Fred and Amy Mackey - Pittsburgh Users Group, Pittsburgh, PA

How A Disk Drive Works

The disk is placed into the drive, the door is closed, and a spindle hub inside the diskette hale spins it around very quickly, at about 300 RPM. A magnetic read/write head moves toward the hub or out to the edge. The combination of spinning and head movements allows data to be placed on any part of the disk. Data is written on or read from the disk as it spins around inside the disk drive. The characters are stored as a series of magnetic pulses treated as zeroes or ones, called bits. Eight bits is a byte, one unit of data.

A double sided disk drive has two of everything and can read and writes to both sides of the disk without flipping the disk over. A double density disk drive can hold twice the usual number of bytes.

The data is read/written on concentric bands called tracks. Both sides of the disk jacket and the disk itself have an index hole. When the three are lined up, a beam of light passes through them and strikes a photo receptor which tells the drive it is the start of the track. Each track on a disk is broken into equal areas called sectors.

Magnetic Media Defects

All computers using external storage systems rely on magnetically created electrical impulses for their memory. Whether using cassette tapes, cartridges, floppy disks, hard disks, or other storage systems, these impulses are what make computers function. The physical devices that accept and hold the magnetic code are called the media. And all media require periodic attention.

If you've ever tried playing a "wrinkled" cassette tape on a cassette recorder, you know there is a problem. Besides producing a skip at the wrinkle, the tape will be weakened in that spot and will eventually break.

The same holds true with magnetic media used for computer storage. Both the media and the programs and data they contain may be damaged or destroyed by such things as heat, static, magnetism, polluted air, chemicals, dirty drive heads, grease or oil from fingertips, excessive humidity, excessive dryness, etc. Even brand new media is not exempt from these problems.

Older media is subject to more problems, such as the base material holding the oxide may turn brittle and become useless with age. The adhesive holding the oxide to the base may deteriorate. Or possibly the software may just wear out with use.

The magnetic media can easily be damaged through abuse or negligence. Therefore, it is important you be as careful as possible is your handling of it. This means running regular maintenance checks to keep your media in shape and doing such things as cleaning the heads of the disk drive and keeping your computer work area as clean as possible. And most important, get in the habit of making back-up disks for all your software.

The following are some rules you should follow to give your disks and cassette tapes the longest life span possible.

- 1. Always store your media in dustproof, non-metallic containers.
- 2. Avoid touching the magnetic surfaces of the disks or tapes.
- 3. When labeling a disk, write on the label before putting it on the disk. If you must write on the label after it is on the disk, use a soft-tipped marker, and make sure the ink is dry before putting it into the drive.
- 4. Store all media away from sources of heat, as well as from humidity. (This means the basement is not a good home for your computer!)
- 5. If you just walked across the room dragging your feet on the carpet, first discharge the datic electricity suching a grounded metallic object before your applied disk or too recongular.

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Red, Blue and Green(reel to	reel style)	\$	
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TI 32K card 160 MYARC o	r CORCOMP 32K card	1	50
MYARC/CORCOMP DSDD Disk Controll	er card	2	25
CORCOMP Triple Tech card or Stan	d Alone RS232 unit		25
MYARC 256K/512K RamDisk	300)/4	50
Memory chips to upgrade MYARC Ra	mDisk (EA)		5

POWERHOUSE X10 Home Control Components:

This system can be controlled by your TI with the Corcomp Home Sentry Module and the Computer interface or operated by various other controllers available. Select only the components you wish and expand your system gradually. Be the first in your neighbourhood to automate your home!

These units are extremely easy to install; in most cases you simply plug them in and you're in control.

10X Powerhouse (serial interface to your TI)	\$	
Corcomp's Home Sentry System(software interface)		70
Maxicontroller(16 station controller)		35
Minicontroller(8 station remote unit)		20
Timer Interface: Allows you to turn controlled appli	an	ces
on/off at pre-set times or pseudorandomly(in security	m	ode)
even when you are away from home!	(60
Radio Transmitter/Receiver unit	•	70
Extra Radio Transmitter for above		30
Thermostat Controller: Fools your furnace/conditioner		
into thinking its warmer/cooler than it really is!		60
10X 3 pin appliance module		35
10X 2 pin appliance module		30
3 pin Heavy Duty Appliance module(15 Amp)		35
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"CONSOLE-ING THE ORPHAN"

RANDOM WORD GENERATOR

There are times, when trying to write an adventure game, you at a loss for unoque and appropriate names for either your monsters or your heros. My first try was by hand (or I should say, by head). But this took much too long...and besides, was no fun! So I wrote this contracted with much more this program. I was rewarded with much more than I bargained for. Not only did I came up with acceptable names, but I also created an appropriate foreign language I could teach Here are some examples: my characters.

