

# VAST NEWS

Monthly Newsletter of the VAST Computer U. G.

Volume 5 Number 7

July 8, 1989



## TI Local and World News

### 1989/1990 Meeting Dates Confirmed

We have now received confirmation from the City of Tempe Parks & Recreation Department that we have reservations for our meetings thru June of 1990.

As requested, we will be meeting from 9 a.m. to 12 Noon on the 2nd Saturday of each month in the Pyle Adult Recreation Center. There are no odd months this year so it should be easy to make plans to attend. The specific meeting room may change from month to month but there is always someone around to tell you where to go. The other nice thing is that a 3 hour block of time has also been reserved for every meeting which means no "you have to be out by 11 a.m." last minute kind of stuff

like last year. Reported in error last month was that 1 of the meetings was not on the 2nd Saturday. They are ALL on the 2nd Saturday.

### A Look at MICROpendium

by Mike Marfisi

In the June issue, look for an article by Regina on using speech on the TI; an Extended BASIC article about screen dumps, how they work and how useful they can be. Also included is a simple type in version of one. The 5 part series on loaders, modular programming, linkages and overlays continues with a look at overlays with Editor/Assembler and BASIC. Charles Kirkwood presses on with his series on the trials of a c99 beginner.

Here is a goodie for you. Ever wish you could take your TI with you to the lake? Listen up... beginning this month, Jan Joel Janowski starts a 3 part series that will explain just how it is possible

to turn your TI into a lap top portable complete with 512K RAMdisk inside. Also a parallel port for printer and an 8 bank "supercart," and it is all battery run. Check it out! This may be the downfall of every TI widow. Now he can take it with him!

The Assembly program this month is a CHARA1 creation program. It allows you to change the CHARA1 file on any program that uses one. The CHARA1 file is a character definition file used in a number of Assembly language programs and is needed when a program is written for display in 40 columns on your screen.

Another type-in program worth checking out will print a full year calendar on a sheet of paper.

### Software Certification by Texaments

With so many software support programs appearing now for TI-

Continued on page 8. . .

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V A S T U.G. BBS  
NEW Phone Number  
(602) 242-9868

# VAST USER GROUP INFORMATION

The **VAST USERS GROUP** is a support group for Home Computer users. We primarily support the TI-99/4A Home Computer and compatibles, but all computer users are welcome. We will be meeting at the Pyle Adult Recreation Center in Tempe on the 2nd Saturday of the month (July 8). In the coming year, the meetings will ALL be on the **SECOND** Saturday of the month. A two month calendar showing the meeting dates for August and September is included on the Editor's page so you will know when the next meetings will be. The meetings will start at 10:00 a.m. and continue until 11:00 a.m. with socializing starting at 9:00 AM. Please see the address page for additional meeting information. The yearly membership fee is \$15.00 and now includes the newsletter mailed to your door!

All meetings are open and anyone may attend. Only dues paying members may vote in elections and obtain programs from the Users' Group Software Library.

\*\*\*\*\*

## CURRENT OFFICERS

### President

Mike Grogan.....272-4315

### Vice-President

Bill Wedmore.....998-1821

### Secretary

Mike Marfisi.....491-1552

### Treasurer

Mike Marfisi.....491-1552

### User Group Librarian

Stephanie Bannon..841-5058

### Newsletter Editor

Jim Ely.....921-3375

### BBS SysOp

Sue Miller.....375-8456

\*\*\*\*\*

The date that appears in the upper right hand corner of your mailing label is your newsletter subscription expiration date. Address renewals to the return address on page 10. Newsletter *O N L Y* membership is available for \$12.00/year, First Class Mail.

The User Group's BBS is in operation 24 hours a day. Contact it at (602) 242-9868. There are 4 message bases, a TI specific download section, and a lot of interesting conversation and information available here so why not give it a try.

Deadline for submission of articles or advertising for the Newsletter is the last Saturday of every month. Articles may be submitted in any form, however, the preferred method is by phone transfer directly to the Editor.

