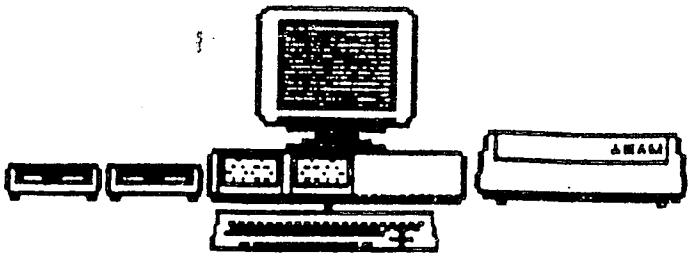
METRO ORLANDO ADAM USERS GROUP



JUNE, 1989

Dear Fellow ADAMite,

As usual, there's a whole lot more news than there is space to print it. What's an amateur editor to do?

As I promised, this issue was planned around your response to my request for input. If you are particularly interested in something that is not represented here, do us both a favor and let me know what it is!

May's meeting was the LONGEST we've had in a long time. We had a lot to discuss, and we had plans to make. I hope YOU will make plans to attend the June meeting, because IT IS TIME TO ELECT OFFICERS!!! (It sort of snuck up on us while we were looking elsewhere.) Please come out, if you possibly can, and VOTE.

The June meeting is:

SUNDAY JUNE 11 1:45 P.M.

The address, as always, is on the back cover.

I'm going to keep this short so that I can squeeze in something Rich Lefko sent us from ONLINE, the magazine distributed to Compuserve clients. WE knew ADAM was a collector's item, but when did THEY figure it out???

See you Sunday!
-Pat

Computer Junk Valuable Someday?

Those old personal computers and programs that you've long since upgraded could be worth a small fortune.

With the 1980s coming to an end, experts say that symbols of the decade, including Swatch watches, Pee-wee Herman dolls and "Baby on Board" signs, will soon become valuable. Likewise, certain models of the personal computer, born in 1977, may someday go for astronomical prices at auctions. Primitive pre-1980 personal computers from companies such as IMSAI, Cromemco, North Star and MITS may someday be worth a mint. Discontinued computers from the early '80s, including Osborne, Commodore PET, early Kaypros, TI 99/4A and Adam, should also have value. The Mindset, which was highly praised for its design and graphics, is rare but valuable.

Ironically, as a computer becomes obsolete and its used-market value drops, it becomes precious on the collectable market.

Computer games and software could become the baseball cards of tomorrow. The original VisiCalc in its shrink-wrapped box could become as highly prized as a 1906 Honus Wagner card. Programs from companies that no longer exist, such as Sirius, Micro Lab, Synapse, Tronix and Romox, should be valuable. Video game systems, especially discontinued Intellivision, Odyssey II, Vectrex and Astrocade, are worth collecting. *The Odyssey 100*, a dedicated *Pong*-style game from 1972, has historical value as the first home video game.

Early computer magazines also are expected to have some value. In particular, the January 1975 issue of *Popular Electronics*, which announced the Altair 8800, one of the first personal computers, and the premiere issues of *Byte* and *Creative Computing* are worth collecting. Bumper stickers, buttons and junk given at computer shows, including wacky products like the Amiga "Joyboard," a silly controller that was ridden like a skateboard and sold to generate capital to produce the Amiga computer, are collectable.

—Dan Gutman

MOAUG INVITES YOU TO THE 1ST ANNUAL ADAM USERS CONVENTION

"ADAMCON 01"

LAS PALMAS INN * ORLANDO, FLORIDA * OCTOBER 7 - 11, 1989

Join ADAMITES from all over North America as we gather in Orlando for the first ever ADAM users convention. We will have speakers, demonstrations on the latest software and hardware for the ADAM, a Swap Shop, workshops, and more! Whether you've just learned to turn your ADAM on, you're a part time hacker or an ADAM expert this is the one event you won't want to miss!

SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY
Arrival	Breakfast	Breakfast	Breakfast	Departure
	Session I	Session IV	Session VI	
	Lunch	Session V	Lunch	
	Session II	Afternoon	Session VII	
Reception	Session III	Free	Awards Dinner	

One of our featured speakers will be Solomon Swift, author of some of the most popular (and most long-awaited) software ever written for the ADAM! Other speakers will be announced as they are confirmed.

PRIZES! PRIZES! PRIZES!

*Every convention registrant will be eligible to win one or more of many great prizes donated by ADAM suppliers, supporters, and clubs! We will be giving away GoDOS! PowerPAINT! Temple of the Snow Dragon! Hard disk interface! Memory expander! Interface board! Club memberships! Newsletter subscriptions! PD Vols! Many more special prizes to be announced!!!! **GRAND PRIZE** TWO ROUND-TRIP TICKETS ON AMERICAN AIRLINES FROM YOUR HOME TO ANY CITY IN THE CONTINENTAL U S OR CANADA! PLUS: HOTEL! CAR RENTAL! MORE!!*

$179.00
FULL CONVENTION
4 Nites Accom (dbl)
Welcome Reception
Full Breakfast (3)
Lunch (2)
Admission to ADAMCON 01
Awards Dinner

$139.00
SPOUSE/COMPANION
4 Nites Accom (dbl)
Welcome Reception
Full Breakfast (3)
Awards Dinner

$39.00
CHILDREN
4 Nites Accom (w/ parents)
Full Breakfast (3)

(MOAUG will assist in arranging babysitting at a nominal charge if needed.)

AIR: American Airlines is offering a 5% discount off their very lowest fares for people that are flying to ADAMCON 01. All you do is call 1-800-433-7300 and tell the agent the convention star file number is "S04N95". Also ask that the tickets be mailed by appointed travel agency: NEWS Travel. Every ticket purchased through NEWS will earn a contribution that will help defray the cost of the convention.

