

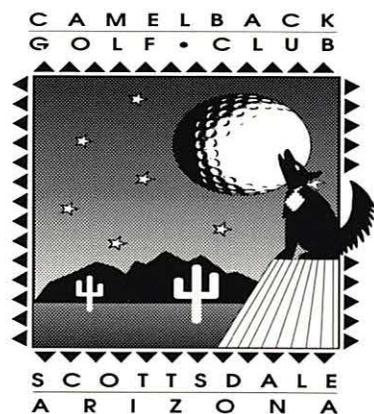
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The Journal of Washington Apple Pi, Ltd.

Volume 14, Number 1

January 1992



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**ShareWare Envelope DA's**

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**Logitech's Mouseman**

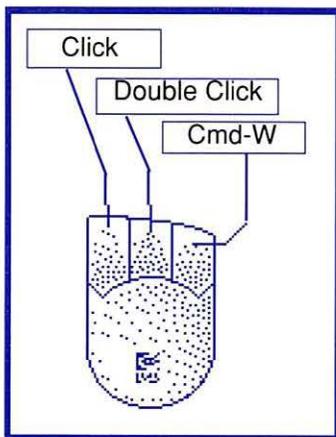
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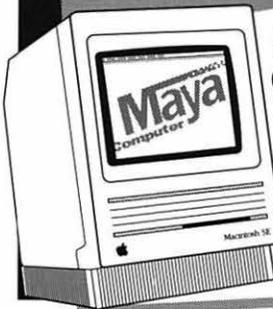
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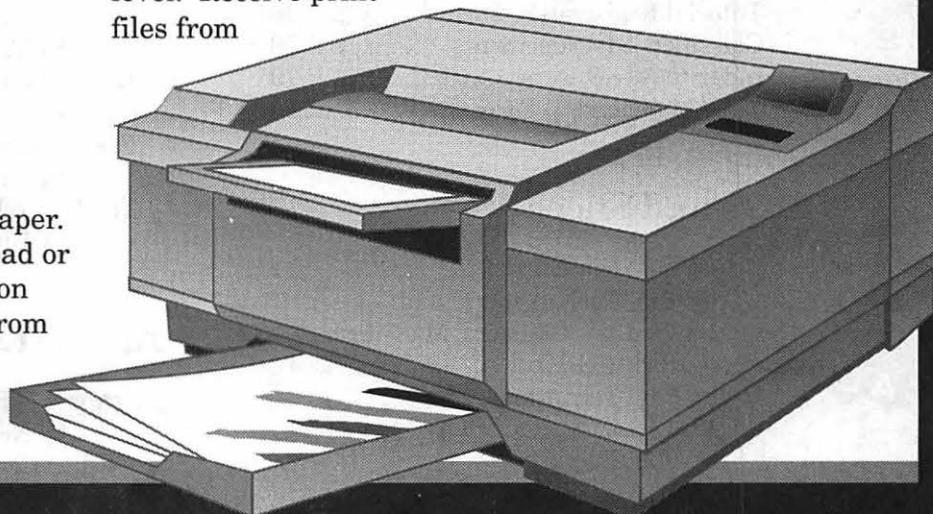
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## In the Pi Pan...

by Debbie Hoyt

As always, with the beginning of a new year comes change. No doubt, as you picked the Journal out of your mailbox and hefted it, you noticed, probably with pricked curiosity, that it had lost weight. This likely struck you as remarkable because, let's face it, none of us loses weight over the holiday season. But the Journal has, at least for the time being. At this stage, I can only say that if advertising picks up, etc., the Journal will go back to its 96-page format.

For those of you who submitted articles that were not published this month, I apologize for the omission. It was not intentional, and it was in no way a criticism of anyone's writing, only a practical response to suddenly being sixteen pages shorter. Eagerly we shall all wait to see what happens.

Along with our new streamlined Journal, we have a new Art Editor, Ann Aiken. Ann has extensive experience in the field of graphic arts and has worked as a freelance ad illustrator and logo designer for the last few years. She received her degree in Advertising Design from the University of Michigan and then began working for the Carl Ally ad agency in New York.

When she moved to this area Ann worked for several years in the television industry at the design department of Channel 9. Next she moved on to be the first in-house art director for all advertising carried on by Britches of Georgetown. She even dabbled in designing some clothing illustration while at Britches, a task not unlike the silk screening and embroidered clothing that she creates freelance. Welcome aboard, Ann. We're happy to have you with us and feel certain that your talents will enrich the Journal.

As happy and relieved as I am to have an Art Editor once again, it is not without a touch of remorse that

**Nancy, I wish you the greatest success in your present endeavors....May you live long and prosper.**

Nancy Seferian has retired from the position. Nancy has been a tireless and dedicated force behind many Pi enterprises, and her energy and positive attitude was uplifting to many. It's at least good to know that she will still be with us on

the TCS and, probably will continue to give us some great EPS pieces from time to time. Nancy, I want to wish you the greatest success in your present endeavors. To quote my favorite Vulcan, "May you live long and prosper."

Now, if I could just find an Apple II editor...

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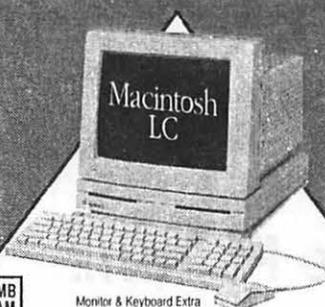


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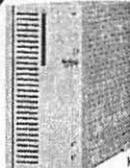
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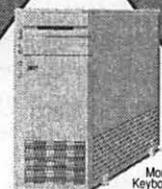
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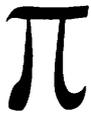
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by Lorin Evans

### New Special Interest Group (SIG)

Tom Vier is forming a SIG which he hopes will maximize members' interest in serving the club in such areas as volunteerism, membership information, and governance. You can get more information about the Pi Membership SIG by calling Tom at (703) 860-4810 [Noon to 6PM] or writing him at 1831 Post Oak Trail, Reston, VA 22091.

### Buddy, Can You Save Me a Disk?

As more of you or the companies you work for convert from storing data on 5.25" or 3.5" floppy disks to other magnetic media, the disks get discarded. There is lots of life left in each of those disks. A great place to

recycle them is at the WAP. We purchase over 12,000-3.5" disks each year. Please donate any used disks, no matter what format they were run under, to the club. This way, it is less costly for us to give away copies of the many demonstration disks that we receive each month, provide templates and samplers at the general meetings and SIG's, and, if the librarians do not object, even try using them there. Give us a break. Send a floppy our way!

### TCS Fee Raised to \$9/Year

The Washington Apple Pi Board of Directors, at their November 13, 1991 meeting,

voted to raise the fee for use of the Tele-Communications System to \$9 per year after hearing a recommendation from the Telecommunications System Committee. This increase is effective with the January 1992 renewals or new membership applications. The old fee (\$6) had not been increased since the beginning of the current TCS.

### Postscript Output Service Bureau

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### Bruce Presentations

1100 6th Street, SW - #215  
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## SIG's and Slices

### Columbia Apple Slice

by Tom Cook, Apple II;  
Lawrence I. Charters, Mac

Our November Columbia Slice meeting was a combined Apple and Mac presentation and was very well attended. Bob Langan, a senior system engineer from Apple's Columbia office, presented Apple's newest products. These products include the Apple OneScanner for the Mac, two new LaserWriters (II<sub>f</sub> and II<sub>g</sub>), a Macintosh 21 inch color display, and six new Macintosh computers.

Among the new Macs was the Macintosh Classic II, which is more than twice as fast as the original Classic and can be expanded to 10 MB of RAM (compared to 4 MB with the original). Priced aggressively, it is a worthy successor to the Classic, the fastest-selling computer in Apple's history. Current Classic owners seemed keenly interested in Apple's upgrade kit which allows them to turn their machines into Classic II's.

For heavy-duty use, the new Quadra 700 and 900 computers are Apple's first systems based on the powerful Motorola 68040. Both have built-in video support with half a MB of video RAM (expandable to 2 MB) and Ethernet interfaces, an Apple first. The Quadra 700, with a 50-watt power supply and up to 20 MB of RAM, is designed as a high-end personal com-

puter. The Quadra 900, with its floor-standing case, 303-watt power supply, up to 64 MB of RAM, and space for up to three internal hard drives, is designed to run medium-sized countries, or perhaps a small planet.

Bob also brought two Mac laptop computers with him. He first demonstrated the Macintosh PowerBook 100, the entry level product in the PowerBook series. Designed by Sony (built in one of its California factories), it is a fully functional Macintosh computer which weighs only 5.1 pounds. It lists for \$2400 with 2 MB of RAM (expandable to 8), and a 20 MB hard drive (no floppy drive). Options include an internal modem and external floppy drive. Bob made a point of showing the excellent clarity and brightness of the back-lit LCD display.

He next demonstrated the semi-mythical PowerBook 170. This top of the line model weighs 6.8 pounds. It is a little larger than the PowerBook 100, and comes with 4

MB of RAM (expandable to 8), a 40 MB hard drive, an internal floppy drive, and an internal fax/data modem. The back-lit active-matrix LCD display on this model seemed noticeably brighter and clearer than the display on the 100. It has a SCSI interface and a microphone. The PowerBook 170 lists for around \$4500.

Bob concluded his presentation by demonstrating Apple's new AppleTalk Remote Access software. Using the internal modem on the PowerBook 170, he dialed into an AppleTalk network in Charlotte, NC and used it to "view" Apple's world-wide network nodes in Singapore, Hong Kong, Tokyo and Sunnyvale.

Bob did two other things which impressed the audience. First, he spent some time reassuring Apple II and IIGS owners of Apple's commitment to and interest in their machines and pledged to personally look into greater cooperation between the local Apple offices and WAP. The second and somewhat unintended "presentation" was his method of transporting the PowerBooks: both were carried in an old Apple Mac 128K carrying bag (the one that looks like a diaper bag). People couldn't help but notice that both computers, plus a large pile of brochures, posters and handouts, filled less than half the bag.

This presentation was followed by a discussion of the WAP's Telecommunications System (TCS). Henry Yee,

### Want to Upgrade your Mac?

Come to the WAP Memory  
Upgrade Night  
Watch and Learn as Our Experts  
Deftly Install your RAM Chips  
in your Macintosh. Bring your  
Mac and Memory Chips  
Tuesday, January 7  
7:00 PM  
at the WAP Office

*A Five Dollar Donation to the Pi  
would be Nice*



the Columbia Slice SysOp, had prepared some excellent overhead transparencies showing the TCS menu structure. Lawrence Charters, a new SysOp with the TCS, gave a live demonstration of the TCS in action. He showed how to log on, navigate the various message and file menus, and download files. He answered questions and provided insight into TCS history, tips on file compression techniques, and suggestions for using the TCS effectively. Henry and Lawrence have offered to provide a more in-depth coverage of the TCS at a future meeting.

Columbia Slice also held its yearly elections. Next year's officers are:

Tim Childers: Slice President  
Bill Campbell: Vice President for Apple

Ellen Baniszewski and Tim Helsing: co-Vice Presidents, Mac  
Tom Cook: Apple II Secretary  
Lawrence Charters: Mac Secretary

Tom Cowley: Treasurer

In addition to these elected positions, volunteer positions included:

Henry Yee: SysOp

Tim Helsing: Membership database and newsletter

Andy Wakshul: Apple II disk librarian

Tim Childers: Mac disk librarian

Tim Childers also announced that the Intro to the Macintosh course will be held at the Howard County Board of Education Building on Jan 16, 1992. The cost will be \$15 for members and \$20 for non-members. Bring your Mac. For more information contact Tim Childers at 997-9317.

## Apple IIGS SIG

by Paul Tarantino

Our SIG leader Gary Hayman, a man of many talents (he paid me to say this) is not only the chairman of two Pi SIG's, the creator of countless Pi Journal articles and a published software author, but he is also the Mark Munz of the mid-Atlantic, a true guru of UltraMacros. Any doubts that members of the Apple IIGS SIG may have harbored about Gary's virtuosity with Clas-

**Big Red Computer Club has rounded up older GS game software abandoned by the publishers and is making the games available by mail order at very attractive prices.**

sic AppleWorks and TimeOut UltraMacros were obliterated by a dazzling presentation of what these programs can be made to do.

But anyone can be an expert, Gary claims. All you have to do is (1) read the documentation (what a concept!), (2) play with the many macros that come with the UltraMacros program, and (3) start creating your own custom macros from the simple to the really complex. Randy Brandt's manual for UltraMacros is exceptionally well done. Another outstanding source of information is Mark Munz's "UltraMacros Primer," available for \$19 from the National AppleWorks Users' Group (NAUG). Armed with both of these references (and, of course, AppleWorks 3.0 and UltraMacros 3.1), the industrious user can really make

AppleWorks do what you want it to do. The UltraMacros disk includes many extra macros to play with, and additional macro sets are readily available in public forums like the TCS, GENie, etc.

Handy Hints were abundant. It is always a good idea to include a commentary (separated with curly brackets) to document any macro you create that way other people who use it will know what is going on, and so will you. Also, create a word processing document master list of all the possible macros (solid-apple-x, both-apples-x, solid-apple-control-x, both-apples-control-x, where "x" equals almost any key on the board) and the domain in which each can work (all, awp, asp, adb, asr...this last being for UltraMacros sub-routines). As you create new macros, fill this in and keep a hard copy handy in a notebook for reference.

New macro ideas should first be tried out via keyboard entry (start one by entering OA-X, then select a macro key). A macro that you build and test in this way can be permanently added to your default macro set by selecting "Macro Options" from the "Apple-escape" menu and choosing option 3 (save macro table as default set). This will add your new macro to the default set, replacing whichever macro was using that macro key.

Gary showed us a lot of interesting macros and other aids, from the useful and powerful to the useless and fun-to-watch, including several that (free plug) may show up in his next Magical Software package. These included a custom Help Screen creator, a menu-driven pathname selector and a method for using the AppleWorks spreadsheet to create a powerful "things-

to-do" list/organizer. Some of his macros that were more in the use-less-but-fun-to-watch category included zig-zag margins for your word processing documents (looks very impressive on your business correspondence) and Gary's famous earthquake macro, which also does Strange Things to your favorite document.

We also discussed the use of UltraMacros task files, a great way to work around the program's limit of 4099 bytes in a compiled macro file. It is easy to set up a long and complex macro as a task file and to invoke it from within your default macro set with a small macro. If used this way, the task file should end with a routine which will restore the default macro set when the task file has done its job. Gary's grand finale was a dazzling light show of TimeOut graphs, run by a macro which loaded spreadsheet data into the graphing program and zipped through an amazing range of displays. (This would probably have been much less fun to watch on an un-accelerated IIGS!)

Amid the customary disk-duplicating frenzy which followed, a few nuggets of information surfaced. First of all, there is a strong rumor of a forthcoming UltraMacros 4.0 which is to be distributed by JEM Software rather than Beagle. No word yet about when, how much, or upgrade paths. The arrival of IIGS System 6.0 continues to recede into early 1992 (the third beta version is in the hands of third-party developers now). Upgrades to Font Factory GS and GraphicWriter III v. 1.1 are available from Gary for owners of the previous versions. Big Red Computer Club has been working hard to round up older GS game software abandoned by its publishers. The

club is making the games available by mail order at very attractive prices. It's a good deal if you missed some of these when they first came out.

The previously promised IIGSSIG presentation on ProSel 16 has slid into January, as the presenters' holiday plans conflict with our scheduled December meeting. Handy Hint: check with the Pi office or (better yet) with Gary for the December meeting agenda, date, and location.

## EdSIG

by Phil Shapiro

A small but enthusiastic crowd showed up for the November 21 EdSIG meeting. The featured presentation was a mini telecommunications tutorial. After the usual introductions, we booted up the wonderful Z-Link ShareWare telecommunications program and called the GENie information service. The main educational attraction on GENie is Grolier's electronic encyclopedia. Unlike CompuServe, GENie does not charge an hourly rate for use of the encyclopedia. So you can take as much time as you like browsing around different subjects of interest. If you prefer not to read the text on the screen, it's possible to capture the text to disk. And then you can print it out with any word processor.

Following our call to GENie we called The School Board, an active public bulletin board for teachers and students.

This bulletin board is particularly easy for beginners to use. We read

some electronic mail and then sent some electronic mail.

Next we called the Washington Apple Pi's own TCS. Jim Deligianis gave a tour of the message boards on Conference 1. Several people asked if we would demonstrate a download. So we went over to the File Transfer area, listed all the files available for downloading, chose the one we wanted, specified the protocol we wanted, and—ahem—almost successfully downloaded a file. There was a minor "handshaking glitch" that was undoubtedly caused by a stray electron or two.

We then discussed the popular book, *The Complete Book of Personal Computer Communications*, by Alfred Glossbrenner. This book serves as an excellent introduction to telecommunications. Almost every public library has at least one copy. Someone remarked that the second edition of the book is far more up-to-date than its predecessor.

We wrapped up the meeting with a brief demonstration of MetNet, the statewide Maryland educational bulletin board system. This BBS has a toll-free 800 phone number for teachers to use. It's not as busy as it could be, but it appears to fill an important need.

As we were walking out the door, Supermom Carol Vogel made some inquiries about good educational software to give as a present for the holidays. Carol said she was looking for something with a high fun quotient for her kids. Lorin Evans suggested Kaleidocubes, for the IIGS, as a fun game with redeeming educational value.

For information about future EdSIG meetings, please call Phil Shapiro at (202) 686-5465 (home/office).



## We Need You...

by Tom Witte

This monthly column, like the Volunteer Board on Conference 1 of the TCS, is an information exchange forum. A place for organizers of Pi activities to post requests for help and a place where members can look for opportunities to help. If you need help or would like to offer help, please contact me on the TCS or at (703) 683-5871.

Many thanks to all who volunteered early to help with the Garage Sale [8:30 to 12:00 Saturday, December 7] I write this week's column in advance (my stress level is low), and I am confident of the Garage Sale's success because of your willingness to commit support before we hit the panic button. These early offerings also allow me plan things better. Again, thank you. It's never too late to offer help. Call the office or me if you can help out. Even if you can't help, join us after the post Garage Sale Distress auction for lunch at a nearby, yet to be picked, restaurant.

### The Hot Ones

• **MacWorld San Francisco Jan. '92.** WAP will not be there, but if there are enough volunteers, I'll try to match you up with our friends at BMUG.

• **Mac Memory Workshop, Tuesday, January 7.** (See description below.)

FOSE (Mar. 30-Apr. 2) Washington, DC convention center. See description below.

### Continuing Opportunities

**Office Helpers** • Help in the Pi's office during work hours. This is a great opportunity for just about anyone that can make some time free during the day. If you are retired, between jobs, or looking for work experience to put on your résumé, this is your chance. Note: Volunteers are reimbursed (\$5) for parking/metro.

**General (Saturday) Meeting Equipment Mover** • Move WAP materials from the Office to the meeting and back. Ideally, it takes two people with a station wagon or mini-van. Due to the effort involved, this is one of our few work opportunities that offers a monetary reward. Call Beth at the office for more information.

**Graphic Designers** • We are still looking for more designs to use as club's logo. So earn the first of these items by submitting to me or to the office a winning design.

**Apple II Users** • Not enough

exposure in the Journal for your computer? Would you like to see specific products reviewed? If so, your ship has arrived. If you can help, call Deborah Hoyt at (703) 450-0714. • John Ruffatto is looking for Apple users to test and write short functional descriptions of software submitted to the disketeria. This is an easy and fun job to take on that does much good for the club. If you can help, please give John a call at (301) 735-4259.

**Mac Users** • Memory Upgrade night. We are looking toward setting up a workshop on Tuesday, January 7 from 7:00 PM to 8:30 PM. Helpers, tool loaners, and upgraders should call the office to get more information or to sign up.

**Disketeria** • Work with our large ShareWare library. See Library volunteers box which appears on page 4.

**Tutorial Instructors** • Share your computer function or software expertise with others. Call Keith Malkin (703) 503-8591.

### Special Project Needs

• **Journal Editor:** Apple II.  
Skill Level: Moderate to expert.  
Time Commitment: Flexible about 5 to 20 hours a month.



Typical Actions: Encourage members to submit articles for the Journal. Assist authors, edit articles. Request product(s) from manufacturers for review, and assign products to members to write reviews.

Bennies: Doing good, meet people, add to your résumé, get to read the good stuff before it's published.

Project Leader: Deborah Hoyt, (703) 450-0714.

• **The Pi's Booth:** FOSE (Mar. 30-Apr. 2) MacWorld New York - TBD.

Skill Level: Novice to expert.

Time Commitment: Very flexible, one or many hours.

Typical Actions: Set up/take down booth. Man booth, pass out Journals and membership applications.

Bennies: Meet people, free Exhibitor's admission.

Project Leader - Open

**Volunteer of the Month**

The unthanked volunteer.

As we begin a new year I'd like to thank those whose efforts got us this far. Some are names in the Journal and on the TCS; some are faces at a meeting; some are voices on the phone, or a note in the mail. They are everywhere. Our successes come from their efforts. Many of them have worked hard and long without recognition. Too often we were quick to criticize them yet slow to help or even thank them. For their perseverance and good deeds, I offer thanks and the news that I am encouraged by the response of those who are answering the call to help. The future is bright only because of your past efforts. May '92 be our best year yet.

*Tom Witte can be reached at 703 683 5871.*

**Bylaws Amendments**

Dana J. Schwartz, Secretary, Washington Apple Pi, Ltd.

The following Bylaw amendments were approved by the Washington Apple Pi, Ltd. Board of Directors at their regular meeting on November 13, 1991. Removed language has been ~~stricken~~, added language has been underlined.

**Article VII - BOARD OF DIRECTORS**

SECTION 3. TERM. Directors shall serve for a one year term beginning ~~July~~ June 1.

**Article IX - ELECTIONS**

SECTION 1. NOMINATIONS. Nominations for President, the two Vice-Presidents for Programs, Secretary, Treasurer and Director-at-Large shall be ~~submitted during the month of April. The nominations may be made at the April~~ March Regular Membership Meeting or ~~sent by mail to received by~~ the Secretary through the Corporation's office prior to that date.

**Article IX - ELECTIONS**

SECTION 3. BALLOTING. An election shall be completed ~~during the month of June by May 31~~ except to the extent that a runoff election shall be required by Section 4 or that the Election Challenge Committee appointed by the Board of Directors determines that a new election is necessary. Only members in good standing on ~~the last business day before the Regular Membership Meeting in May~~ April 1 may vote in the election. A ballot shall be mailed or hand-delivered to each member in good standing. Each ballot may cast one vote for each office, except that up to ten votes (noncumulative) may be cast for Director-at-Large. ~~Prior to each annual election, the Board of Directors shall establish a deadline for the receipt of ballots.~~

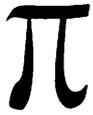
**Article IX - ELECTIONS**

SECTION 4. RESULTS. In the event that any candidate for Director-at-Large is also elected as an officer, such candidate shall not be eligible for election as a Director-at-Large. The ten eligible candidates for Director-at-Large with the greatest number of votes shall be elected. The election tellers shall certify the results of the election within 10 days of the deadline for the receipt of ballots established under Section 3. In the event of a tie vote, the other members of the Board of Directors elected in the election shall at the first regular meeting of the Board elect one of the tied candidates. In the event that no candidate for President receives a majority of votes cast for the office of President, a runoff election shall be held between the two candidates receiving the most votes. The runoff election shall be completed in ~~July~~ June. Only members in good standing ~~the day before the June Regular Meeting on April 1~~ are eligible to vote in any runoff election.





Raesly, Leon H.	9/69	disks	Payne, Steven	7/12	games	<b>Mail-Order—Or Not?</b>		
<b>dPubSIG</b>			<b>FACES for the Mac</b>			O'Reilly, John	6/34	mail order
Ravitz, Larry	1/13	dPub	Payne, Steven	2/70	games	<b>Mentor Program Update</b>		
<b>Avoiding Body Bags</b>			<b>Audubon Wildlife Adventures: Whales</b>			DeVera, Manny	1/18	mentor program
Raesly, Leon H.	2/18	dPub	Hyatt, Carol & Seth	3/64	games	<b>Mentors —Another View</b>		
<b>Busy, Busy, Busy</b>			<b>Playroom</b>			Hyatt, Carol	1/19	mentor program
Raesly, Leon H.	4/23	dPub	Blumenstein's Dad, Amy	5/70	games	<b>Music Mouse</b>		
<b>EdSIG</b>			<b>War Games</b>			Weixler, Reinhard	1/23	music
Childers, Tim	1/13	education	Hutchinson, Reid	7/57	games	<b>Music SIG</b>		
Shapiro, Phil	4/13	education	<b>HyperTalk SIG Report</b>			Moser, Ed	10/9	music
Shapiro, Phil	5/11	education	Mudd, D. & Witte, T.	8/11	HyperCard	Moser, Ed	11/11	music
Shapiro, Phil	7/11	education	<b>HyperCard 2.0 — What's Wrong?</b>			Moser, Ed	12/11	music
Shapiro, Phil	8/13	education	Metzenberg, Howard	9/42	HyperCard	<b>Connections: New Ways of Working In the Networked Organization</b>		
Shapiro, Phil	9/11	education	<b>HyperTalk SIG</b>			Shapiro, Phil	11/28	networks
Moser, Ed	10/11	education	O'Reilly, John	10/10	HyperTalk	<b>Paper Direct</b>		
Shapiro, Phil	11/13	education	<b>In the Pi Pan...</b>			Pastura, Lou	7/38	paper
Shapiro, Phil	12/15	education	Hoyt, Debbie	10/5	Journal	<b>ImageWriter Pricing: A Lament</b>		
<b>An Apple For the Teacher?</b>			Hoyt, Debbie	11/5	Journal	Shapiro, Phil	2/5	printers
Evry, Karen L.	6/70	education	Hoyt, Debbie	12/5	Journal	<b>Choosing A Printer</b>		
<b>Collecting Words</b>			<b>Dvorak Tutorial for Apples and Macs</b>			Begleiter, Ralph J.	5/48	printers
Shapiro, Phil	6/71	education	Spevak, Michael	11/45	keyboards	<b>PostScript Laser Tips</b>		
<b>Revolution Didn't Fizzle</b>			<b>Germantown Community Library Offers Public Access To Apple IIGS For Kids</b>			Liao, Ambrose	7/39	printers
Shapiro, Phil	8/81	education	Shapiro, Phil	10/60	libraries	<b>Apple IIe's Help Psychology Researchers Unlock the Mysteries of Human Mind</b>		
<b>SIMS Takes Student Monitoring to New Level</b>			<b>Care/Feeding of Your Computer: Part 1: Rodent Hygiene/Pest Control: The Story</b>			Shapiro, Phil	10/59	psychology
Lottero, Janet M.	12/43	education	Witte, T.M.	11/51	Mac info/ Novice	<b>Something's Not Quite Right In the Publishing World Today</b>		
<b>Help For Excel 2.2</b>			<b>Software For MacNovices—1</b>			Shapiro, Phil	12/26	publishing
Reynders, Tom	5/46	Excel	Begleiter, Ralph J.	6/25	Mac novices	<b>PageMaker 4.0</b>		
<b>FileMaker Non-Pro</b>			<b>Software for MacNovices — 2</b>			Potter, Frank	1/24	review
Martin, Kevin	8/43	FileMaker Pro	Begleiter, Ralph J.	7/26	Mac novices	<b>CheckWriter II</b>		
<b>TrueType — The True Story</b>			<b>And Still We Move</b>			Kistner, Frank R.	1/26	review
Knight, Ken	5/55	fonts	Wolov, Robb	1/21	Mac sundry	<b>Fractal Programming in C</b>		
<b>Exploring Typefaces-1-10</b>			<b>Bits &amp; Bytes</b>			Hoyt, Thomas	1/28	review
Potter, Frank	3/16	fonts	Trusal, Lynn R.	1/36	Mac sundry	<b>Correct Grammar</b>		
Potter, Frank	4/16	fonts	Trusal, Lynn R.	2/34	Mac sundry	Wahl, Dan	1/34	review
Potter, Frank	5/19	fonts	<b>Notes On the Mac</b>			<b>Handwriting Analyst</b>		
Potter, Frank	6/18	fonts	Schlosser, Paul	1/30	Mac sundry	Lee, Christopher S.	1/42	review
Potter, Frank	7/20	fonts	Schlosser, Paul	2/30	Mac sundry	<b>Letter Writer Plus</b>		
Potter, Frank	8/18	fonts	Schlosser, Paul	3/26	Mac sundry	Reynders, Tom	1/44	review
Potter, Frank	9/16	fonts	Schlosser, Paul	4/32	Mac sundry	<b>Math Blaster Mystery</b>		
Potter, Frank	10/16	fonts	Schlosser, Paul	5/29	Mac sundry	Sternberg, Shari	1/68	review
Potter, Frank	11/16	fonts	Schlosser, Paul	6/28	Mac sundry	<b>Super Story Tree</b>		
Potter, Frank	12/18	fonts	Schlosser, Paul	7/31	Mac sundry	Evry, Ron	1/73	review
<b>DTP Legal Issues—Part 1</b>			Schlosser, Paul	8/31	Mac sundry	<b>Centauri Alliance</b>		
Kaye, Harvey	6/32	fonts	Schlosser, Paul	10/22	Mac sundry	Cranite, David	1/74	review
<b>Changing Times (and Helvetica and ...)</b>			Schlosser, Paul	12/33	Mac sundry	<b>DocuComp 1.5</b>		
Todd, David	9/36	fonts	<b>Apple Licenses Mode32</b>			Potter, Frank	2/20	review
<b>GameSIG</b>			Schlosser, Paul	11/39	Mac sundry	<b>Disk Ranger</b>		
Payne, Steven	1/14	games	<b>Macintosh Toolbox</b>			Nealon, Kevin	2/23	review
Payhne, Steven	2/10	games	Rivas, Jean-Marc	11/37	Mac toolbox	<b>MacFlow 3.1.5</b>		
Skalicky, Jim	4/12	games	<b>MacWorld Expo</b>			Samuels, Michael	2/24	review
Payne, Steven	5/11	games	Schwartz, Dana	11/46	MacWorld	<b>Inexpensive PostScript Printers</b>		



