

**Southwest  
Ninety-Niners  
Newsletter**  
contributed by  
**- Tom Wills -**  
**SW99ers User Group President of Record**  
compliments of



**TI99ers  
On-Line  
User Group**

**[www.ti99ers.org](http://www.ti99ers.org)**

# SOUTHWEST NINETY-NINERS

JULY 1988

P.O. Box 17831 Tucson, AZ 85730

## Officers

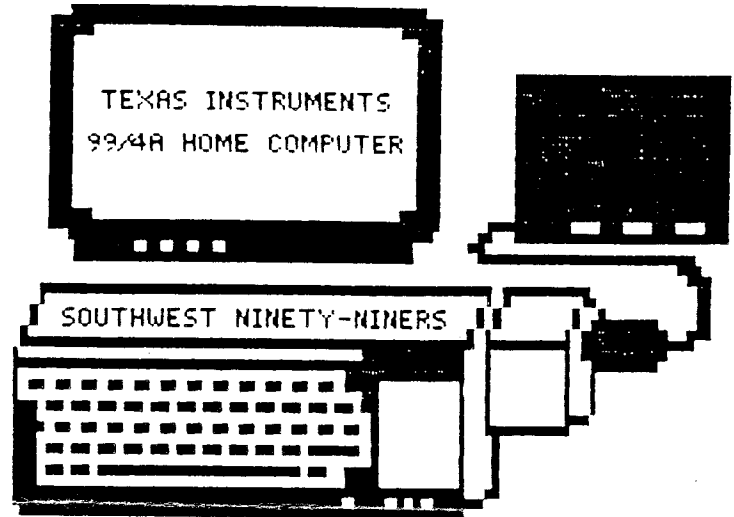
BJ Mathis - President  
Ed Hallett - Vice President  
Ed McCullough - Secretary  
Al Armstrong - Treasurer

## Newsletter

BJ & Jack Mathis - Editors

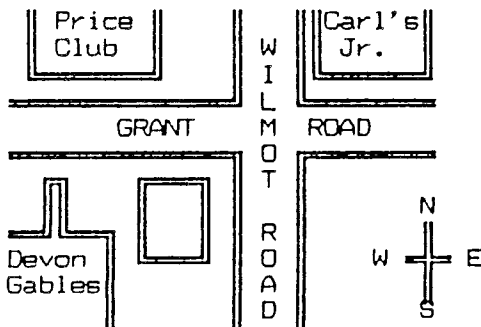
## Library

BJ & Jack Mathis - Co-Chairmen  
Joe Lenox - Fairware Librarian  
Ida McCargar - Lending Librarian



## ATTENTION MEMBERS !!

Next meeting, THURSDAY, JULY 7th at Devon Gables Health Care Center in the Executive Dining Room at 6150 E Grant across from the Price Club at 7pm. Look for the BLUE AWNING!!!



## UPCOMING EVENTS

This month BJ Mathis will present information on the group's financial status and we will discuss the financial future of the Ant Farm (yes, Ed Hallett has promised to be present!!!). Rod Stallard will present an overview of Forth Ida McCargar will explain some PRBASE usage and tricks. Eric Stallard is scheduled to give us an overview of LOGO and Al Armstrong will present more information on the workings of a disk drive in August. September will bring us a Fix-It Program by Al Armstrong and Basic & ExBasic tips and hints by Jack Mathis. Printer "Magic" by Jack Mathis and Programming Philosophy by Dave Wolfson will be the program for the October meeting. In November we will be ready for another Future's Workshop and December will be our Christmas Party. Election of officers will take place in January, as usual. We have a full calendar and lot to learn from one another in the next few months, so plan now to attend the meetings on the first Thursday of each month at Devon Gables!

## Geneve Users Workshop

Second Tuesday of each month at 7:00pm (July 12th). Ed Hallett's home 5600 B Country Club #64 - 889-5525.

## TI Users Workshop

Third Tuesday of each month at 7:30pm (July 19th). Bring all your TI-99/4A questions and problems to the Mathis Home - 5941 E 26th - 747-5046

## Advanced Languages Workshop

Fourth Tuesday of each month at 7:30pm (July 26th). Includes: FORTH, A/L, etc. Rod Stallard's Home - 7575 E Logan - 745-6071

# The Ant Farm BBS - 602-889-6930

SysOp - Edward Hallett 300-1200 BAUD - 24 Hrs.