ACCOMODATIONS are priced per-person with two people sharing a room. For a third or fourth adult in a room, deduct $70 from the full convention or spouse rate as applicable. Up to two children may share a room with parents. Some rooms have king beds but most have two double beds. You may stay extra nites at the special rate of $59.00 per nite per room if you reserve extra nites in advance.

Upon receipt of your registration form we will forward information about area attractions, ticket prices and special tips to help plan your visit!

REGISTRATION FORM

NAME(S) /1/_____ /2/_____

CHILDREN/1/_____ AGE_____ /2/_____ AGE_____

ADDRESS_____

CITY_____ STATE_____ ZIP_____

Add $90 for a single room. If you are traveling alone but wish to share a room, check here [__]. We will try to arrange a roommate.

You will arrive Oct ____ and depart Oct ____ for a total of ____ nights.

Car Rental is available for $89.00 for a compact, $109.00 for a mid-size for 5-7 days. Extra days are $19.00 per day. You want a rental car for ____ days. If you would like to share a rental car check here [__].

SPECIAL ADAM INTERESTS:_____

You are strongly encouraged to bring your extra ADAM software, hardware, cartridge games, books, or other ADAM items to be sold or traded at the SWAPSHOP session. Check here if you are bringing items for SWAPSHOP [__]

If you have any questions call: DAYSPRING TOURS - 407-695-9199

FINAL PAYMENT DUE OCT. 1

TO REGISTER, MAIL A FULLY REFUNDABLE $50 DEPOSIT (PER ADULT) TO: MOAUG c/o DAYSPRING TOURS 1048 WINTER SPRINGS BLVD WINTER SPRINGS, FL 32708

ON WITH THE SHOW

by Rich Lefko

Have you ever seen one of those ads in Computer Shopper or your local news paper announcing a computer show? Ever wonder what they're all about?

I have, and I finally decided to go to one. I admit that, at face value, the phrase "computer show" conjures up some images to mind. I envision sales people, in dresses and ties (respectively) standing like vultures by the front entrance, waiting to descend on me as I walk in, forcing me to look at the new $9,000 Cray XT compatible computer with 10,000 gigabytes of memory!

Was I wrong! I was pleasantly surprised to find it wasn't like that at all! What was it like? Well, it was like a big flea market (swap meet to our West coast friends.) There were tables everywhere with people selling only computer equipment. One could find new and used computers, disk drives, printers, modems, disks, printer products... I could go on and on.

I met fellow ADAMite and official MOAUG member Richard Salvati and his son Rich there. (Hmm... three Richs; sounds like we've got money!) That is a story in itself since we'd never met before. Meeting Rich was just another one of those ADAM fringe benefits! We strolled around, looking at what was for sale and getting acquainted at the same time. We found ADAM game controllers, $3 a pair; memory consoles, $40; used Digital Data Drives, $10 ; and Lo and Behold! We also found Eve Electronic Systems! Eve is now called E.E.S. Companies, and had an 80-column board on display which was extremely well-constructed, as well as a PS-1 power supply which Rich bought at the special show price of $45!

I spoke with the owner of EES, Hank Szretter, who seemed as surprised to hear about how alive the ADAM world is as we were to have run into him. Hank explained that Eve still manufactures hardware for the ADAM, as well as offering disk drive upgrades or disk format conversions. They still have the same phone number and address:

E.E.S. Companies
2 Vernon Street, Suite 404
Framingham, MA 01701
Phone: (508) 650-1872

You can write or call for a free catalog! I had heard Eve was out of the ADAM business and was not answering their phones, but found this to be untrue, especially when I called and Hank himself answered the phone.

Back to the show.

Some of the other bargains to be had: 5.25" DS Verbatim disks, $8.25 for 20; generic disks, 30 for $8.25; 3.5" Verbatim disks, $9.75 for 10; PowerPAINT-size labels, $17.75 for FIVE THOUSAND; disk head cleaners for $4... again, I could go on and on.

So if you should see an ad for a computer show in your area, by all means, go to it!! The prices are great and there are bargains to be had! Better still, plan to meet another ADAMite there, but don't plan to be home early!!

SEE YOU AT THE SHOW!

WAKE UP, PEOPLE!

by Faye Deere, Emerald Coast AUG

Several months ago, we were told that Gary Lawrence at American Design Components wanted to know how many ADAM owners would like new hardware for the ADAM, and asking WHAT we wanted. We told you, in the Computer Shopper magazine, newsletters , and by word of mouth, to write Mr. Lawrence. We thought it important to ADAM's future growth to get American Design Components into production.

I just heard that American Design had NOT gotten enough response to make production feasible. A skeptic by nature, I called Gary. He told me he had not decided absolutely, but that the response had only been fair - about 200 to 250 letters. He said it would not be worthwhile to design and produce hardware for the ADAM. 200 maybes just don't cut it!

What's the matter with you ADAM owners?!! I know there are a lot of you out there! Did you break your arms, and you can't write a letter? Did you lose your voice and you can't make a phone call? Don't you WANT to keep up with other, less friendly computers? Don't you CARE that ADAM has a vast amount of potential? Are you so complacent that you feel you don't NEED anything new to make your ADAM perform to its utmost? Come on!!

American Design Components, 815 Fairview Avenue, PO Box 220, Fairview, NJ 07002. Maybe it's not too late to write that letter! 800-524-0809. At least make a phone call! American Design really does want to help us. But they have to make SOME profit!

The most requested item was an 80 column color monitor and card, and if the response were good enough, it would be priced competitively. This is only ONE of the things that could be in ADAM's future.