Pastura, Lou	2/27	review	Hayman, Gary	4/69	review	Page, Chester H.	8/75	review
<b>SPSS 4.0</b>			<b>MacDraft</b>			<b>Quick Look At a Monitor</b>		
Tesh, Brad	2/32	review	Lange, Blake	5/24	review	Raesly, Leon H.	8/77	review
<b>ChesaMaster 2100</b>			<b>PictureLink for 4th Dimersion</b>			<b>SuperConvert</b>		
Wages, Dan	2/36	review	Pulgino, Bob	5/32	review	Robey, Adam	8/80	review
<b>PLI TurboFloppy 1.4</b>			<b>Macintosh Bible</b>			<b>Panorama 1.5</b>		
Geer, Chas	2/38	review	Childers, Tim	5/38	review	Farquahr, Robert	9/39	review
<b>Dueling SCSI Cards</b>			<b>Market Master</b>			<b>101 Buttons &amp; Scripts For HyperCard</b>		
Tarantino, Paul	2/47	review	Board, Jim	5/50	review	Goldberg, Gary	9/40	review
<b>Sidling Up To A Ramfast</b>			<b>Mac's Sign of the Times</b>			<b>HyperSpeller</b>		
Hayman, Gary	2/49	review	Jensen, Bill	6/36	review	Witte, T. & Mudd, D.	9 44	review
<b>CoPilot to the Services</b>			<b>Random House Encyclopedia, (EE)</b>			<b>HyperTools 1 and 2</b>		
Zeman, Rick	2/62	review	Wahl, Dan	6/38	review	O'Reilly, John	9/46	review
<b>Talking Money</b>			<b>Books About Desktop Publishing</b>			<b>KanjiMaster</b>		
Slaven, Dan & Sarah	2/64	review	Potter, Frank	6/47	review	Farquahr, Robert	9/53	review
<b>Amusing Large-No. Activities for Kids</b>			<b>StyleWriter Printer — A First Look</b>			<b>Partners LTD</b>		
Shapiro, Phil	2/66	review	Jensen, Bill	6/48	review	Cotton, Ira W. D.B.A.	9/54	review
<b>Disk Doubler</b>			<b>Typing Instructor Encore</b>			<b>SuperLab</b>		
Andrews, Brad	3/25	review	Andrews, R. Bradley	6/52	review	Shapiro, Phil	9/56	review
<b>MacSchedule Plus</b>			<b>VideoPaint</b>			<b>Review and Preview: WriteNow</b>		
McAfee, Deirdra	3/29	review	Drag, Teresa J. S.	6/56	review	Slobins, Jon	9/57	review
<b>MacInTax</b>			<b>Look Mom, No Menus</b>			<b>Math Blaster</b>		
Kistner, Frank R.	3/33	review	Pastura, Lou	6/58	review	Jensen, Bill	10/26	review
<b>Cheshire 1.0</b>			<b>Videotex...For You?</b>			<b>Animation Works</b>		
Oren, Dan A., M.D.	3/35	review	O'Hare, Regina	6/76	review	Slobins, Jon	10/28	review
<b>Great GANTT and FastTrack Schedule</b>			<b>FileMaker Pro</b>			<b>Canvas 3.0</b>		
Porterfield, Jeff	3/36	review	Page, David K.	7/34	review	Baldrige, Bill	10/31	review
<b>Easy Kana</b>			<b>My Hero: Mac Tools Deluxe</b>			<b>CalenDAR</b>		
Farquahr, Robert	3/40	review	Peterson, Chester, Jr.	7/36	review	Hoyt, Thomas	10/35	review
<b>InWords</b>			<b>Lost and Found</b>			<b>SoftPC</b>		
Raesly, Lee	3/49	review	Pastura, Lou	7/48	review	Bastian, Chris	10/37	review
<b>Applied Engineering Transwarp GS Versus Zip GSX 1600X</b>			<b>Publish It! Easy</b>			<b>HyperMover</b>		
Shebyn, Vincent	3/58	review	Holzberger, Sheila	7/50	review	Erwin, Jeremy	10/69	review
<b>Number Squares</b>			<b>OmniPage 2.12</b>			<b>ProSel 16 Fancy Screens</b>		
Mutz, Barbara	3/63	review	Potter, Frank	7/52	review	Wydro, Bill	10/73	review
<b>SoftDisk GS</b>			<b>Learning About Laptops</b>			<b>FrameMaker 3.0</b>		
Mortimer, Jack	3/68	review	Shapiro, Phil	7/67	review	Chernoff, Paul	11/30	review
<b>MacProof</b>			<b>Amazing Fun</b>			<b>Word Perfect 2.0</b>		
McAfee, Deirdra	4/34	review	Lange, Blake	8/26	review	Bloomfield, D. M.	11/35	review
<b>Editorial Advisor</b>			<b>StatView II</b>			<b>Magic It says — Magic It Is!</b>		
Bloomfield, Douglas M.	4/40	review	Gunn, Tim	8/37	review	Raesly, Leon H.	11/53	review
<b>Sailboat Dynamics Simulator</b>			<b>Little Review Article</b>			<b>New Star From Co-Star</b>		
Cimmery, Kim	4/42	review	Slobins, Jon	8/41	review	Pastura, Lou	12/36	review
<b>Powericons</b>			<b>No More Pain In Planning</b>			<b>Phil Up With "at Your Service"</b>		
Hoyt, Thomas	4/51	review	Campbell, Jim	8/42	review	Slobins, Jon	12/38	review
<b>Art of Human - Computer Interface Design</b>			<b>More Filling, But Tastes Great</b>			<b>Selling the Dream: A Call to Reality</b>		
Shapiro, Phil	4/57	review	Slobins, Jon	8/60	review	Charters, L. I.	12/41	review
<b>Spell It Plus</b>			<b>Companion Plus</b>			<b>Ultimate Guide PageMaker 4: An Easy Desk Reference</b>		
Althelm, Judith	4/68	review	Raesly, Leon H.	8/72	review	Charters, L.I.	12/46	review
<b>Columns v. 2.0</b>			<b>Imager</b>			<b>NOW Utilities 3.01 Is Grrrrreat!</b>		



Milrod, Martin	12/52	review	<b>Computers - Over Easy?</b>	Cherencov, Pavel	10/62	USSR
<b>Flicks 'N' Chips: Movie Trivia Game</b>			Baird, Andy	2/14	surge suppressors	
Feller, Stan	12/63	review	<b>How to Determine the First of the Year or System 6.0 Software is Here!</b>	Begleiter, Ralph J.	3/21	virus
<b>New Graphic Exchange</b>			Evans, Lorin	12/72	Sys, 6.0, A-II	
Hayman, Gary	1/71	review - Apple II	<b>System 7.0 — The Hitchhikers Guide</b>	Witte, Tom	10/13	volunteers
<b>GS+ Magazine</b>			Rall, Eric	6/40	System 7	
Evangelista, Frank	1/67	review magazine	<b>System 7: The Restaurant at the End of the Universe</b>	Witte, Tom	11/14	volunteers
<b>Review Update</b>			Rall, Eric	7/13	System 7	
Pastura, Lou	7/10	review status	<b>System 7.0 Discoveries</b>	Witte, Tom	12/16	volunteers
Pastura, Lou	5/10	reviews	Wolov, Robb	7/28	System 7	
<b>InWords Tips</b>			<b>Life, the Universe and Everything</b>			
Hayman, Gary	4/70	scanning	Rall, Eric	8/24	System 7	
<b>Using AppleWorks For InWords Files</b>			<b>Even More System 7.0 Stuff</b>			
Hayman, Gary	4/73	scanning	Wolov, Robb	8/28	System 7	
<b>Don't Scan</b>			<b>System 7.0: Should You Make the Switch?</b>			
Raesly, Lee	5/16	scanning	Begleiter, Ralph J.	8/35	System 7	
<b>Neat Tricks: Illustrator and FileMaker Pro</b>			<b>How To Install System 7.0</b>			
Martin, Kevin	6/54	shortcuts	Norstad, John (ed. by L. Pastura)	8/53	Sys. 7	
<b>Columbia Apple Slice</b>			<b>How to Use System 7</b>			
Childers, Tim	1/12	slices	Norstad, John (ed. by L. Pastura)	9/22	Sys. 7	
Cook, Tom	4/11	slices	<b>••••AppleWorks Tax /</b>			
Cook, Tom	6/11	slices	Koskos, Paul	3/71	tax	
Cook, Tom	9/11	slices	<b>Taxes and the Home Business [reprinted BMUG]</b>			
Cook, Tom	11/12	slices	Attard, Janet	3/12	taxes	
Cook, Tom	2/10	slices	<b>Fonts and Taxes</b>			
Childers, Tim	8/11	slices	Potter, Frank M.	3/5	taxes, fonts	
<b>Unscrambling Spelling Checkers</b>			<b>Conference 5</b>			
Begleiter, Ralph	4/26	spell checkers	Harvey Dave	9/71	TCS	
<b>President's Column</b>			<b>History of the WAP TCS</b>			
Rall, Eric	1/9	sundry	Raesly, Lee	11/24	TCS	
<b>President's Lair</b>			<b>Village Messenger, A Perspective On Computer Communications</b>			
Rall, Eric	3/9	sundry	Elkes, Jay	11/26	telecom.	
Rall, Eric	4/9	sundry	<b>TimeOut TextTools</b>			
Rall, Eric	5/9	sundry	Oringel, Robert S.	2/68	TimeOut series	
Rall, Eric	6/9	sundry	<b>Tutorials and Seminars</b>			
Rall, Eric	7/9	sundry	Clark, Rob	1/88	tutorials	
Rall, Eric	8/9	sundry	Clark, Rob	2/83	tutorials	
<b>Potpourri</b>			Clark, Rob	3/83	tutorials	
Wolov, Robb	4/38	sundry	Clark, Rob	4/91	tutorials	
<b>What's Happening ...</b>			Clark, Rob	5/78	tutorials	
Potter, Frank M.	4/5	sundry	Malkin, Keith	6/82	tutorials	
Potter, Frank M.	5/5	sundry	Malkin, Keith	7/82	tutorials	
Potter, Frank	6/5	sundry	Malkin, Keith	8/84	tutorials	
Potter, Frank	7/5	sundry	Malkin, Keith	9/82	tutorials	
Potter, Frank M.	8/5	sundry	Malkin, Keith	10/43	tutorials	
Potter, Frank M.	9/5	WAP election	Malkin, Keith	11/42	tutorials	
<b>So Long, and Thanks For All the Fish</b>			Malkin, Keith	12/58	tutorials	
Rall, Eric	9/9	sundry	<b>User Groups As Conduits</b>			
<b>Good Times Roll On...</b>			Shapiro, Phil	1/15	User Groups	
Wolov, Robb	5/26	sundry Mac	<b>PC World Forum '91</b>			

## Exploring Typefaces — 12

by Frank Potter

The typefaces of the month are more along the lines of what you might see in a normal day than those we looked at last month. (Actually, I had one that sure wasn't anything like what you will see, except on business cards, but we're a touch short of space this month, so you will just have to wait for it.)

### Nofret (219)

Nofret is one of the Berthold typefaces. It is not derived from an historical typeface, but was rather created as an original—literally, one might say, from scratch. It resembles Walbaum and Bodoni (typefaces which you will undoubtedly remember from earlier times) in that the vertical strokes are significantly bolder than the horizontal strokes and the serifs are straight (which is to say that they don't take off at an angle).

Nofret retails for \$370, but you can generally find it at mailorder houses for something like \$239. It was an original design for Berthold.

Nofret comes in eight flavors: Regular, Italic, Light, Light Italic, Medium, Medium Italic, Bold and

bold Italic. No surprises here—just a clean, workmanlike job of presenting an attractive typeface.

### Galliard (17, 192)

This typeface is distinguished by the vertical stress on the rounded letters, such as the "o," and the oblique angle on the ascenders. Its particular distinction lies in attention to detail. Perceptive readers will also note the face that, unlike most typefaces, the vertical lines in the "M" are splayed.

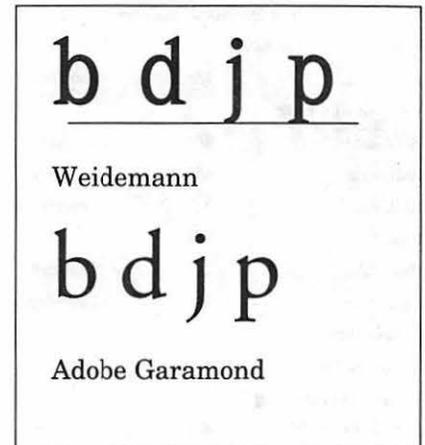
Each of the Galliard packages retails at \$185 (mailorder around \$120). Galliard 1 (17) contains the Roman and Bold typefaces, together with their italic avatars; Galliard 2 (192) has the Black and Ultra (like, really black) versions, with italics.

### Weidemann (131)

Weidemann is characterized by quite a high x-height, and you will notice that the upper-case "M" is even more widely splayed than it was in the Galliard package. It is a remarkably comfortable typeface to me—it is easy to read and many consider it attractive without being quite sure why that is so.

I have used it in a number of documents prepared for general release, and the reaction has frequently been an inquiry into the font that I used.

Notice the rather extreme difference between the x-height and the ascenders in the following example, as compared with Adobe Garamond. Both of the examples are 36 on 38, in case you were



wondering

The face sells for \$370, and includes eight different forms: Book, Medium, Bold and Black, and their italic versions.



# Nofret

ABCDEFGHIJKLMNO  
 PQRSTUVWXYZabcde  
 fghijklmnopqrstuvw  
 xyz 1 2 3 4 5 6 7 8 9 0 &

ABCDEFabcdef Nofret Regular

*ABCDEFabcdef Nofret Italic*

ABCDEFabcdef Nofret Light

*ABCDEFabcdef Nofret Light Italic*

**ABCDEFabcdef Nofret Medium**

***ABCDEFabcdef Nofret Medium Italic***

**ABCDEFabcdef Nofret Bold**

***ABCDEFabcdef Nofret Bold Italic***

The rabbit-hole went straight on like a tunnel for some way, and then dipped suddenly down, so suddenly that Alice had not a moment to think about stopping herself before she found herself falling down a very deep well.  
10/10

The rabbit-hole went straight on like a tunnel for some way, and then dipped suddenly down, so suddenly that Alice had not a moment to think about stopping herself before she found herself falling down a very deep well.  
10/12

The rabbit-hole went straight on like a tunnel for some way, and then dipped suddenly down, so suddenly that Alice had not a moment to think about stopping herself before she found herself falling down a very deep well.  
10/14

π

# Galliard

ABCDEFGHIJKLMN  
 OPQRSTUVWXYZabc  
 defghijklmnopqrstuvw  
 xyz1234567890&

ABCDEFabcdefg—Galliard Roman  
*ABCDEFabcdefg—Galliard Italic*  
 ABCDEFabcdefg—Galliard Bold  
*ABCDEFabcdefg—Galliard Bold Italic*  
**ABCDEFabcdefg—Galliard Ultra**  
***ABCDEFabcdefg—Galliard Ultra Italic***  
**ABCDEFabcdefg—Galliard Black**  
***ABCDEFabcdefg—Galliard Black Italic***

The rabbit-hole went straight  
 on like a tunnel for some way,  
 and then dipped suddenly down,  
 so suddenly that Alice had not a  
 moment to think about stopping  
 herself before she found herself  
 falling down a very deep well.  
 10/10

The rabbit-hole went straight  
 on like a tunnel for some way,  
 and then dipped suddenly down,  
 so suddenly that Alice had not a  
 moment to think about stopping  
 herself before she found herself  
 falling down a very deep well.  
 10/12

The rabbit-hole went straight  
 on like a tunnel for some way,  
 and then dipped suddenly down,  
 so suddenly that Alice had not a  
 moment to think about stopping  
 herself before she found herself  
 falling down a very deep well.  
 10/14

# ITC Weidemann



ABCDEFGHIJKLMNO  
PQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
123456  
7890 &

ABCDEFGHIabcdefgh Weidemann Book  
*ABCDEFGHIabcdefgh Weidemann Book*  
*Italic*

ABCDEFGHIabcdefgh Weidemann Medium  
*ABCDEFGHIabcdefgh Weidemann Medium*  
*Italic*

ABCDEFGHIabcdefgh Weidemann Bold  
*ABCDEFGHIabcdefgh Weidemann Bold*  
*Italic*  
ABCDEFGHIabcdefgh Weidemann Black  
*ABCDEFGHIabcdefgh Weidemann Black*  
*Italic*

The rabbit-hole went straight on like a tunnel for some way, and then dipped suddenly down, so suddenly that Alice had not a moment to think about stopping herself before she found herself falling down a very deep well.  
10/10

The rabbit-hole went straight on like a tunnel for some way, and then dipped suddenly down, so suddenly that Alice had not a moment to think about stopping herself before she found herself falling down a very deep well.  
10/12

The rabbit-hole went straight on like a tunnel for some way, and then dipped suddenly down, so suddenly that Alice had not a moment to think about stopping herself before she found herself falling down a very deep well.  
10/14

# Artists on exhibit

by Ann Aikin

*This column will look at the art and artists of Washington Apple Pi and the techniques and tools used to create the art.*

**Artist info:** Carolyn Steele is our WAP artist this month. Carolyn has had her own graphic design business in Annandale, Virginia, for seven years. She was educated in England and obtained a B.A. from the University of Kent at Canterbury.

**Tools:** Mac IIfx, Aldus FreeHand 2.0, Broderbund TypeStyler 1.5, PageMaker 4.0, and ScanMan/Adobe Streamline.

**Techniques:** "My work is mainly design and layout. To create publications, my clients give me a disk and I convert the type in PageMaker. For logo and cover designs, I start with pencil sketches and

take them immediately to finished art on the Mac. I'll often scan in an organic shape, then convert it through Streamline into FreeHand so that it has handles and I can



manipulate it and use different fills. My technique has always been to use graduated and radial fills, so the computer has made my work a lot easier and more fun!

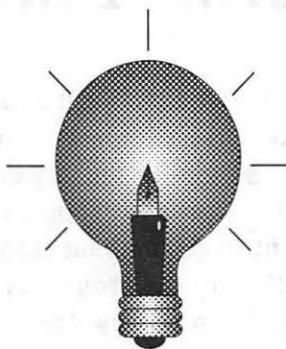
"The *Write Idea* design was for a promotional brochure for a freelance writer. It was drawn entirely in FreeHand. First, I created the light bulb shape and filled it with a radial fill. Then I drew the pen point with the corner tools and filled it with a graduated screen at an angle. The pen body was done with the rounded corner rectangle tool



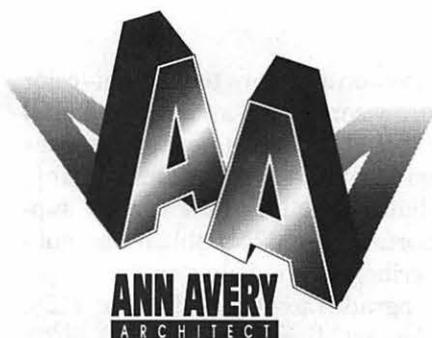
and then distorted. The screw part was done with the rounded corner rectangle with a 14° radius on the corner and filled with a radial fill. The point of light on the pen was drawn with the oval tool and filled with white. The 'rays' were drawn with the line tool. The type underneath is Cheltenham Ultra, condensed to 65%. (30 min.)

"I scanned in the coyote shape in the *Camelback Golf Club* logo. I also scanned in the golf ball (from a xeroxed photo) and the scarf. The scarf was filled with a FreeHand pattern. Every other shape was created with tools and fills available in the FreeHand menu. (2 hrs.)

The brochure *Financial Management for Movers* was done in FreeHand. The dollar sign was the most difficult because FreeHand 2.0 limited me to using the FreeHand tool to create a shape that had to look controlled and geometric. The rest of the project was fairly easy. The



**The Write Idea**



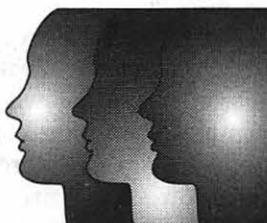
truck is made of 15 shapes, using the rectangle, line and circle tools, filled with black or white (4 hrs.).

"The *First Star* logo is for a telecommunications company which specializes in TV and video ad spots. The logo was done in Tpestyler. The font is Bodoni Poster, very condensed. I tilted the star and gave it a zoomed effect to suggest dynamic movement (15 min.).

"For the *Ann Avery* logo I made an 'A' into a 3-D block and filled it with a dual blend giving it a metallic look. I used a white inline and a black outline to give it definition and created perspective by using the perspective mode. I used the panel tool to alter the perspective to the exact angle I desired. To create the shadow, I cloned the A's simple shape and using the perspective mode again I pulled it down with the panel tool to create a shadow effect, filling it with a graduated

screen. For the second A, I cloned the first A, reflected it, and moved it around until I found a position that was right (40 min.).

The logo for *Otolaryngology Associates* was created in FreeHand 2.0. I did not have a scanner, so I drew



**OTOLARYNGOLOGY ASSOCIATES, INC.**

the profile shape with the Freehand tool and cloned it twice. I created the highlight effects on different heads by using radial fills and positioned them by using the 'cut' and 'paste inside' commands which gives you control over where you want the glow to be (1 hr.).

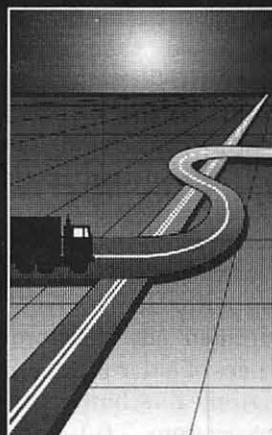
"Because the Mac is such an intuitive system, it's difficult to explain how certain effects are created. You feel your way along, and one step can lead to another in ways you'd never planned. That is what makes it such an exciting resource. It has completely recharged my creative batteries!"

To submit art by mail, send a copy on disk and a hard copy to:

**Ann Aiken**  
**9212 Cedarcrest Drive**  
**Bethesda, MD 20814**

To submit art by modem to the TCS, dial (301) 986-8085. At the Main Menu select (F) for File Transfer Area. Then choose area 24 for Journal Submissions, and upload.

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# Notes on the Mac

by Paul Schlosser

## System 7.0.1 Released

Along with the announcement of the new Mac PowerBook, Classic II and Quadra computers, Apple has released System 7.0.1. Apple stated that the new version of the operating system is for the new models only and that it offered no significant advantages for older Macs; (the System 7.0.1 upgrade is only offered on 1.44 MB high-density disks.) however, users have learned that 7.0.1 offers dramatic improvements in speed when a program makes use of the floating-point-unit (FPU). Apple has since advised that 7.0.1 enhances the Standard Apple Numeric Environment (known as SANE, a ROM-based math package). After testing the top ten best-selling software programs without detecting performance advantages, Apple decided not to recommend that owners of older Macs upgrade to 7.0.1. Apple has, however, begun shipping System 7.0.1 with new Macintoshes.

## Claris begins shipping ClarisWorks

Claris has begun shipping ClarisWorks, a new integrated ap-

plication similar to the ever popular Microsoft Works. ClarisWorks fully integrates word processing, graphics, spreadsheet, database, charting and communications in a single application. Early reviews that I've read have been very favorable. One owner described how the process of importing spreadsheet information into the word processor will give you a complete, working copy of your spreadsheet in the word processor window. You can make changes to the spreadsheet information in the word processor window, just as if you were still in the spreadsheet window. The graphics commands are also available in each window. Owners of Great-Works, RagTime, or Microsoft Works can purchase ClarisWorks for \$99 (this offer ends 1/31/92). The list price is \$299. Contact Claris at 800-544-8554.

## Microsoft Word 5.0 Announced

Microsoft is scheduled to begin shipping Word 5.0 in January '92, with new features, a more accessible interface, and improvements to existing features. Word 5.0, which lists for \$495, will have Excel-like buttons for text formatting, column

creation and draw tools, eight-color draw capability, an improved mail merge function, a new preferences window and a new summary info dialog box. This new version supports System 7's publish and subscribe, balloon help and TrueType. Upgrades to version 5.0 are \$129. Contact Microsoft at 206-882-8080.

## New TrueType Fonts for StyleWriter and LaserWriter LS Owners

Owners of the StyleWriter or LaserWriter LS can purchase 22 new TrueType fonts from Apple for \$18. By purchasing these fonts, the StyleWriter and LaserWriter LS owners will have the same set of 35 fonts as other Apple LaserWriters. The set consists of four styles each of Avant Garde, Bookman, Helvetica Narrow, New Century Schoolbook, Palatino, Zapf Chancery and Zapf Dingbats. You can purchase these fonts by sending a StyleWriter or LaserWriter LS proof-of-purchase seal, a check for \$18, and a coupon available from your Apple dealer. This offer ends on 1/5/92 and, unfortunately, is not available to owners of other Apple printers. A new driver for the StyleWriter is scheduled for



release in January as Apple strives to bolster the performance of the slow inkjet printer.

### **GDT Announces BetterWriters**

GDT Software has released BetterWriters, a new printer driver package for the Apple StyleWriter, ImageWriter, and the Hewlett-Packard DeskWriter. BetterWriters sells for \$69, and offers the following features: 1) reduction and enlargement from 1 to 400 percent in 1% increments; 2) grayscale pattern matching; 3) custom paper sizes; 4) back-to-front printing; 5) even/odd page selection; 6) a cover-page option; 7) three-up label printing and 8) supports the Mac Communications Toolbox. BetterWriters works with System 6.0.2 or later, and supports Adobe Type Manager and TrueType. You can contact GDT Software at 800-663-6222.

### **Connectix Launches HAND-Off II**

Version 2.2.1 of HAND-Off II has been released and is free to registered owners of older versions. This new version is System 7 compatible and works with the newest Mac models. HAND-Off II allows users to customize the way they interact with their Macs. For example, you can set the selections in the menu bar to drop automatically when you place the cursor over the menu bar item (no click required), or you can set it to require a click but keep the menu down until you click again on a selection. You can also configure the "Anywhere Menu," which pops up anywhere on the screen when a user-definable set of keys is pressed. The "Anywhere Menu" can be used to launch your most frequently used applications or documents. Addi-

tional features are the ability to customize the Apple Menu under System 7 (making it hierarchical), custom set the screen depth and sound volume when launching certain applications, and launch a user-defined application when the Mac would ordinarily give you the "that application is busy or missing" window. Owners of OnCue, NOW Utilities or HAM can upgrade to HAND-Off II for \$35. Contact Connectix at 800-950-5880.

### **Supra Announces New Modems**

Supra Corporation has added three new modems to its product lineup. The first is the SupraFAX Modem V.32 bis, for \$400, which operates at 14,400 bits-per-second (bps) for both data and send/receive fax operation. The SupraFAX Modem V.32, for \$300, offers 9,600 bps operation for data and send/receive fax, while the new SupraFAX Modem Plus, for \$250, operates at 2,400 bps data and 9,600 send/receive fax. These new modems come bundled with a cable and MicroPhone v. 1.5 communications software, as well as starter kits for America Online and CompuServe. Contact Supra Corporation at 503-967-2400.

### **New SCSI Cables Available**

Have you ever spent hours wrestling with SCSI problems only to eventually figure out that your SCSI cable was at fault? Berkeley Data Access is now offering a new series of double-shielded, high-impedance SCSI cables designed to end these problems. Named the Apple Premium line, the new cables feature a full-length ground wire twisted around each of the 19 information wires in the cable and grounded at

each end, shielding with 90 percent-density copper braid, connectors wrapped in copper foil and 360 degree soldering of the braid and copper wrapping at both ends of the cable. These new cables are available in two, three and six foot lengths and prices start at \$28. Call Berkeley at 510-644-2396.

### **Tidbits**

- There's a rumor that Apple is close to signing an agreement to sell the low-end Macs in Circuit City stores. Another rumor is that Apple will soon allow CompUSA to sell the entire line of Macintoshes, all the way up to the Quadra 900.
- We might soon see a 030 version of the PowerBook 100.
- Apple is considering bundling AccessPC with every Mac sold, similar to the arrangement they made for MODE32.
- Quantum is ready to announce a new line of removable-media drives that surpass the performance of the current line of SyQuest drives, by offering greater drive capacity and better reliability.
- Microsoft is working on a new version of Works, and hopes to release it in the first few months of 1992.
- System 7.1 is being readied for release sometime early in 1992, and there will be two ways for user's to upgrade. You can update to 7.1 the standard way (via the Installer), or you can choose to have the Installer place a 7.1 extension (or two) in your current System 7 system folder. Along with a few bug fixes, System 7.1 will include support for QuickTime and Type 1 fonts.



- Claris has signed an agreement with Motion Works to license the ADDmotion technology for use in HyperCard. ADDmotion is a sophisticated 24-bit color paint, animation and sound external for HyperCard.
- The new PowerBooks are getting rave reviews and are in short supply.
- In a move to help the environment, Apple has stopped using bleached white boxes to ship its products in. The new boxes are "kraft" brown and allow the use of recycled fiber.
- Independently run tests show that the new Mac models outperform comparable Windows-based computers by a significant margin.
- Apple is working on a RISC-based printer and hopes to ship this new LaserWriter in March 1992. The Personal LaserWriter NTR (street price, \$2,000) will print three to five times faster than the LaserWriter NT and offer a Centronics parallel interface in addition to the usual serial and LocalTalk ports. Owners of the LS or SC LaserWriters will be able to upgrade to the NTR for \$1,000. The NTR uses the four page-per-minute Canon LX engine and comes standard with 64 fonts and 2 MB of RAM (expandable to 4 MB).

#### New Files on the TCS

The following files were uploaded to the Macintosh File Transfer areas on the TCS during the last thirty days. This listing represents only a small portion of the files available for downloading. Call the Pi Office at 301-654-8060 for information on signing onto the TCS.

**File area 13 - Mac Fonts**  
USPS.BARCODE.SI Bit-mapped font for Postal barcodes

**File area 14 - Mac Games**  
CSTRIKEJ.CPT Color Tactical Air War Game.

DEADLOCK.CPT An ancient puzzle.

MAZEMAKER.99.CP You draw or Mac draws mazes .

HANGMAN.PLUS.2. Hangman v. 2.0 in color .

CRABII.CPT Centipede style arcade game.

WOLVES.CPT Demo of Wolves in the Woods.

OPTSUN.CPT Demo version of Operation Tsunami.

**File area 15 - Mac Graphs.**  
LG.APPLE.LOGO Large Apple Logo.

MORTGAGE.CPT List of Mortgage Lenders.

APPLE.LOGO PICT drawing of the Apple logo.

STAIN.GLASS.CPT Stained glass.

PICT GIFFER.SIT Giffer v. 1.11. Can read PICT, GIF.

**File area 16 - Mac HyperCard**  
ISOTOPES.CPT Isotopes links with chemistry stack.

CHEM.CPT Periodic Table of chemistry elements v. 1.3.

FINDEREV.CPT Send events from HC to Finder.

KNITTING Keep track of knitting projects.

**File area 18 - Mac Utilities**  
RAMDSK.PLUS303 RAMDisk+, v. 3.03 (System 7 compatible).

DW.C.CPT Print driver for the DeskWriter C.

DW.HACK.CPT Modified DeskWriter printer driver.

SPDMETER3.0.CPT Speedometer version 3.0.

SCSI.EVAL.CPT SCSI Evaluator version 1.04.

SYSPICKER1.0B10 System Picker, v. 1.0b10.

EDIT.II.124 Edit II, v. 1.2.4, ShareWare text editor.

SUITCASE.1.2.11 Updates Suitcase II.

FIXSUITC.11B Suitcase II Bug Fix.

CPT SUITCASE.SEA Suitcase II 1.2.11.SEA.

HIERARCH.CPT Hierarchal Apple menu control panel.

LWUTIL71.CPT LaserWriter Utility 7.1 from Apple.

CRAM.BAR.CPT Squeezes top menu to fit everything.

TCS.OFFLINE.2.2 Off-line reader/downloader for TCS.

TCSv2.2.2 CLONE.OFFLINE.2 Off-line reader for Twilite Clone messages.

TCS.OFFLINE.1.0 Off-line reader for TCS messages v. 1.0.2.

APL90.SEA APL—the programming language.

CETOOLBOX.1.6.4 CE Toolbox v. 1.6.4.

MATH.SIT Mathematica Demo.

COLORCURSOR.CPT Color cursor update for System 7.0.

DESKPATDEMO.CPT Large desktop pattern control panel.

SET.CLOCK.CPT Set Clock v. 2.3.

POWERDOW.CPT AD Module will power-down MAC after time.

A091INFO.CPT MacWrite list of System 7 HD drivers & ShareWare.

SOUNDEXTRACTOR. System 7 sound utility.

DEPTHCHARGE.CPT Change color setting.

LOUD.ZEN.CPT Power-on sound from Quadra/PowerBook.

COMPACT.PRO Compact Pro, v. 1.32.



# Word Perfect 2.0 Revisited

by Douglas M. Bloomfield

Word Perfect 2.0 is a significant advancement over its first generation predecessor, as noted in the November Journal (page 35) but it had one important shortcoming—speed—or lack of it.

That sluggishness has been taken care of by version 2.0.3, which is at least 33 percent faster than its predecessor. It is a noticeable and pleasing improvement that has made life and work much easier. Pages rebuild faster and easier. Installation is also easier. Other flaws, such as date stamping have also been corrected.

One problem lingers: a tendency to occasionally crash for no reason. In version 2.03 this only happens when I double-click on a word to highlight it, but only a fraction of the time. The Word Perfect technical support people tell me that they are familiar with the problem and have always been able to track it to an INIT. I have taken out and re-installed my INIT's and not solved the problem.

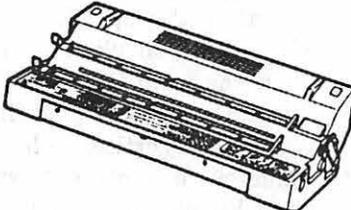
This incremental upgrade probably will be the last before Word Perfect introduces version 2.1 which promises to be System 7 savvy. It is due some time during the first quarter of 1992. It will take advantage of such features as aliases, TrueType, Apple events, and publish and sub-

scribe.

Version 2.0.3 also supports exporting files in Rich-Text Format, the document-exchange format used by Microsoft word processors.

As a result of the improved speed and removal of some minor glitches, I have upgraded my review from generally positive to enthusiastic.

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## ShareWare Envelope DA's

by Vincent S. Shen

Everyone creates letters, and the Post Office (USPS) would prefer to have an envelope around each letter to prevent "folding, spindling, and mutilating" of that letter. After you have created a beautiful letter, wouldn't it be nice if your envelope looked as nice? It would also be nice if, on the envelope, you could add a personal message or picture. Also, if you use bulk mailing or barcode readers to speed the mail to its destination, then you would appreciate that your software has the ability to produce USPS barcodes.

Easy Envelopes v. 2.0.2 and Fast Envelopes v. 2.1.5 are two ShareWare DA's available for downloading on electronic bulletin boards

(BBS's) such as America Online, GEnie and the WAP TCS. They may also be offered on bundled ShareWare disks available from other sources. They are low in cost and non-copy protected; the ShareWare fees are \$15 for Easy Envelopes and \$10 for Fast Envelopes. You must pay the ShareWare fee for Fast Envelopes within 30 days or, after the specified time has elapsed, the envelope printouts will have the word DEMO overlaid on them. Once you've paid the ShareWare fee, Vertical Solutions will send you a copy of the latest version. Easy Envelopes was written by Andrew Welch, who has written other low-cost ShareWare products, in-

cluding screen savers and a text-based editor. Fast Envelopes was written by Vertical Solutions which also offers labeling software for packages or disks.