## PRESIDENT'S CORNER

As we are plunged into the furnace of a Tucson summer, we should be thankful that living in Tucson has allowed us to be prepared for the heat. The people in the rest of this country who are experiencing Tucson type heat this year generally are not equipped and therefore the heat is harder on most of them than it is on us.

Many users groups across the country suspend meetings and/or newsletters during the summer because the weather is too good to be indoors with a computer. Those of us in Tucson generally spend more time with our computers during the summers due to the fact it is generally too hot to venture outdoors. That is until the monsoon rains and their inherent electrical storms throw the fear of shocking ourselves and loosing our computers to electrical spikes. Don't take the chance! Turn off your system when

the first warning comes! I don't care what your deadline is, no deadline may ever be met again if you let the electrical elephants go dancing around in your chips and dips. Even the Elephant Exterminator on the Ant Farm BBS may not be able to put your Humpty-Dumpty back together again!

If you are interested in spending some time after the meetings, just talking in a relaxed atmosphere, then join us at Carl's Jr. We do not exclude anyone and are always anxious to share new information. Let me warn you that although we must be out of Devon Gables by 9:30pm, Carl's Jr. doesn't close until midnight and we usually stay until they start turning lights off on us!

*BJ Mathis - 747-5046*

### The Laws of Computer Programming

- 1) There is always one more bug.
- 2) Any program, when running, is obsolete.
- 3) If a program is useless, it will have to be documented.
- 4) If a program is useful, it will have to be changed.
- 5) Any program will expand to fill all available memory.
- 6) Program complexity grows until it exceeds the capability of the programmer to maintain it.

From John Calvin Travers Disk Project

### June's Minutes

1. Jack Mathis conducted the Question & Answer period.
  - Q. There was a further discussion of multi-column printing. Building on last month's discussion.
  - A. Multi-Col as reported in LA Topics will do it, as will MEMO that is included on June's Disk Of The Month(DOM).
  - Q. Have the modems been ordered?
  - A. Yes, they have been ordered.
  - Q. There is no Function key on the Geneve, how do you do Function commands like Fctn 4 to clear a running program or other entry?
  - A. Use the ALT key.
2. BJ announced SouthWest Ninety-Niners will be meeting at Devon Gables, 6150 E Grant, across from the Price Club, starting July 7th. The room has been reserved for the first Thursday of the month thru the end of the year, and there should be no problem with continuing to meet there next year.
3. Jack Mathis demonstrated "Remind Me", a calendar program from Genial Computerware by John A. Johnson.
4. Wes Eng asked some question about Multiplan that resulted in a demonstration of Multiplan by Jack Mathis. Jack demonstrated how to set up formulas to SUM columns. It was recommended that a 24 hour clock (military time) be used to figure hours worked. Using 2 columns the first should be Time Out with the second being Time In, allowing the formula to be Time Out - Time In = Hours Worked which would read INT(RC[-2])-(RC[-1]) in the third column. Jack reminded everyone that Multiplan figures things out in the same way we read - from left to right and top to bottom.

*Ed McCullough, Secretary*

## JULY - Disk Of the Month

1 BETCHA is a little puzzler from Barry Traver.

2 FUCAT is a File Understanding Cataloger which identifies E/A-Dpt 5 Assembly Lang. programs, GramKracker Files and Basic or XBasic programs as well as marking fractured files, and prints in 1, 2, or 3 columns (mixture of condensed and normal type). FAIRWARE, send what you think it is worth.

3 GOBBLER is a game to find food for the gobbler.

4 CHECKBOOK WRITER not only reconciles bank statements, but actually writes the checks. You cannot write a check for more than \$999.99. If you need to write larger checks the author feels you can afford to pay for the program, otherwise it is free. Transfer LOAD/CK and RECONCILE to a separate disk - data will be stored on that disk.

5 NAME PHONE gives you every combination of letters for your phone number, so you can have a special number like TI-CARES.

6 SCRABBLE is game for 2 or more players, but can be played alone, trying to get a high score.

7 SNOOPY prints a large poster.

8 TWO-COL gives directions for printing two columns on a page with Writer.

CBM4/41DOC is the documentation for checkbook writer and FUCAT-DOCS for the cataloging program.