\*\*\*\*\*

Advertising rates are as follows:

### COMMERCIAL:

Full Page

\$10.00

Half Page

\$7.00

Quarter Page

\$4.00

### PERSONAL:

Four lines,

30 Characters/line

\$1.00

\$.20 per line over four.

All rates are for *ONE* issue only!

\*\*\*\*\*

Programs are available from the **USERS' GROUP LIBRARY** at the following rates:

SS/SD Disk \$2.00

DS/SD Disk \$4.00

If copying of documentation is required, it will be at the rate of \$.10 per page. If the User Group supplies the disk, please add \$1.00 to the above charges. An exchange program for free programs is also in effect. Please contact the librarian for further information. A complete list of what is in the library is available on 2 disks free of charge if you supply the disks or for \$1.00 per disk if the User Group supplies the disks.

**DISCLAIMER:** Information in this newsletter is gathered from other user group newsletters from around the world and original articles by members of our user group. The information is believed to be correct and accurate as published. Where possible, original sources and authors are stated. Errors should be brought to the attention of the editor of this newsletter. This user group is not responsible for programs and construction projects tried by its members or others. YOU try them at your own risk. Permission is hereby granted to other user groups to republish articles appearing in the *VAST News*.

## The Secretary's Slate

### MINUTES

#### VAST USER GROUP

June 17, 1989

The June meeting of the VAST USER GROUP was held on Saturday June 17th at the Pyle Adult Recreation Center. We were called to order at 10 a.m. by President Mike Grogan.

The minutes of the May meeting were read and accepted. The Treasurer reported a balance of \$528 in our account.

Earl Bonneau and Stephanie Bannon reported that the club library had been transferred and was available for use by the membership.

Sue Miller reported as the BBS Committee that the board is up and running at its new location. There have been a few problems which may be solved when the club modem is installed this weekend.

A motion was made and seconded that the club hold its 2 annual picnic/swap meet. Stephanie has again volunteered to act as the committee chairperson.

There being no further business, the meeting was adjourned at 10:15 a.m.!!?

Ralph Rees then did a demo of several programs to make figures on a plotter.

Respectfully submitted,

Mike Marfisi, Secretary

### COMINGS AND GOINGS

-----

Well here we are at the mid-point of 1989. Hope everyone is looking forward to a great summer. If anyone has discovered any new ways of staying cool at 115°, please let me know.

Although we had no new members come on board this month, we should point out that our own Sue Miller, who was an "other" member, has now aquired a TI system and is learning the joys of TI-ing. So I suppose we can look at that as a gain.

Due for renewal this month are:

Sue Miller @ \$6.25

Stephanie Thomas @ \$6.25

We are still waiting to hear from:

Erik Anderson  
Gerry Kennedy  
Wallace and Hazel Knight  
Bobby McCray

Last call for:

Earl Bonneau  
James Cronk

Sad to say, as of July 1 we must say farewell to:

Terry Naddy  
David Gray  
Bill Larkin  
Harold Stahl  
Harold Thomas

Also we are sad to say that Ike Van Kampen has left the area. Ike has moved to Texas in order to be closer to "The Ranch". No really, he has been transferred by his employer. I am sure we will hear from Ikey on the BBS often.

We will all miss you guy!

Updated membership lists are always available to members at each meeting.

### EDITORIAL...EDITORIAL...EDITORIAL

by the Group Secretary

About five years ago, a group of folks purchased and began using a wonderful little home computer manufactured by Texas Instruments. This machine, introduced to us by none other than Bill Cosby was the TI-99/4A. It opened up the world of computing to many of us.

This group of TI users felt that it would be a great idea if we could get together with others having the same interest to share our knowlege and experiences; to learn from each other so that we could better utilize this little wonder. Thus was born the Valley of the Sun TI User Group to be known as VAST 99.

All went well for several years. We grew. We made new friends. We all learned more about our TI's. The group purchased a system and began operating a bulletin board for our members. Now we had a source of information as close as our phone. We could share information "on-line." TI programs were made available for downloading and sections were created where members and other interested TI-ers could chat.