These ShareWare products have been tested on System 7.0 under 24- and 32-bit modes, as well as on System 6.0.8. They have been tested on a Mac Classic (System 6.0.8 only), a Mac SE/30, and a Mac II CI (systems 6.08 and 7.0). The print capability has been tested on an ImageWriter II and Apple Personal Laser Writer NT. The DA's have not been tested on an Apple Link, but they do function under Apple Talk. Each product has been actively supported by its creator and has undergone continued upgrades from its inception onward. The software packages and documentation are in a compressed format (Stuff-It), and installation is simple. One should read the first few paragraphs of the written documentation before installing either software package.

The documentation for Easy Envelopes was done well; Fast Envelopes documentation while thorough, could benefit from further editing. Installation of Easy Envelopes requires that the DA be placed appropriately in the System folder, and installation of Fast Envelopes

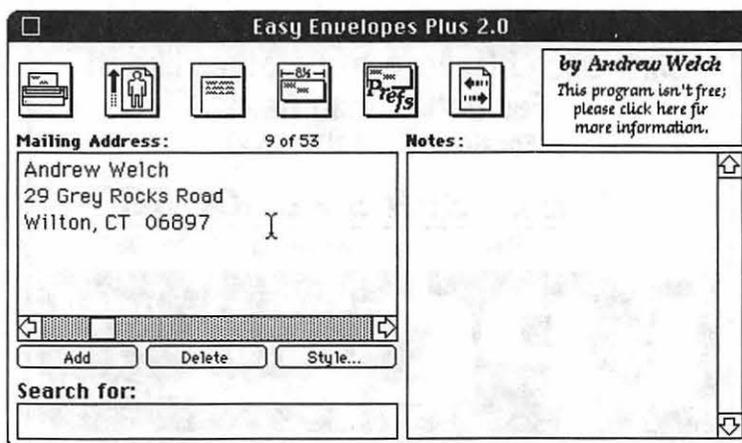


Figure 1. Easy Envelopes



requires that two additional files be placed in the system folder. After initial use of each product, additional permanent files are created and dumped into the System folder, and there were no accumulation of temporary files.

Both products follow Apple Human Interface guidelines and can be used with familiar commands and actions. Easy Envelopes uses icons to execute commands; Fast Envelopes uses menus, icons, shortcut keys, and a few draw features to execute commands. Fast Envelopes has more features: UPS bar codes, importation of icons and graphics, and message bars. These features may be confusing to the new user.

However, features such as print preview, and the ability to drag addresses to a particular position assist in producing an acceptable final product. An important feature of both DA's is the ability to make address file lists. Fast Envelopes uses tabs or commas to define fields and a carriage return to define entries. Easy Envelopes allows address file lists only from Cassidy &

Greene, Inc., QuickDEX files. Both DA's have word defined searches, but the Find feature of Easy Envelopes is the better of the two.

The graphic importation features of Fast Envelope are more robust in comparison to Easy Envelope. Easy Envelope only allows graphic importation of a return address that may have been created and pasted onto the Clipboard. Fast Envelopes will paste clipboard items anywhere

on the envelope and, in addition, will search out icons for pasting. Fast Envelope also has a Help window within the application. Easy Envelopes had a Help feature in earlier versions but it has been removed. This is not critical because Easy Envelopes has fewer bells and whistles. One choice that Easy Envelopes has which Fast Envelopes does not is a notebook feature. The notebook feature allows the user to add notes, i.e., phone numbers, birth dates, or small memos to a particular address. On the other hand, Fast Envelopes has USPS bar codes and message bars as additional features. Another added feature of Fast Envelopes is that it

and its ability to create unique address lists and USPS bar codes makes it more suitable for light office work. Selection of the envelope DA for your use should be determined by your general experience level and the available RAM that you can devote to running the application. I use Fast Envelopes but, I feel that Easy Envelopes would be a better choice for some Macintosh users.

### Additional Words about DA's

One nice feature of the Macintosh computer is the opportunity to use desk accessories (DA's) to do small tasks easily. Under System 6.0

desk accessories had to be installed with the Font/DA mover or with an alternative software utility, such as Suitcase II. With System 7.0, classic desk accessories are converted by the System folder into software applications and placed into the Apple Menu folder. Since System 7.0 runs under Multifinder at all times the usefulness of DA's has been diminished. System 7.0

can also create "aliases" for these DA's as needed, and the icons for the DA's can be altered as well; however, DA's that have been altered under System 7.0 will not function properly when directly transferred back into System 6.0. Therefore, do not use the original software of any DA. Be certain to use only copies. For further information on these subjects, please consult your system manuals.

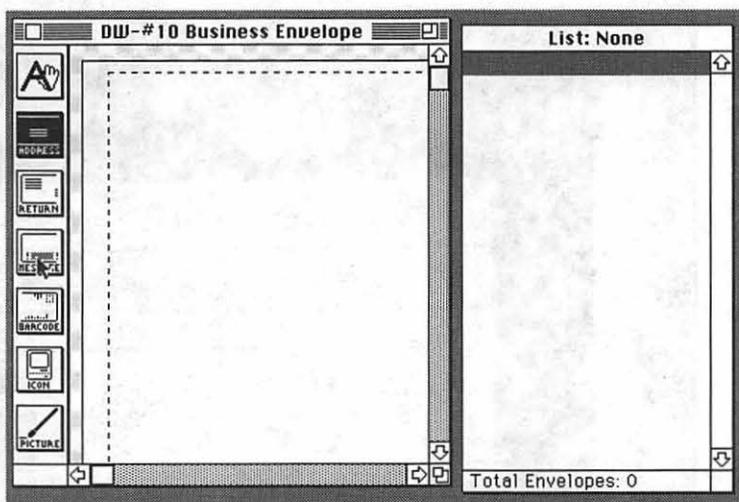


Figure 2. Fast Envelopes

explains USPS guidelines on bulk mail and gives current postal rates in the Help section.

In summary, both DA's offer good value for the money. Easy Envelopes v. 2.0.2 would be good for the person who uses his computer at home to increase personal productivity. It is simpler, uses less memory (60K vs. 200K), and requires less time to understand. Fast Envelope v. 2.1.5 is more versatile,

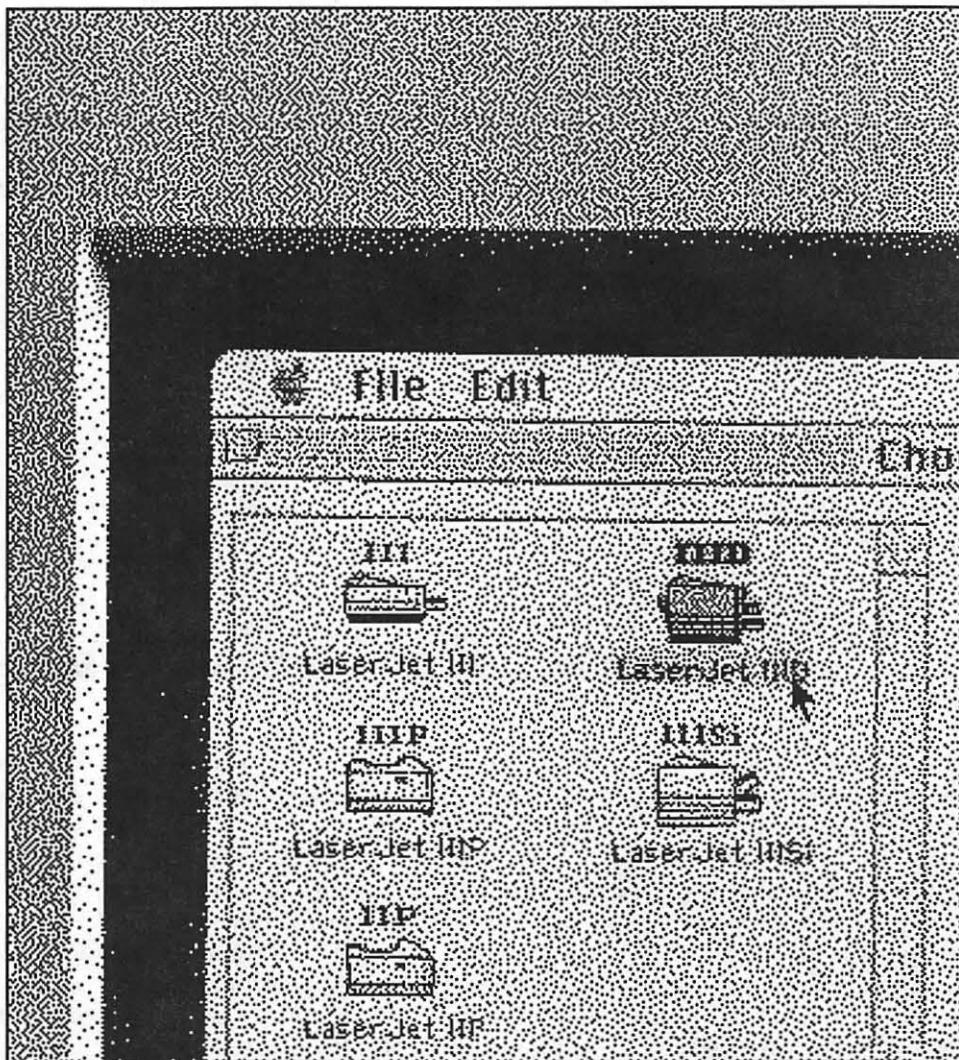
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## The Paucity of Elementary Level Educational Software for the Mac

by Phil Shapiro

Although out for over six years, the Macintosh sports a poor selection of primary educational software. The selection of educational software for the Apple II line numbers in the tens of thousands, the selection for the Mac numbers in the low hundreds. The Macintosh computer is as much an *education computer* as George Bush is an *education president*.

There is hope. Some of the major educational software publishers have been slowly translating their best sellers over to the Macintosh format. So these days you can buy The Learning Company's *Math Rabbit* for the Mac as well as for the Apple II. (Unless you have a color monitor, the program will be displayed in black and white.)

Likewise, the Minnesota Educational Computing Consortium (MECC) has released their popular *Number Munchers* arcade-style math drill for the Mac. Just recently MECC released *Super Munchers* which uses the same arcade game format to drill students on sorting facts into different categories.

*Super Munchers* covers knowledge across the curriculum, from geography to music. It contains over 10,000 facts and over 3,000 words in more than 130 categories. (For further information, contact MECC at: 1-800-685-MECC.)

Some educational software is available only for the Mac. Much of this software is at the college level, and some of the best educational titles for the Mac require a CD-ROM drive. The lively foreign language series from HyperGlot, for instance, is available for the Mac. The charming "talking book" CD-ROM discs from Discus are available for the Mac only. Among the popular CD-ROM titles for the Mac

are *The Manhole* and *Cosmic Osmo*. Both of these are giant HyperCard stacks which kids can browse through.

The new paint program *KidPix* by Broderbund, is only available for the Mac. *KidPix* is a true delight for young kids because of its amusing battery of special effects.

The list of educational software made exclusively for the Apple II line could go on for several pages. If you're interested in the educational titles for the Apple II and the Mac, call for a free copy of the Educational Resources catalog (1-800-624-2926), or the Quality Computers catalog (1-800-443-6697).

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selection of Apple II educational software is contained in the annual educational software guidebook *Only the Best*, published by R.R. Bowker. This guidebook serves as the annual Academy Awards for educational software. To even be listed in the book, a program has to receive a rating of excellent from two or more evaluating agencies. Further the software must receive no negative evaluations from 35 other educational software evaluating agencies.

The 1990 edition of *Only the Best* contained 185 programs. Of these, 152 programs run on the Apple II series of computers, 65 run on IBM PC and compatibles, 20 run on Commodore 64/128, but only 19 run on the Macintosh.

Incidentally, the annual edition of *Only the Best* costs \$26.95. The five year cumulative guidebook is available for \$49.95. For further information, contact:

R.R. Bowker, 245 W. 17th Street, New York, NY 10011. To order either of these books, you can call: 1-800-521-8110. (In New York, Alaska, and Hawaii, call collect (212) 337-6934. In Canada call: 1-800-537-8416)

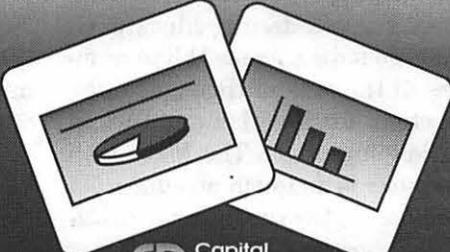
Apple has sold over two million Apple II computers to schools and over four million Apple II's to homes and businesses. It's no surprise, then, that the Apple II remains the overwhelming choice for schools and parents interested in an "education computer." Combined with the million or so Apple II compatibles out there (Laser 128's, Franklins, and others) the Apple II is likely to remain the de facto education standard. Let's hope that Apple Computers has enough good sense to support the Macintosh educational publishers so that we can see a few more programs at the elementary level for the Mac. In spite of the current situation, there is still hope for the Mac in schools.

*(The author serves as chairperson of the WAP education Special Interest Group. He is also the founder of Balloons Software, a new Apple II educational software company.)*

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# Of Mice and Men: MouseMan

Logitech Mouse

by Thomas Hoyt

Tired of the same old mouse scampering back and forth across your metaphorical desktop? These days the variety of desktop rodentia is enormous for those who yearn for novel ways to click and drag. Logitech's MouseMan is one of numerous options available for the discerning owner of such electronic beasts.

MouseMan is a complete package of hardware and software designed to assist even the most demanding of mouse users. The package includes a mouse and a small system extension. The extension uses a typical control panel interface to configure the various options granted to MouseMan purchasers.

But first, the mouse.

For those accustomed to the somewhat angular, one button Apple mouse, MouseMan will be a novel surprise. Instead of resting the side of the hand and index finger over the mouse, MouseMan is wider and curved to fit the palm. One mouse button is replaced by three, one button for the index, middle and ring fingers, respectively. In addition, Logitech noticed that the left and right hand are somewhat different. They have produced a distinct left- and right-handed version

of MouseMan. Apple Computer, Inc., which prides itself on excellent human interfaces, should take note.

The accompanying software for MouseMan takes this mouse far beyond anything Apple has ever

**By using certain command-key options assigned to specific mouse buttons, the user can navigate the desktop much more speedily and efficiently than he can by clicking the mouse or pressing the command-**

envisioned. Figure 1 illustrates some of the options available with MouseMan as well as the MouseMan itself. MouseMan allows the user to assign custom clicking or key values to any of the three mouse buttons. These include cmd-option-shift-key combinations and function keys for those with extended keyboards. For example, those who want to close a document or finder window without using the keyboard can assign <CMD>-W to

a mouse button. Single clicking that mouse button sends the <CMD>-W to the current application.

The index finger button's default value is a single click (just like Apple's). The middle button's default is a double click. Pressing it once double clicks on the application or desktop. One limitation that I noticed was that combining key presses and button clicks is not allowed (e.g., Shift-Click); however, by using two mouse buttons simultaneously, the user can work around this restriction. He need only assign the needed key assignments to one button, hold down that button, and click with another.

After an initial learning period, I found using the key assignment feature very convenient. By using certain command-key options assigned to specific mouse buttons, the user can navigate the desktop much more speedily and efficiently by clicking mouse keys than he can by either moving the mouse, clicking the mouse, or by stopping and using his keyboard to press the command-key manually.

However, the user is not limited to a single set of three buttons assignments. MouseMan accepts an unlimited number of sets, one for each different application that the



user registers with MouseMan via the control panel. Whenever a registered application is open and active (i.e., foremost on the desktop), its appropriate mouse button assignments are available to the happy mouse user.

MouseMan is System 7.0 compatible and will work with any Macintosh equipped with the ADB. It is not System 7.0 savvy, however, because certain features seemed to disappear unless the MouseMan extension had been installed in the top level of the System folder instead of in the proper sub-folder. MouseMan comes with a short manual that adequately describes all its features. The manual also includes a "Tips and Hints" section for those who need help breaking free of Apple's one button mouse mentality. For the conscientious user, there is even a section about

mouse maintenance and hygiene.

Is Mouse-Man recommended? Absolutely. For everyone who puts some serious mileage on his/her mouse day in and day out, this package is definitely worth considering. It will make life much easier by letting the user do a little less of the work, while the mouse does a little more. And that's what you bought the computer for in the first place, right?

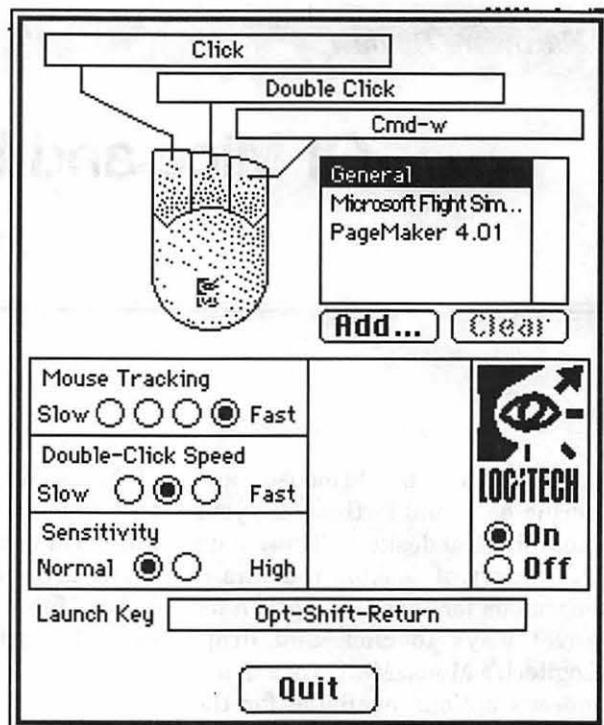


Figure 1. MouseMan

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## Decisions! Decisions! Decisions!

by Lou Pastura

Okay. So Apple has finally come out with a real laptop. Now that you don't need to become another Arnold Schwarzenegger to use a portable Mac, it's time to get serious about features and price. Just to make things a little more interesting, Outbound Systems is offering laptops comparable in features, size and price to the Apple trio. The box on page 38 provides a basic comparison of the models available.

The box gives the following data:

- The PowerBook 100 is the lightest. The 140 and 170 are the heaviest, and the Outbounds are somewhere in between.
- The PowerBook 100 is the least powerful; the Outbound high-end model is the most.
- The largest factory drives are available on the Outbound. After-market drives are available for all models. The Outbound is designed to make upgrading the processor and the hard disk easy. Third party developers may have considerable involvement in what you can do internally with the PowerBooks. LaCie is offering a very nice external drive (40 or 80 MB) which deserves seri-

ous consideration.

- All models come standard with at least 2 MB of RAM; the PowerBook 170 comes with 4 MB. Additional RAM for the Outbounds is substantially less expensive because they use standard SIMM's.
- The three Apple models accommodate an internal modem (a fax/modem—offering send-only fax—comes standard on the 170). The Outbounds do not offer this feature.
- All models except the PowerBook 100 include an internal 1.4 MB floppy drive that is capable of reading both Mac and MS-DOS disks. An external drive is available for the 100. The Outbound includes an INIT that mounts MS-DOS disks on the desktop. Third-party packages (e.g., Access PC and DOS Mounter) are required in order to accomplish this on the Apples. Apple File Exchange works just fine, albeit less conveniently.
- Regarding screens, the 170's Active Matrix LCD is the fastest. The CCFT screen on the

Outbound was comparable to the Supertwist LCD on the 100 (9 inch) and 140 (10 inch). The current Outbound screen is a vast improvement over the earlier model.

- According to the published specs, all the models are relatively equal in battery life. The Outbound supposedly uses a standard video camera battery, which should make replacements less expensive over time.

Ergonomically, Apple wins. The decision to place the keyboard forward and leave a space for a wrist rest was truly inspired. Also, I was able to master the Apple trackball much easier than the IsoPoint gadget on the Outbound. However, because I use a trackball every day on my own Mac, your reaction may be different. I never was able to get used to the Outbound keyboard. The keys were too difficult to press and the travel was too short. I think that for long term use it would be extremely tiring (for those interested in a reliable opinion, Saint Suzanne agrees with me).

The PowerBook 100 has an interesting feature not shared by any other model. Apple is offering a cable



(not available as this article was completed, but due "soon") that will enable you to connect the 100 to the end of the SCSI chain on your stationary Mac. The 100's hard disk will then appear as another device on the desktop of the main machine.

Another Apple offering is Remote Access, software that enables you to dial in to an AppleTalk network. It is bundled with the Apple laptops or can be purchased separately (\$199).

Which one should you buy? This depends on your priorities and applications. After all of my research for this article, I finally decided on a PowerBook 100 with four MB of RAM. The smaller size and lighter weight won me over in spite of the less powerful/slower processor and the smaller hard disk. If the bulk of your portable work will be word processing and telecommunicating, I suspect it will fill the bill. My advice: try them all; compare the features, faults and prices; and decide for yourself. For convenience, utility, and portability, you can't go too far wrong.

<p><b>PowerBook 100</b>            5.1 Pounds            16 MHz 68000            20 MB HD            2 MB RAM<sup>1</sup>            1.8 x 11 x 8.6            Internal Modem Extra            External FDHD<sup>2</sup>            9" Backlit Supertwist            2-4 hrs. Battery Life            Street Price:\$2000<sup>3</sup> (2/20)</p> <p><sup>1</sup> 6 &amp; 8 MB Optional  <sup>2</sup> Optional  <sup>3</sup> Including External FDHD Drive</p>	<p><b>Outbound 68000</b>            6.25 Pounds            20 MHz 68000            20/40/60 MB HD            2/4 MB RAM            2.1 x 11 x 8.5            No Internal Modem            Internal FDHD            10" Backlit CCFT            Up to 3 Hours Battery Life            Street Price:\$2695 (2/40) \$2795 (4/40)</p>
<p><b>PowerBook 140</b>            6.8 Pounds            16 MHz 68030            20/40 MB HD            2/4 MB RAM<sup>1</sup>            2.25 x 11.25 x 9.3            Internal Modem Extra            Internal FDHD            10" Backlit Supertwist            2-3 Hours Battery Life            Street Price:\$3000 (4/40)</p>	<p><b>Outbound 68030</b>            6.25 Pounds            33 MHz 68030            20/40/60 MB HD            2/4 MB RAM            2.1 x 11 x 8.5            No Internal Modem            Internal FDHD            10" Backlit CCFT            Up to 3 Hours Battery Life            Street Price:\$3145 (4/40) \$3495 (4/60)</p>
<p><b>PowerBook 170</b>            6.8 Pounds            25 MHz 68030            40 MB HD            4 MB RAM<sup>1</sup>            2.25 x 11.25 x 9.3            Internal Modem Included            Internal FDHD            10" Backlit Active Matrix            2-3 Hours Battery Life            Street Price:\$4000 (4/40)</p>	<p><i>Note: I'd like to thank Computer Age (Annandale) and MacHeaven, two Journal advertisers which were extremely helpful and patient as I tied up their demonstration units for hours at a time looking at features and trying software packages. When considering your next "purchase," please keep our advertisers in mind; they're supporting us, and we should support them as well.</i></p>



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 Harry Erwin (before 10pm) (703) 758-9660  
 Gary Hayman (301) 345-3230  
 Leon Raesly (days; 9-5) (301) 220-3113  
**AppleWorks Database**  
 Roger Burt (301) 424-6927  
 Morgan Jopling (301) 721-7874  
 Milt Goldsamt (301) 649-2768

#### COMMUNICATIONS

**ProTerm**  
 Alan Levy (301) 340-7839  
 Ray Settle (301) 647-9192  
**Talk is Cheap/Pt. to Pt.**  
 Barry Fox (717) 566-6709  
**DataBases**  
**DBMaster, Pro IIe**  
 Bob Sherman (305) 944-2111  
**dBase II**  
 John Staples (703) 255-6955  
**dBase II&III, Data Perfect, Db Master-PRO**  
 Leon Raesly (days; 9-5) (301) 220-3113  
**Profiler 3.0**  
 Barry Fox (717) 566-6709

#### HARD DISKS

**General**  
 Wayne Meckling (301) 463-2153  
**CMC (not CMS)**  
 Barry Fox (717) 566-6709  
**Corvus & Omninet**  
 Tom Vier (12N-6PM) (703) 860-4810  
**Corvus**  
 Leon Raesly (days; 9-5) (301) 220-3113  
**Sider**  
 Jaxon Brown (301) 350-3283  
 Otis Greever (615) 638-1525

#### LANGUAGES

**Applesoft**  
 Louis Biggie (301) 967-3977  
 Peter Combes (301) 251-6369  
 Leon Raesly (days; 9-5) (301) 220-3113  
 John Love (703) 569-2294

#### Integer Basic

John Wiegley after 2:15 (703) 437-1808  
 John Love (703) 569-2294  
**Machine**  
 John Love (703) 569-2294  
**Pascal**  
 Michael Hartman (301) 445-1583  
**C and TML Pascal**  
 Harry Erwin (before 10pm) (703) 758-9660

#### OPERATING SYSTEMS

**Apple DOS**  
 John Wiegley after 2:15 (703) 437-1808  
**CP/M**  
 Art Wilson (301) 774-8043  
**ProDOS**  
 John Love (703) 569-2294  
 John Wiegley after 2:15 (703) 437-1808  
**ProDOS 8 and 16**  
 Barry Fox (717) 566-6709  
**RWTS, Disk structure**  
 John Wiegley after 2:15 (703) 437-1808  
**Print Shop**  
 Thomas O'Hagan (301) 593-9683

#### SPREADSHEETS

**General**  
 Walt Francis (202) 966-5742  
**MagicCalc/SuperCalc.2.0**  
 Leon Raesly (days; 9-5) (301) 220-3113  
**Telecommunications**  
 Dale Smith (301) 762-5158  
 Allan Levy (301) 340-7839  
**TimeOut Serles**  
 Morgan Jopling (301) 721-7874  
**Utilities: ProSel**  
 Barry Fox (717) 566-6709

#### WORD PROCESSORS

**General**  
 Walt Francis (202) 966-5742  
**Apple Writer II**  
 Dianne Lorenz (301) 530-7881  
 Leon Raesly (days; 9-5) (301) 220-0717  
**AppleWorks GS**  
 Roger Burt (301) 424-6927  
 A.D. (Bill) Geiger (703) 237-3614  
 Andy Gavin (703) 734-3049  
**Letter & Simply Perf**  
 Leon Raesly (days; 9-5) (301) 220-3113  
**Mouse Write**  
 Barry Fox (717) 566-6709  
**Publish-It!**  
 Gary Hayman (301) 345-3230  
 Ray Settle (301) 647-9192  
**ScreenWriter II**  
 Peter Combes (301) 251-6369  
 Gene Carter (202) 363-2342  
**Word Perfect**  
 James Edwards (301) 585-3002  
 Henry Donahoe (202) 298-9107  
**Word Star**  
 Art Wilson (301) 774-8043

#### Apple IIGS\*

Paul Tarantino (before 10pm) (703) 451-5608  
 Neil Laubenthal (703) 691-1360  
 A.D. (Bill) Geiger (703) 237-3614

#### GENERAL

Barry Fox (717) 566-6709  
**Iie Upgrade**  
 Morgan Jopling (301) 721-7874  
**APW**  
 Andy Gavin (703) 734-3049  
 Leon Raesly (days; 9-5) (301) 220-3113  
**Deluxe Paint II**  
 Rich Sanders (703) 450-4371  
**GS BASIC**  
 Barry Fox (717) 566-6709  
**Multiscribe GS**  
 Ray Settle (301) 647-9192

#### TELECOMMUNICATIONS

Dale Smith (301) 762-5158  
 Allan Levy (301) 340-7839  
 Bob Sherman (305) 944-2111  
**MouseTalk**  
 Dale Smith (301) 762-5158  
 Ray Settle (301) 647-9192  
**TimeOut Series & Utilities: ProSel**  
 Ray Settle (301) 647-9192  
 Barry Fox (717) 566-6709  
**816 Paint/Writ'rs Ch.El**  
 Andy Gavin (703) 734-3049  
**Apple II Hardware Epson printers, hard drives,**  
 Guy Durant (202) 363-0366  
 Wayne Meckling (301) 263-4053  
**Apple II printing**  
 Bob Sherman (305) 944-2111

### Apple III\*

#### GENERAL

Jim Jutzin (703) 790-1509  
 Dave Ottalini 9:00-10:30 P.M. (301) 681-6136  
**3 Easy Pieces**  
 Robert Howe (916) 626-8198  
 David/Joan Jernigan before 9 pm (703) 822-5137  
**Word Juggler**  
 Tom Linders (408) 741-1001  
 J. Carey McGleish evenings (313) 332-8836  
**Pascal**  
 Dr. Al Bloom (703) 951-2025  
**Apple Speller**  
 Robert Howe (916) 626-8198  
**AppleWriter**  
 Eric Sheard (908) 782-6492

## Beagle Buddies

#### MARYLAND

Ray Settle (Annapolis) (301) 647-9192  
 Scott Galbraith (Frederick) (301) 865-3035  
 W. T. Cook (Columbia) (301) 995-0352  
 Gary Hayman (Greenbelt) (301) 345-3230  
 Lee Raesly (Adelphi) (301) 220-3113  
 Allan Levy (North Potomac) (301) 340-7839  
 Don Avery (Bethesda/DC) (202) 362-1783

#### VIRGINIA

Kenneth De Vito (Alexandria) (703) 960-0786  
 Neil Laubenthal (703) 691-1360







## Macintosh

### GENERAL

Jeff Alpher to midnight (301) 630-2036  
**Art & Video**  
 Nancy Seferian (202) 333-0126  
**Borland Products**  
 Doug Ferris day only (800) 826-4768

### DATABASE PROGRAMS

**Fourth Dimension**  
 Bob Pulgino (301) 474-0634  
 Peter Yared (301) 564-1560  
**FileMaker Pro**  
 Tom Parrish (301) 654-8784  
 Mort Greene (703) 522-8743  
 Paula Shuck bef.10pm (301) 740-5255  
**Helix**  
 Jim Barry to midnight (703) 662-0640  
 Harvey Levine (301) 299-9380  
**Double Helix**  
 Paula Shuck before 10pm (301) 740-5255  
**MS-File**  
 John Spencer (301) 730-1084  
 Mort Greene (703) 522-8743  
**Omnis 3 & 3+**  
 Jeff Alpher to midnight (301) 630-2036  
**OverVue**  
 J.T.Tom DeMay, Jr. (301) 461-1798  
 Tom Parrish (301) 654-8784  
**Pro-Cite**  
 Elizabeth Mangan (703) 750-2710

### DESKTOP PUBLISHING

**General**  
 Jay Rohr (301) 655-0875  
 Freddi Galloway (V/TTY) (703) 768-5315  
**ReadySetGo**  
 Jim Graham (703) 370-5737  
 Marty Milrod (301) 464-5981  
 Freddi Galloway (V/TTY) (703) 768-5315  
**PageMaker**  
 Mort Greene (703) 522-8743  
**Quark Xpress**  
 Ron Mann (202) 333-3409

### GRAPHICS

**General**  
 Bill Baldrige (301) 779-8271  
 Jay Rohr (301) 655-0875  
**Adobe Illustrator**  
 Ling Wong (703) 378-5102  
**Canvas**  
 Bill Baldrige (301) 779-8271  
 Tom Parrish (301) 654-8784  
**MacDraw**  
 Tom Berilla (301) 434-3256  
 Tom Parrish (301) 654-8784  
 John Spencer (301) 730-1084  
**ImageStudio**  
 Mort Greene (703) 522-8743  
**Studio/I**  
 Jamie Kirschenbaum evenings (703) 437-3921

### SuperPaint 2.0

Mort Greene (703) 522-8743  
**VideoWorks**  
 Mort Greene (703) 522-8743

### PROGRAMMING

**Inside Mac**  
 Jon Hardis (301) 330-1422  
 John Love (703) 569-2294  
**Pascal**  
 Michael Hartman (301) 445-1583

### SPREADSHEETS & CHARTS

**General**  
 David Morganstein (301) 972-4263  
 Bob Pulgino (301) 474-0634  
 Tom Cavanaugh (301) 627-8889  
**Excel**  
 David Morganstein (301) 972-4263  
 Mark Pankin (703) 524-0937  
 Jim Graham (703) 370-5737  
 Dick & Nancy Byrd (703) 978-3440  
 Bob Pulgino (301) 474-0634  
 Tom Cavanaugh (301) 627-8889  
 Paula Shuck before 10pm (301) 740-5255  
 Kirsten Sitnick (301) 750-7206  
 Mort Greene (703) 522-8743  
**WingZ**  
 Kirsten Sitnick (301) 750-7206

### TELECOMMUNICATIONS

**General**  
 Allan Levy (301) 340-7839  
**CompuServe**  
 Michael Subelsky (301) 949-0203

### WORD PROCESSORS

**Microsoft Word**  
 Marty Milrod (301) 464-5981  
 Harris Silverstone (301) 435-3582  
 Tom Cavanaugh (301) 627-8889  
 Freddi Galloway (V/TTY) (703) 768-5315  
 Kirsten Sitnick (301) 750-7206  
**ThinkTank-More**  
 Jim Graham (703) 370-5737  
 Tom Parrish (301) 654-8784  
**Hebrew Word Processing**  
 Tim Childers (301) 997-9317  
 Curt Harpold (202) 547-8272  
**Microsoft Works**  
 Amy Billingsley (301) 622-2203

### WordPerfect—Mac

Curt Harpold (202) 547-8272

### MISCELLANEOUS

**MacProject**  
 Jay Lucas (703) 751-3332  
 Norbert Pink (703) 759-9243  
**HyperCard**  
 Rick Chapman (301) 989-9708  
**HyperTalk**  
 John O'Reilly (703) 204-9332  
**File Transfer**  
 Mort Greene (703) 522-8743  
**Backfax**  
 Mort Greene (703) 522-8743  
**HyperCard Scripting**  
 Jamie Kirschenbaum evenings (703) 437-3921  
**SoundEdit**  
 Jamie Kirschenbaum evenings (703) 437-3921

## General

### Games-Apple II

Charles Don Hall (703) 356-4229  
 John Wiegley after 2:15 (703) 437-1808

### IBM

Leon Raesly (301) 220-3113

### Math-OR Applns

Mark Pankin (703) 524-0937

### Modems-General

Allan Levy (301) 340-7839

### Hayes Smartmodem

Bernie Benson (301) 951-5294

### Practical Peripherals

Allan Levy (301) 340-7839

### Printers-General

Walt Francis (202) 966-5742

### Leon Raesly

(301) 220-3113

### MX-80

Jeff Dillon (301) 662-2070

### Stat Packages

David Morganstein (301) 972-4263

### Stock Market

Robert Wood (703) 893-9591

### MS/DOS

Tom Cavanaugh (703) 627-8889

### Dvorak Keyboard

Ginny & Michael Spevak (202) 244-8644

## Frederick Apple Core Help Line

Please limit calls to reasonable evening and weekend hours and NEVER after 10 P.M.

