

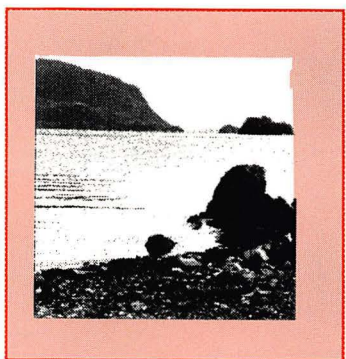
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The Journal of Washington Apple Pi, Ltd.

Volume 13, Number 7

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# What's happening...

## June's mystery

Discriminating readers may well wonder what was going on with the June issue. Discriminating editors are wondering the same thing. If you would like to join us in the wondering mode, drag out last month's Journal and check the Tutorial or Classified pages—75 and 82. Look in vain for the number 5. You won't find it.

The really odd thing about all this is the the problem appears to be non-replicable. The 5s show up on the screen just fine, and they print out okay—some of the time. But not in the final pages of the copy that went to the printer last month. Everything is fine, except that a tidy little blank showed up on the page where a 5 appeared on the screen.

"Well," we thought to ourselves, "this is obviously a peculiar quirk of the Minion font," and we prepared to send urgent inquiries to Adobe, asking if they had ever had anyone check in with this problem. And then we realized that it was not font-specific; that the Classified section is printed in Helvetica Condensed, which has been around for a long time and ought to know better.

We're still baffled, but at least you know that we are mulling about this strange behavior of the system and lie awake nights thinking about it. For at least thirty seconds, which approximately doubles the time of awakesness from the time our

editorial head hits the pillow. But we are on the alert.

If you happen to see a bunch of 5s sitting around with nothing to do, kicking tires and engaged in desultory conversation, tell them to get back on the job, please.

## System 7

System 7.0, with its quirks and unexpected pleasures, continues to occupy much of the attention of the Macintosh community. This issue of the Journal is being created on a Macintosh running on System 7, which represents either a gigantic leap of faith on the part of the editor, or a death-wish. The Journal last month, this month, and no doubt in several months to come, will carry articles about Apple's latest innovations in charm and inconvenience.

Generally speaking, the word we are picking up on the street is that System 7.0 is at least as solid as any of the System 6.0x operating systems, and that most people will have few if any problems in switching to it. The major constraint appears to be that it does require at least 2MB of Random Access Memory, and that there appear to be a few programs that are absolutely not compatible with it. So if you are contemplating a switch, and absolutely require one or more programs, you will want to check before leaping off into the unknown.

On the other hand, unless you are heavy users of one of the few

programs that is actively allergic to System 7.0, or unless you lack the memory to make it work, and are unwilling to obtain additional memory for your Macintosh, it may not be all that important to wait for System 7.02, which might be a long time in coming.

And then of course it may show up next week. What do we know, after all???

## Kind of late-breaking news

For those of you who have been thinking about getting a low-cost PostScript laser printer, but want something a little more substantial than the Apple StyleWriter but more productive than the Personal LaserWriter, there may be help on the way.

MacWeek has just reviewed, and has given rave notices to, a new kid on the block: the GCC BLP Elite, listing at \$1600—well, actually \$1,599, but we are all too market-aware to be fooled by a dollar off, aren't we? The printer has a bunch of features that make it VERY interesting, including a toner-recycling system, edge-to-edge printing (something that the more expensive laser printers have yet to manage), laser cartridges that cost perhaps 25% of the Canon ones used in the LaserWriter Plus and IINT. It even prints envelopes.

We haven't seen this printer, we hasten to add; but on the basis of what we have seen in MacWeek, we would certainly want to look carefully at the GCC printer if we were in the market.

Just thought you might like to know. If you are interested, drop GCC a line at 580 Winter Street, Waltham, MA 02154 or call them. They have an 800 number for orders: 422-7777.

Sounds like a winner.

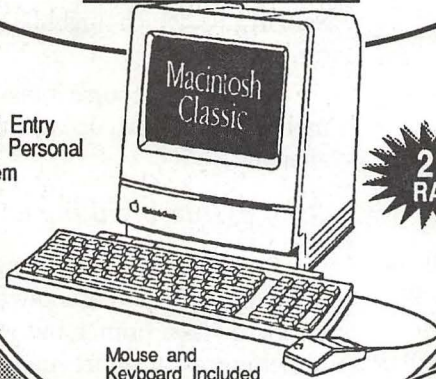
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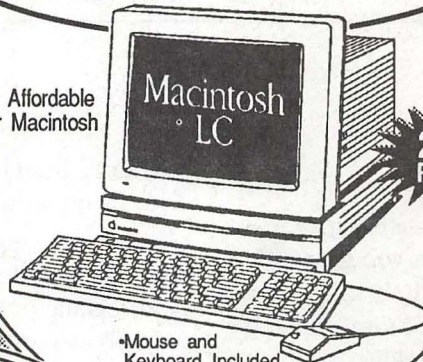
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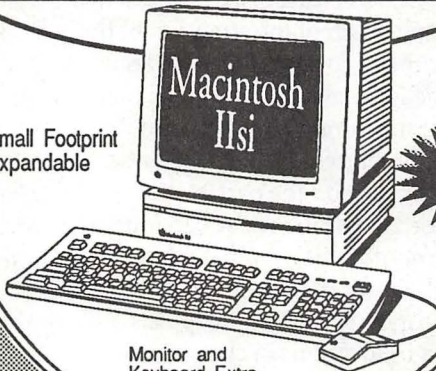
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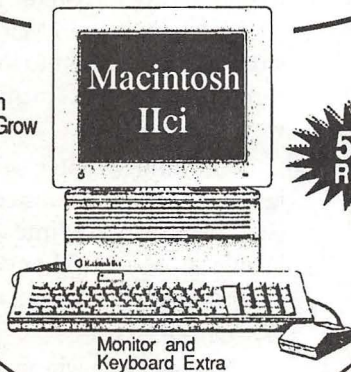
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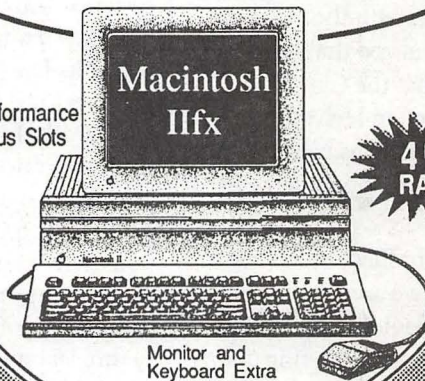
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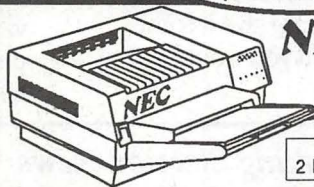
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What's new

# Office News

by Nancy Pochecko

## DID YOU EVER WONDER...

... how all the services offered by WAP are provided? Volunteers, people just like you who give their time and talents to the other members. For example, Dave Weikert and his crew of duplicators use their own equipment to duplicate approximately 500 disks each month. In the last 2 weeks, since the release of System 7.0 for the Macintosh, Dave has personally duplicated over 1000 disks so they would be available for you to

purchase. Similarly, John Ruffatto, does the same job on the Apple II side, taking care of duplication of both 3.25" and 5.25" disks.

Sounds like a lot of work? Well, it is, and they could use your help. John could use some help with the Apple II 5.25" library. We need to expand our Apple II offerings, and John has his hands full already. There are many ways in which you could lend your support to other members. Please give it some thought, and if you would like to

participate, please call the office at (301) 654-8060.

## HAULER NEEDED

Some of you may have noticed each month at the General Meetings that we bring equipment and supplies with us to the meeting. We are looking for someone to take over that job. It pays \$50 per meeting. The requirements are to pack up the materials on Friday evening or Saturday morning, drive them to the meeting site by 8:00 AM, then bring the materials to the meeting room (set up is usually done by the meeting chairperson). At around 11:30 AM, the materials are dismantled and repacked for transport back to the office. First-hand experience has led me to the conclusion that it requires at least a mid-size car, but a station wagon or van work best. If you are interested, please call the office at (301) 654-8060.

## Late-Breaking Election News

Ballots were mailed out to all members for the 1991 elections. Unfortunately, Murphy's law hit us squarely in the process, and we ran into problems. A challenge was presented to the Board, and the challenge was upheld. Accordingly, the ballot materials that were sent to you should be disregarded. An entirely new package will be mailed to all members by FirstClass mail as soon as it can be printed.

To conform this process (which has never happened before, and which the Board profoundly hopes will never recur) to our existing Bylaws, the Board adopted the following amendments :

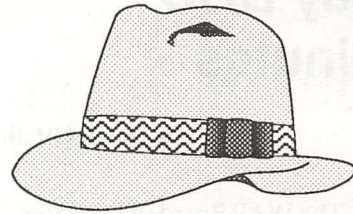
Additions are noted by the dotted underline. Deletions are noted by the ~~strike thru~~.

**SECTION 3. BALLOTING.** An election shall be completed during the month of June, 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 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. [Amended June 1984, August 1989 and July 1991.]

**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 to the membership ~~prior to July 1 of each year~~ 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. Only members in good standing the day before the June Regular Membership Meeting are eligible to vote in any runoff election. [Amended April 1984, August 1989 and July 1991.] For additional changes to the bylaws, please turn to page 77



# President's Lair



by Eric Rall

## System 7 Released

Washington Apple Pi was one of six user groups in the US to which Apple chose to demonstrate System 7.0. We had about 400-500 anxious spectators come to the University of Maryland and see a dozen representatives from Cupertino dazzle us with the wonders of System 7. Apple brought two full-screen color projectors to demonstrate some of the networking capabilities of System 7.0 in real time. If you didn't make it, too bad—you really missed a show. Business was brisk for our disk sales.

Our diligent disk duplicators [Ed.—Eric is big on alliteration this month] worked overtime to put together 60 nine-disk sets of System 7 for sale. We sold every one of them.!

## Thanks

I want to extend a personal note of thanks to Nancy Seferian. Nancy isn't running for any offices, so I'm free to thank her for all of the wonderful work that she has done for us. Nancy is the individual responsible for those wonderful maps and advertisements that have been appearing in the journal detailing the location and timing of

some of our meetings. Specifically the full page System 7.0 announcement and map to the University of Maryland, the MacWorld volunteer ads, the garage sale maps, the TCS map and she even did the page layout for the ballots. Nancy does this thing for a living, but has given all of this to the Pi for free. I don't know where she finds all the time to give us, but I'm certainly glad she does.

## Annual Report

May marks the end of our fiscal year. Next month I will issue the annual report for WAP. I'm pleased with what we have accomplished this year. I hope you will be, too.



## Executive Presentations

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## May BOD Minutes

by David Ottalini

The WAP Board of Directors met on May 9, 1991

Officers and Directors present included Eric Rall, Bob Shaffer, David Wood, Ed Myerson, Dave Ottalini, Dave Harvey, Bill Campbell, Dave Weikert, Bernie Urban, Mary Hockmeyer, Tom Vier (Telephone), Lee Raesly, Manny DeVera.

Members and guests included Dale Smith, Nancy Seferian, Nancy Pochevko, Bill Wydro, Lou Pastura, Priscilla Myerson, Chase Ridgeley, Charles Froehlich, Jon Thomason.

The Board:

\* Voted to solicit bids for accounting firms to handle the 1990 WAP tax returns.

\* Voted to consolidate all WAP accounts into Montgomery National Bank contingent on a check to see if the bank is on the "watch list."

\* Voted to approve the Election Rules for the 1991 WAP BOD election.

\* Voted to censure BOD member Lee Raesly on allegations he made sexually harrasing comments to a member of the Pi.

\* Voted for a resolution offered by Lee Raesly stating Washington Apple Pi is against "sexual, physical or other harassment of any member and will not condone or allow such behavior. Any complaint of such harassment will be immediately investigated and appropriate action taken by the Board of Directors."

\* Approved a new six month Trial Membership program.

\* Discussed a budget timetable for the 1991-92 FY WAP Budget.

\* Heard an update on the June 8th WAP Open House.

\* Voted to invite SIGS and Slices, on a rotating basis, to make brief presentations to the BOD during regular meetings.

\* Voted on a change in a TCS proposal to upgrade four 9600 baud modems.

\* Heard an update on the WAP Mentor program.

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## Review Update

Lou Pastura

The packages described below are available for review. If you're interested, call the office. You'll need to leave your name, address, home phone and work phone. More importantly, you'll need to promise on all that's important in your life to complete the review within 60 days.

### Salary Magic

From Magic Software. "...a powerful tool designed to ease the process of negotiation and labor costing. By using efficient data entry and integration and the number crunching capability of your computer, Salary Magic can provide quick answers to lengthy problems."

### Meeting Maker

From ON Technology. A "desk accessory that lets you plan a meeting, choose a meeting time, and let people know about it, all without leaving your desk.