If we could make this one thing a reality, I know other hardware would follow. I would LOVE to have an 80-column color monitor with my ADAM. Then I could see things like Randy does on his IBM. Programs could be written with the 80 columns in mind. You wouldn't have to buy an IBM to do the things an IBM can do! You could do them on your ADAM! Doesn't that EXCITE you!?! It does me! RESPOND!!!

- by Faye B. Deere May, 1989

PLEASE SEND PHOTOS!!

MOAUG WANTS YOUR PICTURE!

Jack Tilson suggested that we prepare a photograph display board for October's convention. The board will contain pictures of ADAMites from all over. On occasion, we have passed around photographs at MOAUG meetings, and members enjoyed seeing our long-distance correspondents. We would like to do the same thing on a much larger scale.

Obviously, we would prefer that all the ADAMites in the world came to the convention. But since that is not very likely, we hope everyone will contribute to the Rogue's Gallery! We want both group shots & individual photos. Group shots should be captioned with the names of group members. Individual shots can be just about any format... show us what your computer setup looks like, what your hobbies are, or send a snapshot of you & your family. Vendors, show us where you work on your products, or show us the products being developed... whatever seems appropriate to you! We may end up with several scrapbooks in addition to the group display board... and that would suit us just fine!

Start collecting those snapshots NOW! You can send them to the address on the back cover, or you can send them directly to the project coordinator at the following address:

ROGUE'S GALLERY
c/o JACK TILSON
1091 ABAGAIL DRIVE
DELTONA, FL 32725
(407) 574-7024

While we're on the subject of photography, we are going to be needing a few photographers at the convention to record it for posterity (!) We have some group members with experience at using a camcorder. We need several people, though; both for stills and videos. Nobody should have to spend the whole convention behind a camera! Let us know if you can help.

REEDY'S SMARTTYPE VER 2.1

~~~ Reviewed by P. J. Herrington

I just received a most welcome surprise in my mailbox! Jack Reedy has updated an old favorite of mine, SmartTYPE, to Version 2.1. I'm glad to see this revision, because although I liked version 2.0, there were some problems with it if you used it with the ADAM printer. I like my dot matrix just fine, but I also like to be able to use my daisy-wheel; and I know the majority of MOAUG members are still using the daisy-wheel.

I first bought SmartTYPE because I wanted to use the two-column format. At that time, SmartTYPE was the ONLY word processor on the market that would allow you to print out your work in two columns, and to choose whether you wanted a line to be centered, left justified, right-justified, or both left- and right-justified (as you see here.) There are now several other word processors on the market, but I don't own any of them, so I can't compare the features to SmartTYPE. Until I see Jack's newest catalog, I can't even compare the prices!* But, if you already own an earlier version of SmartTYPE, the cost to upgrade it will be very small. Jack has always made it a policy to offer upgrades to his customers at only a nominal fee. (In some cases, where a bug is discovered immediately after a release, he has even upgraded it free.)

SmartTYPE 2.1 has a new opening screen, fixes the bugs that caused problems printing out on the ADAM printer, and includes a doc file with some new hints on its use, which is rather handy. It is an easy program to use; there are no commands to remember, except for the special function keys (STORE/GET, ESCAPE, CLEAR, MOVE/COPY) and those are pretty obvious. I especially like the MOVE/COPY function which allows you to move instantly to any line of your workspace.

I still see an occasional blank line that occurs once in awhile with the daisy wheel printer, only when I am printing in two-cclumn mode. It is not really a problem for me, though, and perhaps I'll figure out why it happens at all. I THOUGHT I had found a bug which caused a blank space in place of a letter, but it appears that it was probably my own fault. I had edited some lines and used the cursor key to advance to the next line, instead of using the RETURN key to enter the line. I've had no trouble since I started paying attention to the RETURN key. In fact, I strongly suspect the other "bug" is due to the same error on my part, and does not indicate a problem with the program. All in all, I am quite happy with this revision.

As in earlier versions, this program is really designed to be used with short files. And it does take some time to use, because each line must be entered separately. But it has some really nice features, and turns out good-looking copy. To sum up, you can print in one or two columns, and you can center or justify each line individually. You can insert and delete lines, and move to any line in your text instantly. You can see the directory on your tape or disk from within the program, and you can print hard copy using either the ADAM printer or a dot matrix (for the latter, you have a choice of density, too.) You can NOT use SmartTYPE to write lengthy documents, and you cannot read SmartTYPE documents from the built-in ADAM word processor.

SmartTYPE 2.1 is available from:

*DISK $17.95 *DDP $19.95

REEDY SOFTWARE
10085 60th ST., SE
Alto, MI 49302

Reedy's new catalog, soon to be released, will also contain information on how you can get upgrades on your Reedy Software products.

~~~

Mark Kavanaugh has decided to part with some of his duplicate ADAM items. He says he would rather have someone enjoying them than have them lying around:

SmartLink MODEM with software...$30
64k Memory Expander.....$30
Eve SP-1 Seial & Parallel Adapter (with cables, disk & documentation... can be used to hook up BOTH a printer AND an external modem).....$50
1200 Baud Modem RACAL VADIO with auto answer (use with SP-1).$45
Tape Drive with instructions....$13
High Performance Joystick (WICO Command Controller).....$5
Assorted Daisy Wheels for the ADAM printer (Gothic 15, Courier Italic 12, Courier 10, Prestige 12, Prestige 10, and Delegate 10)..... $2 each or $9 for all
Coleco tapes.....$2 each
Game Cartridges (ZAXXON & Front Line).....$3 each
ADAMCALC original tape & manual..$10
Hacker's Guides to Vol.1 & 2..$4each

Mark Kavanaugh
2510 Oak Park Court
Merritt Island, FL 32953
(407) 452-1409

George Drank had completed a Phrase Craze question back by the April meeting, and had asked you to contribute phrases to be used in the next volume. He has also asked for recipes to be used in an All-Star recipe volume he's compiling. He has had some input, but not nearly enough. As George points out, he could easily select all the phrases and all the recipes himself, but then we would not have MOAUG volumes... they would be George Drank volumes. Please forward your input to George.