Oscar Fisher	(Frederick)	694-9237	Apple II, GS
Dick Grosbier	(Frederick)	898-5461	Apple II, GS, & Mac
Harold Polk	(Frederick)	662-6399	Apple II
Tony Svajlenka	(Frederick)	694-6209	Apple II
Doug Tallman	(Frederick)	663-3268	Mac
Scott Galbraith	(Monrovia)	865-3035	Apple II & GS
J. Russell Robinson	(Frederick)	739-6030	Mac



## Tutorials and Seminars—January

by Keith Malkin

We hope you have a wonderful and rewarding new year. We have scheduled a two-part introduction to Quark XPress that should be of considerable interest to designers and desktop publishers (we apologize for the long delay since our first Quark class).

As we go to press, we are working on FileMaker and Excel classes, so please check with me, the office, or Bob Morris for the latest schedules. We are also working on telecommunications courses for February's schedule, including an introduction to WAP's own TCS. Encourage your SIG or Slice to keep up the good work if they are offering courses of their own. Please show your appreciation with Barbara Schuell-Jenkins of the DTP SIG, Dave Mudd of the HyperTalk SIG, Tim Childers of the Columbia Slice, and my partner, Bob Morris. All of them have worked and are working very hard to bring quality training to Pi members. Call me at (703) 503-8591 with ideas, comments, suggestions, questions, or problems.

Occasionally, the WAP class schedule changes due to conflicts or other circumstances beyond our control. You should verify your registration and the class schedule to avoid the inconvenience associated with class

cancellations, typos in the Journal (mea culpa), etc. Please call Bob Morris at (301) 963-3129 (h) or Keith Malkin, at (703) 503-8591. We will answer your questions on the latest WAP class schedule, instructors, location, and the like. However, we cannot take your registration over the phone. For registration purposes, directions, refunds, and general information, you must call the WAP office. Please call Beth Medlin in the office at least one business day before the class date to confirm that your class will be held as scheduled. We cannot call you! We sincerely regret any inconveniences that may arise due to scheduling changes.

### Payment for Courses

The fees for most sessions (unless otherwise indicated) are \$15 for members, \$20 for non-members. SIG-based fees may vary. Please register well in advance for the class or classes you wish to take by either sending in the registration form or by phoning your registration into the office with a credit card. If you've signed up for a class and need to cancel, please do so two business days before the class, otherwise we cannot refund your money.

We must have your enthusiastic support and creativity to make the Washington Apple Pi Education & Training Program a success. Let us know: What courses, seminars, or workshops would you like to see offered? Which subjects or software packages do you want covered in a tutorial? When are the most convenient times for you to attend a class? Where is the most convenient location for you to attend a class? What course, seminar, or workshop you would like to teach?

If you have expertise in any area of Macintosh or Apple computing, your fellow users and WAP members need you! We are always looking for knowledgeable, enthusiastic instructors. Please call Bob Morris if you would like to teach; he may be reached at: (301) 963-3129 (h), evenings, or (202) 501-7814 (o), during the day. (Instructors are compensated for their time, effort, and expense.) During this new year, we will improve the quality of and expand our training program. We are looking for additional facilities for tutorials and workshops. If you know of a public or private facility (with Macs or Apple computers that we may be able to use) in the metro area (especially Northern Virginia), call me with the particulars.



## Macintosh Tutorials

**Introduction to Macintosh, Part I (Course # M10192).** This class is designed for the beginning user. You should go through the Guided Tour disk that came with your computer before you come to class. You'll learn each of the components of your Macintosh, both hardware and software. You'll discover what the System, Finder, the Active Window, and Icons are, and how they work. Materials required: Your Macintosh, HD, start-up disk, and an un-formatted disk. Course Date: Monday, January 13, 1992, 7:00 PM—10:00 PM.

**Introduction to Macintosh, Part II (Course # M20192).** This class is designed for the beginning user. You should go through the Guided Tour disk that came with your computer before you come to this class. You'll learn each of the components of your Macintosh, both hardware and software. You'll learn the finer points of the Menu Bar, various error messages, what the Clipboard and the Scrapbook are, various peripherals and how they are connected to your Macintosh, and, finally, you'll learn about command key () equivalents (keyboard shortcuts for Menu Bar commands). Materials required: Your Macintosh, HD, start-up disk, and an un-formatted disk. Course Date: Monday, January 20, 1992, 7:00 PM—10:00 PM

**Introduction to Macintosh, Part III (Course # M301291).** This class is designed for the beginning user. You should go through the Guided Tour disk that came with your computer before you come to this class. You'll learn which version of the System software you should be using, how to update your system files, and use the Font/DA Mover. You'll also cover the Set Start-up command, Multi-Finder; and, finally, the various RAM configurations possible with each Macintosh. Materials required: Your Macintosh, HD, start-up disk, and an un-formatted disk. Course Date: Monday, January 27, 1992, 7:00 PM—10:00 PM.

## Workshops

(Workshops are designed to address your needs, concerns, and problems. It is beneficial to bring your Mac and the relevant software, if you can. You can still get the full benefit of these classes simply by attending and participating.)

**Introduction to Quark XPress, Part 1 (Course # QX1192).** Part 1 of an exciting two-part class designed for the beginning users of Quark XPress. Topics will include a comprehensive introduction to using Quark XPress and its features, including page makeup, typography, graphic elements, spot and full color separations, importing and exporting text, and designing with text and graphics (frames, grids, and layouts). We strongly recommend taking both courses in sequence. Materials suggested: Your Macintosh, hard drive, and Quark XPress, preferably 3.x. Course Date: Saturday, January 11, 1991, 9:00 AM—12:00 NOON.

**Introduction to Quark XPress, Part 2 (Course # QX2192).** Part 2 of an exciting two-part class designed for the beginning users of Quark. Topics will include a comprehensive introduction to using Quark XPress and its features including page makeup, typography, graphic elements, spot and full color separations, importing and exporting text, and designing with text and graphics (frames, grids, and layouts). We strongly recommend Part 1 as a prerequisite to Part 2. Materials suggested: Your Macintosh, hard drive, and Quark XPress, preferably 3.x. Course Date: Saturday, January 18, 1991, 9AM—NOON.

**Introduction to Aldus Page-Maker (Course # PM1192).** This course is designed for users of the page layout program, Aldus Page-Maker. Survey of PageMaker tools and basic elements, including typographies and layout will be covered. Materials suggested: Your Macintosh, hard drive, and Page-Maker, preferably 4.x. Course Date: Thursday, January 16, 1991, 7 PM-10 PM.

**Using System 7.0 (Course # OS2192).** A presentation and discussion of the new Macintosh operating system, including how to install and use its features. If you have just started on the Mac or on System 7, this will be an excellent complement to Maintaining Your Macintosh and the Introduction to Macintosh series. We strongly recommend novices take all three offerings, if possible. Topics will include the installation process, checking for compatibility, System 7 "friendly" or "savvy" applications, memory management and virtual memory, multi-tasking, inter-application communication, how to "publish and subscribe," TrueType, font/DA management, aliasing, sound resources, System 7 "events," and other features of System 7. Course Date: Wednesday, January 29, 1992, 7 PM-10 PM.

**Maintaining Your Macintosh (Course # OS301091).** An excellent beginning course on how to maintain and troubleshoot your Mac. This is a good place to start if you have just acquired your Macintosh. We strongly suggest this as a co-requisite with our Introduction to Macintosh series for novice users. Topics will include both Macintosh hardware and software, avoiding system crashes, how to decipher error messages, how to manage INIT's and avoid conflicts, backups, viruses, hard disk management, memory management, the new challenges of System 7, and Mac house-keeping philosophies. Course Date: Thursday, 9AM-NOON, January 30, 1992, 7:00 PM-10:00 PM.

## Other Educational Opportunities

Further, self-paced, audio-visual, and computer-aided instruction materials are available. Many applications come with elementary tutorials and extensive help files, some of which are context-sensitive. Some of the more powerful programs are packaged with training aids such as videotapes. Software publishers sell additional training aids as a part of a support and service sub-



scription fee.

A few third-party training alternatives exist, i.e., MacAcademy (seminars and videocassettes), FlipTrak (audiocassettes), Individual Software (computer-based, such as Professor Mac), and many others. The only such product line I feel somewhat comfortable in recommending is the "Personal Training for the Apple Macintosh" series by Personal Training Systems. Each personal training module consists of disk-based tutorials with accompanying audiocassettes. The offerings are extensive and include modules for Mac beginners, System 7, Claris FileMaker Pro, Microsoft Excel, Microsoft Word, Aldus Persuasion, Aldus PageMaker, Aldus FreeHand, Quark XPress, and more. Personal Training Systems provides extensive support and upgrades.

Each module is available at a mail order price of \$48-52 (\$79 list); check the latest issues of MacWorld and MacUser for pricing and availability from the major mail order houses including MacConnection, MacWarehouse, the Mac Zone, and

Mac's Place. For information, call Personal Training Systems at 1-800-TEACH-99, or write them at 828 Bascom Avenue, Suite 100, San Jose, CA 95128.

•The AFI—Apple Computer Center for Film and Videomakers. To receive course descriptions and mailings from the center, located in Los Angeles, call (213)-856-7664. For information on joining the American Film Institute, call (800)-999-4AFI.

•Avid Education Services—probably the hottest editing platform in video these days is the Macintosh-based Avid Media Composer. Knowing the Avid might be your ticket to the bright lights, if you are so inclined. Find out more by calling Avid at (617) 221-6789. (Avid did offer introductory courses in New York the first part of November. Course fees for three days of intensive, hands-on training, a one-year subscription to Avid's BBS, and a certificate of completion were \$350. I am relatively sure that accommodations were extra at that price.)

•The Corcoran School of the Arts

has a series of Mac graphics courses for adults, teens, and kids at its Georgetown Campus. For information/mailings call (202) 628-9484.

•The Eastman Kodak Center for Creative Imaging in Camden, Maine offers pricey training on the latest, state-of-the-art Mac-based systems. For information on schedules and course offerings call the Center for Creative Imaging at (207) 236-7400 or send a fax to (207) 236-7490.

•The Sony Video Institute ( Sony Institute of Applied Video Technology, 2021 North Western Avenue, P.O. Box 29906, Hollywood, CA 90029) is offering workshops that may be of interest to Mac publishers, digital photographers, film and video makers, multimedia producers, and animators. For information call (213) 462-1987, then #\*.

Keep watching the Journal pages for other training opportunities, especially those coordinated by the various Pi SIG's and Slices. Please have a healthy and happy New Year!

<b>Washington Apple Pi Tutorial Registration Form</b>		Washington Apple Pi 7910 Woodmont Ave., Su. 910 Bethesda, Maryland 20814 301-654-8060	
<b>Basic Information</b>		<b>Course Numbers</b>	
Name _____		Please fill in the course number of the class(es) that you wish to attend.	
Address _____			
City/Zip/State _____			
Phone (day) _____ (evening) _____			
Member Number _____ Non-member _____			
Number of Classes _____ x Class Fee \$ _____ = Total Fee \$ _____			
Check/Money Order _____ Credit Card _____ Card Number _____		Class #1 _____	
Card Expiration _____ Signature _____		Class #2 _____	
WAP Form #CL006 (mod. 7/90) Mail registration and payment to the above address.		Class #3 _____	
		Class #4 _____	
		Class #5 _____	
		Class #6 _____	



## FRENCH SURVIVAL MANUAL AND LANGUAGE LABORATORY

by Carolyn H. Lingeman

This foreign language tutorial is another in the series produced by The HyperGlot Software Company. It also requires HyperCard v. 2.02 or higher and System Software 6.0.7 or higher. If you do not have an LC or Si, a MacRecorder will be needed. The LC or Si require the Audio Help stack that comes with the HyperCard program. This program can be run on any member of the Macintosh II family with a hard disk drive, as well as the Plus, SE, SE/30, and Si. Diskettes must be copied onto the hard disk (after making backup copies). It is not necessary to copy all of the stacks on the hard drive at one time.

As in most HyperCard applications, it is necessary only to click on the buttons that provide access to the various topics likely to be needed during a trip to a French-speaking country. These topics include Greetings and Introductions, Hotel, Food and Drink, Travel and Tourism, Shopping, Services, Weather, Health and others.

After clicking on a selected topic, a menu lists specific choices which then appear as lists of words, phrases or sentences in French that can be clicked individually to permit you to hear them pronounced

correctly while they are being visually displayed with English translations. By clicking the "Rec" button, you can record and listen to your own voice as you repeat the words after you hear them. The lists, with their English transla-

**A particularly helpful innovation is the Phrase Finder, which locates the translation of either a French or English word... Unfortunately, the tutorial does not provide the user with the opportunity to practice pronunciation...**

tions, can be printed onto paper to carry with you on the trip, although the complete printout would be a bit bulky (better pack your Berlitz Guide for easy portability and quick reference).

Altogether the tutorial contains more than 400 recorded words and phrases, plus more than 850 non-recorded ones. In addition, each topic includes brief cultural notes. For

example, the notes that accompany "Les voyages et le tourisme" provide a brief description of the transportation system of Paris and all of France as well as instructions for placing international phone calls.

There is also information on grammatical construction of the French language and only a brief discussion of the tricky pronunciation. Thus, a previous course in French would be of definite value to the prospective traveler. Nevertheless, this program offers a unique opportunity. A particularly helpful innovation is the Phrase Finder, which, by clicking on a button, locates the translation of either a French or English word from any of the six folders.

Unfortunately, the tutorial does not provide the user with the opportunity to practice pronouncing the many useful French expressions or to compare his own pronunciation with that of a native speaker.

The price: \$59.95.

Bon voyage!

*Carolyn Lingeman is a retired NIH scientist who enjoys traveling to France and Canada.*



## The White Elephant of Style

by Blake Lange

*The Elements of Style, Electronic Edition* by Microlytics did not live up to my expectations. The reputation of the book on which this program is based and the development of the fledgling computer publishing industry may both suffer. When I first heard that the famous *Elements of Style* was to be available on-line for writers, I had a flashback to an advertisement picturing William F. Buckley proclaiming the great value of another writers' tool going on-line, the thesaurus. (*Word Finder*, also by Microlytics, is the thesaurus distributed along with *Microsoft Word*.) Whenever I write or edit a story, I frequently consult my on-line thesaurus which I find more useful than the book on which it is based. I expected this new effort to also make a good thing better.

Publishing a new edition of the *Elements of Style* in electronic form is a brave undertaking. What living editor could fill the shoes of the late E.B. White? This book is an axiom of American higher education, simply evoking the names of the authors, Strunk and White, is enough to identify it in the minds of many. (See "A Language Nerd Succumbs" in the September 3rd issue of the *Washington Post* for just such a mention.)

This is not simply a reference book. It is a book by masters of the English language with every example to be savored for its clear reasoning. Some say that this cannot become a computer reference tool because it is not a reference book. It is a textbook, they say, to study deeply, so as to polish one's editorial faculties. Okay, but it bothers me that the *Electronic Edition* is completely deficient in original creativity and that the obtuseness of the approach tarnishes the presentation of Strunk and White. It seems that the producers of this program had no notion of the challenges of the project; instead, they were intent on capitalizing on the book's excellent reputation.

Operation of the program is fairly simple. The Infodesk™ engine is a desk accessory with access to one or more reference books. In addition to the *Elements of Style, Electronic Edition*, one could also purchase Microlytics' *Random House Encyclopedia, Electronic Edition*. The full text of the *Elements of Style* is on-line in outline form. There are three methods of accessing the text: the outline view, the graphic view, and the reverse dictionary.

In the outline view the five chapters of *The Elements of Style* are

listed. Each of the chapters can be expanded to show the topics under it, which could number from fewer than a dozen topics to more than a hundred. The text of the topic selected is displayed in a three-line scrolling window (see illustration). (There is a command for displaying this text in a larger window.)

The graphic view has one small scrolling window for chapter titles and a similar one for topic titles with the same text treatment as above. These two methods, the outline view and the graphic view, are no better than displaying a table of contents. The Find command for these two views only searches for words in the titles—so it is no help if one does not know the title of the particular rule of grammar one is searching for.

However, the reverse dictionary has a full text search. This is useful when one just knows that the particular rule exists. If one had never read the book, however, they would be at a loss as to what to search for. Therefore, for this to be useful, one needs a hard copy of the book. But the book is not included, nor is a means available for printing one out. Even if one were willing to read the whole book topic-by-topic on the screen, the screen display is in a



form that is hard to read, taking no advantage of the Macintosh's special graphic capabilities.

The first thing that struck me about this program is the poor typographic quality. (The staff of Microlytics should read *The Mac is not a Typewriter*, by Robin Williams.) This program was written for both the Macintosh and IBM platforms and, unfortunately, sank to the lowest common denominator of desktop document production. Now that the IBM world is adopting the typographic capabilities of the Mac, one would think there is no reason for cross-platform products

punctuation ended up outside the quote mark in direct violation of a rule of grammar stated by Strunk and White—"Typographical usage dictates that the comma be inside the marks, though logically it often seems not to belong there."

In cases where real quotation marks are in the original text, they were converted to typewriter marks with punctuation positioned correctly. There are many, many cases where the handling of punctuation is inconsistent within individual sentences! Give this product a big, fat "F" for style. I am afraid that users will not have much tolerance

health." It is a good bet William F. Buckley will not be yodeling the promotion of this product.

Once I realized what a poor effort this was, I was curious what the original publisher thought of it. I was directed to Mr. Tony English of the College Division at MacMillan Publishing Company. Apparently the agreement to produce this product had been entered into six or seven years ago with Paperback Video, which sublicensed the product to Microlytics. The license was given on the condition that no text would be altered. Mr. English said that some editors at MacMillan are

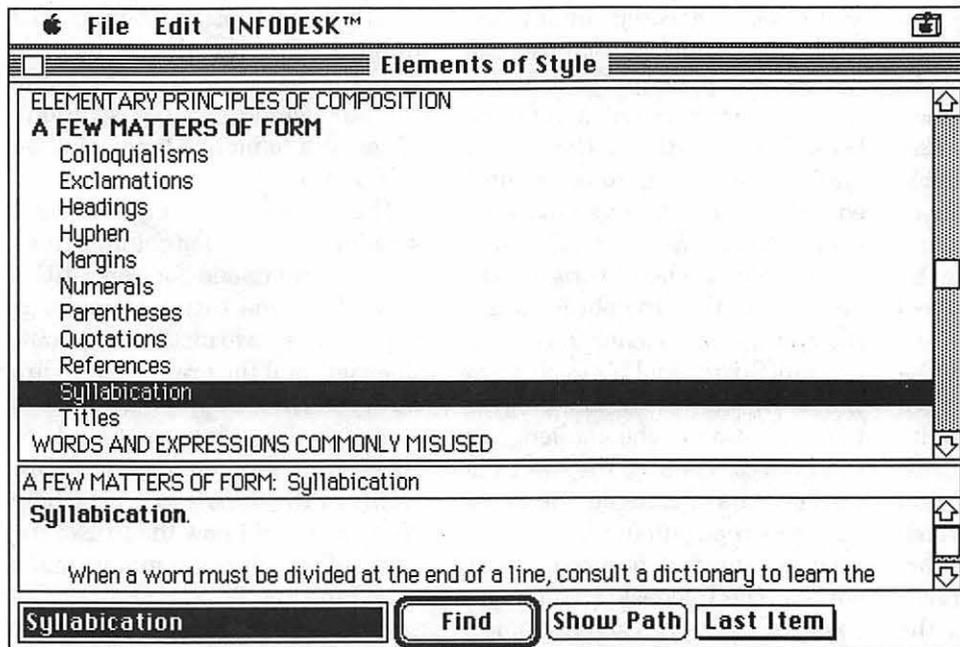
very unhappy with the way the process had dragged on and on, and that none of them had actually seen the end product at the time of our conversation.

Microlytics was not given an exclusive license, so it is legal for someone else to be licensed to produce another computer version of this book. However, Mr. English said that because of this experience, it is unlikely that MacMillan will now license any of their products for electronic publishing. Microlytics, by doing a hack job on a sacred cow, has made the computer publishing dream more

difficult to realize for the rest of us.

*The Elements of Style, Electronic Edition*, version 1.0, retails for \$59.00 and requires a MacPlus or higher, System 6.0 or later, and 227K of available disk space. The paperback edition retails for \$5.95.

*Blake Lange is the Printing Officer at the Federal Election Commission.*



to sink this low.

The *Elements of Style* was apparently converted globally to the format the Infodesk™ engine could accept. All items originally in italics ended up bracketed by typewriter style quote marks. This caused irregular handling of punctuation. If a comma or a period follows something in italics in the original, that

for such a sloppy style guide. Further review reveals that there are various typographical errors. In one case, an example from the book of an improper punctuation of a parenthetical phrase was changed from "My brother, you will be pleased to hear, is now in perfect health." to "My brother you will be pleased to hear, is now in perfect



## Apple II Ramblings

by Ken De Vito

November's Apple II portion of the WAP meeting was a well-attended, eventful, and informative session for most everyone. Everything from repairing Apple II power supplies to getting a great demo on "Publish-It! 4" by the President of TimeWorks, Terry Fleming. In turn this was supplemented by WAP's own TimeWorks ambassador, Gary Hayman.

Prior to the Publish-It! demo, I demonstrated AppleWorks 3.0 on my trusty Apple II via the PlusWorks III utility. This utility modifies AppleWorks 3.0 so that it can be used with a II+. It's great! You've got to ensure that you have standard language video and memory cards because the generic look-alikes usually cause the system to crash. If there is a demand for more information on this, let me know, and I'll write an article for the Journal early next year.

President Fleming was very knowledgeable and gave us a lot of time (1.25 hours thereabouts) before going down to do a similar demo for the Mac people. Gary then took over and passed out great tips for using Publish-It! 4.

There was enthusiastic interest in both of our demos, and I certainly appreciate the help supplied by Gary

and Grace Gallager. There were around 28 people in our session, and during the TimeWorks demo with the Mac people, I counted 37 people in the room...Hmmm.

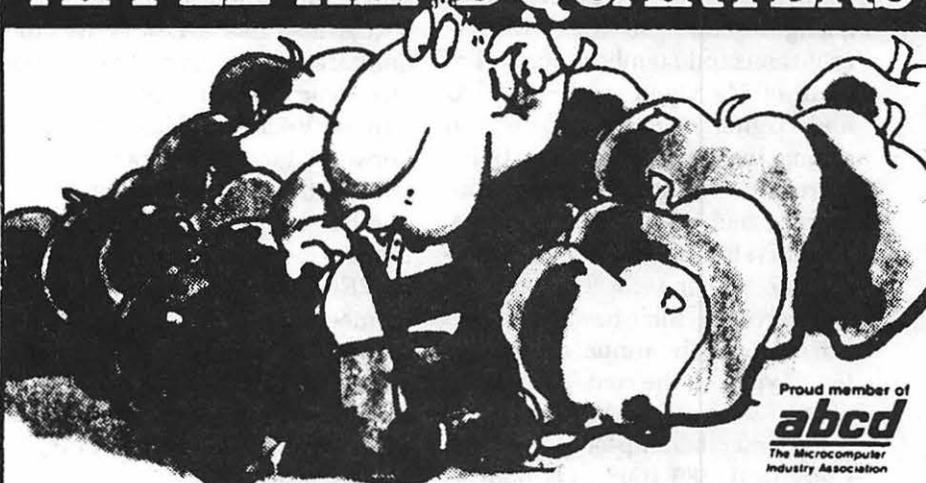
With regard to a manual for those of you who purchased Publish-It! 4, look for an upcoming announcement from our president, Lorin Evans. Details are still being finalized, and I'm sure he'll let you know ASAP.

That's the Ramblings for this month in the Apple II arena. Stay tuned, and I hope to see you at the January Apple II meeting!

Ciao!

Oh! BTW: I neglected to auction off "Publish-It! 4" due to the many things that were going on that morning. I will do so during the Apple II portion of the January, '92 meeting.

# APPLE HEADQUARTERS



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## Rent-A-Computer, Inc.



# Educational Computing Organizations

by Phil Shapiro

In the past five years, several local and national organizations have sprung up in the field of educational computing. These organizations are open to anyone with an interest in educational technology: parents, teachers, administrators, software developers.

In the Washington, D.C. metropolitan area, there are several organizations people can join. One of the largest is the Maryland Instructional Computer Coordinators Association (MICCA. Pronounced with a long "i" sound). MICCA, with several thousand members across the state of Maryland (and some DC and Virginia members, too), has an annual two-day conference in Baltimore each spring. Last year's conference had over 1200 attendees. Membership dues are a very reasonable \$5 per year. This entitles you to receive their newsletter and a discount on the annual conference fee. (Typically the conference costs about \$35 to attend.)

For a membership form, call Mike Cady, (301) 386-1608, in Landover, Maryland. (This is a local call to the metropolitan area.) The spring MICCA conference will be taking place at the Baltimore Convention Center, March 5-6, 1992. The con-

ference includes a keynote speech, dozens of workshops, and some hands-on sessions. The conference also includes a vendor area, where educational software publishers and distributors give demonstrations of their software.

A similar group exists for Virginia teachers interested in educational technology. The Virginia group, VECA, (pronounced with a long "e" sound) was founded in 1985 to promote the utilization of computers throughout Virginia schools. VECA also has a newsletter and annual conference, as well as a large electronic bulletin board system, named VA.PEN. This electronic network allows teachers across the state to telecommunicate with one another by dialing a local phone number with their modems. Dues in VECA are \$10 per year. For a membership form, write to: Daniel Arkin, 7337 Longview Drive, Richmond, VA 23225. The spring VECA conference will be taking place at the College of William and Mary on March 12-13, 1992.

Another smaller local group is the Computer Association of Independent Schools (CAIS) (pronounced "CASE"), which serves the private schools of the metropolitan area.

CAIS meetings rotate around to different schools in the area. For information, you can contact CAIS president Al Marcovitz at his home in Takoma Park: (301) 270-6810. Al mentioned that CAIS has an interesting meeting planned for February 8, 1992 at the Apple office in Columbia, Maryland. This meeting will be having a presentation on new multimedia platforms. Membership dues in CAIS are \$25 per year. Al also mentioned that CAIS has just finished setting up its own electronic bulletin board for members to use.

For persons with access to modems, there are several public electronic bulletin boards in the metro area devoted to educational topics. Foremost among the public local boards is The School Board at: (301) 499-4575. This board actively encourages students and teachers to call. Unlike some other bulletin boards, The School Board is simple enough for a second grader to use. A vibrant community of individuals has built up on The School Board in the past three years. For kids who like to communicate via modem, a pen-pal list helps connect kids with similar interests.

Recently set up is the Montgom-



ery County Public Schools BBS (301-279-3042) which is run by the office of Computer Related Instruction. Montgomery County is encouraging all teachers to take advantage of what the board has to offer.

Also, the WAP's own TCS system has a section on Conference 1 reserved for educational topics. Stop by Board 22 if you'd like to leave questions or remarks about educational computing.

On the national level, one of the largest and most active groups is the Teachers' Idea and Information Exchange (TI&IE). This organization, founded in 1986, distributes a monthly disk of AppleWorks lesson plans, templates, and other goodies. In the past year TI&IE has expanded its membership to include MS/DOS and Mac using educators. (In addition to their monthly Apple II disk they have started a quarterly MS/DOS disk and a quarterly Mac disk.) TI&IE also publishes the StoryWorks HyperText toolkit, that allows teachers to create interactive lessons using AppleWorks. Each month TI&IE includes a new StoryWorks on its disk publication.

For information about TI&IE, you can send a business-sized, self-addressed, stamped envelope to: Jim Carlisle, TI&IE, P.O. Box 6229, Lincoln, NE 68506. Phone: 402-483-6987. The organization has recently started Saturday morning hours to help facilitate communication with long distance callers.

By the way, you can get a sample TI&IE disk, the "Workshop Disk," for the asking. It would be courteous to send a few postage stamps to help defray postage costs, though. Note: you need to own AppleWorks to access any of the files on the TI&IE disks.

AppleWorks is such a popular pro-

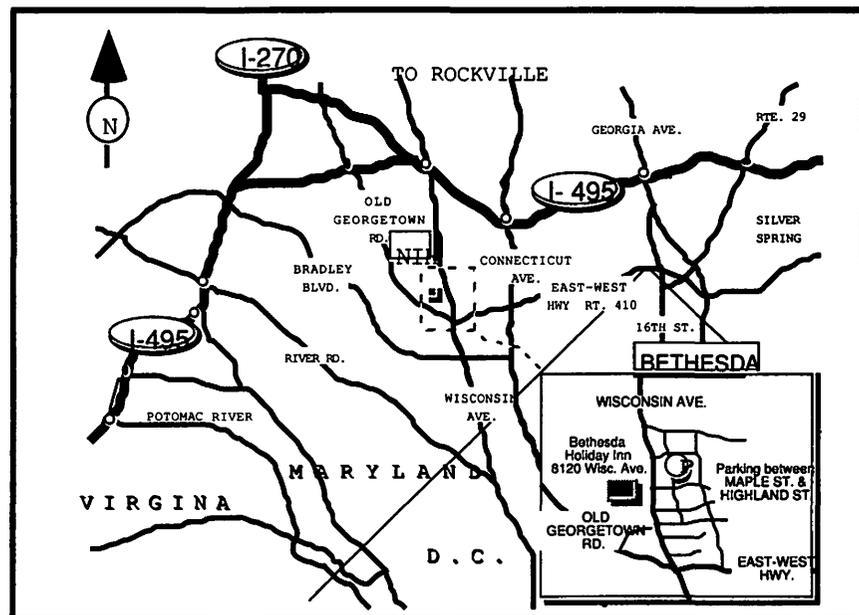
gram for teachers that it has spawned another national publication, The AppleWorks Educator. This hard copy newsletter contains a wealth of information for teachers who use AppleWorks themselves and with their students. For info, contact Dave Chesebrough, The AppleWorks Educator, P.O. Box 72, Leetsdale, PA, 15056. 412-741-3129 (evenings). The subscription price is \$25 per year. (You might want to inquire about back issues, as well. This newsletter has been churning out interesting articles for a couple of years.)

I shouldn't overlook mentioning the Pi's own education special interest group. This group meets one evening each month (usually on the fourth Thursday) to discuss the

types of software we like and don't like. The group has a nice mixture of parents, teachers, and other interested persons. Our discussions tend to focus on elementary and middle school software because there is so much more educational software available for the lower grade levels. We usually meet at the WAP office in Bethesda, but we are willing to travel around to other locations. If you'd like to host an EdSIG meeting at your school or house, please feel free to give me a call at: 202-686-5465 (home/office).

*Phil Shapiro serves as chairperson of the WAP education Special Interest Group.*

## Map to January 25 General Meeting at the Holiday Inn, Bethesda.





## View from the Cathouse

by Kim Brennan

Well, it has been a long while since my previous column, but the good side of that is that now there are lots of things to tell about. High on everybody's list is GS System 6.0 but not far behind are the various new products such as *Pointless* and *Formulate* as well as recent updates to some older ones such as ProTerm.

First, let me say something about GS System 6.0. A common misunderstanding is that this is GS/OS 6.0. It is GS System Software version 6.0, not GS/OS 6.0. What is the difference? The first couple of GS System Software versions were ProDOS 16 not GS/OS. Also GS System 6.0 has two operating systems with it. One is ProDOS 8. The other is GS/OS. The correct version of GS/OS will be 4.0. Apple realized that so many different version numbers of interrelated products was confusing and has labeled the new Finder that will come with the new system as Finder version 6.0 (the previous version was 1.3). GS System 6.0 will be more than just a bug fix of the previous version (5.04).