Meeting Maker's Daily Calendar and Monthly Calendar make it easy for you to see when other people, meeting rooms, and equipment are available for meetings."

Works on a network. Lets one individual or members of a group see when others are busy, schedule individual/multiple appointments,

etc.. The package we have is a demo with a 60-day time limit.

### For the Record

From Nolo Press. "...an efficient way to keep track of your personal, financial and legal records. For the Record's 27 categories and over 225 sub-categories organize all the important information in your family's life into a simple, yet thorough data base."

Examples of some of the things you can track: securities, investments, deeds, tax records, credit card data (records, numbers and lost card information), medical information and history, insurance records, location and value of collectibles and other possessions, personal and family information and history.

### TouchBASE

From After Hours Software. "...a data base to keep track of personal and business contacts. "

A very powerful package with lots of features.

### And Now, the Bad News

On a different, more unpleasant topic, last month I published a "reminder" to those of you who have had review software beyond the 60 day limit—some of you for as long as 9 or 10 months. I've discussed this with Frank and I've decided that we are going to start to publish the names of members with grossly overdue reviews in the Journal. Please remember, if you don't want to do the review, you can return the package to the office and we'll reassign it. If you're overdue and you don't want to be on next month's "wanted list" please contact me at (703)560-1477.



## Apple IIgs SIG

by Paul Tarantino

One of the really neat things about getting a new toy is the chance to show it off to your envious friends. At our May meeting at NIH in Bethesda, our Maximum Leader Gary Hayman had an excellent opportunity to cultivate envy among his fellow SIG members as he demonstrated the capabilities of his familiar IIgs system, festooned as always with Post-It tapes full of reminders and Handy Hints, but augmented for the first time with a brand new 105 megabyte hard drive from TMS peripherals.

This is one of an extensive line of external SCSI drives now being marketed by TMS (there is a large ad in the June issue of *A+InCider*) for Macintosh and Apple II users; the Pro 105 model uses a Quantum Pro drive mechanism with a very fast 11 msec access time, and has a cache capability to further speed up disk operations. TMS sells this drive direct by mail order for \$499, and also offers a 52 M version for \$349. They will also bundle their drives with either Apple's DMA SCSI card or the faster and more costly (about \$70 more) RamFAST card from CV Technologies. Good prices and apparently very good value!

Since Gary's system is now also equipped with the RamFAST SCSI card and a Zip GS 8-Mhz accelerator, it really hums right along. He dazzled us by booting up Classic AppleWorks (plus all SIXTY-SIX of his TimeOut AppleWorks accessories) in about eight seconds. With only six TimeOut mods attached, AppleWorks loaded in just four seconds (disconnecting the Zip accelerator, this same load took six seconds, still awfully quick!)

For readers who like to compare system performance with standard benchmark tests, Gary ran

the ProSel 16 tests (select the "Statistics" option under Volume Repair) and got a linear read of 3.36 msec, random read 17.37 and OS overhead 0.68, with the accelerator operating. When I tested a RamFAST for a February, 1991 article with my 80-M (28 msec) CAI drive and an unaccelerated Woz IIgs, I got, in the same order, results of 4.53, 22.63 and 1.60 msec. If you have ProSel 16 and a hard drive, try these tests and see how your system measures up!

Turning to club business, Gary reported the submission of a proposed \$250 SIG budget to the office for consideration by the BOD, and we discussed the SIG's participation in the Pi's June open house, which will be history by the time you read this. We also learned that the SIG's June meeting (on the 24th at Dolley Madison Library in McLean) will be a combined event with members of NovApple, and will feature new product demonstrations by Joe Charest of Broderbund. Other surprises and maybe some giveaways are also rumored. Meetings further in the future should include presentations on IIgs music software and telecommunications. As always, volunteers are being sought to provide computers and/or presentations for our meetings.

Several Handy Hints came out of the Q&A session which followed Gary's hardware demo. Bill Wydro reported an inability to run SoundSmith 0.94 on his system; it would hang up during the boot-up process. It was suggested that he check to ensure that system tools 29 and 32 were installed in his system folder; SoundSmith requires them both, and they are not automatically installed when you use the Installer to upgrade to system 5.0.4. (Postscript: Bill reported on the TCS the next morning that this Handy Hint did the trick! Another satisfied SIG customer!)

Handy Hint #2, for ProSel users: before doing a backup of a hard drive, do a Test Directory Structure and correct any problems that are encountered. If the directory structure is damaged, ProSel may STOP in the middle of a backup, leaving you with a difficult and tedious recovery. (This is also a reason to use TWO alternating sets of disks for hard drive backups.)

Handy Hint #3, from Gary, was a suggestion to use gummed file folder tabs to identify 3.5" disks, making them easier to find in a drawer or in the drive mechanism (the tab will protrude from the drive without interfering with its operation).

Handy Hint #4 (is this some kind of a record?) reminds us that Apple-W is often faster than a mouse click at closing windows on the Finder desktop, especially when closing several windows at once. The Close All option under the File menu may be quicker yet!

With the editor's indulgence [*it's yours-ed*], I would like to close this article with a personal note of thanks from my family to our friends in the SIG for their support and kindness following the recent loss of our daughter, and for their generous donation to the memorial fund set up in her name.

## EdSIG

by Phil Shapiro

In response to popular demand, the May EdSIG meeting was held in Northern Virginia, at Ron and Karen Evry's house.

Karen uses computers in her class of fifth-grade students, and Ron does professional software development, among other things.

\*In attendance were EdSIG stalwart Lorin Evans, super-mom Marian Drohan, newcomer Joe Rickerson, and Marian's teacher friend Kitty Burlington. Slated for



the evening was a presentation of Scholastic's Super Story Tree, a HyperText program that runs on any of the 128K Apple II's (Apple IIe, IIc, IIGS, and IIc+).

\*Ron explained that the Super Story Tree toolkit combines the features of two other Scholastic titles: Slide Shop and Story Tree. Clip-art graphics and sounds from either of these two programs can be imported into Super Story Tree stacks.

\*The idea behind Super Story Tree is that you can create your own interactive presentations — featuring text, graphics, and sound. The sound selections in the program are rather amusing, ranging from musical ditties to comical sound effects. You can also choose from several different screen wipes, to provide transitions from one screen to another.

\*Ron proceeded to show us several of the Super Story Tree stacks he's made, explaining how he was able to import different sorts of graphics. With a little creativity, imported graphics can be altered to suit your own particular purposes. And the toolkit has a drawing program (which uses a joystick, keyboard, or mouse), for the creation of original artwork.

\*The neat thing about Super Story Tree is that you can create self-running disks that may be freely copied. This can be helpful to a teacher who's working with a lab of fifteen or twenty Apple II's.

\*We ended up the evening discussing how students might use Super Story Tree to create presentations of their own. Such a project could give students a real-life experience in the process of designing and implementing their ideas. Yet it would be difficult to create such a stack if the students worked on it just once a week. Stack development can be time-consuming.

\*The June EdSIG meeting will take place on Thursday, June 27, at

the Pi office in Bethesda. The July meeting will take place at Michael Karpman's house in Mount Rainier, Maryland. Michael teaches math and computers at the Capitol Hill Day School, and will be showing us his favorite software on his Apple IIGS. If you'd like to join us for that meeting, please let Michael know in advance. His home phone is: (301) 277-2539.

\*If you'd like to add your name to the growing EdSIG phone directory, you can reach me at (202) 686-5465 (home/office).

The phone directory is used to help people stay in touch between our regular meetings.

## GameSIG

by Steven Payne

Hopelessly late again, yours truly is finally reporting on the May 2 meeting of GameSIG, our regular monthly convocation. The sad news is that, after only a brief tenure, David Romerstein has had to retire from co-chairmanship for the Mac games. (His partner, David Hakim, claims to have heard from him, but we all suspect a "coup de SIG")

The good news is that we are already beginning to plan for our annual GameSIG extravaganza at the August WAP main meeting; we started compiling our list of companies to contact.

Dave Hakim, now chairman sole, provided demonstrations of several new Mac shareware games from Soft Dorothy Software, with a little help from his friends. In *Glider + 3.0*, you guide a paper airplane past tables, cats, whirlygigs, electric switches, etc. through a series of rooms. *ParArena 1.1* is like Rollerball on skateboards, around the concave surface of a dish-shaped playing field. *Glypha II 0.9* is a jousting game, on the back of

ostriches. Unfortunately, we were unable to look at *Diamonds* (an Arkanoid-style arcade game without paddles, which only runs on a color Mac) and *Orb Maze 1.0b2*. But we hope to have reviews of most of these shareware games before long.

In the "games people play" department, members admitted to current involvements with *The Immortal* (GS), *Secret of Monkey Island*, *Test Drive II* (European Scenery Disk), *Harpoon*, and of course the ever popular *Unix* system! There was a lengthy discussion of *Risk*, in both its board and computerized incarnations. Jeff Stetekluh won the customary *Robot Tanks* tournament. Members then retired to the local Shakey's for pizza.

Finally, you will notice in this issue that we are beginning to review MS-DOS games, on the theory that GameSIG should be interested in the *entire* field of entertainment software (not just the ever-narrowing field of Apple-specific games), and that most of these games can now be played on one of our favorite machines from Cupertino (using *SoftPC* or similar software and hardware extras). We hope this will be perceived as realism and diversification, not as "selling out." But come to the meetings, on the first Thursday of the month, and express your own views!



# System 7: The Restaurant at the End of the Universe

by Eric Rall

## May 13, 1991 System 7.0 Released

I suppose that by now many of you have already taken the plunge into System 7.0. If you already have successfully installed System 7.0, then you can skip to the section about fonts. If you haven't installed System 7.0, it isn't as painful as you might expect. It just takes a considerable amount of time and effort.

For those who haven't installed System 7.0 yet, let me explain. If you have an 80MB hard drive, plan on devoting a full evening or afternoon to install and adjust things for System 7.0. Much of that time can be shortened by proper planning and some real strategy, but it will still take time.

### Think First

I know I shouldn't have to even mention this, but the absolute first thing you need to do is make a complete backup of your hard disk. This step is not optional. Installing System 7.0 is not quite the same as, say, upgrading from 6.0.4 to 6.0.5. This is a major change. The risks involved with something going bump and crash are high. So, for goodness sake, make a backup!

You would be wise to copy your backup utility to a System 6 startup disk. Not all backup programs are System 7.0-compatible, so you may need a System 6 startup disk for recovery.

In the nine disk set that comes with System 7.0 is a disk named "Before You Install System 7.0". There is the usual Read Me file. (I've often thought that the "Read Me" file is required to be on all software disks by law. It's always there.) There's also a "Late Breaking News" file to read. Go ahead and read them. Neither is long or terribly boring.

There are also two HyperCard Stacks on the disk. The first one is named "Before You Install System 7.0". Apple really feels strongly that you go through that stack before you install System 7.0. I suppose I should reinforce their opinion on this subject. Of course, I will admit that I have yet to make it through the entire stack. I did read all of the hard copy documentation. I even think I learned something from reading it. If you bought the System 7.0 software from WAP or downloaded it from a bulletin board, you would probably be wise to go through this stack in detail. If you have the full docs, you may want to read them instead.

### Compatibility Checker 1.0

The other stack is Apple's "Compatibility Checker 1.0" (from now on, I'll call it CC). This stack will probably cause you much more concern than is warranted, but you really should run it prior to attempting to install System 7.0. CC does two things. First it will check all of the applications on your hard drive and compare them to a list of

applications that Apple thinks is either comparable, mostly compatible or incompatible with System 7.0. Be warned that this list is not complete, nor is it entirely accurate. I have run successfully applications that CC says are incompatible. So use it as a guide. If you see an incredibly long list of incompatible software and start figuring on \$15-\$50 to upgrade each application, you may very well decide that System 7.0 is not for you.

The other useful thing that CC does is to offer to put all of your INITs into a separate folder. The System 7.0 installer won't automatically move your INITs. If you have them set aside by CC, you can manually try each INIT to see if they work with System 7.0, after the installation is complete.

### Installing System 7.0

You can now go ahead and follow Apple's recommendations and install System 7.0. If you do it Apple's way, you should be aware that you will need to have free space on your hard drive at least equal to the size of your current system folder. The System 7.0 installer does not install on top of your current System like the older installers did. The System 7.0 installer creates a new System folder and copies items from your old system folder to the System 7.0 system folder. It then deletes the old system folder.

### Or You Can Do It MY WAY

Before you try it MY WAY, I must point out that neither Washington Apple PI nor myself will assume any liability if things go wrong. Of course if you try it Apple's way, they don't offer you any assurances either, so it becomes a personal risk situation either way.

I developed my own procedure for installation because of a number of reasons. First, over the years, I

Please see page 72





# Artists on exhibit

by Nancy Seferian

*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:** Our guest artist this month is Pam Tobey. Pam is a Macintosh artist for the Washington Post and you have probably seen many of her pieces. She started out as a reporter for a small paper in Beaumont, Texas, and became involved in illustrating as the other reporters asked her to add illustrations to their stories. When she made plans to move to the Washington, DC area with her husband, her boss told her about an opening on the Washington Post. She interviewed and got the job.