In case you are not familiar with the projects, you should know that you do not need any software, hardware or the first lick of computer skill to be a part of this. You can send your recipes to George and he will put them in Filer format himself. As to the phrases, just come up with a few "Wheel of Fortune" type phrases that George can use as puzzles to go with Jack Reedy's Phrase Craze game. Even the KIDS can do that, so get them involved, too!

George will be in Maryland all summer, but he is willing to work on these projects while he's gone. Catch the team spirit, and send your contributions to:

George Drank
McKay's Beach
Star Route Box 104
Leonardtown, MD 20650

By the way, I'm serious about the kids. They will get a kick out of having their names mentioned. Each contributor will receive a free copy of the finished volume, too.

Jerome Hess, our new CP/M librarian, has also been busy. Because so many members are just beginning with CP/M and are confused, Jerome is starting from square one. He has compiled a volume with what he considers the basic essentials in CP/M utilities, and he has put an enhanced version of the CP/M operating system on the medium.

The problem with that is that CP/M itself is not public domain. We cannot distribute the system except to those who own CP/M. Quite a few members bought their ADAMS second-hand, so they own CP/M but no longer have the original sales receipt, etc. To be fair to everyone, Jerome has decided to distribute the volume to everyone who can produce a CP/M-formatted disk or datapack with SYSGEN on it. If you are a beginner with no clue how to put SYSGEN on your medium, read your manual OR ASK JEROME FOR HELP:

Jerome Hess
11531 A Wagon Road
Orlando, FL 32826
(407) 380-0457

We got a letter from a group in Canada which is made up almost exclusively of senior citizens: V.I.S.A. (Vancouver & The Islands Senior Adamphiles!) Seems that a knack for acronyms is some sort of national trait in Canada! MOAUG has a fairly large per centage of retired folk; I wonder if any of you are interested in corresponding with VISA? In any case, we will be exchanging newsletters, and it's possible that we will meet a VISA member or two during ADAMCON in October.

* * * * *

Monte Neece has been going full-steam ahead with ADAMCON. He has found good accommodations at reasonable rates and all sorts of fringe benefits (see flyer in this issue.) He and Jack Tilson are busy trying to contact all ADAM groups & vendors. We have had a lot of help from other groups in publicizing the event, through newsletters, bulletin boards, and word of mouth; we DO appreciate it very much, and hope they will continue to spread the word.

Response has been very favorable, and if you can judge by the enthusiasm of the ADAM community, ADAMCON might surpass our wildest hopes. "Big John" Lingrel has even donated a hard drive interface as a door prize! MOAUG's contribution will be two airline tickets to Orlando OR any city in the USA OR Canada serviced by American Airlines, plus other goodies. Monte has arranged for the closing dinner to be at Church Street Station (!!!) and the prizes will be distributed then.

Local people who will not be needing hotel accommodations are entitled to attend all convention functions at the reduced rate of $89 ($49 for spouse or companion.) Your friendly newsletter editor has every intention of staying at the hotel, though.

The Las Palmas Inn is located on I-4, within minutes of all the most popular attractions, and not far from the airport. Pamphlets will be sent out to registrants upon receipt of deposit.

* * * * *

Steven Majors, of the ADAM CONNECTION, tried a bold experiment which seems to have failed. He installed an 800 number so that ADAMites could call his BBS without paying long distance fees. He intended to charge a small monthly access charge to help pay for it. As it turned out, though, his phone bill was MUCH greater than he'd expected, & he had to give up the 800 line. It seems a shame, because it really WAS a wonderful idea. It would also be super if there were an 800 voice number for the isolated ADAM owner who lives far from other ADAMites and does NOT have a modem. Maybe someone will figure out some way to make this dream a reality... but it would require the support of the entire community. In the meantime, you CAN call Steve's BBS based in New York, but it is no longer toll-free. (See ad in this issue.)

* * * * *

In other telecommunications news, if you are a local MOAUG member with a modem, you are in for a big surprise. Jerome Hess informs us that The Midas Touch, a local BBS run on an IBM, now picks up the ADAM ECHO. The ECHO is a message base that travels all around the USA and Canada, going from BBS to BBS and picking up local messages. If you call The Midas Touch, you can read and trade messages with faraway ADAM owners without paying any toll fees. Jerome has been accessing the ECHO for two years, but until now, he had to call a board in Michigan to pick it up. The Midas Touch operates 7 days a week and 24 hours a day. It runs from 300 to 2400 baud. To see the ADAM ECHO, go to Message Area #23.

THE MIDAS TOUCH
(407) 648 - 1133

In other telecommunications news, Ray Dougherty has decided to retire as the Compuserve liaison. We owe a lot to Ray for downloading the CIS messages & donating them to MOAUG during the past couple of years. If anyone is willing to take his place, please let me know just as soon as possible!!!!!!!

* * * * *

Ricki Gerlach of the German ADAM Users writes that he will be moving back to the states this summer (Kentucky.) He has sent us a lot of material, including a series on LOGO, the first part of which you will find in this issue.