MONSTERS: DIHA-PIXE (a loveable rascal). An XORTI (a HUGH bat) The OZA PU, the DIWU KAVA and the ZULU QUYE, are strange vampire like creatures.

Of course, a GOTOAUWA, a MUWAROLO as well as the ZENIBUBA need no explanation.

OUR HEROS ARE: ATONO HAZODABO (a 6'6" adonis) MEYUVI AADA (the clown

The princess CINA EDULAVA Her friend VIVI LUMAJADE VIVI LUWAJADE Emperor HUZO MAJEDESA

ZABERUHI ... and of course, ANDGE SU DAH, the wizard. Doctor

"XUNC ACTYL AJAET KOHEHIMA", shouted the evil Tenibuba. As they carried my friend away he pleaded, "JEYA, JEYA!" But the EFUCO (Cad) only sneered back," FALA PEPIJE TETUJUZU!

Other not so obvious words are:

A "FUFECUPO" is a clown, an "AJOKI" is a "CINE MEYALEDI" is a beautiful woman and pun. "CINE MEYALEDI" is a beautiful woman and "ODODO TUEA" is a delicious fruit from, as you know, the island of GZAPU

The program will print 30 rows of words in 3 columns. This can be changed in line 90 and If you don't want a printed copy, REM out lines 80,200,210,220 and 250. Also shorten line 280 to ... 280 END.

I hope you enjoy using this program as much much as I did writing it.

<#> <#> <#> <#> <#> <#> <#> <#> <#>

```
18 [----! !899
28 ! * RANDOM WORD SENERATOR * ! !892
                                ! !004
30 !
48 ! -- by Chick De Marti -- ! !219
                                 1 4 8 9 4
50 !
60 REM RANDOMIZE 1099
70 FOR I=1 TO 5 :: READ V(I):: NEXT I !194
88 OPEN #2:"PIO" !254
90 FOR WORD=1 TO 90 !100
188 R=INT(RND=18)+1 :: IF R<4 THEN GOSUB 298 :: P=2 !142
110 FOR PHRASE=1 TO P !008
128 IF R>5 THEN X=2 ELSE X=1 !230.
130 FOR Y=1 TO X !166
148 C=INT(RND+26)+65 :: IF C=65+C=69+C=73+C=85 THEN 148 !842
158 NAMES=NAMES&CHR$(C):: GOSUB 298 ! vowel !075
168 NEXT Y :239
170 GOSUB 290 ! add a vowel between phrases !045
180 NEXT PHRASE !089
198 CT=CT+1 :: PRINT NAME$,!189
200 ON CT GOTO 210,220,230 1013
210 PRINT #2: "Name #": WORD; " "; NAME$;:: GOTD 240 !212
228 PRINT #2:TAB(30); "Name #"; WORD; " "; NAME$;:: GOTO 248 1838 238 PRINT #2:TAB(68); "Name #"; WORD; " "; NAME # :: CT=8 1124
248 NAMES="" ! prepare for new name !238
258 NEXT WORD :: P=3 :: NAME$=* " !283
260 PRINT : 1*Press Q to quit*;:: INPUT Q$ !125
278 IF Q$="Q" THEN 280 ELSE CALL CLEAR :: 60TO 90 !223
280 CLOSE #2 :: END !165
298 NAMES=NAMES&CHR$(V(INT(RND*5)+1))!149
300 RETURN !136
310 DATA 65,69,73,79,85
```

BITS & PIECES

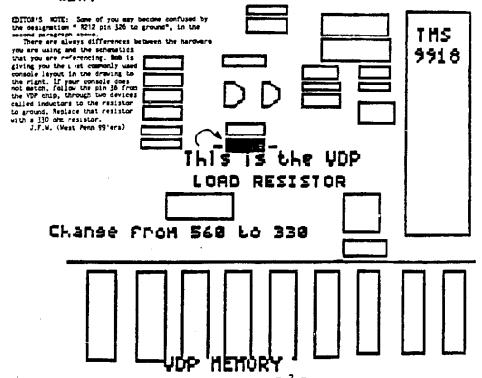
Improved Video

by, Bob Lawson

In my travels through the Texas Instruments Manuals, specifically the TM5-9918,28,29 Manual, I read, The load resistor (RL, pin 36 to ground) defines the sharpness of the edges on the video signals. A lower resistor value gives faster fall times and a sharper picture. Hmmm! I don't remember any 338 ohm resistors.