**Tools:** Mac II, WhiteKnight Communications Software, CricketGraph, DeltaGraph, Freehand 2.01, MacDraw II, Quark Xpress, Microtech Scanner, PhotoShop, and Verityper Printer. **Fonts used:** C Franklin Gothic Condensed and News Gothic.

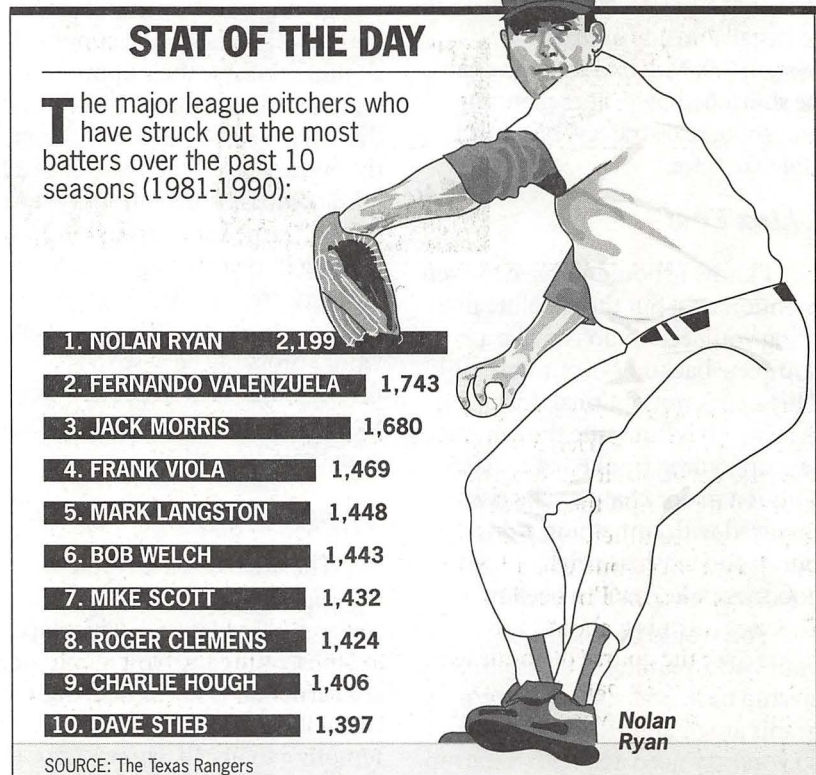
**Setup at the Post:** "The writers send us the list of stats from the other (IBM) computer system using the WhiteKnight Communications Software to make the transfer via modem to the Mac. We plug the information directly into Freehand or MacDraw II. We have a net modem so all the computers can share one modem and White Knight operates on that.

"We're using Tops for networking between computers right now, but we're going to be getting Ether Net soon which will connect the whole building. We will have a linotronic printer called a Pell Box that everyone will have access to which will print at 1200 dpi."

**Procedures:** "The artists are given a photo or some reference for the statistics, and then we can do anything we want to create the illustration, although each piece has to conform to a given size. For the statistical pieces we have a choice of doing a bar chart or a table. We have a dedicated Mac just for storage that we use to archive all the charts so that everyone can find something if it has to be changed late at night and no one is here. I have my own separate art folder and then we also have a big one on a Bernouli disk. We organize this art the same way we did when we had actual file folders, by category:

Agriculture, Government, Politics, Science, etc. We save the art in a daily file in the Bernie, the nickname for the computer that holds the archives.

"We have a graphics coordinator for the national and foreign desk. He handles gathering the information and getting it to us, and making sure it's assigned. He coordinates sizes. We also have a poll person who handles the data from the polling firms. The artists make decisions about the layout depending on several things—one of them is the amount of space we have to work with.



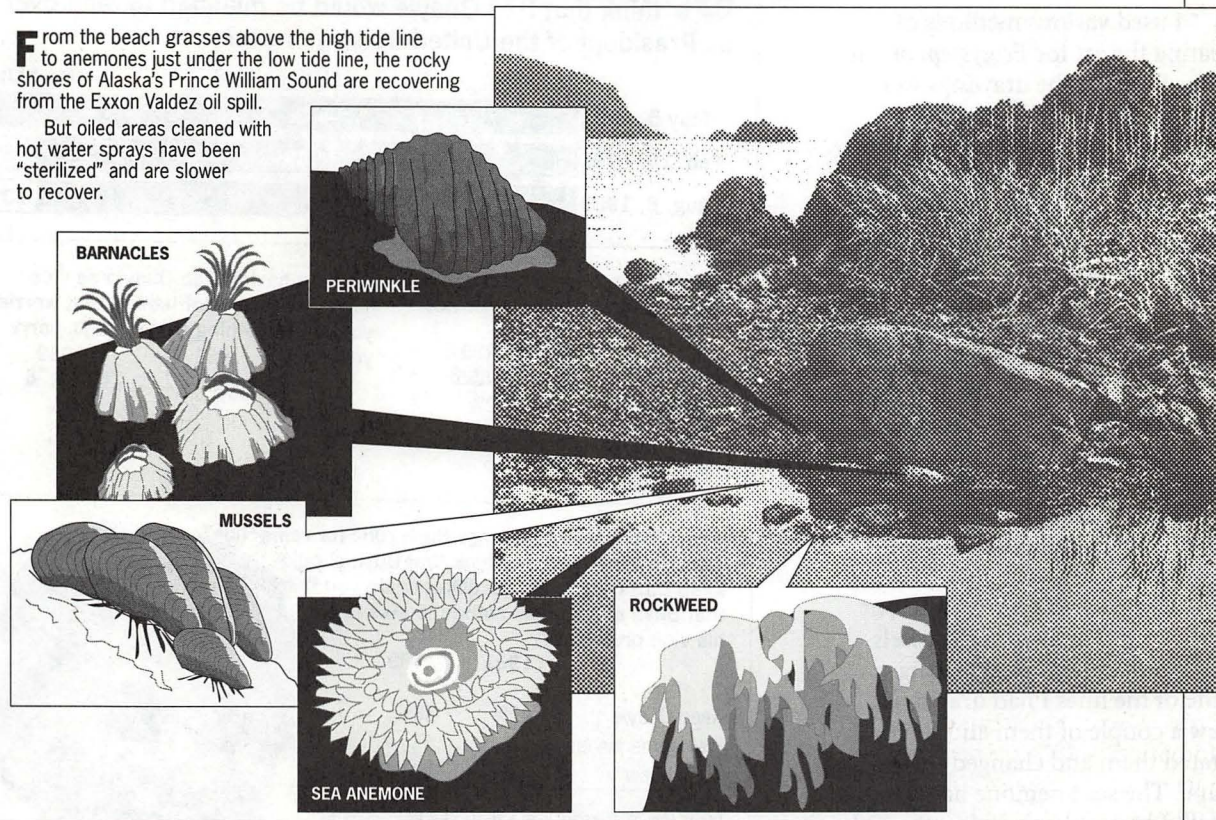
Nolan Ryan Stats



## AN ECOSYSTEM ON THE ROCKS

From the beach grasses above the high tide line to anemones just under the low tide line, the rocky shores of Alaska's Prince William Sound are recovering from the Exxon Valdez oil spill.

But oiled areas cleaned with hot water sprays have been "sterilized" and are slower to recover.



### *Ecosystem on the Rocks*

"Nolan Ryan Stats was done in Freehand 2.01. I've tried 3.0 and like having the ability to drag the layers to reposition them with respect to each other, but for right now I use the old one when I'm on a deadline because I'm used to it. This drawing took about four hours over the course of about two days. The hardest part was the face. I redid the mouth twice before it looked right.

"I created this illustration piece by piece. I started with the fore-

arms to make the outline. I added some of the basic shadows, filled the outline and then went in and added more shadows. I tried to make the shadows overlap. Next I worked on the sleeve of his jersey, and layered the shirt over that.

"I worked in layers from layer 50 to 100, putting the basic photo on layer 50 and building up from there. I organized it initially by putting one layer in the middle so some parts of the illustration could go behind it and some on top of it.

"We use Cricket Graph and Delta Graph to create and customize graphs from statistical data. I like Delta Graph. You just put the stats in and you can label them or not. You just click on the appropriate icon to determine what kind of chart will be displayed. It's a little more complicated and has more features than Cricket Graph. You can plot it in different windows. Its all together in one package. Then it can be exported as a Pict or an .eps graphic. If you plot the graph on its



side it reverses, so I did the graph for Nolan Ryan vertically and then rotated it so the bars would stay in order, copied it, and pasted it in Freehand.

"I used various methods of creating the art for *Ecosystem on the Rocks*. Some of the drawings were from my own sketches, which I scanned and pasted into Freehand to work on there. For one of them I used a piece of line art for reference. The shell and the anemone were based on photographs. For the barnacles I did the outline first, and then the little division lines for the ridges. I added the little shadows to it afterwards. It was difficult trying to get the edges to match on the outline. I did the outline, leaving it unfilled. Then I drew the mouth area in the middle, and filled everything in, finally going back and adding the shading and the water. Everything was on different layers. I just sketched the mussels and scanned them in, retracing some of the lines I had drawn. I drew a couple of them and then rotated them and changed their shape. The sea anemone had a lot of detail. I had a photo of the seaweed to use for reference which I just propped up and looked at. My main tool for the barnacles was the curve tool.

"*Quayle Poll* began as a color photograph that I scanned with a black and white MicroTech Scanner. I lightened it a lot, and saved it as a TIFF. I cropped it to save space. It was originally 1000K. I used several different programs: PhotoShop, DeltaGraph, Freehand and Quark. I did the bar chart in Freehand and exported it as an .eps graphic, placed it in Quark and imported the photo from PhotoShop. The Quayle photo was seven inches long and the space allocated for it was five inches. I had

to lighten the photo and then dump it into Quark with a command called Paste Inside. The photo is behind a frame that defines the size to be seen and you can click on the photo and move it around to get the best composition inside the frame. The borders of the box are where the photo stops. The chart is from a previous stat."

## WASHINGTON POST-ABC NEWS POLL

**Q.** If something were to happen to President Bush, do you think that Dan Quayle would be qualified to take over as President of the United States, or not?

	Qualified	Not qualified	Don't know
May 5, 1991	40%	57%	3%
Feb. 26, 1991	43%	49%	8%
Aug. 8, 1989	38%	52%	10%

**Q.** Is Dan Quayle qualified to be vice president, or not?

	1991 May 5	1989 Aug. 8
Qualified	52%	52%
Not qualified	43	33
Don't know	5	15

**Q.** Is having Dan Quayle as vice president something that worries you, or something that doesn't worry you?

	1991 May 5	1989 Feb. 26	1989 Aug. 8
Does	37%	29%	31%
Doesn't	61	69	63
Don't know	2	2	6

**Q.** Suppose that George Bush runs for reelection in 1992. Do you think that Bush should keep Dan Quayle on the ticket or do you think that Bush should pick someone else to be his vice president?

	1991	1989
Keep Quayle	42%	38%
Pick someone else	54	43
Don't know	4	19

NOTE: May 5 figures are from a Washington Post-ABC News nationwide telephone poll of 505 randomly selected adults. The sample for the Feb. 26 poll was 1,004, for Aug. 8 it was 1,022. Margin of sampling error is plus or minus 5 percentage points for the May poll and plus or minus 3.5 percentage points for the other two polls. Sampling error is, however, only one of many potential sources of error in these or any public opinion polls. Interviewing was conducted by ICR Survey Research of Media, Pa., and Chilton Research of Radnor, Pa.



*Quayle Poll*



# The WAP Journal Authors' Guide

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Welcome to the Washington Apple Pi Journal. If you're reading this, it's probably because you're interested in submitting an article to the Journal, and for that you have our thanks.

This Guide builds on work done earlier by Tom Piwowar, Peter Cook and others. For their assistance, we are grateful; any mistakes we made on our own.

We hope that this reference guide will answer any questions that you may have about writing for the Journal. However, if you have a question that isn't answered here, please do not hesitate to contact any of the editors or the Journal office. We look forward to receiving your article, and hope that you have fun writing it.

## Article Format

All material must be supplied in machine-readable format and, at least where graphic material is to be included, with a hard copy printout.

## Apple

Disk Format: 3 1/2" Unidisk (5 1/4" disks by arrangement with the Apple editor. Do not send 5 1/4" disks to anyone else, unless you have made prior arrangements.)

Text Format: AppleWorks or ASCII text.

Graphics Format: Print on paper using a new (but not brand-new) ribbon. We are looking for format conversion software, but so far no luck. If you have a good

graphic, we can scan it in and it will look almost as good as the original. Frequently a xeroxed copy will scan better than one out of your printer. We can handle GIF files.

## Mac

Disk Format: 3 1/2" disk 400K, 800K or 1.4MB.