GS System 6.0 adds several new features that are obvious and a lot more features that won't be obvious to the standard user. One thing that will be obvious is how much

more like the Mac System 7.0 the GS system has become. Little subtleties like pop-down menus in the standard file selection window will become a standard part of the GS, just as they have been for the Mac. Another very nice feature for the GS System 6.0 is the ability to read Mac disks directly. Read and write that is, for you will now be able to create hard disk partitions formatted as HFS (Hierarchical File System, the Mac standard) that are not restricted, as ProDOS partitions are, to 32 MB in size. You do give up something for this feature however. Access to HFS formatted disks is not as fast as it is to ProDOS disks. You also will not be able to boot HFS disks on your GS. So to boot GS/OS you will still need at least one ProDOS partition on your hard disks.

Also included with GS System 6.0 are File System Translators (FST's) to read both (Apple) DOS 3.3 and (Apple) Pascal formatted disks. These FST's are read only, however. You can not write to or create DOS 3.3 or Pascal formatted disks.

Another new addition to the GS environment included with GS System 6.0 is a StyleWriter printer driver. The StyleWriter is Apple's low-cost, high-quality printer (capable of up to 360 dpi printing). The

one drawback to the StyleWriter is its inability to operate with older 8-bit software, such as AppleWorks Classic. There are better choices in printers for the GS, but it is nice that Apple, at least, still supports its own printers for the GS.

The updated Finder in GS System 6.0 has been radically overhauled. The creative spirit behind this has been Andy Nicholas (creator of the Apple II standard for archiving, Shrinkit). The new Finder has more features, is faster, and is becoming much more like the Finder on the Mac.

Two other applications that are included with GS System 6.0 should be mentioned. They are Teach and Archiver. Teach is a text reading program. Documents can be stored in Teach format or standard text format. Teach is important because many 'text' files found on Mac disks are actually in teach format. With the GS Teach, you will be able to read and write to those files just as easily as you would to any standard text file. Archiver is a backup utility (not to be confused with Andy Nicholas' Shrinkit program). Archiver is a replacement for the old Backup II program that Apple used to market for backing up hard disks. Backup II, however, had several



severe bugs that restricted its usefulness, and in fact were dangerous enough that I recommend not using it at all. Backup II, however, did run on any Apple II computer under ProDOS 8, Archiver is a GS/OS program so it is GS specific.

Since I mentioned ProDOS 8 just a moment ago, GS/OS is not the

**The first GS System  
Software versions were  
ProDOS 16, not GS/OS.  
GS System 6.0 has two  
operating systems:  
ProDOS 8 and GS/OS.**

only operating system getting updated in GS System 6.0. ProDOS 8 version 2.0 comes with GS System 6.0 and, besides the inevitable bug fixes, there is one new feature of importance to many BBS owners. ProDOS 8 v. 2.0 will allow you to phantom slot multiple partitions of a hard disk. Simple enough statement, but what does that mean?

The older version of ProDOS 8 allowed you to use at most four 32-MB partitions on a hard disk and normally only two 32-MB partitions. This is because ProDOS 8 only allowed two devices per slot. On a floppy disk this was not a terrible handicap, for hard disk users with very large hard drives the restriction could be more than a little irritating. Another related restriction in ProDOS 8 was that you could only have a maximum of eight devices on-line. If you had two 3.5" disk drives and two 5.25" disk drives you could never have more than four hard disk partitions available.

ProDOS 8 v. 2.0, however, lifts the restrictions somewhat. The limit is now 14 (seven slots with two

devices per slot) and allows you to assign devices to slots other than the one where the controller board is. GS users are probably most familiar with phantom slotting when they create a Ram5 ramdisk. Ram5 (the built in RAM disk of the GS control panel) is assigned a place in the Smartport device chain. If you have two 3.5" drives on the Smartport already, the Ram5 RAM disk takes the place of the second one (becoming the device in slot 5, drive 2) and the second 3.5" drive becomes the device in slot 2, drive 1. This does not affect your slot 2 settings in anyway. ProDOS 8 v. 2.0 can now do this for any Smartport device (Apple SCSI interface cards are Smartport devices). So if you have a 300-MB SCSI hard drive you can now access all of the partitions with ProDOS 8. A welcome change.

Overall GS System 6.0 will be well worth the wait. Hopefully, by the time you read this, it should be released. A new product with an expected release date of December 11, 1991 is called *Pointless*. *Pointless* is a TrueType manager for the GS and will work well with systems 5 and 6. TrueType is Apple's outline font technology. TrueType renders fonts in virtually limitless point sizes with excellent quality.

*Pointless* is not, however, a printer driver; it is only a TrueType manager. It scales the TrueType fonts to whatever size your printer driver requires, be it an ImageWriter, Laserjet, or StyleWriter. You will still need an appropriate printer driver for your printer. Because *Pointless* is a GS/OS initialization file, you can only make use of *Pointless* from within GS/OS applications. You will not be able to use *Pointless* from ProDOS 8 applications (such as AppleWorks Classic) or programs that don't use the standard GS

printer drivers (such as Printshop GS).

Now that I've mentioned TrueType, I thought I'd also share this: Don Aehl, one of the many users of America Online, has written a program to convert TrueType fonts into GS screen fonts. He has been uploading several different type faces in a large variety of point sizes (9 to 96 generally). The quality of these fonts is excellent, and I have been installing them in the file transfer section of my BBS (Cathouse 301-840-8567). Each of the collections of fonts is quite large, even in compacted form (typically 130K). On a laser printout they are truly impressive, but the fonts folder on my boot drive is growing incredibly huge ( 3 MB after trimming!)

Another product to be released soon is *Formulate*. *Formulate* is a GS/OS application that allows you to create Mathematical expressions.

***ProTerm* has released  
its latest version.  
Version (3.0) allows users  
to make use of modern  
high-speed modems with  
true handshaking.**

Prior to *Formulate*, formulas were difficult, if not impossible, to create in any logical straight-forward fashion. *Formulate* also allows you to export your creations so that you can paste the formulas into your documents. I've done this in AppleWorks GS Page Layout and it truly works. Choosing your export mode allows you to print your formula at the maximum resolution (quality) of your printer. An especially nice touch for people trying to create a professional looking document.

Over the last several years, one



program has come to represent the standard in Apple II terminal programs: ProTerm. *ProTerm* has recently released its latest version, and after having seen it, I can say that the new program is impressive. The new version (3.0) allows users to make use of modern high-speed modems with true handshaking, something that is mandatory with error control/data compression modems. It also supports higher speeds than before, has a mouse-based interface (complete with pull down menus) and too many options to name.

CVTechnologies has announced a new revision to the popular RamFAST SCSI interface board. The Rev D. board allows for up to 1 MB of cache although it is smaller than the previous versions. The larger cache size means that GS/OS will never fill the cache before the RamFast has had a chance to write to the disk. Running earlier versions of GS System 6, I've seen re-boot times of three seconds (the re-boot is completely out of cache). Upgrades from the earlier versions are available. However, upgrades are not recommended if you are using an Apple IIe.

Because I'm on the topic of the RamFAST, let me tell you about something new I learned. The RamFAST (Rom 2.0) has a built-in capability of doing background backups to a SCSI tape drive. The one restriction on this was that the backup device had to be a tape drive. However, on America Online Drew of CVTechnologies mentioned a quick patch that can be done so that a user can do a hard drive-to-hard drive backup. Note this only works to a completely separate drive, not to another partition of the same drive.

Most users won't even want to

make a backup to another hard disk drive, but there is that small group of people who have the removable SyQuest cartridge hard disk drive who do want that ability. I'm one of them. To initiate the change, you enter the RamFAST utility program and hold down the Open Apple key and type CVT. This will put you into a memory peeker. Next, type 8004:1 and press return. This sets a flag

**By using the RamFAST utility program, I can make a backup of a 40 MB drive in just over 1 minute (67 seconds). That's fast.**

that will now allow you to backup (using the RamFAST utility program) to another hard disk. Hit ESC to exit the memory peeker. You can now make your backup with the RamFAST utility program in the normal fashion. How fast is this? I can make a backup of a 40-MB drive (one 32-MB partition and one 8-MB partition) in just over 1 minute (67 seconds). That is fast. If you are interested, the reason it is so fast is that the RamFAST (and your computer) just tell the two SCSI devices (hard disks in my case) to talk to each other. The SCSI bus is rated at a 1-MB transfer rate.

Because I'm backing up 40-MB in 67 seconds, you can see that even on my relatively fast hard drives (19 ms and 25 ms) the SCSI bus isn't being used to its full capacity. In this case the hard drives themselves are the limiting factor. Gary Hayman asked if it was economical to backup a hard drive using SyQuest cartridges since the cartridges cost \$70 each. Well an

equivalent number of diskettes (55-60) would cost \$30-\$35 but you would spend an hour doing what I do in one minute. My employer might not think that 59 minutes of my time is worth \$35-\$40; but I do.

With the advent of ProTerm 3.0, I would guess that more people will be getting high speed modems. And when they do, they may be finding out that their old GS-to-external modem cable can't handle the high-speed modem. Having done a fair amount of experimenting on my own and constantly watching messages on the subject, I can now tell you the proper wiring for this type of cable. There are two variants (one is primarily of use for BBS use). They only differ in the wiring on the first connection in the following list. GS side Modem Side 1 (HSKo)4 (RTS) (possibly 20 (DTR) although that means trouble with most software)2 (HSKi) 5 (CTS)3 (TxD-) 2 (TxD)4 (GND) 7 (GND)5 (RxD-) 3 (RxD)6 (TxD+) n.c. 7 (DCD) 8 (DCD)8 (RxD+) 7 (GND). Note that the pinouts given are for the cable, not the GS modem port (mirror reflection). As you look at the mini 8 connector on the cable the numbering is like this: 6 7 83 4 5 1 2. The modem side is a standard 25-pin D connector.

*About the author: Kim Brennan has been involved with Apple computers since 1978, first selling and later using them. He now owns two Apple IIGS's, one operating as a BBS. The Cathouse BBS is a free BBS with hundreds of GS screen fonts on-line which operates 24 hours 3/12/24/96 v.32, MNP2-5, v.42/v.42bis at 301-840-8567.*



## Byts and Pyces

by Gary Hayman

This is a regular monthly column which includes Apple II information of the hints, techniques, suggestions, helps, information, news, etc. genre. Information which may not, in itself, warrant a separate article in the Journal but would, nevertheless, be of interest to Apple II readers. You are asked to submit your hints, ideas and suggestions to me for monthly organization and publishing. You may do so via the TCS, by direct mail (8255 Canning Terrace, Greenbelt, Maryland 20770), or by telephone (301-345-3230). Please note that this column is often submitted for publication 45 to 75 days prior to its appearance in print.

### New GENie Feature

Dale Smith reports that there is a new HyperCard IIGS stack for GENie (on-line telecommunications service) subscribers who use ProTerm 3.0, TIC (Talk is Cheap), or PTP (Point to Point). Here is what he captured from GENie:

Coming soon from SSSI...GENie-Nav — the GENie off-line message and file processor for the Hypermedia generation. GENie-

Nav runs on the Apple IIGS under HyperCard IIGS and supports Talk is Cheap, ProTerm and Point-to-Point. It is easy to install and configure and is fully menu driven. Its user-friendly graphics interface is powerful, yet easy to use. It features context sensitive on-line help available from anywhere within the program.

GENie-Nav has the following features:

**General** • Handles up to 10 Roundtables • Auto-quoting in message and E-mail replies • Unlimited archive files for each Roundtable and E-mail • Signature length up to 30K (Though you'll probably get shot if you use a signature that long) • On-line formatting is 100% compatible with GENie Master • Ability to launch ShrinkIt GS from within GENie-Nav and return to GENie-Nav when done • Ability to go directly on-line from GENie-Nav or later from your term program • On-line session settings for each Roundtable. (You can just get messages, just send replies, just do library functions or any combination of the above. You can access a Roundtable every time you log on or set any number of days between accesses.)

**E-mail** • Receive E-mail • Send E-mail including auto addressing, new letter and reply to letter (uses the same reply format as the GENie REPLY command) • Send Xmodem E-mail (with Binary II or text uploading) • Receive Xmodem E-mail

**Messages** • Messages are displayed individually. You can scroll forward or backward through messages • You can delete all old messages that you have already read or keep them around for reference • You can ignore, un-ignore, mark and un-mark topics, join and cancel categories, ignore all and even enter custom commands (great for SysOps and Topic Leaders) • Custom Find and Find Again features

**Reply to Messages** • Reply options include: Reply to Message, Reply to Author, Post Message, Post Message to different topic, Reply by GE mail, Change Nickname and Start Topic • Copy From Message (with auto quoting) or Copy from Clipboard • Send without GENie formatting (\*sn) or with GENie formatting (\*s)

**Library** • Point and shoot file downloading using Xmodem, Xmodem 1K, Ymodem or Zmodem (with ProTerm 3.0) protocols • Get lists of new uploads (automatically



added to file list) • Get long descriptions of files • Delete a file you own from the library • Upload files using Binary II or text format. (features auto file naming) and much more.

**Price: \$29.95**

**Hardware Requirements:** Apple IIGS with 2 Megs or more of RAM, hard drive.

**Software Requirements:** System 5.04 or higher, HyperCard IIGS; Talk is Cheap v. 3.31 or higher or; ProTerm v. 3.0 or higher (as of this writing not as yet released), or Point-to-Point v. 4.2.1 or higher

### HyperCard GS Icon Editor

David Wood was giving some help to Neil Laubenthal on the TCS relative to the HyperCard GS Icon Editor. Let's see what he had to say:

"Okay, for what the Icon Editor stack in HCGS is supposed to do, it is most certainly "adequate." The procedure:

1. Put your artwork in the "Data" box. Resize the "Data" box as necessary to fit your "Data" into the center of the box. I'll explain about artwork below.

2. Under the menu on the far right, there is an option "Data -> Mask." That will copy the image in the "Data" box to the "Mask" box and change it black. This is important unless you want only part of an icon.

3. Go into "Icon Info" and fill in those bits that are empty, most notably the icon's name and ID number. Unfortunately, it's possible to completely write over another icon unless you check and see if it's there first. More on that later, too.

4. Select "Create Icon." This will create the icon, but only in the "Icon Editor" stack. The "Icon" box is ac-

tually a button; you can copy it into another stack, and then immediately delete it; the icon will be copied over with it, and it won't be destroyed when you delete the but-

**We are making a device that allows you to hook up two IDE drives and make one SCSI drive that is twice as fast and twice as large as either single drive.**

ton. The "Install Icon" menu item does approximately the same thing.

"Now about artwork: No, you can't read in an icon file and convert it into a bunch of ready-made icons. But you can go into your favorite FINDER icon editor, use a screen snapshot utility and then cut the icons out and paste them into the "Icon Editor" stack. That's what I did with the "AppleWorks GS" icon.

"And finally, looking at existing resources. If you select the "Retrieve Icon" utility, you will be asked what icon you want to load in. You're going to answer cancel to that question because all you really want to look at is a list of icons and used ID's.

"I just use some scripts to copy resources as needed, but then again, I'm a "scriptoholic." I have over 20K worth of stack script in my "Home" stack alone!

### Bubble Jet Printers

Tom Aravanis asks the question, "Does anybody out there know anything about these new CANON bubble jet printers I've seen advertised on TV? Is there a driver avail-

able that we allow a GS to use them? Is their print quality as good as they say? Are they difficult to maintain? Do the printheads have to be replaced often?"

Rick Zeman quickly answered, "The StyleWriter is the serial version of the Canon BJ10E. System disk 6.0 [for the IIGS] should have a driver for that. The Canons are parallel printers, so you would need a grappler as an interface for your GS. One of the driver packages (Independence or Harmonie) has a driver for it so that you can use them in desktop mode. You can also use the Canon's built in fonts if you set up a custom printer in AppleWorks."

### CVTech Upcoming Product?

Andrew (Drew) Vogen, one of the owners of CVTech, the RamFAST people, posted this message concerning a new development, "Right now we are working on a 2 to 1 RAID (Redundant Array of Inexpensive Drives). In laymen's terms what we are making is a device that will allow you to hook up two IDE drives and make one SCSI drive that is twice as fast and twice as large as either single drive.

So you can hook up a pair of Quantum 52LPS drives (the AT version) and get a single SCSI drive that is 100 MB but has a sustained transfer rate double the performance of the Quantum 105. The Quantum 105 has a best case performance of about 710K/second. A 2:1 RAID drive using Quantum 52AT drives would get about 1420K/s. Performance of 1420K/s is twice as fast as the 105LPS, about 50% faster than the Quantum 120 and about 5-10% faster than the Quantum 210. Now, if you put a pair of



210AT drives onto our device, you get 2600K/s sustained which is fast enough to blow your hair up. The circuit we are developing is 2" x 4" and has a 50-pin header on one edge (SCSI connector) and a pair of 40-pin headers on the other edge (IDE drives). If this one sells, we will very quickly develop a 4:1 RAID (same circuit, more IDE connectors) which would be capable of quadruple performance and would have the added benefit of being upgradeable in size from the 2:1 RAID. If you fill up your hard drive, you just buy another 50 MB HD and hook it up and your drive gets bigger and faster. We also plan on making a low cost SCSI caching controller for the IBM at the beginning of next year sometime. This is essentially a RamFAST for the IBM people, complete with tape and CD-Rom support for under \$400."

RamFAST-SCSI Revision D is Here!

Drew Vogen (see above) was proud to also state that CVTech is now shipping the revision D RamFAST-SCSI.

The Rev.D has the following four major improvements over the Rev.C board:

1. It's smaller, we've reduced the size from 10"x3" to 5"x3".
2. It consumes less power, Rev.C pulled 0.7 amps, the Rev.D pulls 0.15 amps.
3. The Rev.D board can turn DMA into non-DMA compatible memory products.
4. The Rev.D has expandable cache, 256K or a 1 MB.

The revision D RamFAST board uses surface mount CMOS chips to dramatically reduce the power consumption and the size of the board.

We have also developed a new DMA (Direct Memory Access) circuit that can DMA above the 4-MB limit and it can DMA into memory products that are not normally DMA compatible, such as a RamKeeper with two cards or a RamPak-4GS. This new DMA circuit uses a new technique to handle memory products that violate the Apple technotes on bank latching.

If the memory product uses bank latching, then it would normally be non-DMA compatible because the bank latch contains an invalid value when DMA occurs. The new DMA circuit puts a valid value into the memory product's bank latch before doing DMA. This new technique will give DMA to every memory card that I have encountered. The only bump in the road is the TransWarp GS.

The TransWarp GS was not designed in strict accordance with the processor that it replaces, and one of the discrepancies prohibits the new DMA circuit from putting valid

**You don't absolutely need PostScript but should realize that it can do a lot—with the right software.**

bank latch data into the memory expansion product. Therefore, if you have a TWGS, you will not be able to DMA above 4 MB, nor will you be able to DMA into non-DMA compatible memory products. The ZipGS does not have this design defect nor does the processor that comes in the motherboard. I have also developed a replacement DMA control panel for the Rev.C board

that will allow a Rev.C board to use this new technique.

We have also changed the memory circuit so that it uses (256K)x(4 drams) instead of the (256K)x(1 chip). We can also expand the memory on board from 256K to 1 MB. The memory expansion is user-installable and will be available directly from CVTech. A 256K Rev.C board will have the same performance characteristics of a 256K Rev.D board. Bumping the cache size to a MB improves the performance, depending on the application. I can re-boot GS/OS completely from cache in under four seconds using a 1 MB Rev.D board. One other visible performance boost is that you cannot fill the cache with writes on a 1-MB board because the board will write the data to the disk fast enough to keep some of the MB free for additional writes.

Due to the low current ratings of the CMOS chips, we do not suggest that customers that are using a Rev.C RamFAST in a IIe upgrade to the Rev.D. The bus loading that is typical in a loaded IIe may be too "heavy" for the CMOS parts on the Rev.D board. Bus loading is not a problem in the GS due to the GS's segregated bus architecture.

List price for the Rev.D board 256K is \$199.00

List price for the Rev.D board 1 MB is \$279.00

Upgrade cost from Rev.C to Rev.D (256K) \$ 69.00

Upgrade cost from Rev.C to Rev.D (1Meg) \$139.00

#### Fit to Print

Kim Brennan, owner of the post populated Apple IIGS in the world, was helping Joseph Rickerson decide what features he needed in a



Laser printer. Kim's sage advice follows:

"If you make the switch to another computer and can afford it, get the Mac (believe me, you'll be much happier there than in the MS-DOS world). Now, on to your question. You don't absolutely need PostScript but should realize that PostScript can do a lot—with the right software. There is little advanced software support for PostScript on the GS (or other II), but there is some.

"Most PostScript printers (other than Apple's) will also support an emulation mode (usually HP PCL). This is good because there are printer drivers for HP PCL under GS/OS. The quality of output from Publish.It on a PostScript printer is as good as you will get. You might be able to get better formatting capabilities on another machine, but PostScript is PostScript, and it doesn't matter where it comes from.

"I've been very satisfied with my HP Laserjet Iip printer, but there are better priced deals available in equally capable machines. The TI Microlaser 35 or the NEC Silent-Writer II Model 90 each sell for \$1500 at local stores. While some minor features vary, you would be able to use either of these printers on an Apple IIGS, Mac or IBM equally well. You should also be able to use the printer on an Apple IIe (though not necessarily with PostScript)."

Paul Tarantino queried, "I recall that someone (I think it was you, Kim) once provided a very complete step-by-step of how to use AppleWorks or AWGS to create a PostScript file on disk, which could then be read onto a Mac (using AFX) and dumped to a PostScript LaserWriter for glorious hard copy output. If

those procedures ended up in the Journal, can you (or someone) remind me what issue? If it was here on the TCS, could the procedure be re-posted (and maybe added to the library files)?"

Neil Leibenthal must have been waiting for the question and re-

### **AppleWorks is modular, meaning that as desktop needs increase**

### **AppleWorks kicks itself off the memory and becomes more disk-based.**

plied, "Paul, it only works from a GS specific desktop program. You put the LaserWriter driver in your drivers folder and name in anything else but LaserWriter, for instance laser.writer. Use the DC printer CDEV to select this as your printer. Go through normal page setup and print dialog boxes from your program (AWGS, GWIII, or whatever) with the following exception: In the Print Dialog box where you would normally press OK or hit the return key, hold down Open Apple and F and use the mouse to click on the OK button (it won't work with the return key). You will get a notice that says something like printing PS to disc.

"Now, in your driver's folder you will find a new file called GSPOSTSCRIPT.01 or something like that, with a .01 suffix. Subsequent printing will get you .02, .03, etc. These files are text files containing PS commands that you can then AFE to the Mac and download to the printer. You will need a PS downloader utility for doing this. There is one available in the Mac libraries. The only catch to this is

you must use a font that is equivalent to a PostScript font or the printer will substitute another font and mess it all up. Get the GS PS fonts (don't know if they are all on the system disk, but they were on a recent GS+ disk and are in the libraries on GENie and CompuServe. I have them on my disk in a folder called PS.FONTS and use ProSel 16 script commands to rename the folder to FONTS and the regular fonts folder to REG.FONTS followed by a reboot to make it work. When I want my regular fonts back there is another shell script to do it."

### **A Little AppleWorks History**

Chuck Newby, the former head of the Beagle Buddy program from Beagle Bros, had some interesting comments to make about AppleWorks. Chuck was discussing Data Base Categories on ProLine and posted this interesting information, "When AppleWorks was first written as III Easy Pieces for the Apple III and almost immediately for the Apple IIe/c as AppleWorks, you must remember that the computer maxed out at 64K and, after loading AppleWorks, you had a 10K desktop.

"This is why AppleWorks is modular, meaning that as desktop needs increased AppleWorks kicked itself off the memory and became more and more disk-based. The Extended 80-column card helped immensely, and, after that, AppleWorks had a 56K desktop to work with. AppleWorks was, from then on, sold with about one out of every two Apple IIe or IIc computers.

"The expansion memory in the AUX SLOT was to expand AppleWorks and virtually no other program, and it also made Applied Engineering and Checkmate Mil-



lions of Dollars. AE spent much of their Memory/AppleWorks Expansion software revenues buying full page ads in inCider, A+ and Nibble that they buried Checkmate which actually had a better memory board, better AppleWorks expansion software, and better RAM disk driver.

"As soon as Checkmate went out of business, AE more or less dropped their AppleWorks/Memory card stuff and went on to other things. However, compatibility problems with Beagle Bros TimeOut also forced them into the sidelines in AppleWorks Expansion software. Alas, Beagle Bros came up with the answer to memory managers, too, thus negating any need for AE in this arena!!!

"Why did AppleWorks only have 30 categories? Because AppleWorks on a stock 64K machine only had a 10K desktop."

### What is AUGÉ e.V.?

AUGÉ e.V. is the oldest (and one of the largest) computer users' club in Germany. The name acronym stands for "Apple Users Group Europe" (A.U.G.E.). It was founded in 1979, but changed its name in 1986 when it opened the club for other computers than Apple. Today there are about 2000 members with about 55% of them using an Apple II. The "e.V." means that it operates in two directions. First there are regional meetings all over the country where the users met regularly. Then there are different SIG's.

"I am Martin Georg, the president of the Apple IIGS SIG which has more than 300 members and is the largest AUGÉ SIG. SIG's usually publish their own newsletters, manage the PD library, do nationwide SIG meetings, and operate a

BBS. 300 is a fairly high number. AUGÉ also publishes a central 56-page club magazine eight times a year, which is roughly comparable to the WAP magazine."—Furnished by Martin Georg, Germany.

AppleWorks' Temporary Chuck Newby gave us this interesting tidbit too, "AppleWorks, first puts down a new copy of your file, validates it, then erases the original file. To do this, the saved file will be named AWTEMP.000000. After validating the saved file, AppleWorks erases the original file and renames the temporary file with the name of the original. Usually, this is transparent to the user; however, if you save a file that is locked, or save it to a disk that doesn't have enough room, you can end up with an incomplete save, resulting in a file named AWTEMP.000000 on the disk.

"Once this happens, AppleWorks will no longer be able to work properly with this disk. You will even find that you may have trouble getting rid of the offending file. I have found the most successful way to

**AUGÉ e.V. (Apple Users Group Europe), founded in 1979, is the oldest computer users' club in Germany...The "e.V." means that it operates through regional meetings and different SIG's .**

remove it is by renaming it something without "AWTEMP" in the name, then erasing it. You can avoid this when saving to a disk that doesn't have enough room by answering 'Yes,' rather than 'No,' when

AppleWorks gives you the message, 'Not enough room on the disk, O.K. to erase the original?' This does happen less often when you use a 3.5" disk or hard disk drive."

Former WAP member Mike Ungerman, now living in Florida, added this thought, "Even with AppleWorks 3.0, I have seen crashed disks when the user allows AppleWorks to delete files while trying to save a new one if there is no additional room on the disk. I have a policy: NEVER use open-Apple-S to save any file in AppleWorks. And never allow AppleWorks to remove an old file when saving a new one.

"Along with this is a corollary: Always use new disks to save on when the old one is about 3/4 full."

### I'm Sorry! - But it's *Pointless!*

Here is a new press release and some appended comments about the program.

### WestCode Cleans up Type with *Pointless* for the IIGS.

WestCode Software announces *Pointless*™ for the Apple IIGS. Based on Apple's new TrueType™ outline font technology, *Pointless* eliminates unsightly text with jagged edges. With *Pointless*, letters displayed on the screen appear smooth, crisp and clear at even the largest point sizes.

*Pointless* improves printed output with almost any kind of printer, including the ImageWriter™ and DeskWriter™. These printers typically need two-, three-, or four-times the size fonts to generate high-quality text. *Pointless* will automatically generate characters at any point size needed, providing impressive laser-sharp text. And, with



TrueType fonts, GS users no longer need several font files of various point sizes, reducing the amount of disk space.

*Pointless* works transparently with any GS program, including favorites like AppleWorks GS, HyperStudio, GraphicWriter III, and Platinum Paint. Once the *Pointless* INIT/CDEV is installed in the GS/OS System Folder, your TrueType fonts show up in the font menu along with your other GS fonts.

TrueType is the new font standard on the Macintosh, with System 7.0, and on PC's with Window 3.1. Now GS users can join the TrueType club and share the benefits of this new font technology. Included with *Pointless* are a variety of popular TrueType fonts to help users create great-looking pages immediately.

*Pointless* is the latest in a long list of outstanding programs written by Alan Bird, creator of WestCode's InWords OCR (Optical Character Recognition) software and the Beagle Bros' TimeOut™ enhancement technology for AppleWorks.

### Miami Adds

An individual (real name unknown), posting a message from the Miami University, Academic Computer Service on the ProLine network, commented on the forthcoming program with, "The following is some additional *Pointless* info culled from one of the online services concerning Westcode's new "Pointless" outline font package for the IIGS:

"*Pointless* is an INIT/CDEV that, once installed, lets you specify any font size you want. Normally, if you want to print in Times.20, you need the Times.20 font — and if you want to print in the highest possible print

quality, you will need the Times font in 40 or 80 points, too. So, if you use a variety of point sizes, you need to have a font file for each size. With *Pointless*, you just specify the size, and it's created. All you need is one file for each font family.

"*Pointless* will find its fonts anywhere. They don't have to be in your drive partition or on a floppy disk. This is an advantage for folks who don't use hard disks and are normally limited to the fonts that they can fit on their system disk.

"Apparently, Westcode is shooting for a release date of "Fall, 1991" and might be available by mail order as early as Thanksgiving. The list price will be approximately \$69.95. It seems that Westcode has worked out some agreement with Apple and is licensing TrueType fonts from them. Westcode is trying to include in it's first shipping all TrueType fonts included with Macintosh SS v. 7.0. Additional font packages will be release in the future.

"One of the features of *Pointless* will be the ability to scale a TrueType font to a desired size and save it as a standard IIGS bitmapped font. Also, *Pointless* can be configured to only load and scale individual characters of a font, both to increase speed and to overcome the 64K limit imposed on fonts by the current SS [System Specifications] for the IIGS.

"If a program requests a font size for which *Pointless* has a font format, it will generate that font ASAP, otherwise it will simply pass through to the font manager and allow it to try and find a bitmapped font on disk or, if need be, scale one."

### Local Addition

When questions concerning

TrueType (used by *Pointless*) began to appear on our own TCS, Wizard Jon Thomason shared the following, "Here's the scoop on TrueType, but it may or may not apply to *Pointless*: Yes, it's a different font definition.

**Pointless can be configured to only load and scale individual characters of a font. This increases speed and overcomes the 64K limit of the current IIGS system specs.**

With the current ("bitmap") fonts, a "T" is represented as it would be on a tile mosaic. There are a certain number of tiles horizontally and a certain number vertically. Inside that rectangle, some of the tiles are one color and the rest are another. If I needed to make a new mosaic with a larger "T," I'd need plenty more tiles and I'd essentially have to redesign the pattern from scratch because they aren't the same.

"With 'outline' fonts such as TrueType, a series of curves is described which represents the shape of the letter in a perfect world of math, leaving computer graphics aside. Then hints are often applied to make this math world adjust a little bit and to further resemble the computer graphics world, and, finally, this line drawing is applied to our mosaic: all the tiles which are primarily inside the shape of the letter are replaced with a different color from the ones outside the shape. If I need to make a bigger mosaic, I just make the shape bigger (in its world of math, it is similar



at whatever size) and apply it to a larger rectangle of tiles.

"The good part about all this is that you don't have to have a 123-point font if you want to make a headline in 123-point. And if you want to print that to a StyleWriter, which (correct me if I'm wrong, Kim) will require a font five times that size, you won't have to have a 615-point font (that would exceed the capacity of the current Font Manager) in order for it to look smooth and without any noticeable "staircase effect."

"The bad part is that it takes a fair amount of time for these fonts to be created. Now, I honestly don't know anything about *Pointless*, aside from the press release you posted. I don't know of any limitations it might have. I don't know if it generates bitmaps for characters as it needs them (as the Mac does, keeping frequently-accessed character shapes in a special cache), or if it's a stand-alone program to generate the bitmap fonts we're familiar with from the outline fonts.

From what I've read, I believe that it will work the Mac way, which would require some extra memory and some patience. It's astounding and commendable that they would attempt such a thing, and I look forward to seeing the product in use.

"When all the hoopla about Mac System 7 and the TrueType definition was going on, I was thinking that TrueType or any other outline font specification on the GS would be an excellent way of dealing with the "tall characters" aspect/ratio problem when converting Mac fonts for use on the GS. I hope this idea is coming to life.

"For the record, there is at least one program on the Mac which will

generate bitmap fonts from outline fonts such as PostScript (using Adobe's Type Manager to generate them on screen) or TrueType (using Apple's software). I've been meaning to use this to try getting a full set of, say, New York bitmap fonts from sizes 9 through 96 or so, and then convert the bitmaps for use on the GS using other programs.