→→→ O O P S ←←←

Corrections to phone numbers listed incorrectly in the April issue :

KOSOWSKY'S ADAM REPAIR
(315) 699-6456
Hours:
Mon. - Fri. 6 PM - 10 PM
Sat. & Sun. 10 AM - 10 PM
6067 Jerusalem Dr. Clay, NY 13041

MEI/Micro Center (Discount Supplies)
1-800-634-3478
1100 Steelwood Road
Columbus, OH 43212-3972
Free Catalog, VISA/MC Accepted

Do not use "Big John" Lingrel's PO Box number. His home address is:

5665 Myers
Akron, OH 44319
BBS: (216) 882-4720

POWER PAINT: TIPS & TRICKS

One of the handiest features of Power PAINT is often overlooked by those who are just beginning to explore the program. That is the menu that you can access by pressing the MOVE/COPY key from the main menu. This submenu contains features to copy the cell you are working on into any other cell you like, and to "pull" your screen right & left or up & down. It also contains a SmartKey routine called "SET FRAME". By pressing that key, you can frame a section of your screen, bracketing it by upper left & lower right corners (using the arrow keys to move across the screen and the RETURN key to select the corners.) Once you have set the frame in place, you can choose to copy whatever is in the frame to any location on the screen. You can also erase it if you prefer. That comes in very handy for erasing large blocks of graphics... it is TEDIOUS to erase it one pixel at a time in the DRAW FOREGROUND menu!! One warning, though: do NOT use the "MOVE" option to relocate the contents of your frame. For some reason, this often erases your work instead of moving it. It's much safer to use the COPY function to move it where you want it; then you can always use the ERASE function to delete it from the old location. Even the pros like Tony Patterson prefer to use this technique rather than risking MOVE.

* * * * *

Also, when you are through using Power PAINT, don't forget to reset your dot matrix printer before you exit the program (assuming you have been printing your work.) Otherwise, if you try to go from PowerPAINT to a word processing program, you will find that the printer will print lines of text too close together. Don't be alarmed if this happens... you can easily fix it by turning the printer back off and on again.

* * * * *

While it is easy enough to erase large blocks of text by using SET FRAME and ERASE, as mentioned above, it can be a bit time-consuming because you have to set each frame independently. It IS faster than using the ERASE mode in DRAW FOREGROUND, but sometimes it may suit you better to erase by going into the text mode. You access this from the main menu by pressing the INSERT key. Then, when you are asked which fonts you wish to use, choose SPECIAL FONTS and select the size you would prefer to use as an eraser. DOUBLE SIZE gives you a 32 x 32 pixel (or "SPRITE" size) font. So, if you press REPLACE text, instead of OVERLAY, you can use your arrow keys to position the cursor and the spacebar to erase. That may sound confusing, but if you try it, it will become obvious. You can experiment with font sizes to get the size you need at the moment, and you'll find it faster than SET FRAME once you are used to it.

* * * * *

If you have an earlier version of Power PAINT and did not buy PaintAID, you may have already encountered the bug that can freeze up your program if you are drawing polygons and you hit the RETURN key without moving the cursor from its last position. It's easy to avoid the problem by remembering to use the ESCAPE key to exit the polygon routine. But, it's also fairly easy to forget to do that, if you don't use the program often. The best insurance is to SAVE your file often. It's also a pretty good idea to get PaintAID and fix that bug. PaintAID includes a variety of fonts to play with, too.

LEARNING WITH LOGO part 1

by Ricki Gerlach, Adam Users of Germany

WHAT IS LOGO?

Logo has been described as being both a computer language and a philosophy of learning. The major theme of Logo's philosophy is to learn by doing, to learn by trial and error, to learn by exploring and discovering. Errors do NOT reflect failure, but simply 'bugs' that can be analyzed and fixed.

The language itself was designed to reflect this philosophy by being easy to use and powerful enough for sophisticated applications. Logo achieves these two seemingly opposing goals by incorporating several major design characteristics.

The most important Logo feature is its ability to respond to new user-created words or programs in the same way Logo responds to its built-in words. Every computer language has certain 'reserved' words called PRIMITIVES. In Logo, the "primitives" include such commands as MAKE, AND, IF, REPEAT, FORWARD, and RIGHT. For example, the command FORWARD 50

will cause the turtle to draw a line 50 steps long on the screen (going in the same direction as it was already facing) while the command RIGHT 90

will turn the turtle 90 degrees to the right. We can create some rather interesting programs using these primitives. Here is one of the easiest programs to visualize:

```
TO BOX
REPEAT 4 [ FORWARD 50 RIGHT 90 ]
END
```

Remember to push SmartKey VI after typing this, so that ADAM will store it in the memory, for later recall. Think of it as ADAM remembering what BOX is. Now the key point here is that we can run this program, called a PROCEDURE in Logo, just by typing its name, the same as we run a Logo primitive. We can even include this newly-defined procedure into other procedures. For example, here is a simple procedure that uses our new BOX procedure:

```
TO STAR
REPEAT 20 [ BOX RIGHT 18]
END     (SMARTKEY VI to save!)
```

Now just enter the command STAR, and watch what happens!

The primitive TO is used to enter the Logo editor in order to define new 'vocabulary' words. When a language uses new words just like it uses its built-in words, we say the language is 'extensible' and uses the same 'syntax' for procedures as for primitives. Some words may be abbreviated, such as:

RIGHT = RT FORWARD = FD LEFT = LT BACKWARD = BK

Therefore, our procedures could be written in this shorter form. For example:

```
TO BOX
REPEAT 4 [FD 50 RT 90]
END
```

...and the procedure for STAR could be entered as: .....

```
TO STAR
REPEAT 20 [BOX RT 18]
END
```

To Be Continued Next Month....