Text Format: Any reasonably standard word processing format should work. Although the Journal is produced in PageMaker, we would rather that you did not use the program to produce the article unless you have cleared it first.

Graphics Format: MacPaint, MacDraw, PICT, TIFF, EPS. Large TIFF files are hard to handle and may not get used. Keep it to 100K, please.

## Other Computers

We are not locked into Apple computers for receiving material. If you have something to say that you think will be interesting to Journal readers, but do not have access to Apple equipment to write it up, please contact the office and let us know. We'll work something out.

## Submitting Articles

In order to produce and distribute the Journal on time every month, the editorial review board has a schedule of deadlines. We ask that you work with us to meet those deadlines by submitting your articles according to the dates listed in the Journal. The calendar section

of a recent issue of the Journal will identify writers' and editors' deadlines, usually for the next two issues. If you don't know who the right editor is, call the office for information.

In extreme situations, we can bend these requirements a little, but would prefer not to have to. Our hope is to publish all articles that are submitted to us, and we will try to accommodate late articles when possible. But keep in mind that the editorial review board is staffed by volunteers who have other obligations and commitments.

There is an upload board on the TCS. If you can submit your material through this board, it will make everyone's lives immeasurably simpler and more elegant. If you do use the TCS, please be sure that you contact or call the appropriate editor to tell him or her that your article has been posted and how to find it. And to repeat, if your article has graphics, it will be important to have it in hard copy so that we can tell where you want your graphics to show up.

## Useful Material to Include

Your name.

Your address.

Your telephone number.

A suggested title.

A sentence about yourself to follow the article (optional). Which types/models of computers your material relates to. Graphics: drawings, screen shots, appropriate (public domain) clip art. We love graphics. More to the point, so do readers. If you do include graphics, please prepare the article with graphics in place, and then add the graphics in a separate folder as well.

Suggested placement of graphics. Please mention if you specifically refer to a graphic in your text. Also, please include a printout of your text and graphics. Special information, i.e., time-critical nature of the material.



### Article Length

Type of article	Length	Characters	Words
SIG Meeting Report	1/2 page	2,250-2,500	390-450
Short Note	1 column	1,725-1,800	300-400
Short Article	2 columns	3,500-3,700	630-700
Article		5,000-5,400	880-1,000
Medium Article		10-11,000	1,750-2,000
Long Article		15-17,000	2,640-3,000

If you include graphic material (which we encourage), you should subtract the approximate size of the graphic from the figures above, as follows:

Type of graphic	Area	Characters	Words
Small Graphic	1/12 page	500	85
Medium Graphic	1/6 page	1,000	175
Large Graphic	1/3 page	2,000	350
Screen Shot	(half size)	1,500	260
Screen Shot	(full size)	1,750	350

These lengths are approximate and are intended to serve as guidelines only. Space is allowed for the article heading and an average number of subheads.

Remember that odd-length articles are difficult for us to place.

Character count means actual count, not the file size reported by the operating system.

### Journal Styles

All of these style suggestions are just that: suggestions. Some of them cannot be followed unless you are composing your article on a Mac, and other may just seem too complicated. Not to worry. Do the best you can and we will take care of the rest of it. The more closely you can follow these suggestions, the easier it will be for us to do that.

Except for common abbreviations and acronyms, a long name should be spelled out the first time it is mentioned in the article with the abbreviation or acronym after it in parens. Numbers, including money, should be written with commas where appropriate: 1,000 or \$13,450. If a number series occurs within a paragraph, number the series using "(1)," etc.

Do not indent by adding spaces or tabs. If this is a problem, don't bother to indent—let us do it. One space only after punctuation marks.

Two spaces after periods confuses typesetting practice.

Do not use an extra return between paragraphs. Periods and commas always go inside quotation marks. Other punctuation marks go outside, unless they are part of the quotation.

When you quote a person or text, please be sure to get the quote exactly correct. We don't have the time or, usually, resources to check it ourselves.

This editor prefers no serial commas, i.e., "red, green and blue flags."

Use ellipsis (Option/Semicolon) without extra spaces(...). At the end of a sentence, use a period as well (....).

Use en dash for phone numbers (Option/Hyphen). Use em dashes (Shift/Option/Hyphen) within text. No space before or after. Add subheads where you think they might be useful.

Italicize all publication names (except WAP Journal).

Place "open apple" (Shift/Option/K) at end of articles. If you are not using a laser font, not to worry. We can do it, and we try to catch them all. Repeat: Do not use more than one space between sentences, or after punctuation marks. No space before punctuation marks.

Avoid use of ALL CAPS and quotation marks, unless part of trade or product name.

Beware of editorializing. If in doubt, make note to Managing Editor.

"It's" is an abbreviation for "it is" or "it has." It's frequently misused, and its incorrect use bugs the editor. One other grammar reference: "hopefully" is frequently misused. You wait hopefully for the Wells Fargo wagon; it is hoped that the word will be properly employed in the WAP Journal.



**Footnotes:** they are difficult to handle. They can be added as endnotes to the article, but they should be avoided, if that is possible. Barring that, they should be minimized.

**Legal concerns:** Please do not submit material that is not your own or that bears someone else's copyright notice. You may copyright your own material, but we will print it only if permission is granted to reprint in other publications, with appropriate citation.

We will not publish material that we consider to be offensive. This is not censorship—just a matter of good taste.

**Software Reviews:** Essentially, what the reader would like to know is whether or not you think this is an appropriate program for the user, and under what circumstances it is useful (or not, as the case may be). It would be useful to have your judgment on the level of user it is targeted for (novice, average, expert) and how well it does its job. If you have had occasion to call on the publisher for support, it would be useful to know how good that support is (another way, we suppose, of finding out how buggy the program may be). Try to give the readers the information that you would look for, if you were in the market for this kind of program.

Name of Program (and version).

How much have you used it? A few hours? A few weeks?

Short description (word processing, page layout, 3D graphics, etc.)

What does it do?

How well does it do it (if possible, contrasted with similar programs)?

What do you like most about it?

What do you like least about it?

Do you recommend it, and for whom?

Ease of use?

Quality of documentation?

Help files available?

Name & address of publisher

Telephone number (800 number if possible)

Copy protected?

Compatibilities, if known (kind of computer, Multifinder-compatible, memory demands, what else is required, etc.) List price and street price, if known.

**Glossary**

\$249, not \$249.00

2D

40MB HD (hard disk)

640K

Apple II SIG

AppleCare

AppleWorks

Apple IIs, Apple Iie, Apple II+

Apple III

ASCII

AV SIG

Backup (noun); Back up (verb)

Capital PC (referring to the user group)

Database

Demo (okay as an abbreviation for demonstration)

EPS (Encapsulated PostScript)

GameSIG

HyperTalk

IBM-PC

LaserWriter

Mac, not MAC

March 15, not March 15th

Megabyte

MHz (megahertz)

NeXT computer

Online

PICT

PostScript

RAM (all caps)

ROM (all caps)

SCSI

StackWare

TIFF

vl. 1 means version 1.1

WAP Journal SIG (special interest group)

Word processing; word processor

WYSIWYG (What You See Is What

You Get), to be distinguished

from WYSIWYWLTG (What

You See Is What You Would

Like To Get), and WYSIWYOG

(What You See Is What You

Occasionally Get).

# Slides

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# Exploring Typefaces—5

by Frank Potter

The typefaces this month are a versatile lot: some of them would do very well as text fonts, or could also be used in a display format. This, incidentally, is a not infrequent occurrence: we tend to put things into cubbyholes (at least I do) and regard a particular typeface as usable as text only—never to be used in another fashion—when in fact it might perform spectacularly as an elegant, eye-catching lead in to an announcement.

As one gets deeper into the world of fonts and typefaces, one also tends to discover that things regarded as eternal verities are neither eternal nor even necessarily true in all circumstances or on all occasions. But enough philosophy—what has all this to do with the typefaces of the month?

## *Berkeley Oldstyle (106)*

This font was created by Frederic Goudy for the University of California Press in Berkeley. And so it goes into the text cubbyhole: books, magazines, newsletters and so on. But stay—check out the black and Black Italic forms on the next page and scale them up in your mind (or on the printer, if you are fortunate enough to be able to access them directly). I think you'll see what I mean.

Notice, also, that the italic forms of this typeface are not simply mathematically scaled and angled to look like italics, as has been known to be the case with many of the digital fonts that we used to see in the early days of desktop publishing. Look carefully at the way the lower-case letters are designed—note the basic change in the “a” and the “f,” and then notice the balance between the vertical and lateral strokes—they really are different, at a level that most people will not notice, yet may respond to in ways that are difficult to identify.

## *Cheltenham*

Adobe has actually created three separate packages for Cheltenham, ITC Cheltenham (24), Cheltenham 2 (140) and Cheltenham Condensed (174).

The typeface was designed by Tony Stan in 1975, borrowing upon a turn-of-the-century typefaces designed by Bertram Grosvenor Goodhue. Discriminating readers will notice that it is a far sturdier font than Berkeley, with heavier weights in the strokes creating the letters, but with enough interior space in the “e,” “o” and so on to escape the blocky appearance of many heavier fonts that tend to discourage extended acquaintanceship. I am specifically thinking of Bookman in this context, and freely confess my prejudice.

The San Francisco Examiner uses Cheltenham in its headlines, which underscores its adaptability as a display face.

Notice that, in some respects at least, Cheltenham crosses the barrier between serif and sans-serif typefaces. The italic form, particularly, seems quite spare and some of the serifs just plain disappear. It is a tribute to the designer that these changes do not come immediately to notice, but blend in nicely as one makes the transition between regular and italic form.

Notice, also, the fairly abbreviated ascenders and descenders (you do remember what those are, don't you?) in Cheltenham. Compare these with those found in Berkeley, and then drag out a copy of the Journal from a few months back, when we were still using Adobe Garamond, and see what a difference it makes.

## *Eurostile*

Eurostile comes in two flavors from Adobe: Eurostile (44) and Eurostile 2 (130). The latter constitute the Condensed and Extended forms found on page 25.

The font feels like a Bauhaus design, and for all I know, is. The square letters and rounded corners make it one that you would probably not use for text purposes, but it will work well in business forms, for uses like order forms, inventories, and for occasions when one wants to look modern and efficient. It has been confused with Avant Garde, but if you look at them carefully, you can easily see the differences.

AaBbCc&  
Eurostile

AaBbCc&  
Avant Garde

This series

What little feedback we have received to date suggests that this series of articles and, more particularly, views of fonts is of interest to all of you out there in readerland. When you get tired of it, we trust that you will let us know.

Next month, or as soon as we can arrange it, we will have some of the new typefaces for your review that Adobe has picked up in its recent partnership with Berthold, a German type center with more than 500 typefaces. Several of these have already been converted to Type 1 format and are now, or are about to be, available in this country.



# Berkeley Oldstyle

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz 123  
4567890(48/50Book)

*ABCDEFabcdef*—B Oldstyle Book Italic  
ABCDEFabcdef—B Oldstyle Medium  
*ABCDEFabcdef*—B Oldstyle Italic  
ABCDEFabcdef—B Oldstyle Bold  
*ABCDEFabcdef*—B Oldstyle Bold Italic  
**ABCDEFabcdef**—B Oldstyle Black  
***ABCDEFabcdef***—B Oldstyle Black Italic

There was nothing so VERY remarkable in that; nor did Alice think it so VERY much out of the way to hear the Rabbit say to itself, 'Oh dear! Oh dear! I shall be late!' (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the Rabbit actually TOOK A WATCH OUT OF ITS WAISTCOAT- POCKET, and looked at it, and then hurried on, Alice started to her feet, for it flashed across her mind that she had never before see a rabbit with either a waistcoat-pocket, or a watch to take out of it, and burning with curiosity, she ran across the field after it, and fortunately was just in time to see it pop down a large rabbit-hole under the hedge. 10/10

There was nothing so VERY remarkable in that; nor did Alice think it so VERY much out of the way to hear the Rabbit say to itself, 'Oh dear! Oh dear! I shall be late!' (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the Rabbit actually TOOK A WATCH OUT OF ITS WAISTCOAT- POCKET, and looked at it, and then hurried on, Alice started to her feet, for it flashed across her mind that she had never before see a rabbit with either a waistcoat-pocket, or a watch to take out of it, and burning with curiosity, she ran across the field after it, and...10/12

There was nothing so VERY remarkable in that; nor did Alice think it so VERY much out of the way to hear the Rabbit say to itself, 'Oh dear! Oh dear! I shall be late!' (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the Rabbit actually TOOK A WATCH OUT OF ITS WAISTCOAT- POCKET, and looked at it, and then hurried on, Alice started to her feet, for it flashed across her mind that she had never before see a rabbit with either a waistcoat-pocket, or a watch to take ... 10/14



## ITC Cheltenham

ABCDEFGHIJKLMN  
 OPQRSTUVWXYZ  
 abcdefghijklm  
 nopqrstuvwxyz  
 123456789(48/50)