It should be possible, but the program that I've used ("BitFont" — in the WAP Mac disk library) doesn't allow changes to the aspect ratio, so they will be too tall like all other Mac->GS converted bitmap fonts. Maybe someone should contact the author; it'd be a relatively minor change to the program, but also not one a Mac user would have thought to put in.

"There are many good articles on outline font technology. Most of the ones that I've read have come from MacWorld. Look them up if you're interested — they explain things a lot more clearly than I have."

### Advantages

Phil Shapiro, our renowned Balloons Software man, shared this news announcement with us. Apple is scheduled to release the latest 8-bit ProDOS, version 2.0 at about the same time they release the new System 6.0 software for the Apple IIGS. ProDOS v. 2.0 offers a few nice advantages over the current version 1.9.

Most important of these advantages is a 200 to 300% increase in input/output speed. The significance of this is that large files and graphic screens will be able to be loaded in about half the time it took before.

Programs that are very disk drive

intensive, such as Scholastic's Slide Shop, Super Story Tree, and Hyperscreen toolkits, stand to benefit considerably by ProDOS 2.0. The only disadvantage to installing ProDOS 2.0 on your applications is that this new ProDOS will not work with the original 6502 central processing unit (CPU) on the earlier Apple II's. (All Apple II+ computers, and the early Apple IIe were sold with the 6502 chip. Later model IIe's and IIc's were sold with the improved 65C02 chip. The IIGS, of course, uses the 65816 chip.)

Software developers who intend their applications to run on these older Apple II's as well as the newer Apple II's might choose to stay with ProDOS 1.9. Otherwise there is no good reason not to update your ProDOS applications to version 2.0.

Another feature of ProDOS version 2.0 is that it will support two devices per slot.

*The author is currently Chairman of both the AppleWorks and Apple IIGS Special Interests Groups. He is published frequently in the Journal of the Washington Apple Pi. He is also a Beagle Buddy, a Seven Hills Partner and a TimeWorks Ambassador for the WAP. Professionally, he is a Certified Hypnotherapist in private practice in McLean, Virginia and does part-time Apple II family computer application programs consulting and teaching. His latest software program, THE MAGIC FILE CABINET is presently selling nationwide.*



## ON THE TRAIL OF THE APPLE III

by David Ottalini

### SARA and the GS

Well, my (used) IIGS has gone down less than six months after I purchased it. I think it has a bad power supply. Meanwhile, my trusty III+ has yet to miss a beat with all four slots filled and a 5 MB Profile in tow. I never turn it off save for major storms, and I use it nearly every day.

My learning curve with the GS continues. But the more I use it, the more I find myself knowing the III should have evolved towards this same machine. Apple showed a tremendous commitment to our SARA, yet they never really had a clear vision about where they wanted to take her.

The III was to have replaced the II, yet Apple never really marketed it as a true replacement machine. They introduced it before all the bugs had been worked out and didn't promote it correctly. Sara was killed at the point where she had become a great computer.

If the III was to have replaced the II, Apple should have phased out the II upon introduction of the III. Had that happened, though, Apple would probably have gone under. The III had too many handicaps to be the "next" Apple computer. It

was (and is) a wonderful machine. But it was wrong for the job Apple had in mind.

Apple would have better spent its resources upgrading the II to more fully compete with the IBM PC. SOS (Sophisticated Operating System) should have been written for the II rather than putting it into a different machine that could only emulate the II+ in software but was not upgradable. Creating a more powerful Apple II model would have been stiffer competition for the emerging IBM-PC without hurting the education market.

The III ended its run at about 100,000 machines. The II and GS will end theirs soon with considerably more in the marketplace. Imagine what Apple might really have done if they hadn't wasted energies and resources on a completely separate 6502-based machine. Imagine the programs that could have been written for the II. Lotus 1-2-3 was being written for the III when the PC came out. You know what happened next.

I will never regret purchasing a III or learning how to compute on one. How can I, when I consider the III still to be the best of the II family of computers? In retrospect things would have been better if Apple had

done its market research properly in the '70's and realized what a great machine the II was, that it was dying, and that it deserved the time and effort to make it competitive with the PC from the start.

### Why SOS?

Apple needed an operating system for its Apple III that was more powerful than the II+'s DOS; one that was flexible, expandable, and more user friendly than DOS.

SOS was designed to be all that and more. It was so good that Apple reworked it into ProDOS's capabilities. And the Macintosh's Hierarchical File System (HFS) owes its roots directly to the III, as well.

SOS was not meant to be, nor designed to be, a Graphical User Interface operating system. Yet it does what it does as a text-based system extremely well. Because the three SOS-specific files (SOS.KER-NEL, SOS.INTERP and SOS.-DRIVER) are all loaded upon boot up, the user only has to configure the system once (unless a new piece of hardware is added).

As Alan Anderson wrote in his *Apple III Guide for Humans* in Apple Orchard's Fall, 1981 edition: "The Apple III's SOS lets you plug in



devices like printers, mass storage devices, modems, etc., and handles much of the necessary translation between computer and the external device. Thus, all things plugged into the III are all treated equally.”

For computer novices that means no patches or modifications are necessary to the software. Device Drivers added to the SOS.DRIVER file are all it takes. That can be a daunting task for those who have never used the III before, which is partly why the III SIG exists. If you are having trouble configuring your system, call one of the members listed in the WAP Hotline. You can also check the library for Apple III manuals or a video tape on how to configure your III to the hardware you have.

### Orphan Computer Software

Having served as your III SIG co-chairman for a number of years, I have worked very hard to make our Public Domain library the best in the nation. We now offer more than 180 disks. Almost all are double sided and self-booting. Most have been configured to work with our Menu.Maker Business Basic program and many include programs that were developed specifically for our SIG. Frankly, no other III group in this area has made such efforts.

Now, as the III moves towards its 12th anniversary, it's time to reconsider PD policies and decide where we wish to go in the future. The Apple II users must also start considering this before their computers become fully orphaned. Orphan Mac owners should take note, too.

Here's what I'm talking about. Over the years, thousands of programs have been written for our machines. Many of them were writ-

ten to be placed freely into the Public Domain. But there are many commercial offerings that were sold for a time and then discontinued. We should consider what we can do with those programs that are no longer commercially available.

Specifically, I believe that user groups should be able to place these programs into the PD for all to use with the following guidelines:

- The program is no longer produced and is not available commercially, even if discontinued (thus vendors still selling discontinued programs are protected until their stock is exhausted.)

- A good faith effort is made to get the permission of the original software company or developer.

- The user group treats the software exactly as it would any other PD offering.

- The user group must follow any requirements placed by the software company or developer for placing the material into the PD (You must order the manual from them).

Remember that user groups like WAP sell their PD disks basically at the cost of the media itself and not for the software found on it. We make no profits off the software.

A good faith effort should be made to get permission to place the software in the PD. But if it is determined that the originating company no longer exists or the developer can not be reached (phone disconnected, mail returned), then there should be no reason users can not have access to the software. Though old, the software may still be of use to our members.

The manuals could be placed into the hardcopy library for users to check out, or they can be scanned/transcribed and placed on disk. If, at a later time, the developer/copyright holder surfaces and asks that

the software be withdrawn, made ShareWare, etc., it would be up to the user group to act on that request.

Our III SIG PD already includes software no longer sold and the original developers have either given their permission to place the material into the PD library or they are unreachable. There will be more to come in the future.

Placing these programs into the PD also has one other useful, historical purpose. It ensures that the hard work of many people in past years does not die. Their programs will live on for anyone interested in using them long after their commercial life has ended.

At some point, there should also be given some consideration to asking permission to place older (read out-of-date) versions of programs still on the market into the PD or as ShareWare. What a great way to try something out and thus serve as an incentive to buy the latest version.

Why waste resources that could make our computers useful for a few more years? We're offering programs that are no longer commercially available. We're not making a profit. We're helping our members get additional usefulness out of their orphaned machines. And, we're preserving the programs for historical purposes. The III SIG has actively implemented this program.

### At It Again

III SIG'er Paul Campbell continues making discoveries about the usefulness of his Apple III. He posted these comments recently on the WAP III SIG TCS board:

The last few days have been pretty exciting in the local III world. I've been playing with System Utilities and taking advantage of SARA's



device independence. I went to copy a text file, and when it asked for the file destination name, I entered the name of my printer. It asked if I wanted a page of directory information before each file, I responded "yes" and the printer took off!

In addition to the banner page, I got the document printed exactly as it would have printed by EZP (without embedded commands like Bold, etc., of course). It worked so well that I've been printing long reports to disk from EZP and AppleWriter, then doing batch printing by giving the sub-directory name. The margins, etc. come out perfect, and so do footers, headers, and page numbers. All the people at my IBM-infested work place are impressed.

I came across a great quote: "Fools ignore complexity. Pragmatists suffer it. Geniuses remove it." Sounds like a compliment for those of us who have done away with MS-DOS.

### How Do I?

How do I get a volume ID using AppleWriter? That question was posed on the Micronetworked Apple Users Group (MAUG) on CompuServe; and Ed Gooding responded:

You can get the volume ID by doing a catalog. The volume ID will be listed at the top of the catalog/directory listing. You can do a catalog from AppleWriter by pressing CONTROL-O and choosing A. Note that on the III you can address devices by their device name or their volume name. If you know the volume name, then SOS will search each block device looking for that volume. It can be faster to just use the device ID because SOS will go directly to that block device to access the desired file.

MAUG'er Bob Archambault said his brother's III was experiencing a

"thermal intermittent" problem, where the system would lock up in Apple II mode if the temperature was too high. Ed suggested that Bob might first try the old press all the chips on the MLB trick. This has been a time honored tradition for III'ers. The III has always had a problem holding onto its chip, especially if their owners turn them off and on every day. Over time the chips will loosen in their sockets. The machine heats up causing the pins to expand, pop up, and make weird things start happening.

Periodically, III owners have to remove the MLB and gently but firmly press down on every socketed chip. This has been proven over and over to solve many problems. If this doesn't solve it, I'd suggest looking at the power supply. Then you might want to proceed with your freeze process. Just about all the chips in the III, with the exception of Apple's proms, can be purchased from Jameco Electronics in Belmont, CA.

Ed says the power supply can be the source of problems associated with the III. Sun still sells them for \$75, or you can try Alltech Electronics (602 Garrison St, Oceanside, CA. 92054; 619-721-7733).

Pre-Owned Electronics (617-891-6851) and Shreve Systems (1-800-227-3971) may also sell them.

### APPLE III PD LIBRARY

As promised, I am happy to announce this month that our III SIG PD now includes ThreeWorks, my "unique bibliographies and data bases for the Apple III Computer."

Developed over many years, I've spent literally hundreds of hours gathering a tremendous amount of information about the III that you can use quickly and easily with

Three EZ Pieces. In recognition of the time spent on this project, I must make this a ShareWare offering. If you purchase ThreeWorks, I am asking that you send me an additional \$5.00 (thank you!)

This is the 1.1.92 version of ThreeWorks and I've updated the bibliographies so that they include listings of all III articles from 1991. I've updated wherever possible, including the vendor and repair lists. You will be able to get the most out of ThreeWorks with a 256k Apple III or III+ because some of the files are quite large. If you own a II and have any version of AppleWorks or AppleWorks GS, you can read these files without any problems.

#### III.INF.31 (Side One)

BIB.80.84—An Apple III Bibliography of articles beginning in 1980 and ending in 1984.

FATAL.CODES—A list of fatal codes which the user may, on occasion find on his/her screen due to a program failure. Original information from Sun Re-marketing.

NON.FATAL.CODES—A list of non-fatal codes which the user may, on occasion find on his/her screen and what it means to the operation of the user's program. Original information from Sun Re-marketing.

PEEK.POKE.CALL—For the Basic programmer. A list of all known Peek, Poke and Call statements with Apple III Business Basic translations where possible. Useful for those trying to convert AppleSoft Basic programs.

REPRINTS—How to order reprints of articles you find in ThreeWorks.

THREE.WORKS The information file you are reading right now.

#### III.INF.31 (Side Two)

APPLE3.BIB.85—An Apple III bibliography of articles for the year '85.

A3.GLOSSARY—A glossary of terms related to the Apple III and many of its programs.

#### III.INF.32 (Side One)

APPLE3.BIB.86—An Apple III bibliography of articles for the year '86.

A3.PGM.VERSIONS—A list of many Apple III programs and their latest version numbers.

*(Continued on page 66)*



## Untitled

It was late afternoon in the month of September  
such a furious battle I cannot remember.  
A Tandy computer gleamed in the light  
with an Apple III sharing the desk to its right.

"The goal that day was to see who was best,"  
the Tandy owner proudly thumped his chest.  
Tandy's DeskMate, with options galore  
was sure to leave SARA dead on the floor.

"Is this for real?" the people all wondered.  
It seemed so unfair, surely someone had blundered.  
They thought the III had been killed and removed  
from the pack,  
then dumped in a grave with a knife in its back.

Yet something was different that could not be de-  
nied  
with a 120 MB drive by her side,  
SARA was changed and had 512k of RAM,  
not as much as the Tandy, but enough for this jam.

The grueling reports seemed like hours away  
some people left, and some chose to stay.  
"This won't be hard for DeskMate," someone said  
with a smirk  
as the Apple III steadily churned through the work.

The tests were complicated, long and intense  
transfers were many, the spreadsheets immense.  
The data flowed like an unyielding flood;  
but SARA was back and ready for blood.

When Tandy's DeskMate was almost through.  
the Apple III owner was tying his shoe.  
He said "I don't mean to turn your day sour,  
but I thought you should know:  
I've been done half an hour."

## A TALE OF TWO SARAS

I have two Saras in my home—  
one stays put, one likes to roam.  
One has "h" at the end of her name;  
the other does not, but still sounds the same.

When Sarah caught fever, we held her and rocked  
her.  
When the fever persisted, we went to the doctor.  
When SARA (my computer) got overheated,  
I stuck a fan on her back—that's all that she needed.

Both are happy and cheerful and ready to play.  
Only one wears diapers, I'm grateful to say.  
Sarah is small but strong for her size;  
SARA is, too—at least in my eyes.

Sarah is bright and has friends up and down;  
SARA is too, but her friends all left town.  
When she's hungry for food, Sarah always gets  
more;  
when SARA got hungry, they just closed the door.

One day my Sarah will be all grown and blessed;  
but as for my SARA, well, we hope for the best.  
My Sarah will always have someplace, we pray;  
but SARA, too often, just gets turned away.

I have two Saras in my home—  
one stays put, one likes to roam.  
One sits in my lap as I talk on the phone;  
one sits on a desk, in the dark, all alone.

Both poems written by Paul Campbell  
Copyright pending 11/22/91



**A3.REPAIRS**—A list of companies or individuals who can repair your Apple III or its peripheral hardware.

**A3.CHIPS**—A list of the chips found inside your Apple III, their respective location and sources of replacements. Original information from Ed Gooding's III's Company BBS.

**/IIINF.32 (Side Two)**

**APPLE3.BIB.87**—An Apple III bibliography of Apple III articles for the year '87.

**APPLE3.BIB.88**—An Apple III bibliography of Apple III articles for the year '88.

**FILE.TYPES**—A list of the various file types used by the Apple II computer family.

**MON.COMMANDS**—A complete set of the Apple III's Monitor Commands.

**/IIINF.33 (Side One)**

**APPLE3.BIB.89** An Apple III bibliography of articles for the year '89.

**APPLE3.BIB.90s**—An Apple III bibliography of articles for the years '90 & '91.

**DL13.DB**—A data base listing the offerings on the DL (Data Library) 13 section of MAUG (Micro-networked Apple Users Group) on CompuServe.

**/IIINF.33 (Side Two)**

**PD.3SOFTWARE**—A list of all known public domain offerings by vendors and clubs around the nation. Includes prices and descriptions.

\* Note WAP PD listing is located on a separate disk: 3INF.01 is ASCII version; 3INF.23 is 3E2P Version.

**/IIINF.34 (Side One)**

**APPLE3.BBS**—A listing of Apple III Bulletin Boards around the nation.

**APPLE3.BOOKS**—A listing of books about the Apple III or that mention the Apple III either in a technical or historical setting.

**APPLE3.CABLES**—An Apple cable compatibility guide for the entire Apple family of computers, including stock and engineering numbers.

**APPLE3.CLUBS**—A current listing of organizations that are active Apple III-specific clubs or have Apple III SIG's (Special Interest Groups).

**APPLE3.CLUBS2**—This file contains a list of groups that were Apple III specific or had III SIG's (Special Interest Groups). In many cases, the contact person may still have a III and can provide support if you live in the area.

**APPLE3.CONSULTS**—A list of individuals known as consultants for the Apple III. The compiler makes no claims nor can he attest to the ability of those listed in this data base (except, that is, for himself!). Please call or write for information.

**APPLE3.DRIVERS**—A listing of all known Apple III device drivers, their latest version numbers, size, etc.

**APPLE3.PUBLCTNS**—A list of publications dealing specifically with the Apple III or that include articles about it.

**APPLE3.TIPS**—A listing of Apple III tips from numerous newsletters and magazines. Brief description of tips provided in most cases.

**/IIINF.34 (Side Two)**

**APPLE3.VENDORS**—A list of all vendors who support or supported the Apple III Computer. The compiler has checked some of them, but would recommend the user call or write a specific vendor in this list before sending any money for a particular product.

**BASIC.KEYS**—A complete listing of the Keywords used in Business Basic. Includes descriptions, examples and notes on each Keyword.

Also going into the PD this month is another program from Dr. Al Bloom. Disk 3UTL.36 is called ASCIIUPLD, or ASCII UPLOAD. As Dr. Bloom explains it:

ASCIIUPLD converts an ASCII text file (one line per record field) from one data base or spread sheet program into the upload format needed by an importing program. A special command file tells ASCIIUPLD (1) which fields of the input ASCII file to be imported and (2) in which order to import the fields. It even let's you create import fields that aren't in the original file.

Full documentation on side one, along with the source code. The actual program is on side two.

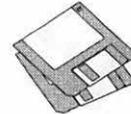
We're adding disk 3TEL.09, the Infonet BBS software. Thanks to Sun Remarking in 1987 this BBS was placed into the PD. It's been extensively upgraded by Ed Gooding and Walt Pawley. User Manual and source code are on side one; the actual program is on side two.

The disk is not self booting and some modifications may be required to tailor Infonet to your needs. Some knowledge of Pascal required if to tailor it. The documentation explains what to do.

Coming: More Best of Atunc disks, more from Dr. Bloom and, as always, a few surprises. Stay tuned!

*David Ottalini is the Apple III SIG Co-Chairman and faithful proponent of the Apple III computer.*

Mail this form with your check to : Disketeria Washington Apple Pi 7910 Woodmont Avenue, Suite 910 Bethesda, Maryland 20814			Are you a member of Washington Apple Pi, Ltd? Y/N ____ If Yes, Member Number _____ All payments must be in U.S. funds drawn against U.S. banking institutions. Non-members add \$3.00 per disk to listed prices.		
<b>Number of Disks</b>	<b>Member Price @</b>	<b>Extended</b>	<b>Name</b>		
5.25" Singles			<b>Box Number, Apartment, Suite, etc.</b>		
___ Disks	\$2.00	_____	<b>Street Address</b>		
___ Disk catalogs + pstg.	\$1.50	_____	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>TOTAL AMOUNT DUE</b>			<b>Day Telephone</b>	<b>Evening Telephone</b>	



## Macintosh Disk Library

by Dave Weikert

### New Disks

There are eleven new disks this month; seven LaserWriter Fonts Series (Mac Disks #6.19 through #6.25) and four INIT's/CDEV's Series (Mac Disks #9.21A through #9.24A). We also revised Mac Disk #00.01, the Mac Catalog text files and will try to keep this disk current. Descriptions of the revised and new files are included below.

### Apple/Adobe Offer

Adobe Systems Inc. and Apple Computer have announced that Apple will include Adobe's Type 1 font technology in a future version of its Apple Macintosh System 7 software. They also announced an interim arrangement for delivering Adobe Type 1 font technology to Apple customers.

Under the interim arrangement, Apple will include a coupon for a free copy of Adobe Type Manager (ATM) software and four Adobe fonts with new Apple printers and Macintosh® computers configured with 4 MB of memory. The four fonts are Adobe Garamond regular, italic, semi-bold and semi-bold italic.

You may also order the ATM font rasterizer and four Adobe Gara-

mond fonts by calling the following number: 1-800-521-1976, ext. 4400. There will be a \$7.50 S/H fee. Apple users in the U.S. and Canada who have already purchased System 7 may obtain their free copy of ATM software and four Adobe fonts by calling the same 800 number. Allow 6 to 8 weeks for delivery.

Adobe Type Manager v. 2.03 is a system extension (INIT) that consumes approximately 200K of system memory. Using ATM software under System 7 requires a minimum of 4 MB of memory, and System 6 users should have at least 2 MB of memory installed. Users of 2 MB Macintosh Classic and Macintosh LC systems will not have enough memory space to use ATM with most major applications. To use System 7 with ATM, Macintosh Classic and LC users should upgrade the memory in their computers. Users of 68030-based Macintosh models, such as the 2 MB Macintosh Classic II and PowerBook 140, can use System 7's Virtual Memory feature to augment their system memory. We have permission to release the ATM software as a Disketeria disk as soon as we receive it.

### LaserWriter Fonts Series

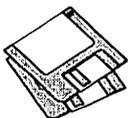
We finally reviewed most of the PostScript (LaserWriter) fonts we accumulated over the past four months; the result is seven disks. Most of the fonts are Type 1 format which means that they will be scaled on the screen if you use the Adobe Type Manager described in the offer above. The majority of these fonts will work on most PostScript printers; a few of the very specialized ones may work only on an Apple LaserWriter.

### INIT's & CDEV's Series

We just added four disks to the INIT's & CDEV's (System Extensions in System 7 Speak) Disk series. Mac Disks #9.21A through #9.24A include updates of earlier files as well as many new files. Most of the new files and many of the older ones are System 7.0 compatible.

### Mac Disk Catalog

MacDisketeria Catalogs are available at the office, at the monthly meetings and by mail order for \$3.00 (by mail, add \$1.50 postage). The catalog covers all Macintosh disks



issued through July 1991.

It only includes disk descriptions. Alphabetical lists of programs and files were dropped due to lack of space. We have added a disk to the library that lists all files in the Mac Disketeria. You may import the text file into the database of your choice for viewing and further manipulation. Also, a printed alphabetic file list is available at the office and can be copied at the standard copy rate.

### About ShareWare Requests

Please honor authors' requests for ShareWare fees if you decide to add these programs to your software library. ShareWare is an important distribution channel for low cost software and it is important to encourage authors to use this channel by paying them for their efforts.

### Disk #00.01 — C 1 The Mac Catalog

**Catalog.txt**, By Dave Weikert. A delimited text file of all the files in our Mac Disketeria. It includes File Name, File Size, File Type, File Creator, Creation Date, Revision Date, and Folder and Disk Names. You should be able to import this list into a database for sorting, selection and printing. You could also import the list into any word processor that accepts large text files.

### DISK #6.19 — LW 19 LASERWRITER FONTS

**Aarcover LW f**; **Aarcover**: By David Rakowski. A Type 1, all caps font, plus numbers and punctuation, whose characters "look like" static electricity or limplightning. **ReadMe Aarcover Type 1™** is in text format. **SW—see the terms in the program notes.**

**AdineKirnberg-Script LW f**: By David Rakowski. A German Art Nouveau script Type 1 font with a full alphabet and most punctuation. It is a

beautiful, rounded script with very striking caps and relatively small lower-case characters. Modeled on Romana. **ReadMe Adine-Kirnberg-Script** in text format. **SW—\$7.49 to Columbia University.**

**Andesite LW f**: By James M. Harris. A beautiful Type 1 display typeface based on Letraset's PLAZA (formerly PLAYBOY). This font has uppercase characters, numerals, punctuation, and accent marks only. **ReadMe—Andesite** is in text format. **SW—\$25.**

**Ann-Stone LW f**: By David Rakowski. A drop caps woodcut Type 1 font from late nineteenth century Germany. Each letter is black, surrounded by a box drawn in thin lines and curvy, curtain-like, stained glass patterns filling in the space. **ReadMe Ann-Stone** is in text format.

**Appleencode LW f**: By Adobe Systems Inc. Adobe@PS@code (apple-encode) for the apple character, which is not printable by some PostScript printers/typesetters. **apple.encode-memo.ReadMe** is in text format.

**Arctic2.0LW f**; **Arctic**: By Sam Wang. A Type 1 brushscript font from the Dover book on Solotype fonts. Complete with upper and lowercase letters, numbers, punctuation etc. **ReadMe** is in text format. **SW—\$10.**

**Ashley LW f**; **Ashley**: By Peter Jensen. A Type 1 font that mimics a sophisticated, probably female, print handwriting. Includes nicely rounded letterforms. **Please ReadMe—Ashley**, TeachText format. **SW—\$10.**

**Black Chancery LW f**; **Black Chancery**: A Type 1 font that has an Old World look. This one was missing any author information; can anybody out there help identify the author and ShareWare fee, if any?

**Caraway Bold LW f**; **Caraway Bold**: By Peter Jensen. A Type 1 sans-serif calligraphic face—informal but very attractive style. Extensively kerned font. Looks best in larger sizes. **Please ReadMe—Caraway Bold 2.0**, TeachText format. **SW—\$10.**

**DavysRibbons LW f**; **DavysRibbons**: By David Rakowski. Type 1 font. Resembling a long, unfurled ribbon-like letters. **ReadMe Davys-Ribbons**, TeachText format, includes

a sample picture of the font. **SW—\$7.49 to Columbia University.**

### DISK #6.20 — LW 20 LASERWRITER FONTS

**DavysDingbats LW f**; **DavysDingbats**: By David Rakowski. A Type 1 font full of really cool pictorial characters. There are around 200 pictorial characters of varying use. Check the option keyboard for ballerina dancers in various poses, and the option-shift keyboard for some really wonderful Art Nouveau images. Experiment—find the images that best suit you. You should use the font in moderation, and not use too many other downloadable fonts in conjunction with it. A whole page of DavysDingbats characters just may cause your printer to reset due to memory limitations and the page won't print. **ReadMe DavysDingbats** is in text format. **SW—donate \$12 or more to Columbia University.**

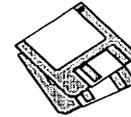
**DavysOtherDingbats LW f**; **DavysOtherDingbats**: By David Rakowski. Another Type 1 font full of really cool pictorial characters including Calvin, Hobbes, Schroder and Snoopy and other pictures of interest. **ReadMe DavysOtherDingbats** is in text format.

### DISK #6.21 — LW 21 LASERWRITER FONTS

**DavysBigKeyCaps LW f**: By David Rakowski. A Type 1 font of characters meant to reproduce the "look" of keys on the IBM and Mac extended keyboards. It is intended primarily to aid in software documentation. The "big" version sacrifices geometric integrity for legibility at small sizes. **ReadMe DavysBigKeyCaps** is in text format.

**DavysKeyCaps LW f**: By David Rakowski. Type 1 font of characters meant to reproduce the "look" of keys on the IBM and Mac extended keyboards. It is intended primarily for software documentation. **ReadMe DavysKeyCaps** is in text format.

**DownWind LW f**: By LORVAD™ (formerly Printers Devil). A semi psy-



chedelic unkered calligraphic Type 1 font. It contains upper & lower case and numbers and looks best at larger sizes. **ReadMe. LORVAD TT** is in text format. **SW-\$10.**

**Dubiel LW f:** By David Rakowski. These fonts are modeled on the Torino and Torino Italic fonts which are similar to a condensed Bodoni except with lighter strokes. They work well as either text or display fonts. Since the FOND resources have not been merged you must select the italic font from the font menu rather than selecting the Dubiel font and giving it an italic style. **ReadMe Dubiel fonts/PS** is in TeachText format and includes samples of the font. **SW-\$14.99 to Columbia University.**

**FoxTrotMedium LW f:** By Tom C. Lai. An excellent quasi-sans-serif Type 1 font with most of the 'extras' that big commercial font companies have. Primarily a display typeface derived in part from the ShareWare font UpperWestSide. **FoxTrotMedium ReadMe** is in text format. **SW-\$25.**

**DISK #6.22 — LW 22**  
**LASERWRITER FONTS**

**Gallaudet LW f:** By David Rakowski. The full alphabet and number keys contain graphic representations of the corresponding American Sign Language alphabet for the deaf. **ReadMe Gallaudet** is in text format. **SW—please make a substantial contribution to the charity of your choice.**

**Graphic Light LW f:** By Richard Mitchell. Type 1 font patterned after a metal type from the Baltimore Type Foundry. It has an unusual "ft" ligature and a small x-height. If you use it for blocks of text, always try it first set solid, that is, with a line spacing equal to its size, 12 on 12, for instance. The face, because of its small x-height, is very small on the body, and the lines will fly apart with too much leading. **Please Read...** and **Generic ReadMe-TrueType** font are in text format.

**Griffin Dingbats LW f:** By David Rakowski. A Type 1 font that contains about 155 picture characters and a rather ornate Gothic drop caps font. The images range from Art

Nouveau printer ornaments, Renaissance printer ornaments and wood-cut printer ornaments to smiling, walking vegetables; the drop caps letters are based on a Gothic typeface called Celebration. **ReadMe Griffin Dingbats split** is in text format. **SW— a tax deductible contribution of \$12 or more.**

**HorstCaps LW f:** By David Rakowski. A Type 1 font in the Art Nouveau style consisting of a set of script capital letters with substantial curly-Q's. This version supplants an earlier version that lacked I, X and Y. **ReadMe Horst Caps** is in text format. **SW-\$2.99 to Columbia University.**

**Informal Oblique f:** By Phil Noguchi. A Type 1 update of **Informal Oblique**. Replaces Slant Informal in public distribution. (Slant was originally designed for informal correspondence and general every-day printing.) **Docs for Informal Oblique**, text format.

**Koshgarian-Light LW f:** By David Rakowski. A Type 1 font modeled on Handel Gothic Light, the font used on Pepsi Cola cans. The full character set and punctuation and numbers are available. The font is a square sans serif font, like a more rounded Eurostile. **ReadMe Koshgarian-Light** is in text format. **SW-\$10 to Columbia University.**

**DISK #6.23 — LW 23**  
**LASERWRITER FONTS**

**Kramer LW f:** By David Rakowski. A Type 1 font that consists of a full alphabet of drop caps, each of which is a white character surrounded by a box and stained glass patterns. The lower-case characters are simply the uppercase character shapes extracted from the patterns and filled in black. **ReadMe Kramer** is in text format.

**Lassus LW f:** By David Rakowski. A Type 1 font that is modeled on the first music printing with moveable type, circa 1500 by Petrucci. Each character has a length of a five-line musical staff with a particular music symbol placed onto it. The font is not intended for serious musical notation, but is intended for quick-and-dirty, simple musical examples to be placed in a word-processed document

so that going back and forth between a word processing program and a drawing or music notation program is unnecessary. **ReadMe Lassus** is in text format.

**Lemiesz & Salter LW f:** **Lemiesz and Salter:** By David Rakowski. Lemiesz is a Type 1 font modeled on Publicity Gothic that looks like a very bold sans serif font with rough edges. Salter is a Type 1 font that is based on a font called Perspective which features black sans serif characters with a very long, striped shadow which goes off above and to the right of each character. They are both display fonts. **ReadMe Lemiesz & Salter** is in TeachText format and includes samples of the fonts.

**LibbyScript 2.0 LW f:** **LibbyScript:** By Sam Wang. A very graceful brush script typeface in Type 1 format. **ReadMe** is in text format. **SW-\$10.**

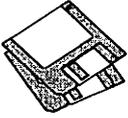
**Lilith-Light LW f:** By David Rakowski. A Type 1 semi-calligraphic serif font. Long vertical strokes, thicker at the top than at the bottom. The x-height of the font is quite short. A full alphabetic set, numbers and punctuation are available in the font. It is meant to be a display font and is not recommend for printing to a 300-dpi device at smaller than 18-point sizes. **ReadMe Lilith-Light** is in text format. **SW-\$3 to Columbia University.**

**Logger TT f:** **Logger:** By David Rakowski. A Type 1 font shaped like logs; there are capital letters and punctuation only. **ReadMe Logger Type 1** is in text format.

**Lumparsky LW f:** By Walter Kafton-Minkel. A Type 1 font with unusual bold forties-style hand-lettering typeface based on a partial font found in an old lettering manual. **Lumparsky ReadMe** is in text format.

**LiquidCrystal LW f:** By Peter Jensen. A Type 1 font that duplicates the classic 7-segment digits that appear in a Liquid Crystal Display (LCD). **Please ReadMe — LiquidCrystal** is in TeachText format.

**Medusa LW f:** By LORVAD™ (formerly Printers Devil). Type 1 display font based on the familiar Art Nouveau font Broklyn. Has a large number of kerning pairs. Looks good



at sizes 12 and larger. **ReadMeFirst-LORVAD.txt**, text format. *SW-* \$10.