Well, I pulled out the "TI Console and Peripheral Manual, and sure enough, R212 pin 36 to ground was 560 ohms per the schematic. The next step was to check out a console, and well you guessed it, R212 was 560 ohms, not 330 ohms as recommended in the TI Manual!

Next step was to try some different value resistors, 338 ohms seems to be about the best common value resistor to use. I wonder why TI chose to use 3d0 ohms. I did find one old TI Manual which recommended 398 ohms (1979), but they're sometimes hard to find in 1/4 watt. This 30 cent change gives about a 40%, that's right, I said 40% improvement in the picture. The improvement is so good, you'll wonder where the WHITE SHADOWS WENT.



VIEWS AND REVIEWS

JOYPAINT AND JOYPAINT PAL REVIEWED

by Jerry Steinberg, LA 99ers

Let me begin this review by telling you that I own just about every graphic program that has come out for the 99/4A, and I have come to a very interesting conclusion. I have been asked many times, "which graphic program do you think I should buy" ... I have arrived at the perfect answer. You should buy all of them .. I have yet to see a graphics program that does not have some facility that the others lark ... If however somebody said to me, "I can only afford to buy three or four programs, then I would have to say, "Buy T.I. Artist, Graphx, and Joypaint 99 and Pal."

Une big reason for my choice of these four is that the files from one can easily be used with the others, thereby giving you a flexibility not available from any single one. If money is not lacking I would also recommend Dave Rose's CSGD Program... But now to get down to the review of Joypaint in particular... In my estimation this one is just about the best. It has most of the features all the others have with some added ones that are breathtakingly original.. Speaking broadly before I get into details let me say this; Joypaint is the easiest to use of all the others and has many features that none of the rest have.. For example, you have an assortment of pulldown windows that enable you to easily select with your joystick a myriad of functions, some of which are entirely new to graphic program users.

First of all.. How many times have you had to save a picture to disk so that when you add the next lines you can recall the old picture in case you make a mistake?.. You don't have to do that with Joypaint... If you make an error all you need do is use the undo function provided, and the last thing you did will be undone .. This of course is a miraculous time saver... But this is only one of the miracles this program affords.. Another is the "Smart Fill".. A fill that works better than any I have seen... A little ball skirts the perimeter of the area you wish to fill, and then proceeds to do so.. It wanders about and looks for unfilled areas so it can fill them... Also the fill target is not a cross that is so big you can't fit it into what you want to fill, but a sign that says "fill" with a dot below it one pixel large, so that you can fill the timiest of areas.. No doubt about it.. This is the best fill I've seen.

Now lets talk about textures. You have your choice of twenty six available and if you say that's not enough. O.K. There are provision for you to make your own in any quantity and save them to disk. So much for textures. But the real miracle of this program is the function called Spray Can. This is another of these great choices which are made by choosing an icon just like in T.I. Artist. The spray can allows you to take any texture and spray paint with it... The leaves in the accompanying graphic were made using the Spray Can, as was the foliage. Everything in this graphic with the

exception of the girl was made with Joypaint 99.. The girl was borrowed from another graphics program. If you wanted for example to make a brick wall.. You would first make the wall with the boxmaker, and then use the fill using the brick texture and you would have it.. Simple as that...

When I give examples of what can be done, I am talking about both Joypaint 99 and the Joypaint Pal, since these two work hand in glove to perform many of these unheard of functions... Now to go on.. There are eight different brush shapes which can be used in your drawing .. This also gives you great facility in crasing small or large areas. We also have a directory feature which allows you to see the files on any disk without leaving the graphics program... You can also draw on an area larger than the screen you are viewing.. There is a function for moving the whole screen sideways and up and down. There is also a feature which allows you to magnify or reduce any area chosen of your picture... Also, when you save a graphic is doesn't use much disk space because it only saves the picture information and not the blank areas. It will also do all the things the others will do such as invert, Rotate, Flip Vertically or Horizontally, Copy, Move, Store on a clipboard, Circles, Ovals, Boxes, Etc.

As a few afterthoughts, we have printout in two sizes and two densities that works like a dream, and a delightful thing called Fatpixels, which is a zoom option which allows single pixel editing. The list price on these two disks is \$39.95 for Joypaint 99 and \$7.95 for the Joypaint pal.. The two disks together come to just under fifty bucks.. Worth it? .. A bargain as far as I'm concerned.. Right now it is necessary to have a Bemini 10x,15x,T.I. Impact, or any Epson compatible.. If you also have the Pal it will work with the 6P100 by Axiom.. Other printers are being worked on at the present time... Use of Juypaint 99 requires the following equipment.. T.I. 99/4A, Joystick, Extended Basic, E/A, or Mini-Memory.