ABCDEFabcdef—ITC Cheltenham Book

*ABCDEFabcdef—ITC Chelt Book Italic*

**ABCDEFabcdef—ITC Chelt Bold**

***ABCDEFabcdef—ITC Chelt Bold Italic***

There was nothing so VERY remarkable in that; nor did Alice think it so VERY much out of the way to hear the Rabbit say to itself, 'Oh dear! Oh dear! I shall be late!' (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the Rabbit actually TOOK A WATCH OUT OF ITS WAISTCOAT-POCKET, and looked at it, and then hurried on, Alice started to her feet, for it flashed across her mind that she had never before see a rabbit with either a waistcoat-pocket, or a watch to take out of it, and burning with curiosity, she ran across the field after it, and fortunately was just in time to see it pop down a large rabbit-hole under the hedge. 10/10

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There was nothing so VERY remarkable in that; nor did Alice think it so VERY much out of the way to hear the Rabbit say to itself, 'Oh dear! Oh dear! I shall be late!' (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the Rabbit actually TOOK A WATCH OUT OF ITS WAISTCOAT-POCKET, and looked at it, and then hurried on, Alice started to her feet, for it flashed across her mind that she had never before see a rabbit with either a waistcoat-pocket, or a watch to take out of it, and burning with curiosity, she ran across the field after it, and fortunately was just in time to see it pop down a large rabbit-hole under the hedge. 10/14



## ITC Cheltenham 2

ABCDEFGHIJKLMNOP  
QRSTUVWXYZabcdefghijklmnop  
hijklmnopqrstuvwxyz 1  
23456789(48/50)

ABCDEFGHIabcdef—ITC Cheltenham Light

*ABCDEFGHIabcdef—ITC Chelt Book Light Italic*

**ABCDEFGHIabcdef—ITC Chelt Ultra**

***ABCDEFGHIabcdef—ITC Chelt Ultra Italic***

There was nothing so VERY remarkable in that; nor did Alice think it so VERY much out of the way to hear the Rabbit say to itself, 'Oh dear! Oh dear! I shall be late!' (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the Rabbit actually TOOK A WATCH OUT OF ITS WAISTCOAT-POCKET, and looked at it, and then hurried on, Alice started to her feet, for it flashed across her mind that she had never before see a rabbit with either a waistcoat-pocket, or a watch to take out of it, and burning with curiosity, she ran across the field after it, and fortunately was just in time to see it pop down a large rabbit-hole under the hedge. 10/10

There was nothing so VERY remarkable in that; nor did Alice think it so VERY much out of the way to hear the Rabbit say to itself, 'Oh dear! Oh dear! I shall be late!' (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the Rabbit actually TOOK A WATCH OUT OF ITS WAISTCOAT-POCKET, and looked at it, and then hurried on, Alice started to her feet, for it flashed across her mind that she had never before see a rabbit with either a waistcoat-pocket, or a watch to take out of it, and burning with curiosity, she ran across the field after it, and fortunately was just in time to see it pop down a large rabbit-hole under the hedge. 10/12

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# ITC Cheltenham Condensed

**ABCDEFGHIJKLMN OPQR**  
**STUVWXYZ abcdefghijklm**  
**nopqrstuvwxyz 1234567890**  
**(48/50)—Chelt. Cond. Bk**

**ABCDEFabcdef—ITC Chelt Condensed Book**

*ABCDEFabcdef—ITC Chelt Condensed Book Italic*

**ABCDEFabcdef—ITC Chelt Condensed Light**

*ABCDEFabcdef—ITC Chelt Condensed Light Italic*

**ABCDEFabcdef—ITC Chelt Condensed Bold**

*ABCDEFabcde—ITC Chelt Condensed Bold Italic*

**ABCDEFabcdef—ITC Chelt Condensed Ultra**

*ABCDabc—ITC Chelt Condensed Ultra Italic*

There was nothing so VERY remarkable in that; nor did Alice think it so VERY much out of the way to hear the Rabbit say to itself, 'Oh dear! Oh dear! I shall be late!' (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the Rabbit actually **TOOK A WATCH OUT OF ITS WAISTCOAT-POCKET**, and looked at it, and then hurried on, Alice started to her feet, for it flashed across her mind that she had never before see a rabbit with either a waistcoat-pocket, or a watch to take out of it, and burning with curiosity, she ran across the field after it, and fortunately was just in time to see it pop down a large rabbit-hole under the hedge. 10/10 (ITC Cheltenham Condensed Book).

There was nothing so VERY remarkable in that; nor did Alice think it so VERY much out of the way to hear the Rabbit say to itself, 'Oh dear! Oh dear! I shall be late!' (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the Rabbit actually **TOOK A WATCH OUT OF ITS WAISTCOAT-POCKET**, and looked at it, and then hurried on, Alice started to her feet, for it flashed across her mind that she had never before see a rabbit with either a waistcoat-pocket, or a watch to take out of it, and burning with curiosity, she ran across the field after it, and fortunately was just in time to see it pop down a large rabbit-hole under the hedge. 10/12

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# Eurostile

ABCDEFGHIJKLMNO  
PQRSTUVWXYZabcd  
efghijklmnopqrstuvw  
xyz1234567890  
(48/50)—EuroRegu

ABCDEFabcdef—Eurostile Regular

*ABCDEFabcdef—Eurostile Oblique*

ABCDEFabcdef—Eurostile Demi

*ABCDEFabcdef—Eurostile Demi Oblique*

ABCDEFabcdef—Eurostile Condensed

**ABCabcd—Eurostile Condensed Bold**

ABabc—Eurostile Extended 2

**A—Eurostile Bold Extended 2**

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 (Eurostile Regular)

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





## Software for MacNovices—2

by Ralph J. Begleiter

For those of you who have been attracted to the Mac by its new lower-priced models, software purchases are the next frontier. Last month, I offered a summary of some of the best basic Macintosh software. This month - a guide to some of the best "accessory" and utility programs for your Mac. These programs offer safety, convenience and speed. This list is a potpourri of some of the most useful programs I've used in more than six years of Macintosh computing.

Please remember that the opinions expressed here are my own, and not those of Washington Apple Pi, or the Journal's editors.

Again, a reminder that the advent of the Mac's new System 7.0 operating system software could well change some of these recommendations. Some programs will undergo major revisions once System 7.0 is widely used.

Prices listed are based on retail ordering from MacConnection, a highly-reputable U-S mail-order firm whose prices, service and warranty policies are among the best available. I have had good personal experience with this firm. Prices followed by a "?" are best guesses.

- Quicken (v 1.5) - An outstanding checkbook/bank account management program. A standard in both IBM and Mac worlds. Inexpensive and constantly useful. \$35
- CheckWriter (v 3.0) - The competition to Quicken. I have no

experience with this program, but it gets excellent reviews compared to Quicken, and Quicken has not been updated in several years. \$32

- MacinTax - The industry standard US federal income tax program. Excellent software. Provides on-screen imitations of official IRS tax forms, *accepted by the IRS for actual submission*. All forms are electronically "linked" so data entered in one form automatically posts to other appropriate forms. Separate modules are available for about a dozen states. Highly recommended. \$59
- After Dark (v 2.0) - A utility which "blanks" your Mac screen after a user-determined number of minutes. A "screen-saver." Good for your Mac... and fun to use because it allows a seemingly endless array of user-defined patterns to appear on your "dark" screen to advise you that the Mac is still on. Recommended. \$22
- DiskTop (v 4.0) - a file management utility which you probably won't need until you become more expert at using your Mac. Stick with Apple's "Finder" for awhile. System 7.0 could well obviate the need for DiskTop, but I doubt it. This one, I recommend for "later." \$63
- Alarming Events (v 1.0) - This utility is a calendar. It allows you to set dates, "events" and reminders, which automatically

signal you when they arrive. Useful! \$85

- QuickKeys (v 2.0) - A "macro" utility which allows you to automate actions on your Mac and assign these automated "scripts" to any key or combination of keys on your keyboard. A utility like the "scripts" in Full Impact and MicroPhone, but applicable to *any* Macintosh program. An industry standard. I couldn't live without it. \$94
- Suitcase II (v 2.6.9) - This utility allows flexible adding and removing of fonts, desk accessories and other aspects of the Mac system. Suitcase has been an invaluable tool for early users of the Mac. Apple's release of System 7.0 which will perform many of the same functions. Highly recommended in the meantime. \$49
- Disk Doubler (v 3.0) - This utility "compresses" large files, saving disk storage space. Works transparently. Easy to use. Virtually doubles your disk space on a hard disk drive. If you have a small drive, I recommend this program. \$45
- SAM (Symantec AntiVirus for Macintosh) (v 3.0) - An indispensable utility for preventing and disinfecting virus infections in your Mac system. Theoretically, you should not need virus protection. But in a world where people exchange files on disks from one Mac to another, and where bulletin boards can get infected, SAM is a lifesaver. I speak from personal experience. (Note that there are several other excellent antivirus programs available as "shareware" through the WAP library. Virus Detective is among the best.) Highly recommended. \$67



- Norton Utilities for the Mac (v 1.0) - A highly recommended collection of utility programs. The most useful of them allows you to *recover* "lost" or "erased" files from your disks, and even to recover when the hard disk drive *itself* has "crashed." Highly rated. \$84
- PictureBook - A replacement for Apple's "Scrapbook." Allows you to give names to pictures (in standard PICT as well as PostScript formats). Most usefully, PictureBook allows you to scale and crop pictures

before "pasting" them into other documents. A new version expected shortly should allow you to archive scraps and search for them by name, as well as to annotate each scrap with a searchable description.

Utility and accessory programs are like shoes. If you're comfortable with them, you never give them up. Everyone's got his own favorites. In general, these are inexpensive programs which often work wonders. 🍏

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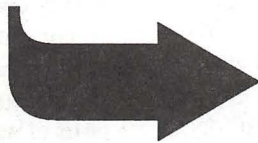
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Dana Schwartz (301) 725-6281





# System 7.0 Discoveries

by Robb Wolov

Well, after all the delays, fitful starts and gnashing of teeth, System 7.0 is finally here. Users that I've run into seem to fall into one of three categories. The first group couldn't wait for 7.0—to the point of wrangling beta copies from their developer friends (and then complaining of bugs publicly on the Internet!) The second group anxiously awaited System 7.0, but was willing to wait for the stable release version. The last group was so badly frightened at the birth of the first bug infested System 6.0 release that they swore ahead of time not to touch System 7.0 until release 7.5 or so. All attitudes are valid. Since users' requirements and usage vary, I wouldn't begin to fault their judgment. If you're holding out, stick around. For the adventurous, the new 7.0 saga is ready to begin.

Most of the system administrators with whom I've spoken fall in to the wait-and-see category. In all fairness, they have specific problems maintaining many machines, frequently used by technically unsophisticated users. While many of us are willing to brave the uncertainties of a new operating system on our own machines, these folks are being paid to avoid surprises. Having said that, let's push on.

Firstly, System 7.0 has proven surprisingly stable on its initial release, especially in light of the horror stories of the first outing of System 6.0. Does this mean there will be no 7.0.1? Of course not, only that 7.0.0 is not another 6.0. The

extra year's delay seems to be rewarded with increased stability out of the box. System 6.0 was not quite as bad as many people

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remember. At least all of the problems weren't the fault of the operating system alone. Many of the crashes of the early series were traceable back to applications that had not complied with Apple's programming rules. Eventual repair work took place on both the applications as well as the operating system. As more programs complied with the rules, things seemed to get more stable. This is probably why Microsoft products got the reputation they did amongst Mac users for flakiness. (MS programmers still insist on avoiding the Mac's tool box and writing such things as windows and scroll bars their own way.)

Perhaps as the result of learning to comply with Apple's rules over the course of System 6.0x, most of the programs labeled "Not available" by the Compatibility Checker stack seem to run just fine under System 7.0. However, it remains to be seen what happens with more

extensive use of such features as virtual memory and 32-bit addressing.

This will be a voyage of discovery for both of us, for it seems that with every new documented feature or improvement, there are about two or three hidden features.

I won't walk you through the installation of System 7.0. Apple's own instructions handle that quite well. But if I leave you with one key point in dealing with System 7.0, that would be to use the Installer! It

seems that in these early days, about 7 out of 10 problems people have expressed using System 7.0 can be traced back to not using the Installer.

I have no idea how it started, but there sprang up a group of Mac users who act as if they believe that the Installer is for wimps. They insisted on drag copying System 6.0x onto their hard disks without Installer intervention. Message traffic on the networks shows this same group to be having problems booting up with 7.0.

"Installer" is probably a bad term, "System Assembler" is more descriptive, since the Installer is more than a glorified batch copier. Many of the files of the new system are not complete as you find them on your installation disks. The Installer reads your system's ROM and assembles CPU specific versions of many of System 7.0's files. This application acts like an automated ResEdit, actually moving





code at the resource level into and out of the generic versions of your files. Merely drag copying files onto your hard disk won't even give you a bootable drive as it did with System 6.0x. Use the Installer. A lot of work has been lavished on this one application alone.