## FAIRWARE LIBRARY UPDATE

Now available from the SouthWest Ninety-Niners Fairware Library:

2. SCREENDUMP - Danny Michaels. Jack Mathis has converted this program to work with C.ITOH type printers. Be sure to specify C.ITOH version or Epson version.

3. NEATLIST - Danny Michaels modified with permission by J. Peter Hodie. If you send the output to disk rather than printer it will now be sent in DV80 form rather than the DV254 of the former version. In addition, Peter had made use of XBALSAVE to create a sup-fast load in ExBasic.

3B. BEAXB- Paolo Bagnaresi. NOW Geneve AND TI-99/4A compatible. This assembler can also be used with E/A module, which will assemble the new TMS 9995 instructions: MPYS (Multiply Signed), DIVS (Divide Signed), LST (Load Status), LWP (Load Workspace Pointer from a register). The syntax used for the new instructions are documented in the first page of the BEAXB manual (#38b). Will correctly assemble files for the TI-99/4A, also.

39. BA-WRITER - Paolo Bagnaresi. NOW Geneve AND TI-99/4A compatible. A wonderful Writer for TI-99/4A users with all the features of TI-Writer plus several new ones. If you don't have an 80-column monitor for your Geneve, this is a good investment.

113. VCR CATALOGER - Version 1.1; Bill Knecht. VCR tapes are beginning to get out of hand? This will help.

115. FRACTAL EXPLORER - Version 2; Steve Languth. Ever wondered what was meant when NASA 'computer enhances' one of their photos from space? This sort of explains it. Docs with this program are an education.

117. ARCHIVER2 - Version 2.4; Barry Boone. Archive and Compress a group of files to save space on disks you mail and up/downloading time on a BBS. Decompress and Unarchive to use your files. This version has many new features.

200. TELCO - Version 2.1 - Charles Earl. Now has a PC Pursuit Dialer, Modem transfers, Comuserve B transfers (binary and ASCII), Significantly faster Xmode transfers, two new terminal emulations: VI-52 and HP2392, other terminal modes are improved, Select options directly from help screens, Enhanced editor, improved conference mode, module capacity increased for Geneve and Super Space II users, 80-column card support, print spooler now supports RS232 and Myarc pio, and 512-character buffer in print spooler. Terminal mode is nearly instantaneous with CONNECTION, instead of waiting for that module to load after the CONNECT. The Upload and Download now give you an estimated time that is updated as the transfer is in progress (Now you'll know if you have time to go get a cup of coffee!). It will chime, beep, or stay silent (your option) when file transfer is complete. The documentation has been rewritten, with the documentation and TELCO itself this is a two disk package.

201. CATLIB Companion - Marty Kroll, Jr. Designed to be used with Cataloging Library (#20). Has many enhancements.

## FIRSTBASE

Available 2nd Quarter 1988

A major advance in 99/4A database technology:

- IBM style query commands
- Batch processing with four-function floating point math
- Multiple keyword searches
- Extremely large capacity
- Handy macros

With FirstBase, the new data base manager from Olympys Technologies, you can organize, manipulate, and report data like never before. We listened to what users missed in other database managers, and what we've created is quite impressive.

We increased the record size to 3000 bytes, allowing you to store much more information than ever before.

We allowed you to search for data using powerful query commands similar to ones used on IBM compatible programs, so you can find exactly what you are looking for with a single command.

We added a batch-processing capability, so you can perform "search and replace" functions or delete a group of records at once. You can even perform MATH on any field.

We added a MACRO feature so you can store frequently used commands on disk for quick recall.

Specifications:

720 bytes/fields                    3000 bytes/record  
32,767 records/database        100 megabytes/file  
    75 fields/record

- Search on multiple fields using AND and OR, or on keywords
- Sort on multiple keys
- Queries sent to screen, printer, new database, existing database
- Records can occupy several screen display
- Flexible report generator
- Written in c99
- Requires 32K, disk, and either XB, E/A, or TI-Writer cartridge
- Myarc Geneva 9640 compatible

Suggested retail price: \$49.95

Available exclusively through:

GENIAL COMPUTERWARE  
P.O. Box 183  
Grafton, MA 01519

Developed by  
O L Y M P Y S  
TECHNOLOGIES  
advancing software technologies

FirstBase written by Warren Agee, c99 language by Clint Pulley. IBM is a registered trademark of IBM Corp.