Use Boot Pic and Basic V1.1

```
 4 HOME: POKE 17059, 14: POKE 17115, 31: POKE 17126, 246: TEXT
 5 REM          -BINGO PROGRAM
 6 REM          -Basic Computer Programs for the Home
 7 REM          -by Charles D. Sternberg - 1980
 8 REM          -modified for ADAM by H.M.Guill- 1987
10 PRINT
11 INVERSE: PRINT "                                        "
12 PRINT "  ****  ***  *  *  ****  **** "
13 PRINT "  *  *  *  *  *  *  *     *  * "
14 PRINT "  ***   *  *  ****  * **  *  * "
15 PRINT "  *  *  *  *  *  *  *  *  *  * "
16 PRINT "  ****  ***  *  *  ****  **** "
17 PRINT "                                        "; NORMAL: PRINT
20 GOSUB 1500
30 REM          - data initialization ********************************
40 y = 1: ln = 0
50 DIM c(2, 75)
60 DIM a$(5)
70 READ a$(1), a$(2), a$(3), a$(4), a$(5)
80 DATA         "B","I","N","G","O"
90 HOME: INVERSE: PRINT "                                        "; NORMAL
92 PRINT: PRINT "DO YOU WANT BINGO CARDS"
94 PRINT: PRINT "PRINTED? "
100 INPUT " ( y or n >>> "; g$: PRINT
110 IF g$ = "N" OR g$ = "n" THEN 160
112 IF g$ = "Y" OR g$ = "y" THEN 120
114 GOTO 100
120 GOSUB 590
13 PRINT
140 PRINT
150 PRINT
160 PRINT "PRESS <RETURN> FOR THE NEXT"
162 PRINT "CALL - OR - ENTER 'BINGO'"
170 FOR io = 1 TO 75
180 PRINT: INPUT " >>> "; b$
190 IF b$ ="BINGO" OR b$ = "bingo" THEN 220
200 GOSUB 1020
210 NEXT io
220 HOME: INVERSE: PRINT "          spc(31)          "; NORMAL
222 PRINT: PRINT " NUMBERS CALLED:"
230 PRINT: PRINT " ";
240 FOR i = 1 TO 75
250 IF c(1, i) = 0 THEN 270
260 PRINT a$(i/15+1); " -"; i,
270 NEXT i
280 REM
290 REM          - termination point ********************************
300 GOTO 2000
310 REM          - line printing routine ********************************
320 FOR j = 1 TO 2
330 PRINT ";-----;-----;-----;-----;-----; ----------"; : ln = ln+1
331 IF n = 8 OR n = 16 OR n = 24 OR n = 32 THEN 320
332 IF ln = 56 OR ln = 112 OR ln = 168 OR ln = 224 THEN 1200
340 NEXT j
350 PRINT
360 RETURN
370 REM          - random draw of cards ********************************
380 LET z = (RND(y)*((h-1)/100)+.01)*100+1
390 LET x = INT(z)
400 IF c(k, x) <> 0 THEN 370
410 LET c(k, x) = c(k, x)+1
420 RETURN
430 REM          - array clears and fills
440 FOR l = 1 TO 2
450 FOR k = 1 TO 75
460 LET c(l, k) = 0
470 NEXT k
480 NEXT l
490 FOR l = 0 TO 60 STEP 15
500 LET h = l+15
510 FOR t = 1 TO 5
520 FOR k = 1 TO 2
530 GOSUB 370
540 NEXT k
550 NEXT t
560 NEXT l
570 RETURN
580 REM          - card print routine ********************************
590 HOME: INVERSE: PRINT "                                        "; NORMAL
592 PRINT: PRINT " HOW MANY CARDS SHOULD I PRINT"
594 PRINT: PRINT "(prints 8 cards per sheet)": PRINT
600 PRINT: INPUT " (even # 0 to 40 >>> "; n
610 IF n = 0 THEN 1010
620 PRINT: PRINT: FLASH: PRINT " PREPARE PRINTER ": NORMAL
622 PRINT: PRINT " PLACE PAPER IN PRINTER NOW &"
624 PRINT: PRINT " PRESS <RETURN> WHEN READY": PRINT
630 INPUT g$
640 FOR i = 1 TO n/2+.5
650 HOME: PR #1: PRINT: GOSUB 430
660 GOSUB 310
670 FOR j = 1 TO 2
680 PRINT "|  "; a$(1); "  |  ";
690 PRINT a$(2); "  |  "; a$(3); "  |  "; a$(4); "  |  "; a$(5); "  |        ";
700 NEXT j
710 PRINT
720 GOSUB 310
730 FOR k = 1 TO 5
740 FOR j = 1 TO 2
750 LET s = 1
760 FOR l = 1 TO 5
770 FOR m = s TO s+14
780 IF c(j, m) = 0 THEN 890
790 IF m < 10 THEN 860
800 IF k <> 3 THEN 840
810 IF l <> 3 THEN 840
820 PRINT "|*FREE";
830 GOTO 870
840 PRINT "|  "; m; " ";
850 GOTO 870
860 PRINT "|  "; m; "  ";
870 LET c(j, m) = 0
880 GOTO 900
890 NEXT m
900 LET s = s+15
910 NEXT l
920 PRINT "|      ";
930 NEXT j
940 PRINT
950 GOSUB 310
960 NEXT k
970 REM
980 PRINT
990 REM
1000 NEXT i
1010 HOME: PR #0: RETURN
1020 REM          - random draws for calls ********************************
1030 LET z = (RND(y)*.75+.01)*100
1040 LET x = INT(z)
1045 IF x >= 75 THEN 1030
1050 IF c(1, x) <> 0 THEN 1030
1060 LET c(1, x) = c(1, x)+1
1070 LET j = INT(x/15)+1
1080 PRINT "                "; a$(j); "-"; x
1100 RETURN
1200 HOME: PR #0: INVERSE: PRINT "                                        "
1210 PRINT: FLASH: PRINT " INSERT MORE PAPER ": NORMAL
1220 PRINT: PRINT " IF USING SINGLE SHEETS AND"
1230 PRINT: INPUT " PRESS <RETURN> TO CONTINUE "; zx$
1240 GOTO 660
1500 PRINT " BINGO ALLOWS THESE OPTIONS:"
1520 PRINT: PRINT "  1) Automatic printing of up"
1530 PRINT "     to 40 BINGO cards - #"
1540 PRINT: PRINT "  2) Random number calling"
```

Change to Picture Bingo

31 spaces

31 spc

5 spcs

Comment

BINGO

By

Charles D. Sternberg

adapted for the ADAM

By

H. M. GUILL

Graphics By

GAS

BINGO PROGRAM, COURTESY RICK COVELL (BASIC)
(PRINTS CARDS, Too!)