*Continued on page 4 > > >*

**EDITORIAL.....**  
*Continued from page 3*

Soon some of our members found a real need for larger and more sophisticated computers. As their enthusiasm for the new machine increased, they began to lose interest in the TI and started drifting away from VAST. Some of our members were alarmed by this trend. After all, they had formed some good friendships within this group and did not want to see those bonds broken. They felt that something had to be done to keep those who had gone on to other computers from leaving. They felt that since Texas Instruments was no longer making the TI that the membership in VAST could do nothing but decrease. An idea was formed. If we were to open up the group to more than just TPer's, make it a "generic" group, maybe we could attract new members who used other than TI's and keep those of us who were moving away from the TI.

These people were able to convince a majority of our members that the change would be in the best interest of the club. Dispite dire warnings from several other user groups around the nation who had gone through the same situation, a vote was taken. The VAST 99 User Group became the VAST User Group.

Now, more than a year later, it is time to take stock. Did we do the right thing? Did the change accomplish the goal we had hoped it would? Let's look at the record...

**HAS THERE BEEN AN INFLUX OF NEW MEMBERS WHO OWN AND USE COMPUTERS OTHER THAN THE TI?...NO.** The overwhelming majority of the people who have joined VAST since the change have been TI users.

**HAS THE CHANGE STOPPED THE LOSS OF OLD TPER'S WHO HAVE MOVED ON TO OTHER COMPUTERS?...NO.** A great many of dedicated and gifted TPer's have totally given up and left the group because there is no longer anything here to keep thier interest.

**HAS THE INCLUSION OF OTHER COMPUTERS RESULTED IN ANY INCREASE IN THE PARTICIPATION OF THE "OTHER" USERS? ...with the exception of the recent change in the BBS, the answer here is also NO.** Look back at the pages of this very publication. Can you remember the last time you saw anything contributed by the "other" users about "other" machines? When did you last read a "generic" item contributed by anyone? I found one in a year. The newsletter is written by and for TPer's.

**HAS THE CHANGE PRODUCED ANY RESULTS? ...YES.** We have had a year of bickering over every little thing. We have spent more time at each other's throats than we have running a user group. How many EX members do you know that left because of the fighting?

I think that it is a fair statement to say that our noble experiment has been a failure! We have been existing under the delusion that expanding our scope and trying to serve a larger more generic group of users would help us survive. We were wrong! In trying to serve everyone, we are serving no one!

It is time to return to our original goal; to serve the users of the TI-99/4A and its compatibles!

I know this is sure to mean that we will lose some members who feel that we can no longer serve their needs. That is the price we must be willing to pay. People will come and go for many reasons. What is better a group of 50

bodies accomplishing nothing or 10 to 15 dedicated users who will drive 1 mile or 30 miles to get together with folks of like mind to learn and contribute?

Let us refocus our full attention to the purpose for which this group was formed...the education and support of the TI-99/4A and its compatibles. Let's get back to basics..TI BASICS!

Please plan to attend the July 8th meeting. On that day a motion will be introduced that if passed will return this group to the VAST 99 TI USER GROUP.

We want the bickering to stop! We want to make this a productive TI group. We want to move forward not stand still.

**WE WANT OUR USER GROUP BACK!**

Mike Marfisi



**VAST User Group**  
**BBS**  
**NEW BBS Software**  
*Easier to Use!*  
**NEW Telephone Number**  
*(602) 242-9868*  
**NEW SysOp**  
*Sue Miller*  
**Call Often!**

# COMPUTER TUTOR

## ELEMENTS OF BASIC

part 23

by, Dave Howell

Courtesy the Erie 99er User Group Newsletter

### CALL SOUND (Conclusion)

The last two installments of CALL SOUND statement in this column discussed the various characteristics and the vast variety of sounds that can be created. The remainder of this presents a series of programs which will demonstrate the multiplicity of sounds available to the adventurous among us.