## HOW TO LOAD SUPER SKETCH INTO TI-ARTIST

by Matt Andel - CinDay, OH

1. Plug Editor/Assembler, Mini Memory, or Extended Basic in the middle slot of the cartridge expander.
2. Plug the Super Sketch cartridge in one of the other slots.
3. Select Editor/Assembler, ExBasic, or Mini Memory.
4. Load TI-Artist the same way you always do.
5. When you get the main menu, press 3 for input device.
6. Put the Artist Extras Disk in drive 1, 2, or 3.
7. Type DBKx.SKETCH, then PRESS ENTER.
8. When done loading, slide the switch on the cartridge expander to the Super Sketch Cartridge.
9. If you use Drive 1 to load Sketch, put the Artist disk back in Drive one. You won't need the Extras disk anymore.
10. Press one for TI-Artist and you can now use Super Sketch to draw with instead of your joystick or keyboard.
11. On Super Sketch you use the select button to select the function you want.
12. On Super Sketch you use the lift button to draw and to activate the function.
13. If you want to return to the main menu, press FCIN QUIT. Now you can use number 2 enhancement, or go back to TI-Artist.

## VIRUS

by J. Peter Hodie

Recently there has been quite a bit of talk in the media about computer viruses. I have generally taken these accounts with large grains of salt. I would not even be writing about the subject except this morning I received a two page letter from the front office on the subject, in part encouraging the flow of accurate information on viruses. For the uninitiated, a virus is a program that somehow causes some sort of damage or unexpected happening either immediately or at some later time. Some viruses simply display a message on a particular day and then disappear. Others may destroy an entire hard disk of data. Around a year ago there was discussion of viruses on the TI. In an article in this very newsletter, Walt Howe described one such virus that would slowly turn your screen black as you worked, starting out as a small black speck at first and then growing. At the time I didn't give such an attack any serious consideration and I printed the article as Walt gave it to me. However, recently I came to the conclusion such a virus on the 99/4A (or even the 9640) is improbable at best. Such a virus would rely on a bitmap screen, otherwise it would pretty much have to wipe out one character at time. Furthermore, there is so little extra memory available to grab on a 99/4A that such a virus could literally find no place to hide when a program such as TI-Writer was running (which I believe was the example given). Such a virus could be created on a machine such as a Macintosh or an Amiga but not a 99/4A. This does not mean a virus could not appear on the 99/4A, merely that it is very improbable.

For a virus to be effective it must come in the guise of a useful program. When you run this program it either installs the virus into another program (often the operating system) or checks some internal counter to see if it is time to go into effect. The 99/4A has no operating system for the virus to attach itself to, and the 9640 operating system has not yet been understood well enough by programmers capable of creating a virus to be vulnerable to such an attack. Secondly, in order to maintain some sort of counter of the number of times a program has been run, the virus would have to write data back out to the disk where the program is stored. On the 99/4A or 9640, this action is very likely to be noticed by the user. On many machines, disk accesses are not indicated by flashing lights or loud noises, particularly machines that use the smaller 3.5" disks. Another way to activate a virus is based on the date that is stored in the system clock. The 99/4A has no standard clock, so this technique is out of the question. The 9640 does have a clock, but so far very few applications have made use of it.

Another characteristic of a virus is that it will propagate itself onto other disks and into other applications. On a machine, dependent on DOS, this is fairly simple. These machines tend to have a reserved area of the disk which always contains a small part of the DOS used in booting up the system. The virus can attach itself to this area and can control the system virtually from start up. In systems such as Macintosh, where any file can actually contain hundreds of sub-files hidden from the user, it is not all that complicated to bury code in a user document and then have the code run when the document is selected for use. However, on the 99/4A there is no "boot area" on the disk and there is pretty much no way to hide autoexecuting code in a TI-Writer document, or other data file. All this is to say it would be pretty difficult to have the virus propagate itself on a TI or 9640 system.

Writing an effective virus is a tricky task, as you may have noticed from some of the above discussion. On a computer where the standard application is 100K of code, hiding 30K of code to implement a virus may be a pretty simple task. On a 99/4A (or even 9640) where the standard application size is closer to 16K it is nearly impossible to find enough room in memory to store both a useful application to hide the virus in, as well as room for the virus itself.