If you do decide to take the System 7.0 plunge, even though the Installer will install over a loaded, working System 6.0x (or earlier), take the time to reinitialize your hard disk with the new SC HD Setup.

We've spoken of this in the past. Every hard disk, as it ages under use sustains a certain degree of mechanical drift of its magnetic read/write heads. When you initialize a hard disk, it places magnetic sector markers on the media where data will go, just like painting the lines on an empty parking lot. As your disk ages, the heads may not quite line up with their original tracks. You may start to experience vague, intermittent errors. When you reinitialize, your hard disk will lay out a new set of tracks and sectors which now match the current alignment of the disk's heads. Since you'll be backing up your data prior to installation (you will be backing up, won't you?) why not take the opportunity to reinitialize?

Now for some of the new hidden features. Remember when every time you formatted a floppy disk, the totally empty disk would always claimed to contain 7.0K of something? That something was the hidden Desktop file which contained icon and directory information for the floppy. Well, the Desktop is still there, but now it's only 1K. It may not be much, but 6K of storage is 6K of storage. You can get that 6K back on disks that were previously formatted under System 6.0x or earlier. Hold down your command and option keys when you insert your floppy. You'll be asked if you wish to

rebuild the desktop. Answer yes. After the rebuilding, you'll see that your disk now has about 6K more of perfectly good storage space.

System 7.0 quietly added, when no one was looking, the ability to lock out bad sectors when formatting floppies. Before, if the Mac found only a single bad sector, it rejected the entire disk with a "Failed initialization" message. MS DOS always had this capability and I have to say that it was the only feature of MS/DOS better than Mac.

If you now watch the message box while your floppy is being formatted and see a new "Reverifying format" following after the previous "Verifying format," then bad sectors were found which are now being locked out.

No application has been as maligned as the old Font/DA Mover. Criticized for being the most "unMaclike" and least intuitive utility designed by Apple, a cheer was heard from here to Cupertino when System 7.0 was announced to no longer require it. You can now just drag fonts and sounds into your System file.

Well, for those not too daunted by the old 'Mover, Apple not only supplies an updated, TrueType compatible version with System 7.0 (version 4.1, supposedly to create font files for use on System 6.0x computers) but there is actually a use for it under System 7.0. Now it's true that you can load as many fonts as you please into the system file without penalty. However, having all fonts loaded, creating font menus a mile long, is not the most convenient in the world.

Advocates of such utilities as Suitcase II or MasterJuggler have used them (under System 6.0x) to switch in collections of fonts, stored in the old style Font/DA Mover suitcase files. The latest Suitcase II (1.2.10) is a System 7.0 specific upgrade.

However there is a snag. System 7.0 opens the old suitcase files by merely clicking on them, thus opening a window which shows the individual fonts. In a sense, you can think of the old style suitcase files as if they were a special folder with a unique icon. At this point, you drag the fonts out of the window and into your System file. You can trash the now empty suitcase. This scenario is what the System 7.0 engineers had in mind.

However Suitcase II, when dealing with these newly "liberated" fonts, attempts to load each one individually. It can't as yet load a collection of fonts stored in a conventional folder. With a large typeface family this can represent quite a few individual fonts.

If you want to load a collection as a unit, it may be preferable to leave these special fonts in an old style suitcase which can then be loaded as a single entity by Suitcase II. The Font/DA Mover, if for nothing else, can be used to create these old style suitcases.


Once a suitcase is created, System 7.0 can just click and drag font files into and out of these special folders, with no further intervention required by Font/DA Mover. Of course, better still if Suitcase II could deal with conventional System 7.0 folders the way it deals with suitcases. This will have to wait for some future version. Steve Brecker, are you listening?


Until next time...


Robert B. Wolov, M.D. is a pathology resident at the Georgetown University School of Medicine. His areas of interest, besides molecular and orthopaedic pathology, are digital microscopic image analysis and writing medical education software. He can be reached via InterNet at WOLOVR@GUV.M.BITNET or RWOLOV01@GUMEDLIB.GEORGETOWN.EDU






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# Notes on the Mac

by Paul Schlosser

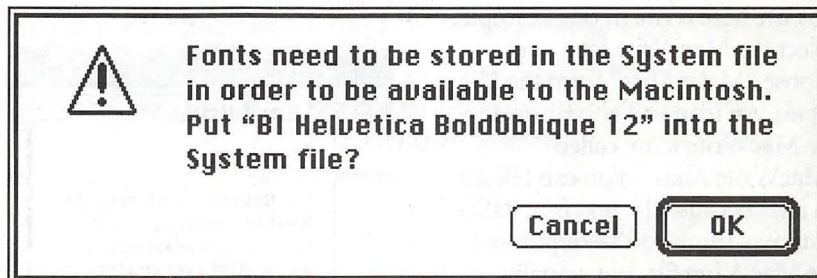
## System 7.0 Released!

The big news this month is that we've finally got our hands on System 7.0! As promised, Apple began distributing System 7.0 on May 13th, and the early reviews are very favorable. I wasn't sure how soon I would upgrade my system to 7.0, but after seeing it on a friend's machine I knew I would install it as soon as possible. Now that I've been running System 7.0 for one week, I can say that I don't regret installing it one bit. There's been very little confusion, and I'm quite impressed with the enhancements that the programmer's have made to the Macintosh interface. Other than a few INITs and DAs (which I can live without), I've yet to find anything that won't run under System 7. I'll briefly cover some of the System 7 highlights, as I see them.

First thing you'll notice is that MultiFinder is no longer an option - you're in it all the time. Don't let this scare you - it's actually a good thing. You don't have to run several different applications at the same time, rather you can continue to launch and quit your favorite applications one a time, just as you did under the System 6 Finder. If you're fond of having multiple applications open at the same time then you'll love System 7. MultiFinder isn't really gone - it's gotten better! Any item that you'd like running when you start your Mac can be placed in the Startup Items folder. System 7 automatically checks this folder at boot time. The old problem of managing the

System "heap space" is gone - System 7 can transparently grant and reclaim memory for the System.

Another pleasant change is that you'll probably never have to use Font/DA Mover again. The System Folder is "smart" under System 7. Simply drag a font (or sound) to the System Folder, and the following dialog window will appear:



Clicking "OK" will automatically place this font in your System File, and it's immediately available to applications. The same principle applies to desk accessories, control panel files and system extensions (INIT's). To remove a font (or sound) from your System File, simply double click on the System

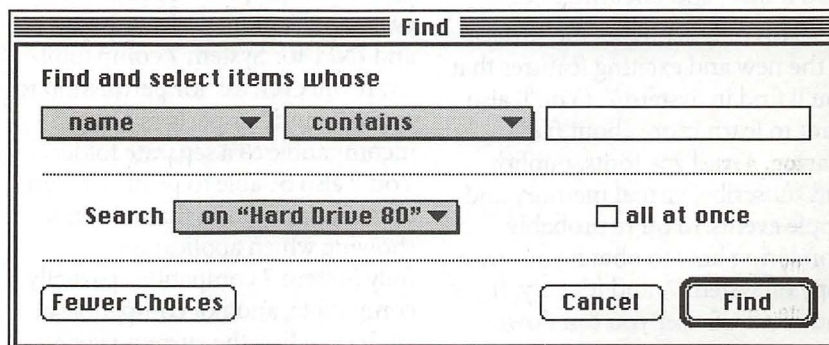
File, scroll to the desired name, and drag it out of the window. It's gone!

The Finder can actually "find" files now. Under the Finder "File" menu you'll see "Find" and "Find Again." The new options are user configurable, with many settings available to pinpoint your search. Not only will this new command find a file, it will open the appropriate window and select the desired file. The new Find window will look like the one at the bottom of the page.

The new "Balloon Help" will be appreciated by novice Macintosh users, although veteran Mac users will surely turn this feature off. To take advantage of Balloon Help simply turn the feature on, by selecting the question mark icon from the upper right side of the

menu bar, and choose "Show Balloons." Then, as you move the cursor over menu items or icons, a help window will magically appear to explain the function of that item.

My two favorite new features are the "Apple Menu" and Aliasing." The old desk accessory menu (under the Apple) has been



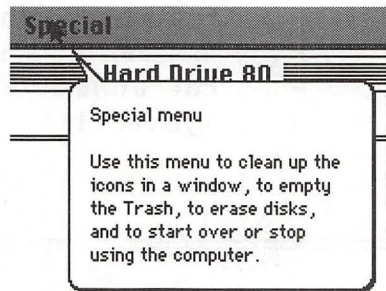




replaced by the Apple Menu. You simply place an application, document or desk accessory in the "Apple Menu Items" folder, which is inside the System Folder. This item is then immediately available under the Apple Menu. This makes it very easy to launch your most often used applications. No more digging through layer after layer of folders to find that file. Simply pull down the Apple Menu, scroll to the desired item, and click. You're off and running in that application. Now here's where "Aliasing" comes in handy. Because you can create an alias of files, it's not necessary to actually copy your favorite applications to the Apple Menu Items folder. Instead, you put an alias of that application in the Apple Menu Item folder. Here's how it works: Dig down through those layers of folders and select an application, let's use MacWrite in this example. Select the MacWrite icon, and choose "Make Alias" from the File menu. An icon will appear next to the MacWrite icon, called "MacWrite Alias." You can tell it's an alias because the text is in italics. You may think you've duplicated the MacWrite file, but actually you've just created a small 2K "pointer" to the MacWrite application. Next, drag the MacWrite Alias to the Apple Menu Items folder. Now, when you pull down the Apple Menu, MacWrite will be listed. Select that item, and you've just launched MacWrite. Very handy! Aliases are not limited to applications or desk accessories, you are free to create aliases for often used folders and documents too.

This only scratches the surface of the new and exciting features that you'll find in System 7. (You'll also want to learn more about file sharing, TrueType fonts, publish and subscribe, virtual memory and Apple events.) You're probably wondering how to obtain your own copy of System 7, and it's easy. If you're a TCS user you can down-

load the entire System 7 Installer set from our File Transfer area. The System 7 files are in area 19, Apple System Software. A second option is to purchase System 7 from the WAP Disk Library. The full set of nine disks sells for \$20. Finally, you can purchase System 7 from any Apple dealer. The list price is \$99. There are several advantages to purchasing System 7 from an Apple dealer. One is that you receive a System 7 user manual, and are entitled to 90 days of toll-free telephone support. Telephone support is available to users that don't purchase from Apple, but at a price. Apple has installed a fee-based telephone support line, that costs \$2 each minute. The number is 900-535-2775. A second line, with automated answers, is 408-257-7700, and you'll pay normal long distance rates to access this service.



A typical balloon

### The System 7 Compatibility Checker

Along with the System 7 Installer disks you'll find the Compatibility Checker (CC). This is a HyperCard stack that will scan your hard disk, checking each and every application, desk accessory and INIT for System 7 compatibility. It will even ask for permission to move items it suspects as being incompatible to a separate folder. You'll also be able to print out a list of every application that it found, showing which applications are fully System 7 compatible, partially compatible, and not compatible at all. It even lists the current version

number, the version number that you might need to upgrade to, and the phone number of the software publisher to call for an upgrade. (Note that Apple is relying on information provided by the publishers for this data.) Apple strongly advises that you run the CC, and follow its recommendations. The general feeling among users that have already installed System 7 is to take the CC's results list with a grain of salt. Very few things have proven to be System 7 incompatible, and there's a feeling that developers provided Apple with information that certain upgrades are necessary, when in fact they might not be. What better way could there be to sell upgrades to your installed user base?

### New Products from Claris

Claris has announced a new spreadsheet application, "Resolve." They describe Resolve as the first Macintosh application designed from the ground up for System 7. MacWrite has become MacWrite Pro, and HyperCard is now up to version 2.1, both can take advantage of System 7's new features.

### More Price Reductions from Apple

On May 13th Apple announced significant price reductions for logic board upgrades and extended memory products. This announcement was timed to coincide with the release of System 7, which requires a hard disk and 2 MB of RAM. The price cuts range from 41% for logic board upgrades, to as much as 57% for memory kits. The SE to SE/30 upgrade is now \$999, while the IIcx to IIci upgrade has been reduced to \$1,499. While the reduction in price for the memory kits is significant, you're still better off buying memory from a third-party vendor, and either installing it yourself or paying someone to do it for you.



## Mac Classic To Get 030?

The latest rumor is that Apple will begin selling a 68030 powered Classic later this year. The new 030 Classic, with 2 MB of RAM and a 40 MB hard drive will sell for \$2,000. Apple has informed its dealers that the SE/30 will be in short supply for some time, which may mean that they are phasing out the older SE/30 in favor of the new 030 powered Classic. Current plans call for an upgrade path for the older Classics. The Mac LC is also due for a 68030 upgrade early next year. The new LC, with an on-board memory-management-unit, will be able to support virtual memory, a new feature of System 7.