This program will play the "C" scale:

```
10 FOR I=1 TO 8
20 READ T
30 CALL SOUND(1000,T,1)
40 NEXT I
50 DATA 262,294,330,349,392,
440,494,523
60 END
```

To play the "G" scale, change line 50 to read:

```
50 DATA 392,440,494,523,587,
659,740,784
```

This program plays a familiar tune:

```
10 READ N
20 IF N=999 THEN 100
30 CALL SOUND(500,N,0)
40 GOTO 10
50 DATA 262,262,392,392,440,
440,392,392,349,349
60 DATA 330,330,294,294,262,
262,392,392,349,349,330
70 DATA 330,294,294,392,392,
349,349,330,330,294
80 DATA 294,262,262,392,392,
440,440,392,349,349
90 DATA 330,330,294,294,262,
999
100 END
```

How about some noise!

```
10 CALL SOUND(500,-2,2)
20 CALL SOUND(500,-1,2)
30 GOTO 10
40 END
```

```
10 FOR I=-3 TO -1 STEP 1
20 CALL SOUND(1000,I,2)
```

```
30 NEXT I
40 FOR S=-7 TO -5 STEP 1
50 CALL SOUND(1000,S,0)
60 NEXT S
70 CALL SOUND(2000,-1,1)
80 END
```

Guess what this sound is, kids!

```
10 CALL SOUND(1000,-4,2)
20 END
```

```
10 CALL SOUND(100,-3,2)
20 CALL SOUND(100,-2,1)
30 CALL SOUND(100,-1,1)
40 GOTO 10
50 END
```

```
10 FOR T=110 TO 4000 STEP 30
20 CALL SOUND(-100,110,30,110,30,T,30,-4,0)
30 NEXT T
40 CALL SOUND(-100,110,30,110,30,T,30,-4,0)
50 END
```

```
10 REM CREATE YOUR OWN MULTIPLE SOUNDS
20 CALL CLEAR
30 PRINT "HOW MANY TONES DO YOU WANT? (1 TO 4)."40 PRINT "IF YOU SELECT 4, THE 4TH TONE WILL BE A NOISE."
50 INPUT N
60 ON N GOSUB 100,200,300,400
70 INPUT "ENTER THE DURATION (1 TO 4250)":D
80 ON N GOSUB 500,600,700,800
90 GOTO 20
100 INPUT "ENTER TONE(110 TO 11000)":T1
110 INPUT "ENTER VOLUME FOR THE TONE(0 TO 30)":V1
120 RETURN
200 INPUT "ENTER FIRST TONE(110 TO 11000)":T1
210 INPUT "ENTER VOLUME FOR FIRST TONE(0 TO 30)":V1
220 INPUT "ENTER SECOND TONE
```

Continued on page 6 > > >

COMPUTER TUTOR continued  
from page 4.....

```

":T2
230 INPUT "ENTER VOLUME FOR
SECOND TONE":V2
240 RETURN
300 INPUT "ENTER FIRST TONE(
 110 TO 11000)":T1
310 INPUT "ENTER VOLUME FOR
FIRST TONE(0 TO 30)":V1
320 INPUT "ENTER SECOND TONE
":T2
330 INPUT "ENTER VOLUME FOR
SECOND TONE":V2
340 INPUT "ENTER THIRD TONE"
:T3
350 INPUT "ENTER VOLUME FOR
THIRD TONE":V3
360 RETURN
400 INPUT "ENTER FIRST TONE
(110 TO 11000)":T1
410 INPUT "ENTER VOLUME FOR
FIRST TONE(0 TO 30)":V1
420 INPUT "ENTER SECOND TONE
":T2
430 INPUT "ENTER VOLUME FOR
SECOND TONE":V2
440 INPUT "ENTER THIRD TONE"
:T3
450 INPUT "ENTER VOLUME FOR
THIRD TONE":V3
460 INPUT "ENTER NOISE(-1 TO
-8)":N4
470 INPUT "ENTER VOLUME FOR
THE NOISE":V4
480 RETURN
500 CALL SOUND(D,T1,V1)
510 RETURN
600 CALL SOUND(D,T1,V1,T2,V2
)
610 RETURN
700 CALL SOUND(D,T1,V1,T2,V2
,T3,V3)
710 RETURN
800 CALL
SOUND(D,T1,V1,T2,V2,T3,V3,N4
,V4)
810 RETURN

10 PRINT "TO PLAY A CHORD, E
NTER"
20 PRINT
30 PRINT "C, D, E, F, G, A,
OR B."
40 PRINT