**Multiform LW f**; By David Rakowski. A Type 1 hand-drawn Art Nouveau font. **ReadMe Multiform** in text format.

**NeuSansBlack LW f**; By Jim Pearson. A sans-serif typeface designed for almost every phase of font use. It's handy for emphasizing text, headlines, special announcements, etc. **About NeuSansBlack** is in text format. *SW-* \$5.

**DISK #6.24 — LW 24**  
**LASERWRITER FONTS**

**NewRixFancy LW f**; By RIX Font Foundry. A Type 1 sans-serif font. **NewRixFancy ReadMe** is in text format. *SW-* \$15.

**Ornaments LW f**; By Nigel Yeoh. Type 1 font collection of ornaments that complement Adobe's Wood Type Package. Characters were digitized from a photocopy of Roy Kelly's American Wood Types, the ornaments, flourishes, and pointers from Hamilton's 1906 catalogue. **ornaments.comments** is in text format.

**OxNard LW f**; By LORVAD™ (formerly Printers Devil). An Type 1 outline shadow font with irregular sizing and erratic baselines. This is a caps only display font that works best in sizes above 25 points. **ReadMe. Lorvad.txt** is in text format. *SW-* \$10.

**Patriot LW f**; By Jim O'Bryan, Aartvark Design Studios. Type 1 font based on missiles used during Desert Storm, i.e., Patriot, Hellfire 1, Hellfire 2, Tow, Seasparrow, I/Hawk, and Harpoon. Display face with Upper Case, and Small Caps for the Lower Case. Numerals also included. Dedicated to the men and women who served, or helped in the recent Gulf Crisis.

**Phonetic-Alphabet LW f**; By David Rakowski. Type 1 serif font of the Int'l Phonetic Alphabet (I.P.A.). If you don't understand that sentence, you don't need this font. **ReadMe Phonetic-Alphabet** in text format.

**DISK #6.25 — LW 25**  
**LASERWRITER FONTS**

**Premium Thin 2.0 LW f**; By James M. Harris. This Type 1 decorative type-

face is based upon a very famous display typeface called Premier Lightline. It contains the lower case characters as well as upper case. There are also many alternate characters, punctuation marks, and numbers 0-9, and there are nearly 300 kerning pairs. **ReadMe—PremiumThin** is in text format. *SW-* \$25.

**Ransom Note LW f**; By Ted Alspach. A Type 1 font which incorporates a different type style for each character, in addition to a slight rotation, possibly a background, maybe a skewing or two, and an occasional horizontal or vertical scaling. **ReadMe or Else!** is in text format. *SW-* \$5.

**Relief Deco LW f**; By David Rakowski. A Type 1 caps and numbers font, no punctuation; lower-case letters are identical to upper-case letters. It is generously kerned. The letter images are of a heavy slab serif typeface, but of the shadows only, making it a "kind of cool" (sic) display font, unsuitable for text applications, and not so good looking below 18 points. **ReadMe ReliefDecois** in text format. *SW-* \$2.99 to Columbia University.

**Rothman LW f**; By David Rakowski. A Type 1 Art Deco font that includes all alphabetic and numeric characters and punctuation. This is a very condensed font that is based on the font "Empire." The lower case letters are one half the height of the upper case letters and the same character width. **ReadMe Rothman TrueType** is in TeachText format.

**Rudelsberg 2 LW f**; By David Rakowski. Type 1 font is in the Art Nouveau vein (turn of the century Germany in this case) and may be thought of as a second cousin to Adobe's Arnold Boecklin font. Lower case letters are similar, although the upper case characters lack the swashes of Adobe's font. Rudelsberg contains the full set of upper- and lower-case characters, numbers, and some punctuation, but no diacritics. **ReadMe Rudelsberg Type 1** is in text format.

**SillyconValley LW f**; By Jim Ratliff. Patterned after magnetic coding type at the bottom of bank checks. **SillyconValleyFont Note** is in text format.

**StarBurst LW f**; By David Rakowski. A Type 1 display font with caps, num-

bers and punctuation only. Each character is drawn as a black sans serif character with what looks like a bright light cut into its middle with many rays emanating from the light. **ReadMe Starburst** is in text format. *SW-* \$4.99 to Columbia University.

**ToneAndDebs LW f**; By David Rakowski. A Type 1 font with black sans serif characters topped with a layer of snow. **ReadMe ToneAndDebs** is in text format. *SW-* \$3 to Columbia University.

**Wedgie LW f**; By David Rakowski. Three dimensional outline Type 1 font that looks like it is on wedges. Includes a full alphabet with identical upper and lower case letters and numbers and punctuation. **ReadMe Wedgie (TeachText)** in TeachText format.

**Wharmby LW f: Wharmby**; By David Rakowski. Type 1 display font containing capitals, letters and numbers only. Looks like it has a shadow, lit from behind and on the left. **ReadMe Wharmby** is in text format.

**Windsor Demi LW f: Windsor Demi**; Another Type 1 mystery font; author and ShareWare fee (if any) are unknown. Anybody out there care to help us identify this one?

**DISK #9.21A — I/C 21**  
**INIT's & CDEV's**

**AD - Calico Publishing f**; By Richard Lesh, Calico Publishing. **Screen Saver Instructions** is in text format. *SW-* \$5 each.

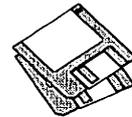
**Crabs**: A genetic simulation of a population of "crabs." Change the food production slider to change the population growth.

**Diatom**: Draws random designs which may be recorded and played back. You may control the number of colors, number of lines, delay and speed.

**Icons f**: Fill the screen with icons taken from a resource file (type 'rsrc') selected by the user. Select any of seven icon sets.

**Invert**: Inverts the screen from the outside edges to the center.

**Maze**: Generates a random maze on the screen solves it. Controls provided for number of colors, box size and delay.



**PolygonArt:** Draws "art" derived from randomly generated polygons. Select number of colors, polygons, color cycles and delay.

**AD - More Modules f:** More of the additions for the very popular After Dark screen saver.

**7.0fo f: 7.0fo:** By Harry Chesley. Demonstrates use of the Process Manager under 7.0 and also makes good use of True Type fonts. 7.0fo Doc is in text format. Requires System 7.

**Air & Sea:** By James Eastman. One picture floats around the screen; you can control the numbers of pixels of movement per frame. Select from a variety of pictures of floating and flying objects.

**Bacteria 1.1 f: Bacteria 1.1** By Dan Walkowski. Control the number and activity of bacteria that move around the screen. **Bacteria notes** is in text format.

**Color Swarm! 1.2 f: Color Swarm! 1.2 1:** By Dan Walkowski. A swarm of bees, changing color as they move, follow a queen bee. Controls for number of bees, jiggle factor, queen speed and drone speed. **Color Swarm! notes** is in text format.

**EyesforAfterDark.PICS f:** **EyesforAfterDark.PICS:** By Dan Aussant. A pair of bloodshot eyes float about the screen. Requires PICS Player.

**Pumpkin f: Pumpkin (PICS):** A Halloween treat floats about the screen. Requires PICS Player.

### **DISK #9.22A — I/C 22** **INIT's & CDEV's**

**AD - More Modules f:** More of the additions for the very popular After Dark screen saver.

**Flying Choppers f: Flying Choppers, Flying Choppers2 and Flying Choppers3:** By Arthur Flores. The first two modules have helicopters (and associated sound effects); the last one has bi-planes. The number of objects is selectable for all modules.

**General S:** By James Eastman. A picture of General Schwartzkopf floats around the screen; you can control the numbers of pixels of movement per frame.

**Hypnosis:** By Keith Conover. Select from a variety of shapes which produce a Moire pattern as they move about the screen.

**Lasers:** By Jean-Luc Doumont. This color only module is described as displaying Hermite-Gaussian or Laguerre-Gaussian Laser beam profiles. Right! In any case, it is an effective screen saver.

**Lunatic Fringe:** By Ben Haller. A video game initiated from the After Dark sleep corner.

**Mr. Melty:** By Jordan Zimmerman. When the screen saver is invoked, the screen seems to melt and everything eventually runs off the bottom.

**Off The Air f: Off The Air:** By Guy T. Rice. An After Dark module that simulates a television that's been left on after the station has stopped broadcasting. **Off The Air ReadMe!!!** is in text format. **ShareWare** - \$2.

**Reality:** By John Rotenstein. Reconciles the complexity of the universe within the operating parameters of the Macintosh. Whether you select Newtonian, Einsteinian and Modernist types and control gravity, distortion and power inversion, the results on the Mac are the same (and familiar to all of us).

**Romans:** By James Eastman. A single picture floats around the screen; you can control the numbers of pixels of movement per frame. Select from a variety of pictures of Roman statuary.

**Saddam:** By James Eastman. A picture of Saddam floats around the screen; you can control the numbers of pixels of movement per frame.

**Satori:** By Berkeley Systems Inc. An update (v 2.1) of the popular color After Dark module. This requires 256 color to operate.

**TerrainMaker 2.0 f: TerrainMaker 2.0:** By Jakub Buchowski & Adam Miller. Generates a fractal landscape with rivers, canyons, mountains, and lakes. **About TerrainMaker 2.0** is in text format.

**Tutankhamen:** By James Eastman. A single picture floats around the screen; you can control the numbers of pixels of movement per frame. Select from a variety of pictures of Egyptian figures.

**Alert INIT 1.2 f: Alert INIT:** By Merchon Cottrell. Causes the cursor to move to the default button of an alert, similar to the way that Sun's Sunview behaves. **ReadMe** is in text format. System 6 and 7 compatible. **ShareWare** - \$10.

**Apple Slicer 1.0 f: Apple Slicer 1.0:** By Jacques Lövi. Splits the apple menu into several sub-menus on the basis of their alphabetical order. System 6 and 7 compatible. **ReadMe first** is in Word format. **ShareWare** - \$20.

**BeHierarchic 1.0.2 f: BeHierarchic 1.0.2** By Fabien Octave. Automatically creates a visual hierarchy in your Apple menu for items in folders. For System 7.0 and later. **ReadMe** is in text format. **ShareWare** - \$10.

### **DISK #9.23A — I/C 23** **INIT's & CDEV's**

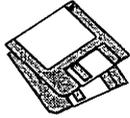
**Apollo 0.5b1 f: Apollo:** By Jeremy Roussak. An application launcher modeled after On Cue. You initiate Apollo from the Apple menu bar or by control key combinations. You can then launch files from a pop-up window to which you may add groups of applications or documents. **About Apollo...** is in TeachText format. Compatible with Systems 4.1 and later including System 7.

**AutoMenus 5.4 f: AutoMenus:** By Michael Conrad. Automatically drops menus down and keeps them there when you move the mouse into the menu area. Select any menu item by clicking on it. **AutoMenus.Doc** is in double clickable DocMaker application format. **ShareWare** - \$10.

**CEToolbox 1.6.4 f: CEToolbox 1.6.4:** By CE Software. Adds the names of installed CE Software programs (such as DiskTop and QuickMail) to the Apple menu. **ReadMe (CEToolbox 1.6.4)** is in text format.

**CommentKeeper 1.0 f:** **CommentKeeper 1.0:** By Maurice Volaski. Preserves the "GetInfo" comments when the desktop is rebuilt. **CommentKeeper 1.0 Docs** is in MacWrite format. For System 7 (or System 6 when used with the Desktop Manager extension).

**Daylight! Demo f: Daylight! Demo:** By Mark Malson. Automatically changes clock for Daylight Saving



Time. Systems 6 and 7 compatible. **Daylight! Demo Doc** is in Word format. *Demoware - \$15 for copy which works after 4/30/92.*

**DepthCharge 1.4 f: DepthCharge:** By Maf Vosburgh. Lets you rapidly change the color setting of any of your monitors via a pop-up menu. It remembers any changes you make and restores the screen to the last setting on start-up. **DepthCharge 1.4** is in text format.

**DFaultD 2.22 f: DFaultD 2.22:** By Jon Gotow. Links applications or sets of applications to specific default folders. **DFaultD 2.22 Docs-MW** is the MacWrite documentation. *SW-\$15.*

**Electric Dvorak f: Electric Dvorak:** By Tom Phoenix. Lets you use the Dvorak keyboard. **Dvorak Installer** removes or installs the Electric Dvorak and the "switching by Keyboard" option. **Dvorak Start-up, Keyboard Shortcuts** and **QWERTY Start-up** are INIT files for the Systems Folder. **ReadMe about Dvorak** contains instructions. **Electric Dvorak QuickRef** is a keyboard layout document. **Membership Application** is included for the International Dvorak Organization. Application modifies the System file with a resource; backup your System file, then reinstall to return to your original configuration. *SW- but you pay for it if you don't use it or pass it along.*

**Escapade 1.3.2 f: Escapade:** By Christopher R. Wysocki. For people who keep their hands on the keyboard. Enables you to select the Cancel button by pressing Escape, -Period or -Delete, and to select any push-button in a dialog by pressing the first letter of the button's title. **About Escapade 1.3.2** is in MacWrite format.

**Extension Manager 1.6 f: Extension Manager 1.6:** By Ricardo Batista, Apple Computer, Inc. Permits you to enable or disable loading of system extensions at start-up much like INIT Picker and other commercial utilities do. For System 7. **Notes for Extensions Mgr 1.6** is in text format.

**FCB Inspector 1.0 f: FCB Inspector 1.0:** By Maurice Volaski. Allows users to peek at a Macintosh's list of

open files. It also provides information about these files on demand and can close ones that aren't crucial to system operation. Finally, it allows the maximum number of open files to be changed. **FCB Inspector Docs** is in MacWrite format.

### **DISK #9.24A — I/C 24 INIT's & CDEV's**

**First Things First™ 1.0.2 f: First Things First™ 1.0.2:** By Visionary Software. A time manager and scheduling utility picked by MUG News Service as the 1991 Utility of the Year. **FTF 1.0.2 ReadMe** and **FTF Downloader ReadMe** text in TeachText and text formats. Systems 6 and 7 compatible. *Demoware - \$69.95 for fully functional copy.*

**Flash-It 2.2.1 f: Flash-It 2.2.1:** By Nobu Toge. Defines three (3) hot-keys to capture all or a selected part of the screen image, save it to the clipboard or to a disk file, and print it. **FI22.DOC (MW)** and **FI22.DOC (Word 4)** are in MacWrite and Word formats respectively. System 6 and 7 compatible. *SW-\$15.*

**Greg's Buttons 1.2.1 f: Greg's Buttons 1.2.1:** By Greg Landweber. Replace the standard black and white push buttons, check boxes, and radio buttons with color 3-D ones. The new buttons are designed to match the windows and scroll bars under System 7 and support the colors that you can select in the System 7 Color Control Panel. **Greg's Buttons 1.2.1 Docs** is in text format. System 6 and 7 compatible. *SW-\$10.*

**INIT Tracker 1.2 f: INIT Tracker:** By Andrew Welch. Monitors INIT's that load after it, determines the technical changes they perform. Writes this information to disk for later analysis. **INIT Tracker Docs** in double-click application format. Systems 6 and 7 compatible. *SW-\$15.*

**MiniScreen 1.5 f: MiniScreen:** By Morgan Davis. MiniScreen changes your color monitor's desktop size to that of a dinky, nine-inch monitor so that you can use that expensive tube to design applications for nine-inch screen Macs. **About MiniScreen...** in TeachText format. *SW-\$15.*

**PopChar 1.10 f: PopChar:** By Günther Blaschek. Enables you to generate every possible character in the current font without having to remember keyboard combinations or to resort to Key Caps. Its all done with the mouse as described in the MacWrite document **PopChar.doc**. Systems 6 and 7 compatible.

**PwrSwitcher 1.0 f: PwrSwitcher:** By David B. Lamkins. Lets you cycle through the active programs by pressing the power key on ADB keyboards. **PwrSwitcher Instructions** and **PwrSwitcher—ReadMe First!** in TeachText and text format respectively. For System 7.0 and later.

**RamDisk+ 3.03 f: RamDisk+ 3.03:** By Roger D. Bates. RAM Disk program which runs automatically on start-up. Copies selected files and folders to the RAM disk and can install a crash saver to recover from system bombs. Considered the best of the ShareWare RAM disks. **ReadMe - RamDisk+** in TeachText format. Systems 6 and 7 compatible. *SW-\$35.*

**SCSIProbe 3.2 f: SCSIProbe:** By Robert Polic. Like SCSI Tools, displays status of SCSI drive in control panel; mounts SCSI disks and disks that have been dragged to the trash. Also reads drive PROM's and reports back vendor, product and version numbers. Systems 6 and 7 compatible.

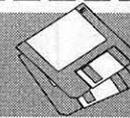
**SuperClock! 3.9.1 f: SuperClock!:** Steve Christensen. The classic full-featured menu clock; with timer and other features. Perhaps the best free software value available for the Macintosh. **SuperClock! ReadMe** and **SuperClock! 3.9.1 - ReadMe** are in MacWrite format. Free, but if you really want to send something, send it to Stanford Children's Hospital. Systems 6 and 7 compatible.

**SuperSaver 1.0 f: SuperSaver 1.0:** By Thomas C. Kerrigan. Another screen saver. **Documentation** is double clickable application format. *SW-\$5.*

**Trash Alias 1.1 f: Trash Alias:** By Maurice Volaski. Automatically deletes any alias files associated with a file (or folder) when the file or folder is deleted. **TrashAlias 1.1 Docs** in MacWrite format. For System 7.0 and later.



# MACINTOSH DISKS & WAP DISKETERIA ORDER FORM



Pi Library	— 5.13 - IW 13	— 9.03A - I/C 3	— 12.10 - S 10	— 14.10 - PH 10	— 16.14C - SU 14	— 19.14 - SW 14	— 21.03 - HE 3
— 0.01-C01	— 5.14 - IW 14	— 9.04A - I/C 4	— 12.11 - S 11	— 14.11 - PH 11	— 16.15C - SU 15	— 19.15 - SW 15	— 21.04 - HE 4
Anti-Virus Utilities	— 5.15 - IW 15	— 9.05A - I/C 5	— 12.12 - S 12	— 14.12 - PH 12	— 16.16C - SU 16	— 19.16 - SW 16	— 21.05 - HE 5
— 5 disk set: \$15		— 9.06A - I/C 6	— 12.13 - S 13	— 14.13 - PH 13	— 16.17C - SU 17	— 19.17 - SW 17	
— 1.01D - AV 1	LaserWriter Fonts	— 9.07A - I/C 7	— 12.14 - S 14	— 14.14 - PH 14	— 16.18C - SU 18	— 19.18 - SW 18	Best of Pi Series
— 1.02D - AV 2	— 25 disk set: \$75	— 9.08A - I/C 8	— 12.15 - S 15	— 14.15 - PH 15	— 16.19C - SU 19	— 19.19 - SW 19	— 10 disk set: \$35
— 1.03D - AV 3	— 6.01 - LW 1	— 9.09A - I/C 9	— 12.16 - S 16	— 14.16 - PH 16		— 19.20 - SW 20	
— 1.04D - AV 4	— 60.2 - LW 2	— 9.10A - I/C 10	— 12.17 - S 17	— 14.17 - PH 17	Word Processing	— 19.21 - SW 21	System Software
— 1.05D - AV 5	— 6.03 - LW 3	— 9.11A - I/C 11	— 12.18 - S 18	— 14.18 - PH 18	Utilities	— 19.22 - SW 22	— 4 disk sets: \$12
	— 6.04 - LW 4	— 9.12A - I/C 12	— 12.19 - S 19	— 14.19 - PH 19	— 17.01A - WP 1	— 19.23 - SW 23	— 6.0.5
Desk Accessories	— 60.5 - LW 5	— 9.13A - I/C 13	— 12.20 - S 20	— 14.20 - PH 20	— 17.02A - WP 2	— 19.24 - SW 24	— 6.0.7
— 15 disk set: \$45	— 60.6 - LW 6	— 9.14A - I/C 14	— 12.21 - S 21	— 14.21 - PH 21	— 17.03A - WP 3	— 19.25 - SW 25	— 6.0.8
— 2.01C - DA's 1	— 6.07 - LW 7	— 9.15A - I/C 15	— 12.22 - S 22	— 14.22 - PH 22	Adobe Screen Fonts	— 19.26 - SW 26	True Type Software
— 2.02C - DA's 2	— 60.8 - LW 8	— 9.16A - I/C 16	— 12.23 - S 23	— 14.23 - PH 23	— 16 disk set: \$48	— 19.27 - SW 27	— 2 disk set: \$6
— 2.03C - DA's 3	— 6.09 - LW 9	— 9.17A - I/C 17	— 12.24 - S 24	— 14.24 - PH 24	— 18.01 - AF 1	— 19.28 - SW 28	
— 2.04C - DA's 4	— 6.10 - LW 10	— 9.18A - I/C 18	— 12.25 - S 25	— 14.25 - PH 25	— 18.02 - AF 2	— 19.29 - SW 29	System Software 7.0
— 2.05C - DA's 5	— 6.11 - LW 11	— 9.19A - I/C 19	— 12.26 - S 26		— 18.03 - AF 3	— 19.30 - SW 30	— 9 disk set: \$20
— 2.06C - DA's 6	— 6.12 - LW 12	— 9.20A - I/C 20	— 12.27 - S 27	Miscellaneous Utilities	— 18.04 - AF 4	— 19.31 - SW 31	
— 2.07C - DA's 7	— 6.13 - LW 13	— 9.21A - I/C 21	— 12.28 - S 28	— 11 disk set: \$33	— 18.05 - AF 5	— 19.32 - SW 32	Sys. Software 7.01/1.4 MB
— 2.08C - DA's 8	— 6.14 - LW 14	— 9.22A - I/C 22	— 12.29 - S 29	— 15.01A - MU 1	— 18.06 - AF 6	— 19.33 - SW 33	— 5 disk set: \$20
— 2.09C - DA's 9	— 6.15 - LW 15	— 9.23A - I/C 23	— 12.30 - S 30	— 15.02A - MU 2	— 18.07 - AF 7	— 19.34 - SW 34	
— 2.10C - DA's 10	— 6.16 - LW 16	— 9.24A - I/C 24	— 12.31 - S 31	— 15.03A - MU 3	— 18.08 - AF 8	— 19.35 - SW 35†	Network Products Installer
— 2.11C - DA's 11	— 6.17 - LW 17			— 15.04A - MU 4	— 18.09 - AF 9	— 19.36 - SW 36†	— 1 disk set: \$3
— 2.12C - DA's 12	— 6.18 - LW 18	Miscellaneous	Telecommunications	— 15.05A - MU 5	— 18.10 - AF 10	— 19.37 - SW 37	
— 2.13C - DA's 13	— 6.19 - LW 19	— 10.01 - M 1	— 9 disk set: \$27	— 15.06A - MU 6	— 18.11 - AF 11	— 19.38 - SW 38	HyperCard Update 1.2.5
— 2.14C - DA's 14	— 6.20 - LW 20	— 10.03 - M 3	— 13.01A - T 1	— 15.07A - MU 7	— 18.12 - AF 12		— 3 disk set: \$9
— 2.15C - DA's 15	— 6.21 - LW 21		— 13.02A - T 2	— 15.08A - MU 8	— 18.13 - AF 13	Mac II Series	
	— 6.22 - LW 22	Paintings (MacPaint)	— 13.03A - T 3	— 15.09A - MU 9	— 18.14 - AF 14	— 13 disk set: \$39	HyperCard Update 2.0
FKKeys-Function Keys	— 6.23 - LW 23	— 5 disk set: \$15	— 13.04A - T 4	— 15.10A - MU 10	— 18.15 - AF 15	— 20.01A - MII 1	— 5 disk set: \$15
— 2 disk set	— 6.24 - LW 24	— 11.01 - P 1	— 13.05A - T 5	— 15.11A - MU 11	— 18.16 - AF 16	— 20.02A - MII 2	
— 4.01A - FK's 1	— 6.25 - LW 25	— 11.02 - P 2	— 13.06A - T 6			— 20.03A - MII 3	Serially Numbered
— 4.02A - FK's 2		— 11.03 - P 3	— 13.07A - T 7	System Utilities	HyperCard StackWare	— 20.04A - MII 4	— Disks 30/92
	True Type Fonts	— 11.04 - P 4	— 13.08A - T 8	— 19 disk set: \$57	— 44 disk set: \$132	— 20.05A - MII 5	— Disks 74/75
ImageWriter Fonts	— 7 disk set: \$21	— 11.05 - P 5	— 13.09 - T 9	— 16.01C - SU 1	— 19.01 - SW 1	— 20.06A - MII 6	— Disks 77/78
— 15 disk set: \$45	— 7.01 - TT 1			— 16.02C - SU 2	— 19.02 - SW 2	— 20.07A - MII 7	— Disks 80/84
— 5.01 - IW 1	— 7.02 - TT 2	Digitized Sounds	Programmer / Hacker	— 16.03C - SU 3	— 19.03 - SW 3	— 20.08B - MII 8	— Disks 85/89
— 5.02 - IW 2	— 7.03 - TT 3	— 31 disk set: \$93	— 25 disk set: \$75	— 16.04C - SU 4	— 19.04 - SW 4	— 20.09B - MII 9	— Disks 91/95
— 5.03 - IW 3	— 7.04 - TT 4	— 12.01 - S 1	— 14.01 - PH 1	— 16.05C - SU 5	— 19.05 - SW 5	— 20.10A - MII 10	— Disks 96/104
— 5.04 - IW 4	— 7.05 - TT 5	— 12.02 - S 2	— 14.02 - PH 2	— 16.06C - SU 6	— 19.06 - SW 6	— 20.11A - MII 11	— Disks 105/106
— 5.05 - IW 5	— 7.06 - TT 6	— 12.03 - S 3	— 14.03 - PH 3	— 16.07C - SU 7	— 19.07 - SW 7	— 20.12A - MII 12	— Disks 108/128
— 5.06 - IW 6	— 7.07 - TT 7	— 12.04 - S 4	— 14.04 - PH 4	— 16.08C - SU 8	— 19.08 - SW 8	— 20.13A - MII 13	— Disks 134/143
— 5.07 - IW 7		— 12.05 - S 5	— 14.05 - PH 5	— 16.09C - SU 9	— 19.09 - SW 9		— Disks 147
— 5.08 - IW 8	INIT's & CDEV's	— 12.06 - S 6	— 14.06 - PH 6	— 16.10C - SU 10	— 19.10 - SW 10	HyperCard Externals	— Disks 150/151
— 5.09 - IW 9	— 24 disk set: \$72	— 12.07 - S 7	— 14.07 - PH 7	— 16.11C - SU 11	— 19.11 - SW 11	— 5 disk set: \$15	— Disks 153
— 5.10 - IW 10	— 9.01A - I/C 1	— 12.08 - S 8	— 14.08 - PH 8	— 16.12C - SU 12	— 19.12 - SW 12	— 21.01 - HE 1	† 19.35 - 6 disk \$15
— 5.12 - IW 12	— 9.02A - I/C 2	— 12.09 - S 9	— 14.09 - PH 9	— 16.13C - SU 13	— 19.13 - SW 13	— 21.02 - HE 2	† 19.36 - 2 disk set \$7

HyperCard Upgrade requires HyperCard proof of purchase; any of original disk, first page of manual, receipt or previous HyperCard Upgrade disk.

Mail this form with your check to : Disketeria Washington Apple Pi 7910 Woodmont Avenue, Suite 910 Bethesda, Maryland 20814			Are you a member of Washington Apple Pi, Ltd.? Y/N ___ If Yes, Member Number _____ All payments must be in U.S. funds drawn against U.S. banking institutions. Non-members add \$3.00 per disk to listed prices.		
Number of Disks	Member Price @	Extended	Name		
Singles			Box Number, Apartment, Suite, etc.		
— 4 or less @	\$4.00=		Street Address		
— 5 or more @	\$3.50=		City		
— Sets (marked above)	\$(above)		State		
— + postage \$1.00/disk,			Zip Code		
— maximum \$5.00.	\$3.00=		Day Telephone		
— Disk Catalogs +			Evening Telephone		
— postage @ \$1.50					
TOTAL AMOUNT DUE	\$				



FOR YOUR REFERENCE - THE NUMBERS SHOWN IN PARENTHESES ( ) AFTER THE DISK NAMES ARE THE OLD DISK NUMBERS

# Apple Disk Library

compiled by John Ruffato

The Apple Disk Library has been updated and reformatted to enable you to more easily and quickly locate those disks in which you are interested. All 3.5" disks are listed first, followed by the complete listing of all 5.25" disks. Look for the  and  icons which distinguish them.