## 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 on to the TCS.

### File area 13 - Mac Fonts

HANDWRIT.CPT Handwriting font for LaserWriter, etc.  
 ROOSTH.SEA Type 1 Laserfont, RoostHeavy.  
 HOTSHOT.SEA Type 1 Laserfont, HotShot  
 EDDACAPS.SEA Type 1 Laserfont, EddaCaps.  
 LIGHTS.SEA Type 1 Laserfont, LightsOut.  
 MIDDLE.SEA Type 1 Laserfont, Middleton  
 OSWALD.TT.SIT TrueType version of OswaldBlack  
 BODIDLY.TT.SIT TrueType version of BodidlyBold  
 ALBTROSTT.SIT TrueType version of Albatros  
 CARTWRIT.SIT TrueType version of CartWright  
 BLACKFRSTT.SIT TrueType version of BlackForest  
 INKABODTT.SIT TrueType Version of InkaBod  
 JUDASTT.SIT TrueType version of Judas  
 LOOPTT.SIT TrueType version of LoopDeLoop

### File area 14 - Mac Games

DIAMONDS15.CPT Diamonds v1.5, Great color & Snds  
 MEDEMPIR.SIT Conquer Medieval Europe  
 TEXTMANGLER.CPT Makes hilarious nonsense

MONOPOLY.SEA Monopoly v4.03a

### File area 17 - Mac Technotes

TIDBIT60.SIT Tech TidBITS for 06 May 1991  
 SYS.7.Q.A.CPT System 7.0 Q & A, from Apple  
 TN.91.FEB.SIT February tech note  
 TIDBIT59.SIT Review issue - AccessPC  
 TIDBIT58.SIT Tech TidBITS for 29 Apr 1991  
 COFFEEMU.TXT COFFEE MUG Group Purchase prices-text  
 COFFEEMU.CPT COFFEE MUG Group Purchase Prices  
 TN.90.DEC.SIT TechNotes for 12/90  
 APPLE.PRICE.CPT 4/15/91 Apple price list  
 TIDBIT55.SIT Tech TidBITS for 15 Apr 1991

### File area 18 - Mac Utilities

TYPEBOOK.SEA theTypeBook v 2.06  
 SYSPICK.SIT Lifesaver! Switch between System 6 & 7  
 CETOOLBOX.V1.6. CE Toolbox v1.6 from CE Software  
 DISINFECT.CPT Disinfectant version 2.4  
 THINK.C.4.0.5.U Think C 4.0.5 Update, for System 7  
 SOFTFPU.SIT SoftWare FPU, for IIs & LC  
 INIT.LOAD.SIT Control how INITs load  
 POP.CHAR1.7.SIT List characters in font  
 UNDERSTUDY.SIT Modify Sys 7's "Open"  
 SUITCASE.CPT Update Suitcase II for System 7.0  
 USBBS.CPT Nationwide list of BBSs  
 TCS.OFFLINE.2.1 Read, write, reply to TCS msgs offline  
 PRETTYC.SIT Printing utility for C

source code  
 MAC.LOAN.SIT Calculate, print amortization schedules  
 DESKPICT.SIT Use picture as Mac desktop  
 SCSI.LED.SIT Flash lights on Ext Kbd for SCSI access  
 SCSPROBE.SIT SCSI Probe, v3.0, Sys 7 ready  
 OPENWIDE13.CPT See more text in Open and Save dialogs  
 SLIDE.CPT Shutdown screen fade  
 SYSPICK10B7.CPT Select which System Folder to use  
 SCRNPPLAY.CPT ScreenPlay 1.2 startupscreen randomizer  
 FASTENV.CPT DA to print envelopes  
 SND.PICTTHF.CPT Steals SND, PICT, ICON Rsrc from Apps.  
 CROSSLAUNCH.SIT launch docs with different creator  
 PSEUDOFPU.SIT Software FPU for IIs's  
 PASTEITN.CPT "Post-it" notes for Mac Desktop  
 SOFT.FPU.SIT SoftwareFPU - see browse description  
 EXTRACTOR v1.20, free util for unpacking  
 DESKWRITER.CPT DeskWriter driver v2.1  
 MODEM.INIT.CPT Send AT commands to your modem  
 FLASH.IT.CPT Flash-It v2.2b1, for Sys 7  
 ZOOMBAR.SIT ZoomBox 2.0 - shrink windows  
 SCROLL2.CPT Modify your scroll arrows!  
 POPCHAR.1.5.CPT Finds any character in a font by menu.

### Scanning

24-bit  
 11" x 17"

### Slide Output

EPSF!  
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MACINTOSH





# FileMaker Pro

by David K. Page

FileMaker Pro is published by Claris Corporation and is an upgrade to the very popular FileMaker II. Let me begin by saying that prior to FileMaker Pro, I had never used a database on the Mac, although I had used several on the Apple II line of computers.

FileMaker Pro is a flat file database. What is the difference between a relational and a flat file database? Well, I'm glad you asked. First, let's go into what a database is used for.

Anything that can be put into an organized list or grouping can be used in a database. Checking account ledgers, address lists, phone directories and most business information are all candidates for database systems. Databases are used in almost every facet of our lives. The library uses a database to catalog the books, the grocery uses a database to speed up the ordering and checkout. So why shouldn't we use one to make our lives better?

Okay, so back to relational versus flat files. A relational database will create records with entries from additional record sources. That is, it will search any number of other files for the information that is requested, even across different disks. A flat file database will enable you to create records of your data and sort, move, delete or change them in the same way the relational database will, except that the flat file works on only one file. So if you have an address book flat file database and a phone book flat file database you can't normally exchange information between them by just entering

the information once in either database. But the power of the relational system doesn't come without a price. The learning curve is very steep, meaning it will take you a long time to start really using the features of the relational database. Confused? In simpler terms, a relational database is what most high power programmers use to make custom programs for clients, and it costs a bundle. Now, on to FileMaker Pro.

The first thing I did was install the software on my hard disk. Smart, huh? There isn't an install program on the disks, but installation was still easy. All I needed to do was drag the files from the floppy disk to a newly created folder on my hard disk. Now, on to using the program. What? Look at the manuals? Remember—I have used an Apple IIe, and IIgs for a long time—we don't need no stinking manuals! I opened a Template called Contacts. Wow, it had graphics, addresses, form letters, Avery Labels for printing to the Laser and the ImageWriter, Fax, Rolodex, envelope printing, phone list... So much for *that* idea. Time to check the manual!

After playing with the Templates for a while I decided to create my own database. I thought a list of all the equipment that I have with serial numbers, model numbers, manufacturer and so on would be nice. First, I thought about the way I wanted it to look. FileMaker will enable the user to change the display of the records, fields and graphics to exactly the way she/he wants them to look. Having

planned it out so that there wouldn't be any problems, I started the job.

I set up the text, date, calculated and number fields that I would use—text for the names, models and classifications and numbers for the costs. Then I set up the size of the boxes for the information. Moving the fields around was easy (click and drag) and made the data entry screen look nice. I then thought it would be nice to have a serial number or an item number that could keep track of the entries. No problem, FileMaker Pro will do that automatically. I then added, since it was so easy, fields for total cost, selling price, date sold, total selling price, total assets and a graphic as the logo.

I wanted to make it a little easier to enter the information so I made some of the areas auto entry fields. The date entered was made an auto field. I also made a scrolling list for the classification so I didn't have to remember all the classifications of the equipment as I entered it. Then I added a field to break down the classification into sub-areas, and made it a popup window for the selections to enter. Now, it would be nice if FileMaker Pro would allow me to cut and paste the scrolling and popup lists. When entering a list of classifications, most of them started with the same type of beginning, *i.e.*, Computer Equipment, and then they went on the Mac IIX or Mac IIsi or Apple IIGS. I could cut and paste.

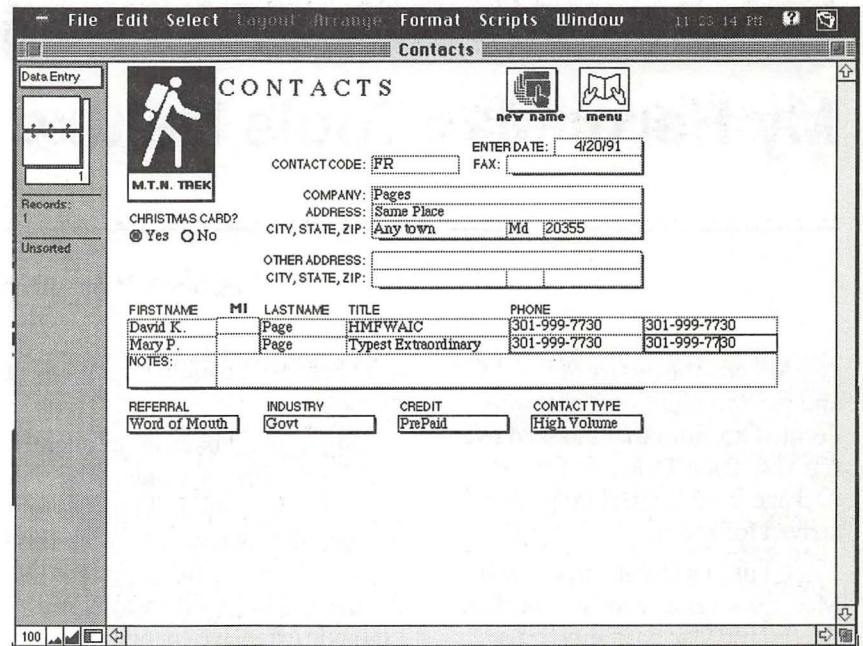
I started to enter the information, and after a few small adjustments thought that it would be nice to be able to print reports. I made a new screen, called a layout, and set up the information for the report. FileMaker remembers the page setup and the printer that was selected when you design your layout. That made it very easy to make my report printer.

Well, every thing is great so far as I enter my information and write



this review. My next project for this equipment list is to add an automatic sorting option. I can't find anything that says FileMaker Pro will do this automatically so I will have to use the scripting function. I can make a button that will sort the records on the classifications and let me see only those records that I asked for.

So what is the bottom line on FileMaker Pro? Would I recommend this program? Yes. It is a very good program. It has more than enough power to keep me busy for a long time. Everything is easy to understand and the manuals are very well organized. The Templates are first class and can be easily modified for your own use. The price is not too bad, about \$215 mail order. What else can FileMaker Pro do, the list goes on and on and on.....



Just for you FileMaker II users, here is what is new in FileMaker Pro:

1. Layout adds expanded color capability
2. Popup layout menus
3. Zoom control of 25%-400%
4. Color and pattern menus for fill & pen, plus line width
5. Defaults automatic, command-click object becomes the default
6. Ruler & user definable visible gridlines added
7. Nudge objects 1 pixel at a time for alignment/positioning
8. You can arrange by: grouped/manipulated as a single object, locked in place, place behind or in front of other elements, aligned horizontally or vertically by the top, bottom, sides or centers
9. Tab orders are on a floating menu to change the input order of any or all data entry fields

10. Added buttons to layout to perform a script, execute a FileMaker Pro command, or switch to another layout

11. Time added as a field type
12. Format menu adds custom font sizes, types styles and line spacing
13. Improved data entry options
14. Spelling checker with 100,000 words
15. Sort on summary fields, create your own custom sort order based on a fields value list
16. Scripting
17. More direct control in Preview mode
18. Access privileges for data security
19. Exchange information between FileMaker Pro and other programs with: DBF, DIF, and Lotus 1-2-3

20. Bring graphics into FileMaker Pro directly from almost any format and size, even a full screen of scanned image

21. Extensive help areas
  22. Much, much more
- Some of the stats for FileMaker Pro:
1. Choose from 81 colors to enhance reports and spice up information
  2. Unlimited number of layouts for viewing, data entry, printing, etc. (disk space)
  3. Size of files limited only by the available disk space
  4. No limit on the number of characters in a field
  5. Max of 255 characters in a field label





# My Hero: Mac Tools Deluxe

by Chester Peterson Jr.

Already the owner of SUM II and Norton Utilities, it was with a decided ho-hum that I looked over the Mac Tools Deluxe software package from Central Point that arrived for review.

I'd used its forebear, Copy II Mac, for several years 'way back in the distant Mac past, mostly for reliably getting applications moved to my hard disk. I also remember several times using the "Tools" portion to unlock or otherwise massage a file that wouldn't respond via the usual Finder manipulation.

Then I got SUM II as a bonus when I bought a drive unit. I routinely used its defragmenting and optimization features, but never had to resort to recovering any files with it.

With yet another disk drive I received Norton Utilities. Liking what I read about it and what I saw on-screen, it replaced SUM II on my hard drive. Again, I apparently was living right. Because, defragmenting and optimization were the only tasks I had to ask it to do.