```

```

50 PRINT "THEN PRESS 'ENTER' "
60 READ T,V
70 READ C,D,E,F,G,A,B
80 READ F1,G1,A1,HD,C1,HE,D1
,F2
90 INPUT C$
100 IF C$="C" THEN 170
110 IF C$="D" THEN 190
120 IF C$="E" THEN 210
130 IF C$="F" THEN 230
140 IF C$="G" THEN 250
150 IF C$="A" THEN 270
160 IF C$="B" THEN 290
170 CALL SOUND(T,C,V,E,V,G,V
)
180 GOTO 90
190 CALL SOUND(T,D,V,F1,V,A,
V)
200 GOTO 90
210 CALL SOUND(T,E,V,G1,V,B,
V)
220 GOTO 90
230 CALL SOUND(T,F,V,A1,V,HD
,V)
240 GOTO 90
250 CALL SOUND(T,G,V,B,HD,V)
260 GOTO 90
270 CALL SOUND(T,A,V,C1,V,HE
,V)
280 GOTO 90
290 CALL SOUND(T,B,V,D1,V,F2
,V)
300 GOTO 90
310 DATA 1500,1
320 DATA 262,294,330,349,392
,440,494
330 DATA 370,208,466,587,554
,659,622,740

```

d.h.

This Newsletter PRINTED compliments of



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# Page Pro 99

## The Page-Making Software for your TI-99/4A or Myarc Geneve 9640

■ **Page Pro 99** is a remarkable program that does one thing and one thing very well - it lets you compose a 66 line page full of text, graphics and lines quickly and easily. There are no formatters, no cryptic commands or functions - just a "what-you-is-what-you-get" screen, and the ability to paste in pictures and type text.

■ **Page Pro 99** will allow you to put up to 28 pictures of any size or shape anywhere on the screen. It will let you type text in a complete large font and a small font of your choice (both with full upper and lower case, along with numbers and symbols), and draw lines anywhere you need them. You can easily create forms, advertisements, flyers, maps, graphs and charts, and even labels, certificates, signs, reports and newsletters. After you've created your page, you can print it out on your Epson or compatible printer in any of three densities, from "rough draft" up to reproduction-quality.

■ **Page Pro 99** has many features to make producing your page as painless as possible. You can literally type in any direction (up, down, left or right), you have a host of text editing functions (insert/delete characters and lines), you can window around the page with ease using the standard TI-Writer keys, you can load in pictures and get rid of them at your option, you can read in a text file and paste it on the page, save a Page-Pro page as a text file, load in new fonts or line patterns, and more.

■ **Page Pro 99** also comes with a collection of artwork and fonts, as well as utilities to convert TI-Artist fonts and instances into Page Pro 99 format, as well as make 2 column justified text for use in Page Pro 99 from your TI-Writer files.

■ **We don't call** Page Pro 99 a "desktop publishing program", but it lets you do more, more easily than many programs that claim to be. Page Pro 99 is so capable we did the manual entirely with the program, TI-Writer and standard TI-Artist fonts and instances.

■ **Page Pro 99** requires 32K, disk and the Extended BASIC, TI-Writer or the Editor/Assembler module, and an Epson or compatible printer (Star, Panasonic, etc.). Some utilities require Extended BASIC. Complete documentation included

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(703)255-3085**

**News**

*Continued from page 1...*

Artist and TI-Base, Texaments has announced a certification program that will test the compatibility of the different programs and software available. When an item is found to be 100% compatible with one of the above mentioned programs, Texaments will issue camera ready artwork for "approved" emblems to the author or publisher which can be included with the software items. An author or publisher can obtain certification testing free by Texaments in about 4 to 6 weeks. To do so, send the software item to Certification Department, Texaments, 53 Center Street, Patchogue, NY 11772.