## 3.5" DISKS

(SW) INDICATES SHAREWARE

### Apple II GS



#### SYSTEM DISKS

- \_\_\_ GSAS-01 System Disk V. 5.0.4
- \_\_\_ GSAS-02 System Tools V. 5.0.4

#### IIGS COMMUNICATIONS

- \_\_\_ GSCM-01B FreeTerm (2003)
- \_\_\_ GSCM-02A SnowTerm

#### IIGS DEMO (16 DISK SET-\$48)

- \_\_\_ GSDM-01 Cartooner's Demo
- \_\_\_ GSDM-02 Deluxe Paint II Demo
- \_\_\_ GSDM-03 Music Studio Demo
- \_\_\_ GSDM-04 Beagle Writes GS Demo
- \_\_\_ GSDM-05 Calendar Crafter Demo
- \_\_\_ GSDM-06 G.A.T.E. Demo
- \_\_\_ GSDM-07 Crystal Quest, Dragon Wars, Pyramid GS
- \_\_\_ GSDM-08 Diversi-Tune, Nexus, ProSel 16, Salvation
- \_\_\_ GSDM-09 Shanghai Demo & Extra Tile Sets
- \_\_\_ GSDM-10 Medley V. 2.0 Demo
- \_\_\_ GSDM-11 Battle Chess Demo
- \_\_\_ GSDM-12 Task Force Demo
- \_\_\_ GSDM-13 Genesys, ProTerm 2.2, TIC
- \_\_\_ GSDM-14 Space Harrier Demo
- \_\_\_ GSDM-15 HCGS Screens, MasterTracks Jr., SysEx MIDI
- \_\_\_ GSDM-16 AC Basic, DesignMaster, GS16 Forth, Micol, MicroDot

#### IIGS DESK ACCESSORIES (11 DISK SET-\$33)

- \_\_\_ GSDA-01 Desk Accessories 1 (2020)
- \_\_\_ GSDA-02 Desk Accessories 2
- \_\_\_ GSDA-03 Desk Accessories 3
- \_\_\_ GSDA-04 Desk Accessories 4
- \_\_\_ GSDA-05 Desk Accessories 5
- \_\_\_ GSDA-06 Desk Accessories 6
- \_\_\_ GSDA-07 Desk Accessories 7
- \_\_\_ GSDA-08 Desk Accessories 8
- \_\_\_ GSDA-09 Desk Accessories 9
- \_\_\_ GSDA-10 Desk Accessories 10
- \_\_\_ GSDA-11 Desk Accessories 11

#### IIGS DEVELOPER (7 DISK SET-\$21)

- \_\_\_ GSDV-01 Demo Source Code 1 (2005)
- \_\_\_ GSDV-02 Demo Source Code 2 (2006)
- \_\_\_ GSDV-03 Shell Applications (EXE) 1
- \_\_\_ GSDV-04 Shell Applications (EXE) 2
- \_\_\_ GSDV-05 Miscellaneous Developer Files 1
- \_\_\_ GSDV-06 Miscellaneous Developer Files 2
- \_\_\_ GSDV-07 Miscellaneous Developer Files 3

#### IIGS FONTS (27 DISK SET-\$81)

- \_\_\_ GSFT-01 A-Plain
- \_\_\_ GSFT-02 A-Fancy, Foreign, Graphic
- \_\_\_ GSFT-03 B-Plain, Foreign, Graphic
- \_\_\_ GSFT-04 B-Plain, Fancy
- \_\_\_ GSFT-05 C-Plain
- \_\_\_ GSFT-06 C-Plain
- \_\_\_ GSFT-07 C-Graphic, Foreign
- \_\_\_ GSFT-08 C-Fancy
- \_\_\_ GSFT-09 D-Plain, Fancy, Foreign, Graphic
- \_\_\_ GSFT-10 E-Plain, Fancy, Foreign, Graphic

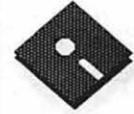
- \_\_\_ GSFT-11 F-Plain, Fancy, Graphic
- \_\_\_ GSFT-12 G-Foreign, Fancy
- \_\_\_ GSFT-13 G-Plain, Graphic
- \_\_\_ GSFT-14 H-Fancy, Foreign
- \_\_\_ GSFT-15 I
- \_\_\_ GSFT-16 H-Graphic, Plain
- \_\_\_ GSFT-17 J
- \_\_\_ GSFT-18 K
- \_\_\_ GSFT-19 M-Fancy
- \_\_\_ GSFT-20 M-Foreign
- \_\_\_ GSFT-21 M-Plain
- \_\_\_ GSFT-22 M-Graphic
- \_\_\_ GSFT-23 N-Plain, Fancy
- \_\_\_ GSFT-24 N-Foreign, Graphic
- \_\_\_ GSFT-25 O
- \_\_\_ GSFT-26 P-Foreign, Graphic
- \_\_\_ GSFT-27 P-Plain, Fancy
- \_\_\_ GSFT-28 Q
- \_\_\_ GSFT-29 R
- \_\_\_ GSFT-30 S-Fancy
- \_\_\_ GSFT-31 T-Fancy
- \_\_\_ GSFT-32 S-Plain, Graphic
- \_\_\_ GSFT-33 S-Foreign
- \_\_\_ GSFT-34 T-Plain
- \_\_\_ GSFT-35 T-Foreign, Graphic
- \_\_\_ GSFT-36 U
- \_\_\_ GSFT-37 V
- \_\_\_ GSFT-38 W
- \_\_\_ GSFT-39 Y
- \_\_\_ GSFT-40 Z

#### IIGS GAMES (22 DISK SET-\$66)

- \_\_\_ GSGM-01A Mean 18 Golf Courses (2007)
- \_\_\_ GSGM-02A Mean 18 Golf Courses 2 (2018)
- \_\_\_ GSGM-03 Bouncing Bluster Boot Disk
- \_\_\_ GSGM-04 Bouncing Bluster Data and Docs
- \_\_\_ GSGM-05 Bouncing Bluster Consn. Set
- \_\_\_ GSGM-06 Games 1
- \_\_\_ GSGM-07 Games 2
- \_\_\_ GSGM-08 Games 3
- \_\_\_ GSGM-09 Games 4
- \_\_\_ GSGM-10 Games 5
- \_\_\_ GSGM-11 Games 6
- \_\_\_ GSGM-12 Games 7
- \_\_\_ GSGM-13 Games 8
- \_\_\_ GSGM-14 Games 9
- \_\_\_ GSGM-15 Games 10
- \_\_\_ GSGM-16 Games 11
- \_\_\_ GSGM-17 Mean 18 Golf Courses 3
- \_\_\_ GSGM-18 Games 12
- \_\_\_ GSGM-19 Games 13
- \_\_\_ GSGM-20 Games 14
- \_\_\_ GSGM-21 Columns GS V. 2.0
- \_\_\_ GSGM-22 Lode Runner GS

#### IIGS GRAPHICS (21 DISK SET-\$63)

- \_\_\_ GSGX-01 Demo Disk A (2002)
- \_\_\_ GSGX-02 Slide Show 1 (2004)
- \_\_\_ GSGX-03 Slide Show 2 (2016)
- \_\_\_ GSGX-04 Slide Show 3 (2017)
- \_\_\_ GSGX-05 Nucleus Demo-ROM 3
- \_\_\_ GSGX-06 GIF Graphics 1
- \_\_\_ GSGX-07 Pics and Utilities 1
- \_\_\_ GSGX-08 Pics and Utilities 2
- \_\_\_ GSGX-09A Pics and Utilities 3
- \_\_\_ GSGX-10 Pics and Utilities 4
- \_\_\_ GSGX-11 Modulae
- \_\_\_ GSGX-12 Paula Abdul Demo



- \_\_\_ GSGX-13A Pics and Utilities 5
- \_\_\_ GSGX-14 Slide Show 4
- \_\_\_ GSGX-15 Slide Show 5
- \_\_\_ GSGX-16 Nucleus Demo-ROM 1 (2024)
- \_\_\_ GSGX-17 PSGS Graphics 1-Color
- \_\_\_ GSGX-18 PSGS Graphics 2-Mono
- \_\_\_ GSGX-19 PSGS Graphics 3-Mono
- \_\_\_ GSGX-20 Marilyn Monroe Slide Show
- \_\_\_ GSGX-21 Pics and Utilities 6

**IIGS HYPERSTUDIO (21 DISK SET-\$63)**

- \_\_\_ GSHS-01 HS System-Demo Version
- \_\_\_ GSHS-02 HS Demo-Demo Version
- \_\_\_ GSHS-03 HS Sounds-Demo Version
- \_\_\_ GSHS-04 More Stacks-Demo Version
- \_\_\_ GSHS-05 More Stacks 2-Demo Version
- \_\_\_ GSHS-06 Video Demo-Demo Version
- \_\_\_ GSHS-07 Comm Stack-Demo Version
- \_\_\_ GSHS-08 MUG 087-Demo Version
- \_\_\_ GSHS-09 USA-Demo Version
- \_\_\_ GSHS-10 HS Art 2-Demo Version
- \_\_\_ GSHS-11 Miscellaneous HS Stacks 1
- \_\_\_ GSHS-12 Miscellaneous HS Stacks 2
- \_\_\_ GSHS-13 Arizona Stack Disk 1
- \_\_\_ GSHS-14 Arizona Stack Disk 2
- \_\_\_ GSHS-15 Photography Stack Disk 1
- \_\_\_ GSHS-16 Photography Stack Disk 2
- \_\_\_ GSHS-17 1906 SF Earthquake & Fire Disk 1
- \_\_\_ GSHS-18 1906 SF Earthquake & Fire Disk 2
- \_\_\_ GSHS-19 Miscellaneous HS Stacks 3
- \_\_\_ GSHS-20 Miscellaneous HS Stacks 4
- \_\_\_ GSHS-21 Miscellaneous HS Stacks 5

**IIGS ICONS (8 DISK SET-\$24)**

- \_\_\_ GSIC-01A Finder Icons 1 (2022)
- \_\_\_ GSIC-02A Finder Icons 2
- \_\_\_ GSIC-03A Finder Icons 3
- \_\_\_ GSIC-04A Finder Icons 4
- \_\_\_ GSIC-05A Finder Icons 5
- \_\_\_ GSIC-06A Finder Icons 6
- \_\_\_ GSIC-07A Finder Icons 7
- \_\_\_ GSIC-08 Finder Icons 8
- \_\_\_ GSIC-09 Finder Icons 9
- \_\_\_ GSIC-10 Finder Icons 10
- \_\_\_ GSIC-11 Finder Icons 11

**IIGS MUSIC (12 DISK SET \$36)**

- \_\_\_ GSMU-01A SoundSmith and Songs
- \_\_\_ GSMU-02 SoundSmith Songs 1
- \_\_\_ GSMU-03 SoundSmith Songs 2
- \_\_\_ GSMU-04 SoundSmith Songs 3
- \_\_\_ GSMU-05 SoundSmith Songs 4
- \_\_\_ GSMU-06 SoundSmith Songs 5
- \_\_\_ GSMU-07 Deversi-Tune (C) Songs 1
- \_\_\_ GSMU-08 Music Studio Songs 1
- \_\_\_ GSMU-09 MS Songs 2 (Golden Album Rock 2)
- \_\_\_ GSMU-10 A Variety Pack of Songs
- \_\_\_ GSMU-11 SoundSmith Songs 6
- \_\_\_ GSMU-12 MCS Song "Slide Show"

**IIGS MISCELLANEOUS**

- \_\_\_ GSMS-01 New Member's Disk (2000)
- \_\_\_ GSMS-02 GS Disk Library Catalog Disk 1
- \_\_\_ GSMS-03 GS Disk Library Catalog Disk 2

**IIGS SOUNDS (16 DISK SET-\$48)**

- \_\_\_ GSSN-01A Sounds 1 (2014)
- \_\_\_ GSSN-02A Sounds 2-Nostalgia (2015)
- \_\_\_ GSSN-03 Sounds 3
- \_\_\_ GSSN-04 Sounds 4
- \_\_\_ GSSN-05 Sounds 5-Simpsons 1
- \_\_\_ GSSN-06 Sounds 6-Simpsons 2
- \_\_\_ GSSN-07 Sounds 7
- \_\_\_ GSSN-08 Sounds 8
- \_\_\_ GSSN-09 Sounds 9
- \_\_\_ GSSN-10 Sounds 10
- \_\_\_ GSSN-11 Sounds 11
- \_\_\_ GSSN-12 Sounds 12-Cartoons 1
- \_\_\_ GSSN-13 Sounds 13-Cartoons 2
- \_\_\_ GSSN-14 Sounds 14-Cartoons 3
- \_\_\_ GSSN-15 Sounds 15-Cartoons 4
- \_\_\_ GSSN-16 Sounds 16-Cartoons 5

**IIGS TUTOR TECH**

- \_\_\_ GSTT-01A WAP Stacks (2019)

**IIGS UTILITIES (9 DISK SET-\$27)**

- \_\_\_ GSUT-01A Utilities 1 (2001)
- \_\_\_ GSUT-02 JumpStart Prog Sel V. 3 (2021)
- \_\_\_ GSUT-03A Utilities 2 (2028)
- \_\_\_ GSUT-04A Utilities 3 (2029)
- \_\_\_ GSUT-05A Utilities 4
- \_\_\_ GSUT-06A ZZ Copy-V. 2.21 Disk Copier

- \_\_\_ GSUT-07A Utilities 5
- \_\_\_ GSUT-08C Utility Works GS V. 0.9.2
- \_\_\_ GSUT-09 Utilities 6
- \_\_\_ GSUT-10 Utilities 7
- \_\_\_ GSUT-11A Utility Works Launcher V. 2.2.3

**3.5" DISKS**

(SW) INDICATES SHAREWARE

**APPLE II**

**APPLE SYSTEM DISKS**

- \_\_\_ 2APS-01 System Disk - Utilities V. 3.1

**COMMUNICATIONS**

- \_\_\_ 2COM-01 TCS Instructions 1.05
- \_\_\_ 2COM-02 Applenet V. 1.3

**EDUCATION**

- \_\_\_ 2EDU-01 Newton's Apple/Cocaine & Teeth

**TECH NOTES**

- \_\_\_ 2TEN-01 IIGS-GSOS-About-Index
- \_\_\_ 2TEN-02 Iic-Iie-IMWR — etc.
- \_\_\_ 2TEN-03 FTNS-STDS-Tidbits

**UTILITIES**

- \_\_\_ 2UTL-01 New Member Disk 2.01
- \_\_\_ 2UTL-02 DB Master V.5 (ShareWare)



**5.25" DISKS**

(SW) INDICATES SHAREWARE

**APPLE II**

**APPLE SYSTEM DISKS**

- \_\_\_ APSD-01 System Disk-Utilities V. 3.1

**APPLEWORKS**

- \_\_\_ APWK-01 Desk, Printer and Money Helpers (813/814)
- \_\_\_ APWK-02 Food. Lists, etc. (815/816)
- \_\_\_ APWK-03 Reserved for Tax Templates

**COMMUNICATIONS**

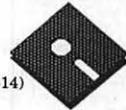
- \_\_\_ COMM-01 TCS Inst. 1.05 A & B- Disk 1 of 2 (825)
- \_\_\_ COMM-02 TCS Inst. 1.05 A & B- Disk 2 of 2 (826)
- \_\_\_ COMM-03\*\* WAPABBS.1 Documentation(121)
- \_\_\_ COMM-04 WAPABBS.1 (135/136)
- \_\_\_ COMM-05 DI COMM-(SW)(503)
- \_\_\_ COMM-06 Kermit 3.78-Kermit File Transfer (516/820)
- \_\_\_ COMM-07 CommTerm and Telecom (808/817)
- \_\_\_ COMM-08 MicroModem II (SW)-Hayes Term(116/169)

**CP/M**

- \_\_\_ CP/M-01\*\* Master Catalog (401)
- \_\_\_ CP/M-02 Utilities I and II (402/404)
- \_\_\_ CP/M-03 Communications (403/409)
- \_\_\_ CP/M-04 ZCPR2 Install and Utilities (406/408)
- \_\_\_ CP/M-05 ZCPR2 Doc. and Essential Utilities (407/410)
- \_\_\_ CP/M-06 Text Editor and Spreadsheet (411/412)
- \_\_\_ CP/M-07 MDM740 (SSC. Comm, 7710, & A-CAT)(413/414)
- \_\_\_ CP/M-08 Kermit Source and Running Code (416/418)
- \_\_\_ CP/M-09\*\* Kermit Documentation (417)
- \_\_\_ CP/M-10 Utilities (419)
- \_\_\_ CP/M-11 Small C. Compiler (420)

**EAMON ADVENTURES**

- \_\_\_ EAMN-01 Utilities II and III (220/221)
- \_\_\_ EAMN-02\* Dungeon Designer and City/Clouds(180/229)
- \_\_\_ EAMN-03 Beginners Cave (Master) & Alt (181/214)
- \_\_\_ EAMN-04\* Lair of Minotaur and Cave of the Mind (182/183)
- \_\_\_ EAMN-05\* Zephyr Riverventure and Castle/Doom(184/185)
- \_\_\_ EAMN-06\* Death Star and Devil's Tomb (186/187)
- \_\_\_ EAMN-07\* Caves of Treasure Is. and Furioso (188/189)
- \_\_\_ EAMN-08\* Magic Kingdom and Tomb of Molinair (190/191)
- \_\_\_ EAMN-09\* Lost Island and Abductor's Quarters (192/193)
- \_\_\_ EAMN-10\* Quest and Undergr City (194/195)
- \_\_\_ EAMN-11\* Merlin's and Hogarth Castle (196/197)
- \_\_\_ EAMN-12\* Deathtrap and Black Death (198/199)
- \_\_\_ EAMN-13\* Temple of Ngurct Black Mountain (200/201)
- \_\_\_ EAMN-14\* Nuclear Nightmare/Feast of Carroll (202/203)
- \_\_\_ EAMN-15\* Master's Dungeon /Crystal Mountain (204/205)
- \_\_\_ EAMN-16\* Lost Adventure and Manxome Foe(206/207)
- \_\_\_ EAMN-17\* The Gauntlet and Caverns of Langst (208/209)
- \_\_\_ EAMN-18\* Future Quest and House of Secrets (210/211)
- \_\_\_ EAMN-19\* Sewers/ Chi /Slave Pits of Kzorland(212/213)
- \_\_\_ EAMN-20\* Lifequest and Swordquest (215/216)
- \_\_\_ EAMN-21\* Priests of Xim! and Heroes Castle (217/218)
- \_\_\_ EAMN-22\* Temple of the Undead and Quest (223/224)





\_\_\_ EAMN-23\*  
 \_\_\_ EAMN-24\*  
 \*-Requires EAMN-03

**EDUCATION**

\_\_\_ EDUC-01 Education and Personal Education (76/110)  
 \_\_\_ EDUC-02 Personal Education 2 and Education 3 (131/139)  
 \_\_\_ EDUC-03 Math / Science and Education 4 (127/140)  
 \_\_\_ EDUC-04 Advanced Math and Vectors / Motio (510/513)  
 \_\_\_ EDUC-05 Albert Camus Int and Elementary Math(53/150)  
 \_\_\_ EDUC-06 French Vocab/ Tutorial (46/123)  
 \_\_\_ EDUC-07 Boot for L/Hote and L'Hote (48/49)  
 \_\_\_ EDUC-08 Tic-Tac-Toe in French /L'Hote Quiz (47/50)  
 \_\_\_ EDUC-09 French Poetry Tut and Apollinaire (51/51)  
 \_\_\_ EDUC-10 Rafel Boot Disk and Rafel (55/56)  
 \_\_\_ EDUC-11 Tic-Tac-Toe in Spanish /Rafel Quiz (54/57)  
 \_\_\_ EDUC-12 Matute and Lo Fatal (58/59)  
 \_\_\_ EDUC-13 Reading Fun (ShareWare) (505)  
 \_\_\_ EDUC-14 Language Arts Treasures  
 \_\_\_ EDUC-15 Floppy Book 1  
 \_\_\_ EDUC-16 Computation Game /AW Temp  
 \_\_\_ EDUC-17 Algebra Tutorial and Bagels Disk  
 \_\_\_ EDUC-18 Newton's Apple (Cocaine)  
 \_\_\_ EDUC-19 Newton's Apple (Teeth)  
 \_\_\_ EDUC-20 WAP Stack and Tutorial Demo

**FORTH**

\_\_\_ FRTH-01 Assembler/Disassembler /Screen Editor(700/701)  
 \_\_\_ FRTH-02 Go Forth Tutorial and Fig/Forth 78 (702/703)  
 \_\_\_ FRTH-03 Forth and Floating Point Arithmetic (704)

**GAMES**

\_\_\_ GAME-01 Games A and B (102/107)  
 \_\_\_ GAME-02 Games C and D (111/128)  
 \_\_\_ GAME-03 Games E and F (162/164)  
 \_\_\_ GAME-04 Keyboard and Paddle Games (72/74)  
 \_\_\_ GAME-05 Pinball and Arcade Games (142/157)  
 \_\_\_ GAME-06 Text Adv /Mystery House (SIERRA)(73/517)  
 \_\_\_ GAME-07 Educational Games G and H (508/509)  
 \_\_\_ GAME-08 Sports and Utilities / Games (143/160)  
 \_\_\_ GAME-09 Adventures /Game Room (811/812)  
 \_\_\_ GAME-10 Haunted House (176/810)  
 \_\_\_ GAME-11 Mostly Games /Wizard Worker I (122/161)

**LOGO**

\_\_\_ LOGO-01 Logo Tool Kit and \DocS (145/146)  
 \_\_\_ LOGO-02 Sample Disk and Dallas Apple Logo(147/158)

**MISCELLANEOUS**

\_\_\_ MISC-01 SS (Coin Collect) and Misc. (95/115)  
 \_\_\_ MISC-02 Miscellaneous (119/120)  
 \_\_\_ MISC-03 Miscellaneous and Recipe Files (125/159)  
 \_\_\_ MISC-04 Glaq and No Name Yet (129/175)  
 \_\_\_ MISC-05 Special Databases /Jim's Data Base  
 \_\_\_ MISC-06 Misc and Applesoft /AppleWriter Iie) (152/156)  
 \_\_\_ MISC-07 Astronomy Short Programs (506)  
 \_\_\_ MISC-08 Griffith and Weise Astronomy (507)  
 \_\_\_ MISC-09 Aviation - General (Disk 1 of 2) (514)  
 \_\_\_ MISC-10 Aviation - Navigation (Disk 2 of 2) (515)  
 \_\_\_ MISC-11 Gardner's Assistant (518)  
 \_\_\_ MISC-12 Music and Sights / Sounds (71/126)  
 \_\_\_ MISC-13 Merry Christmas and Happy Holidays (103/165)  
 \_\_\_ MISC-14 Graphics and Cat Graphix (108/171)  
 \_\_\_ MISC-15 Print Shop Graphics (172)  
 \_\_\_ MISC-16 Color Graphics for Fun/Science / Engi.(75/106)  
 \_\_\_ MISC-17 Plots / Graphs and Charts / Graphs (163/166)  
 \_\_\_ MISC-18 Business/Math Stat and SS (70/90)  
 \_\_\_ MISC-19 SS (Investment) and SS (Business) (91/92)  
 \_\_\_ MISC-20 Business A and B (104/113)  
 \_\_\_ MISC-21 Investments A and B (153/154)  
 \_\_\_ MISC-22 Spreadsheet A and Miscellaneous (137/155)  
 \_\_\_ MISC-23 Riley's Personal Instrumentation (173)

**PASCAL**

\_\_\_ PASC-01 AttachBios for Pascal 1.1 and Utilities (300/  
 \_\_\_ PASC-02 Crypto/Graphics and Bios/Printers (302/303)  
 \_\_\_ PASC-03 Misc. and Read/Write DOS / Printers (304/305)  
 \_\_\_ PASC-04 Cataloger and Hires Printing/Lisp (306/307)  
 \_\_\_ PASC-05 Puffin / Holiday Music -CPM-Pascal(308/309)  
 \_\_\_ PASC-06 3D Education /Drill /Hackers Stuff (310/311)  
 \_\_\_ PASC-07 Stocks/Weightwatch/Guerrilla Guide (312/313)  
 \_\_\_ PASC-08 Pascal / To & From DOS (133/314)

**PILOT**

\_\_\_ PILT-01\*\* Pilot Language (167)

**UTILITIES**

\_\_\_ UTIL-01 New Member's Disk - 2.01 A/ B (821)  
 \_\_\_ UTIL-02 New Member's Disk - 2.01 C/D (822)  
 \_\_\_ UTIL-03 Utilities A and B (100/101)  
 \_\_\_ UTIL-04 Utilities C and D (112/118)  
 \_\_\_ UTIL-05 Utilities E and F (124/132)

Caves/Mondamen & Orb of Polaris(225/226)  
 Death's Gate /Escape From Orc's Lair(227/228)

\_\_\_ UTIL-06  
 \_\_\_ UTIL-07  
 \_\_\_ UTIL-08  
 \_\_\_ UTIL-09  
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 \_\_\_ UTIL-21  
 \_\_\_ UTIL-22  
 \_\_\_ UTIL-23

Utilities G and H (138/43)  
 Utilities I and J (44/77)  
 Mach. Lang. Utilities and One-Key DOS(41/42)  
 Beg.Choice /Intermediate Utilis. (501/502)  
 Diversi Copy and Diversi DOS (45/130)  
 Additions to ProDOS and Zap Utility (804/806)  
 Utilities A (ProDOS) and File Cabinet (802/803)  
 Imageworks (174/807)  
 DOS 3.3 System Master and Tutorial (511/512)  
 Visi-Trend / Visi-Plot and Calculink (93/94)  
 AppleSoft Tutor and Picture Packer(109/117)  
 AppleWriter Utilities (168)  
 AppleSoft Programs and Love's Follies(144/170)  
 "Old" New Member's Disk (134)  
 JoyReader (ShareWare) (819)  
 Large Type JoyReader (SW) (823)  
 DB Master V. 5 - Program Disk  
 DB Master V. 5 - Sample Files /Docs

**5.25" DISKS**

(SW) INDICATES SHAREWARE

**APPLE III**

**ACCOUNTING**

\_\_\_ 3ACT-01A Easy Accounting  
 \_\_\_ 3ACT-02 Easy System and Accounts Rec.  
 \_\_\_ 3ACT-03 Easy System and A/Cn. Ledger

**III 3E2P & AW TEMPLATES**

\_\_\_ 3AWZ-01 AW - E2P Bus Templates (1060)  
 \_\_\_ 3AWZ-02 Checkbook Plus by Lomartire  
 \_\_\_ 3AWZ-03 Accounting/Finance Templates  
 \_\_\_ 3AWZ-04 Mortgage Templates  
 \_\_\_ 3AWZ-05 Checkbook Templates

**III BUSINESS BASIC**

\_\_\_ 3BSB-01 Pohlman Disk 01 (1017)  
 \_\_\_ 3BSB-02 Pohlman Disk 02 (1018)  
 \_\_\_ 3BSB-03 Pohlman Disk 03 (1019)  
 \_\_\_ 3BSB-04 Pohlman Disk 04 (1020)  
 \_\_\_ 3BSB-05 Pohlman Disk 05 (1021)  
 \_\_\_ 3BSB-06 PPT Demo / BASIC Helps (1098)  
 \_\_\_ 3BSB-07 BASIC 1.23 & Utilities / Auto Basic by Boston  
 Best of OnThree-Basic Programs

**III GAMES**

\_\_\_ 3GAM-01 Games 01 (1001)  
 \_\_\_ 3GAM-02 Games for Kids (1007)  
 \_\_\_ 3GAM-03 Cap'n Magneto-Revised 1/89 (1041)  
 \_\_\_ 3GAM-04 Games 02  
 \_\_\_ 3GAM-05 Star Trek

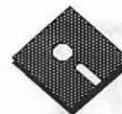
**III GRAPHICS**

\_\_\_ 3GRX-01 Sketchpad and Slideshow (1012)  
 \_\_\_ 3GRX-02 Fig Factory Manual (1069)  
 \_\_\_ 3GRX-03 Fig Factory - Black and White (1070)  
 \_\_\_ 3GRX-04 Fig Factory - Color (1071)  
 \_\_\_ 3GRX-05 Raster Graphics Tool Kit (1072)  
 \_\_\_ 3GRX-06 3-D Modeling Tool Kit (1073)  
 \_\_\_ 3GRX-07 Chartmaker III (1074)  
 \_\_\_ 3GRX-08 Graphics Utilities (1075)  
 \_\_\_ 3GRX-09 Graphics Disk 01 (1062)  
 \_\_\_ 3GRX-10 Graphics Disk 02 (1076)  
 \_\_\_ 3GRX-11 Graphics Disk 03 (1077)  
 \_\_\_ 3GRX-12 Graphics Disk 04 (1078)  
 \_\_\_ 3GRX-13 Graphics Disk 05 (1079)  
 \_\_\_ 3GRX-14 Graphics Disk 06 (1080)  
 \_\_\_ 3GRX-15 Calendar by Bloom (1081)  
 \_\_\_ 3GRX-16 Typewriter Art Disk 01 (1082)  
 \_\_\_ 3GRX-17 Typewriter Art Disk 02 (1083)  
 \_\_\_ 3GRX-18 Poster by Bloom (1084)  
 \_\_\_ 3GRX-19 Raster Demo / Tmapio  
 \_\_\_ 3GRX-20 Icon Demo / Tfont  
 \_\_\_ 3GRX-21 Trixelmap Demo / Mask Demo  
 \_\_\_ 3GRX-22 Tmem Demo / Treets Demo  
 \_\_\_ 3GRX-23 GIF Graphics 01  
 \_\_\_ 3GRX-24 GIF Graphics 02  
 \_\_\_ 3GRX-25 GIF Graphics 03  
 \_\_\_ 3GRX-26 GIF Graphics 04  
 \_\_\_ 3GRX-27 Grafixworks 1 and 2 (SW)  
 \_\_\_ 3GRX-28 Grafixworks 3 and 4 (SW)  
 \_\_\_ 3GRX-29 Sign by Bloom  
 \_\_\_ 3GRX-30 Scanned Graphics #1  
 \_\_\_ 3GRX-31 FOTOView by Lomartine  
 \_\_\_ 3GRX-32 A2/A3 Graphics

**III INFORMATION**

\_\_\_ 3INF-01A WAP /// SIG PD Catalog-7/1/90 (1000)  
 \_\_\_ 3INF-02B New Member's Disk-7/8/90 (1005)  
 \_\_\_ 3INF-03 Best of MAUG Side One (1008)  
 \_\_\_ 3INF-04 Best of The Source (1A) (1009)





- \_\_\_ 3INF-05 Best of TAU (1A) (1010)
- \_\_\_ 3INF-06 Best of ATUNC (1A) (1055)
- \_\_\_ 3INF-07 Best of III's Company - 01(1A) (1015)
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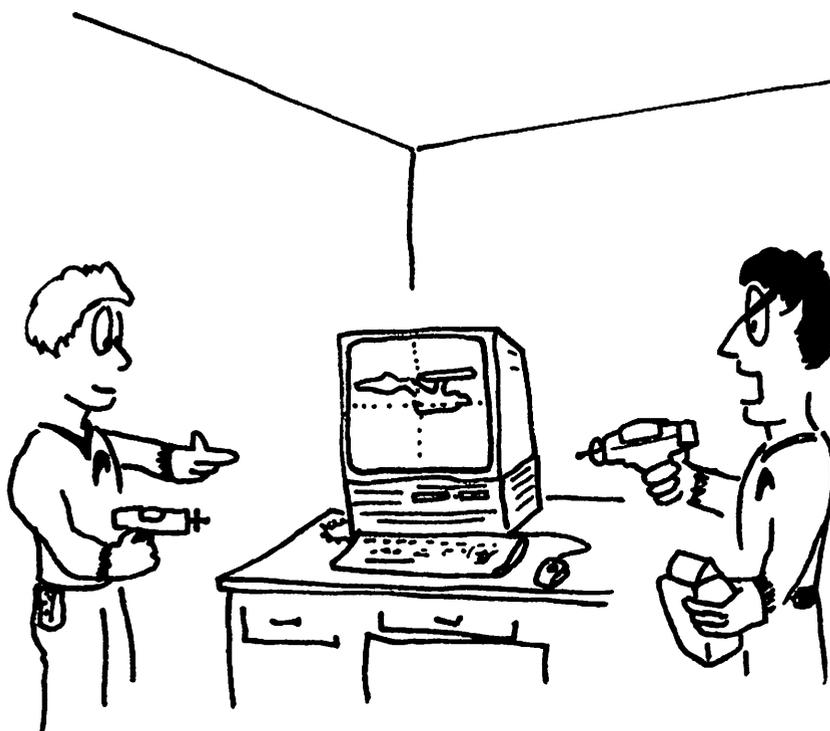
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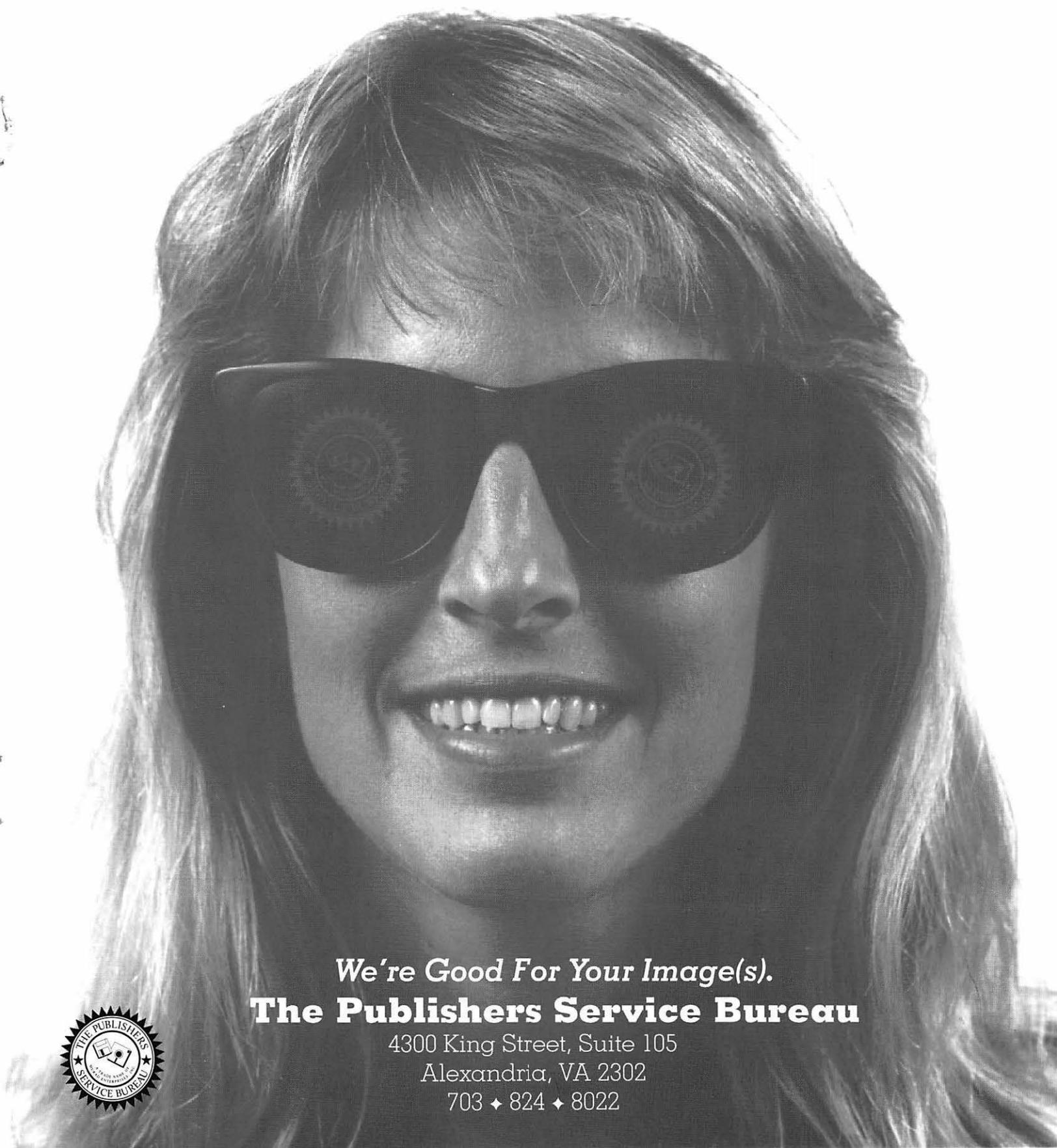
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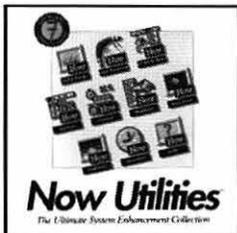
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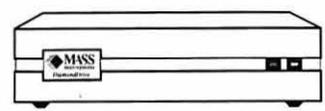
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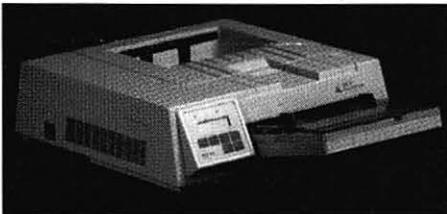


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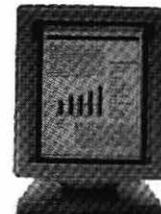
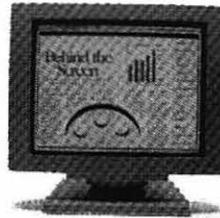
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