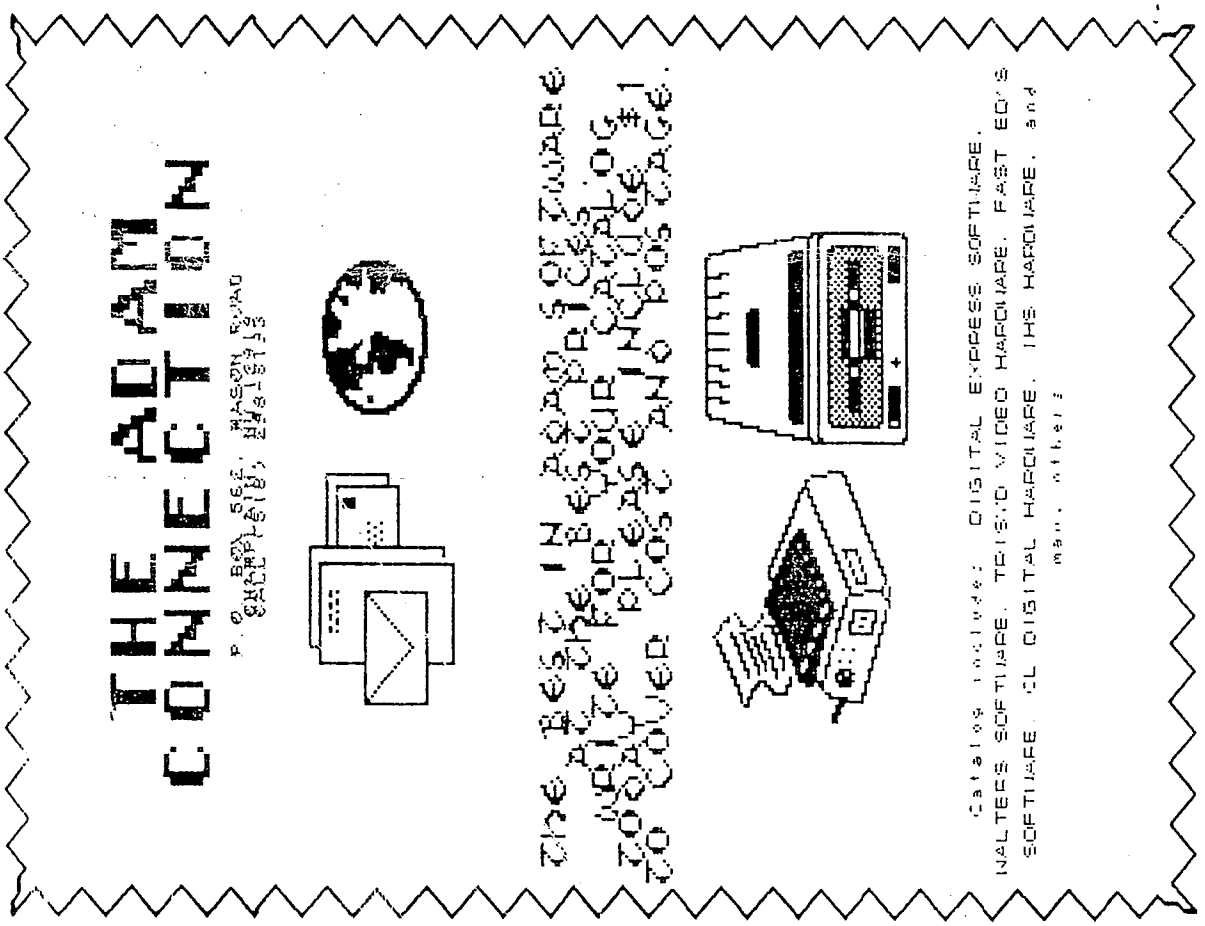
CONTINUED,
NEXT PAGE...

PRINT CHR$(130)