The point of all this discussion is to convince you that a virus attack on your system is far from likely. Now that you are relaxed, here comes the other half. It is a really simple matter to write a program that when run will attempt to initialize your floppy, RAM, and hard disks. We're talking 30 minutes work. Thus you should exercise some caution. The most likely source of viral software (what a term...) is from BBS's. Beware of programs that sound too good to be true. If you run a program which proceeds to start doing strange things, stop the thing. Turn off the power. When first running software from a BBS it is a good idea not to keep any unrecoverable files on-line. If you have a hard disk you should back it up on a regular basis. If you find a file that you believe is a virus of some sort, immediately let other people know so that they can avoid any unpleasant surprises.

We don't have as much to worry about as many other computer users, but that is no reason not to be a bit careful. If you have any questions on the subject, let me know.

## A STUDENT' SATELLITE COMPUTER

by Dr. Roy T. Tamashiro from St. Louis Computer Bridge - Apr '87

Terrilyn Morris has become a "star" in her eighth grade class. She brings a computer to school everyday. No, it is not the TI-99/4A, which she has loved using for school work in the last several years. She especially relies on the TI for doing her writing assignments. She seems so attached to her TI that she probably would not part with it for anything...except maybe if she could get Bruce Springsteen's autograph.

The computer Terri carries around with her is a Tandy Model 102 Portable Computer. It is about the size of a small notebook and fits easily in her backpack. It runs on batteries, but she also carries a power adapter to use when she can plug it in because that will keep the batteries from dying sooner. The Model 102 has 24K of RAM, and that is just enough to store a day's worth of notes she takes in class and in the library.

Terri's teachers and her classmates are really impressed when she takes out the Model 102 in the social studies class or the biology class, and she starts typing as the teacher is explaining some new material on the board. She can take just as much notes on it as the other students writing on paper. Actually, she seems to write more quickly than the others, even though she is not a fast typist. This is because the word processor built into the computer allows her to do things like "copy text" and cutting and pasting very quickly and neatly.

Mr. & Mrs. Morris, Terri's parents, are pleased, but they were not sure it would turn out like this. They were worried that Terri's classmates would cast her as a snob or an "egghead" by taking notes on a computer. They were worried too about a school rule that electronic equipment like Walkmans and boom boxes were not allowed. So before they permitted Terri to take the computer to school they phoned the school, and discussed their concerns with the principal and the teachers. Both the principal and the teachers were reassuring. They said it was fine for Terri to bring the computer to school and that they would observe what happened and inform them if any problems came up.

When Terri gets home, she connects the Model 102 to her TI using RS-232 cable and sends all her notes to a disk in the TI. Later she loads her notes into TI-Writer word processor and does all the editing she needs to do. She "merges" the day's notes with the notes she took on

previous days, organizes them according to the study units and saves them back to the TI disk. From time to time she gets a printout of her notes. She uses the printout to study for tests. She says it is much easier to study from typed notes than from handwritten notes.

Some of Terri's friends also think it is easier to read and to study from printout notes. Several have secretly offered to pay her a dollar for a copy of her printed out unit notes. Terri is not sure this is right, so she hasn't collected money from them, but she has let them study from her notes when she's not using them.

Terri is most thrilled about how much time she saves when she does research reports. When she goes to the library, she types information from her sources like reference materials, books and magazines into her Model 102. When she gets home, she transfers the file into TI-Writer like she did with class notes. She now has the information ready to create her report. She need not retype the notes she took at the library as her classmates must do. Even her friends who have word processors at home, must take notes by hand in the library, then retype their notes into the word processor. Terri is a step ahead of them, too.

In the last month, two other students in Terri's school have started to bring Model 102 portable computers to school. Terri, her teachers, and her parents are delighted to have stimulated a new approach to studying in the school.

If you would like to set up a satellite computer system like Terri did, or if you would like to help a student to do so, you will need the following equipment: TI-99/4A Computer with 32K Memory Expansion, RS-232, at least one disk drive, printer and cable, Radio Shack/Tandy Model 100, 102, or 200 portable computer, and a standard DB-25 RS-232-C cable. The necessary software (word processor and communications) for the Model 100/102/200 is built-in the computer. For the TI, a communications software, such as Terminal Emulator II, Fast-Term or 4A-Talk, and word processor like TI-Writer are required. To transfer files between the Model 100/102/200 and the TI, connect them with the RS-232 Cable, match the parameters on both communications software and use the normal commands for uploading and downloading text (ASCII) files on the two computers.