**World's Faire Scheduled**

No, not the one you may be thinking of, but the "World's Faire of TI Shows," TI International Expo '89. It is sponsored by the Mid-Atlantic Ninety-Niners (MANNERS) and scheduled for September 16, 1989 at the Howard Johnson Inn in Alexandria, Virginia. Had you going there for a second, didn't I? For more information on this, contact MANNERS, TI International Expo '89, P.O. Box 40005, Rockville, MD 20850 or phone (301) 340-7179.

More information on upcoming Faires as their dates approach.

**New EPROM Available for Mechatronics 80-Column Card**

A new upgraded EPROM that corrects several "bugs" in the original Mechatronics EPROM is being offered by Barry Boone for \$20 + \$2 for shipping and handling. It comes with extensive

documentation on using the card to its fullest. To order or for more information, contact Barry Boone at P.O. Box 1233, Sand Springs, OK 74063 or phone 8-10 p.m. CST weekdays or 10 a.m.-10 p.m. CST weekends (918) 356-4648.

There are lots of other little bits-O-tid in this issue. If you don't already subscribe, why not try it.

Compiled by Mike Marfisi & Jim Ely

**From the Editor's Desk**



**IN THIS ISSUE...**

The series we have been doing which is called Computer Tutor by Dave Howell is fast coming to a conclusion. There are 2 or 3 more in the series. This month is the conclusion of the 3 part series on the CALL SOUND statement and several sample programs to demonstrate its various uses. That starts on page 5. The only other thing in this issue is an over-view of the new Asgard Software Page Pro 99 page making program. That is on page 9. Because of a short deadline (three weeks instead of the normal four), and the somewhat lengthy Editorial on pages 3 and 4, that is all I have for you this month. I'll try to make it up next month.

**UPCOMING MEETINGS...**

Here is the calendar for the next 2 months.

AUGUST							1989	
SUN	MON	TUE	WED	THR	FRI	SAT		
		1	2	3	4	5		
6	7	8	9	10	11	12		
13	14	15	16	17	18	19		
20	21	22	23	24	25	26		
27	28	29	30	31				

SEPTEMBER							1989	
SUN	MON	TUE	WED	THR	FRI	SAT		
						1	2	
3	4	5	6	7	8	9		
10	11	12	13	14	15	16		
17	18	19	20	21	22	23		
24	25	26	27	28	29	30		

**TI-FEST WEST...**

This event is scheduled in Tucson in February, 1990. We have been asked if we want to help in any way or be a part of the FEST. I think this is a good opportunity for us to get acquainted with our Southern neighbors and do something productive with our User Group. This should be brought up at this meeting and a dialogue opened with the Tucson group as soon as possible to see how we can help. Any comments????

**VAST BBS Changes Software**

The VAST User Group has recently changed to NEW BBS software which is called WBBS. It has caused quite a commotion among BBSers who visit the board infrequently. This software is, in reality, a lot easier to use if you will just take the time to give it a chance. It is a lot more flexible and has several new features. Call and see for yourself.

That's it for now. See you at the meeting.

Jim Ely, Editor,  
VAST News



# VIEWS AND REVIEWS

## PAGE PRO 99

Asgard Software

Before I begin this essay, let me make one thing perfectly clear. This is not intended to be a "review" of Asgard's Page Pro 99. I just received the program and I am not qualified at this early stage to pass judgement. So keeping that in mind, let's take a look at **Asgard Software's PAGE PRO 99**.

I got my copy of *PAGE PRO 99 (PP99)* in the mail last week and tore into it for the evening. The package comes with 2 SSSD disks and 2 books of instructions. The first disk contains the programs and the 2nd disk is a tutorial entitled examples.

*PP99* is a series of programs designed to allow a user to create a complete 8 1/2" by 11" page at one time. It allows you to mix text with up to 28 pictures on a single page. The pictures can be any purchased from Asgard in a series of 5 disks or any TI-Artist instance or picture. Read that statement again. What it is saying is that any graphic that can be saved or converted to a TI-Artist instance can be used in *PP99*. That means and Graphix, CSGD or TI-Artist graphic can be used in *PP99*. You have a library of hundreds of pictures.