BINGO, CONTINUED FROM PREVIOUS PAGE

```
1550 PRINT: PRINT "  3) Review of called numbers"
1560 PRINT "     to verify BINGO"
1570 PRINT: PRINT "  4) Resume game if no BINGO"
1580 PRINT: PRINT "  5) Start new game or quit"
1590 PRINT: INPUT "                          <RETURN> "; zx$
1600 HOME: PRINT: INVERSE: PRINT " * NOTE "; NORMAL
1610 PRINT: PRINT: PRINT "   ADDITIONAL CARDS MAY BE"
1620 PRINT: PRINT " PRINTED IF THE <CONTROL S>"
1630 PRINT: PRINT " COMMAND IS USED TO PAUSE THE"
1640 PRINT: PRINT " PRINTER AFTER THE FIRST 40"
1650 PRINT: PRINT " CARDS ARE PRINTED."
1700 PRINT: PRINT: INPUT "                          <RETURN> "; zx$
2000 PRINT: INPUT " SEE NUMBERS AGAIN? (y/n>>> "; yn$
2010 IF yn$ = "y" OR yn$ = "Y" THEN 220
2020 PRINT: PRINT " DO THE NUMBERS MATCH?"
2030 PRINT: INPUT " (y/n>>> "; yn$
2040 IF yn$ = "n" OR yn$ = "N" THEN  HOME: INVERSE: PRINT "              ":
     NORMAL: PRINT: GOTO 160
2050 IF yn$ <> "Y" AND yn$ <> "y" THEN 2030
2052 HOME: PRINT: PRINT " WE HAVE A .:.": PRINT: PRINT: PRINT
2060 PRINT
2061 FLASH: PRINT "                                    "
2062 PRINT "  ****  ***  *  *  ****  **** "
2063 PRINT "  *  *   *   ** *  *     *  * "
2064 PRINT "  ***    *   **** * ** *  * "
2065 PRINT "  *  *   *   * ** *  *  *  * "
2066 PRINT "  ****  ***  *  *  ****  **** "
2067 PRINT "                                ": NORMAL: PRINT
2070 PRINT: PRINT: PRINT: INPUT " WANT ANOTHER GAME?  (y/n>>> "; yn$
2080 IF yn$ = "y" OR yn$ = "Y" THEN  CLEAR: GOTO 30
2090 HOME: PRINT: PRINT: PRINT: PRINT " BYE!"
2100 END
```

TRY sprites OR HRP/HGR pics w/ Bells. — use trim.



*STAY AT LAS PALMAS INN!

*HEAR GUEST SPEAKERS!

PHOTOS!!

BRING YOUR FAMILY!

*BUY! *SELL! *TRADE!

*SEE FASCINATING DEMOS!

*VIEW THE ROGUE'S GALLERY!

*WIN FABULOUS PRIZES!

SOAK UP SOME SUN in OCTOBER!

PLEASE SEND PHOTOS!!

*SPLASH IN POOL OR OCEAN!

*VISIT FAMOUS ATTRACTIONS!

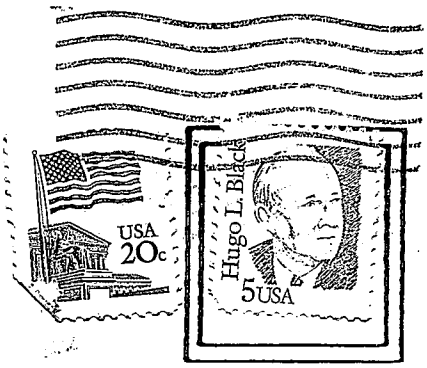
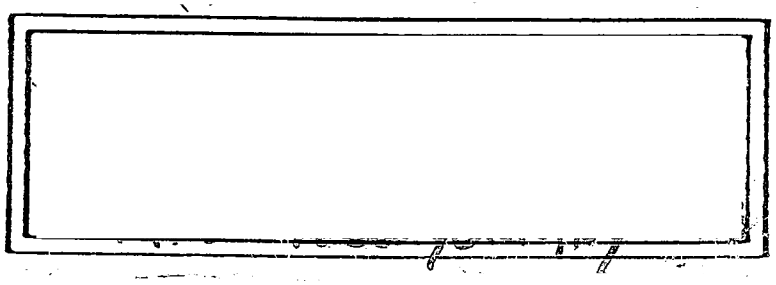
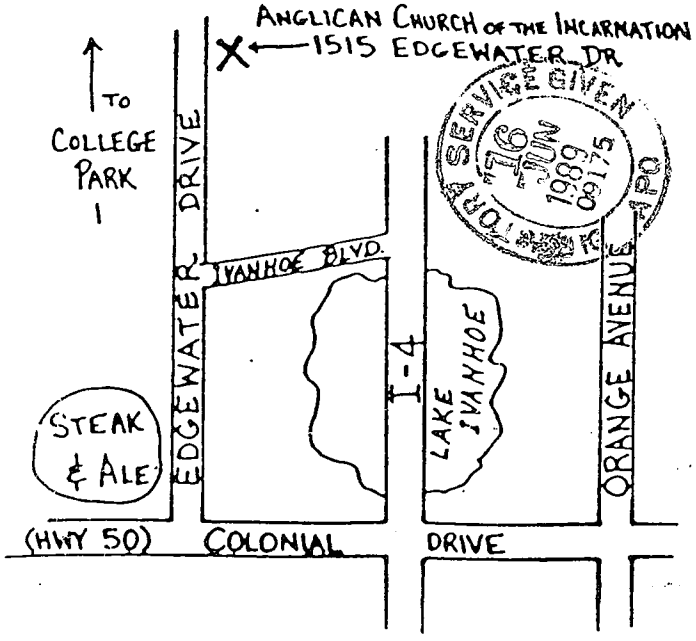
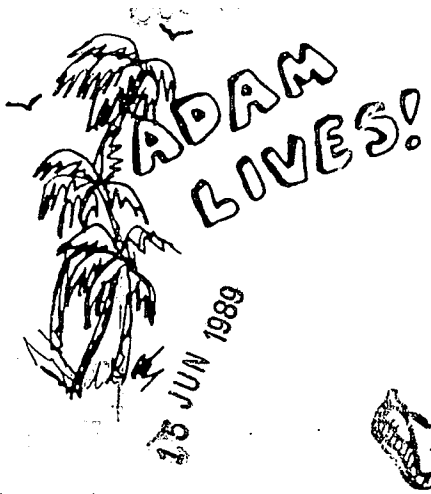
EAT, DRINK & BE MERRY!

*MEET THE MOB!

*SHARE TIPS & INFO!

*ENJOY AN EVENING AT CHURCH STREET STATION!

*SAVE ON AIRFARE & CAR RENTAL!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