## DAFFY DICTIONARY & A REALIST'S COMPUTER GLOSSARY

*The following is a combined effort from HOCUS (Milwaukee Area Users Group) August '85, Tacoma 99'ers User's Group, CIN-DAY Users Group, Tiny Tim of TIMES newsletter Autumn '87, Spirit of 99 Jan'88, and Howie Rosenberg - Topics - LA 99ers May '88.*

AMPS.....	Little creepy crawlies	IMPEDANCE.....	Brat desperately needing bathroom break
ARC.....	Welding invented by Noah	INFRA RED.....	American spy in Moscow
ARRAY.....	A quick way to lose track of stored tabulated data	ION.....	Device to remove wrinkles
ASSEMBLY LANGUAGE.....	Very complicated way to crash your system	JOULE.....	Gift from a rich uncle
BASIC.....	Computer language used for generating error messages	KILOVOLT.....	Only volt on ten most wanted list
BETA TESTER.....	A friend of the author who wants a free copy of the new program	LET.....	Reserves space inside the computer, as in "Room to LET"
BETA TESTING.....	Process of running a new program once to see if it does anything	LOAD LINES.....	Monday morning wash
BUG FREE.....	Does not lock up the console most of the time	LOGARITHM.....	Dancing on logs
BUS BAR.....	Mobile cocktail lounge	MES.....	Sometimes nickname for Margaret or Megan
CALL CLEAR.....	Blanks the screen ready for the next error message	MICROFARAD.....	Son of deposed Egyptian ruler
CALL SOUND.....	Laborious method of generating music with wrong notes	MINI-MEMORY.....	Yes, except the price
CAPACITOR.....	One who can hold his liquor	MHO.....	Asking for seconds in Alabama
COAXIAL.....	2 engineers fired simultaneously	NEGATIVE CHARGE.....	Poor credit risk
COMMUTATOR.....	One who drives to the city each day	NEXT.....	Increments a counter, used in Ludo
CONDENSOR.....	Writer for Reader's Digest	NUM.....	Try a softer chair
DATA BASE PROGRAM.....	TI talk for another mailing list	OHM.....	House in England
DEF.....	Used in combination with other words by programmer's wife	OUTLET.....	Going away party for engineers
DEGAUSS.....	To remove a bandage	RAM.....	Male sheep with a good memory
DETECTOR.....	Private Eye	STATE OF THE ART.....	"The best I can do"
DETENT.....	A small outdoor canvas shelter	THE LATEST REVISION....	If you wait until tomorrow, you can get a later one. Wait long enough and you may get one that works. In any case, you can get updates sometimes even cheaper than you paid for the original.
DIODE.....	Eulogy in poetic form	USER FRIENDLY.....	The documentation (if any), and the menus (if any) are not written in Hindustani or Greek.
ELECTRODE.....	Automated highway	USER SUPPORT.....	The process of users supplying enough cash to support a programmer. "They owe me support 'cause I support them." (An interesting use of two meanings of support.)
EXTENDED BASIC.....	Similar to BASIC, but with more error messages	WELL DOCUMENTED.....	Comes with either a piece of paper, with writing on it or a disk file containing some text. (In the latter case, instructions for printing are in the disk file.)
FARAD.....	Deposed Egyptian ruler		
FOURIER.....	Superseded by fiveier		
GAMMA.....	Short for Grandmother		
GAUSS.....	Singular for geese		
GERMANIUM.....	Solid state pink flower		
HERTZ.....	Medical term for pain; coincident with DEGAUSS		
I/O.....	Meaningless except when preceded by EIE!		



## BUYER'S GUIDE

The following information is provided as a service to our members. The items listed are for sale by the individuals indicated and are subject to prior sale. The group assumes no responsibility for items listed and makes no claims as to their condition or interface capability with the TI-99/4A computer. Only computer related items will be accepted for publication in this newsletter.