A user can type text directly to the program or use a favorite word processor to create text and then import that text to the *PP99* page mixing in pictures anywhere on the page. Impressed? There is more. The program is a "what-you-see-is-what-you-get" (WYSIWYG) design. What you create on screen is exactly what will print out on paper... There is still more. Once a page has been created, the user is free to make changes, including moving or changing pictures and changing text fonts. The program allows 3 fonts to be in memory at any one time and will support 2 fonts on the page at a time; a large font for headlines and a small font for text. And remember "WYSIWYG," the font appears on the screen just as it will on paper. The selection of fonts included in the program is rather limited, and one of them is a poor choice, BUT you can again draw from the very extensive array of available TI-Artist fonts, or any font that can be converted to TI-Artist format. There is a size restriction in the fonts that can be used but this should pose no major problem.

Another wonderful feature is the availability of line drawing fonts. Remember my review of Form Maker a few months ago. Well this program does the same thing. It allows the user to draw borders, boxes or

lines anywhere on the page. This is a great means of making forms, stationary, etc.

Let's run through the program. It can be loaded from Extended BASIC, E/A or TI Writer. When booted you are presented with a menu that allows you to choose a version of *PP99* written for the TI-99/4A or 9946. Other choices include several utilities that allow the user to Convert fonts or instances from TI Artist format into *PP99* format. There is also a utility that will convert a text file created on a word processor into a 2 column text file for use on the page created for *PP99*.

If you don't need to use any of the utilities or have finished using them, you select the version of *PP99* for your computer and in about 5 secs are brought to the title screen. Hitting enter gets you into the meat of the work space. This program uses the window concept. That is, your screen is a part of a full page. Each window includes 12 lines by 31 columns. A full page is equal to 66 lines by 60 columns. The bottom quarter of the screen is a status line that tells you exactly where you are on the page, there is space to input file names for importing or saving pages, fonts pictures, etc. It tells you in what direction the cursor is traveling (you can type up, down to the right of left) and whether or not your pictures are turned on or off.

The program allows full word processor capabilities. It is like using TI Writer with pictures. You just type in your text. When you want to add a picture, just call it up from your work disk and drop it anywhere on the page you want it.

When all your work in complete you can save your page to disk for future use or you can print it out. The print option allows you to print in regular density, double density, or, if your printer will allow, triple density.

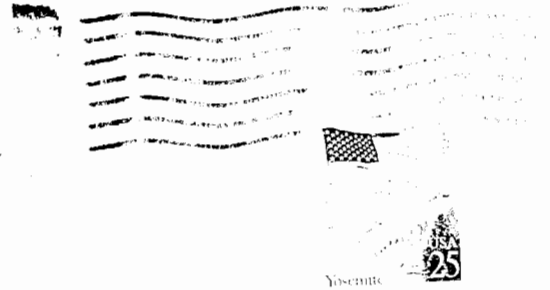
I have been playing with this program for about a week. It is simple to use, impressive in scope and just plain fun. About the only problem I've been having is getting text created on TI-Writer to columnize correctly, but I am sure a few more re-reads of the docs and a little more practice will solve this problem.

I will add this program to our list of upcoming demos so we can all take a look at it in action.

Comments by Mike Marfisi



VAST News  
c/o 2120 S. Los Feliz Dr.  
Tempe, AZ 85282-2905



**FIRST CLASS MAIL**

***MEETING NOTICE***

**July 8, 1989**

Pyle Adult Recreation Center  
655 E. Southern Avenue  
Corner Rural Rd. and Southern Ave.  
Tempe, Arizona

Open - 9 a.m. — Meeting - 10 a.m.

***ALL ARE WELCOME!!***

**TO:**

RALPH REES  
18815 N. 13TH AVE.  
PHOENIX, AZ 85027

12/89

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July, 1989