Oldies but Goodies Part 1 \$5 (cassette), Ghost Town Adventure (cassette, module not included) \$8; Modules: Car Wars \$4, Chisholm Trail \$4, Hunt the Wumpus \$4, The Attack \$4, Tombstone City \$5, Munch Man \$5, Football \$6, Multiplication \$7. MANUALS INCLUDED!!! Call Kyle Sikorsky 743-7378 (Weekdays 5pm-10pm or Weekends 8:30pm-10:30pm).

TI-99/4A Console \$35 o.b.o. Call Ejaz 623-8257.

TI-99/4A Console, TI Joysticks, Thermal printer, Cassette Recorder, 12" TV(BW), all for \$125 o.b.o. Call Paul Garrison 747-3884(Days) or 573-0572(Evenings).

TI-99/4A Console & Home Budget Management \$35. Call Darlene Webb 885-0347.

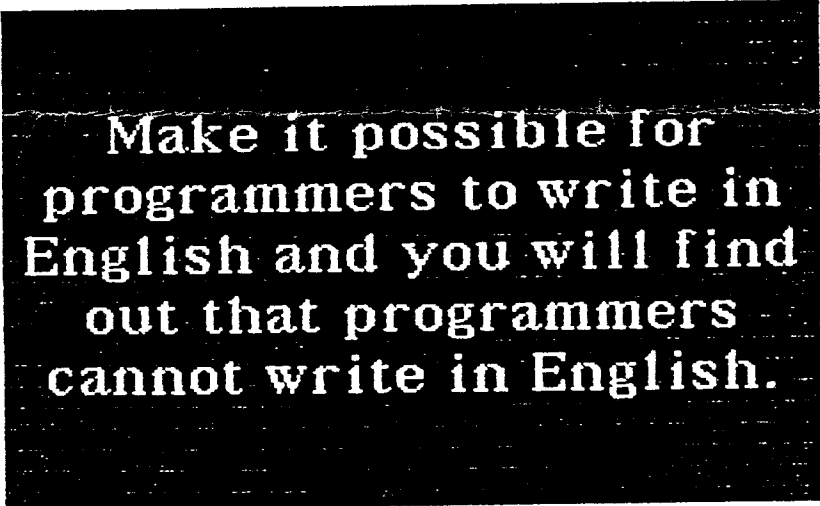
TI-99/4A Console (new still in box) \$40. Modules: Chisholm Trail \$3, Zero Zap \$6, Music Maker \$7, Terminal Emulator II \$7, Burgertime \$5, MicroSurgeon \$8, Personal Record Keeping \$4, Personal Report Generator \$4, Disk Manager I \$3, Alpiner \$5, Navarone's Disk Fixer \$5, The Attack \$3, TI Logo \$8, Personal Real Estate \$4, Car Wars \$3; Books: The Best of 99'er \$10, The Best of TI 99/4A Cartridges \$2, The Best Texas Instruments Software \$2. Call Ed Hallett 889-5525, all offers considered.

Teknika 13" Color Monitor Model MJ-22, RGB/Composite, TI compatible, not Geneve compatible, used 6 months, \$175, Box Car RS232/P10 Port Stand Alone \$40, TI Silent 700 Terminal Printer (uses thermal paper - 8+ rolls included) \$50, Home Budget Management \$3, Terminal Emulator II \$7, Personal Report Generator \$4, Personal Record Keeping \$4, Early Reading \$7, Personal Real Estate \$4, Munchman \$3. Call Jack or BJ 747-5046.

Volkmodem 300 BAUD - Two switches: Talk/Data and Half/Full Duplex - Like new \$35. Call Leon Dorros 297-0965.

TI-99/4A Console \$35. Call John Hedspeth 885-0859 or 745-7253 (work).

From SouthWest Ninety-Niners: Ribbons for Star Micronics NX-10 Printer \$4.50ea., "Best Newsletter" \$5ea., Overlays for TI-99/4A Computer, Cassette Cables \$3, Personal Record Keeping \$4, Tax Investment/Record Keeping \$3, Tombstone City \$3, Home Budget Management \$3, Addition \$5, Subtraction \$5, Multiplication \$5, Books: User's Guide to Texas Instruments Computer, Software & Peripherals \$2, Using & Programming the TI-99/4A \$6, Introduction to Assembly Language for the TI Home Computer by Molesworth \$4. Call Jack or BJ 747-5046.



Make it possible for  
programmers to write in  
English and you will find  
out that programmers  
cannot write in English.

From John Calvin Travers Disk Project