In almost seven years of Mac usage—the first years with a Lisa 2/10 a.k.a. Mac XL—I never ever had to resort to trying to recover a lost file. Do you believe in coincidences? I don't.

Well, I didn't. But within a week of Mac Tools Deluxe hitting my post office box I really had a hard disk wreck. All of sudden, like overnight, two of the partitions on my Mac IIci's 100 MB hard disk

went bellyup. I couldn't open any of the files!

Sure, sure, I back up frequently. Only in this instance one of the partitions contained all the files for the spreadsheet template programs I market (there are 162 programs in the free catalog, by the way). And I'd made extensive changes to a half-dozen the day before *sans* backup due to limited time. Ouch!

No worry (well, not too much). I'd have the Norton Utilities Disk Doctor make a quick house call. Those two partitions would be functional in no time. While running Disk Doctor I got all sorts of messages decrying the state of my pair of partition volumes. I ran it again. And again. No success.

Next I fired up Apple's Disk First Aid that I keep on my hard disk. That, too, failed.

I then figured it was time to go to the bullpen for my relief utility, SUM II. To be fair, I had to reinstall the program, so its recovery mode was surely handicapped. Anyhow, the files in those two partition volumes still refused to open.

You bet I was getting a mite depressed at this point. Then I remembered the unopened Mac Tools Deluxe package resting atop my "To do" pile. I didn't have all that much hope, but I'd already spent so much time in a recovery effort, why not give it a try, I thought.

To make a long—but true—story somewhat shorter, Mac Tools Deluxe got the job done. It recovered and rendered every one of

those unopenable files functional again. I don't know how it did it, especially since the two more popular programs failed.

Anyway, I'm the kind of person who doesn't care if I have an internal combustion engine or a trio of healthy squirrels on a treadmill under my car's hood. As long as when I turn the ignition key it starts and runs well I don't care about the details.

A little later I sampled the program's defragmenting and optimization efforts. It seemed to work as fast as Norton Utilities while accomplishing these routine but necessary tasks.

MacTools Deluxe sells for \$129 and comes on three 800K diskettes. It's not copy protected. To run this utility all you need is a MacPlus with System 4.2 and Finder 6.0. It is MultiFinder compatible.

It easily has the thickest manual of any of the utilities, perhaps because the program is designed to accomplish more overall tasks in addition to the main jobs. One such example is the fast copy feature—activated by clicking on a rabbit icon.

Support comes in your choice of four modes, at your expense, by contacting the company through mail, fax, BBS, or phone. In addition, another toll call will provide you with update information.

For a complete and quite extensive comparison of all four utilities now available for the Mac, check the April, 1991, *MacUser* "Hard disk recovery". This article ranked Mac Tools Deluxe third behind Norton Utilities and SUM II, but ahead of 911 Utilities.

About MacTools Deluxe it concluded its performance in most corruption tests was unsatisfactory although it was superior in Erase Disk and Delete Files tests.

Okay, but I do know that only MacTools Deluxe worked for me in a dire time of need.





Is Mac Tools Deluxe now my utility of choice? To be candid, I haven't yet made a final decision. I want some more experience with it before I make the switch from Norton Utilities.

However, after saving all those files it certainly is in the fair-haired boy role and is getting its shot at being my primary utility.

**Features:**

Here are some of the main features of MacTools Deluxe:

Data recover—Disk recovery, undelete, file repair, and data protection.

Hard disk backup—Selective backups, setup files, tape support, disk/tape time estimate, and data compression up to 55 percent.

Disk optimization—defragmentation, media inspections, complete erase.

Disk partitioning—Disk organization, disk management, and password protection.

File locator DA—File locate and view and clip.

Data security—File encryption either as application or DA to DES standards.

Other—Folder tree display, fast copying/formatting, and view/edit.

**Information:**

Mac Tools Deluxe  
Central Point Software, Inc.  
Suite 200  
15220 NW Greenbrier Pkwy.  
Beaverton, Oregon 97006  
Technical support: 503-690-8080  
Tech support fax: 503-690-7133  
BBS: 503-690-6650  
Sales and information, customer service, update orders: 503-690-8090

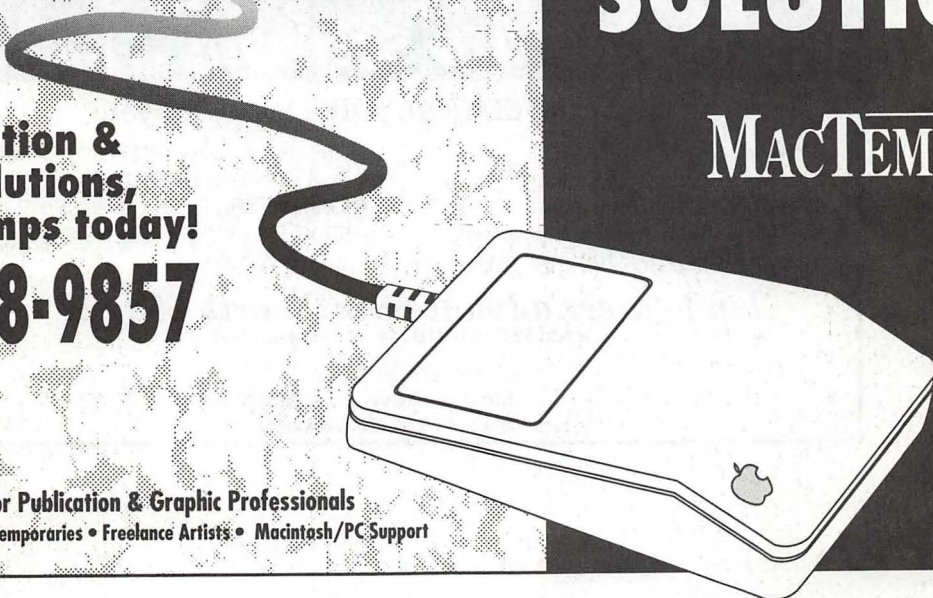
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# Paper Direct

by Lou Pastura

An offer recently showed up in the review box that I think is worth passing along. As we all grow as fledgling desktop publishers, we (ideally) learn about type selection, leading, color, page layout and design and all the details that go into making the final product as high quality and professional as possible. One area that seems to be neglected in the generally available books and classes is paper.

If you are on almost any Mac mailing list, you have probably gotten a copy of a catalog from a company called Paper Direct. If your reaction was anything like mine the first time you got the catalog you were overwhelmed by

the options and alternatives presented. To help eliminate some of the confusion, the company has come up with what is admittedly a smart marketing idea, but is also a big help to those of us with limited technical knowledge regarding the differences among various paper compositions, weights, textures, etc..

The offer is this: When you place your first order of at least \$30 the company will send you a Paper Kit and a Paper Selector. The Paper Kit consists of full size samples of each of the papers offered by the company. The Paper Selector is a set of trimmed samples (about 2 inches wide by 5-7 inches long—they vary)

arranged on a cord in a manner similar to the fabric swatches you see in furniture stores. The full size samples let you experiment with all different types, textures, weights and colors of paper to learn which produce the best results in different situations. The Paper Selector remains as a reminder and an easy-to-use guide that makes the catalog easier to use and understand.

If you prefer to "try before you buy" you can order the Paper Kit and Paper Selector for \$19.95. The \$19.95 will be credited to your first order of at least \$30.

If nothing else, the box full of samples comes in handy for small projects to which you want to add a special touch. It's worked for me on a number of occasions, and I've only had the box for a couple of weeks. 🍏

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Help with hardware

# PostScript Laser Tips

by Ambrose Liao

If you recently bought a PostScript laser printer, or are currently diligently saving for one, here are some useful tips that will help you get more out of your laser printer.

1) Buy more memory for your Mac so you can spool!

Spooling is a method of printing in the background while working with your Mac at the same time. Instead of tying your Mac up while the printer does its job, you can almost immediately get back to work.

Macintosh System software (versions 6.0.2 and above) comes with one of the best print spoolers available for your new laser (and the price can't be beat—it's free!). It's called PrintMonitor, and if you installed the full set of System software, it's already sitting in your System Folder on your hard drive. However, you must be running MultiFinder in order to use it. If you're running System 7.0, System 7.0 works in MultiFinder all the time, so skip to the next paragraph. In order to run MultiFinder, you must have more than one megabyte of RAM. Most Macs originally come with one megabyte, so get thee more memory!

To turn PrintMonitor on, go to the Chooser Desk Accessory under the Apple ( ) Menu, and click the Background Printing On button. (See Figure 1) If this option is unavailable, you are probably missing a file in your System Folder called "Backgrounder." Reinstall your System software and you'll be able to select Background Printing.

After you click the OK button in the Print dialog box, PrintMonitor will automatically launch and will run as an application under MultiFinder (Figure 2). You can see its window (which is

usually hidden) when you switch to it either via the Apple menu, or by clicking on the MultiFinder icons in the upper right hand corner of the menu bar. You can also set the Preferences under the File menu for PrintMonitor (Figures 3a & 3b next page) to show its window whenever PrintMonitor is working.

Hint: Even you PageMaker users out there can use PrintMonitor to spool. The trick is to hold down the Option Key when selecting the "Print" command.

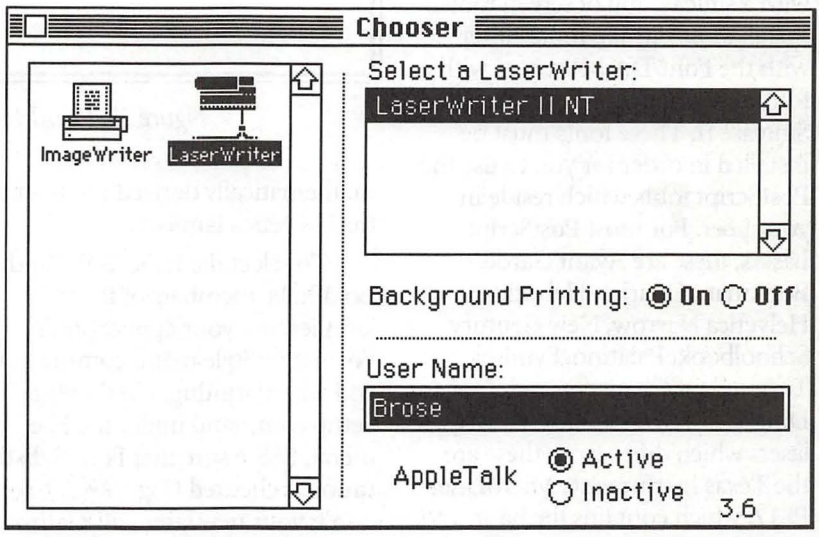


Figure 1. Chooser Window showing Background Printing button.

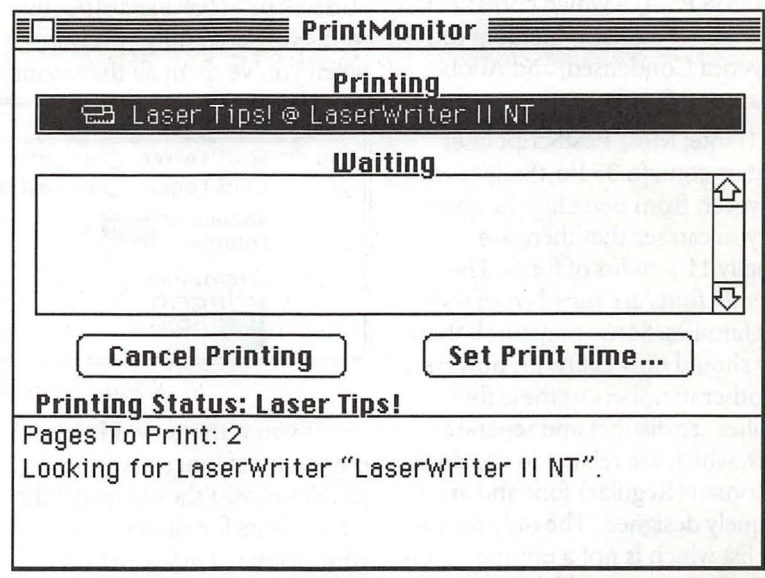


Figure 2. PrintMonitor



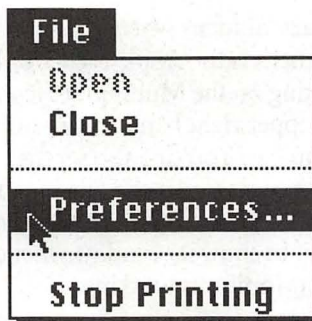


Figure 3a. PrintMonitors File Menu.

2) Install all of the bitmap/screen fonts for your new PostScript laser.

With your new laser printer, you should have received a floppy with a suitcase full of screen fonts. Install these bitmap fonts either with the Font/DA Mover, or with a font utility such as MasterJuggler or Suitcase II. These fonts must be installed in order for you to use the PostScript fonts which reside in your laser. For most PostScript Lasers, these are Avant Garde, Bookman, Courier, Helvetica, Helvetica Narrow, New Century Schoolbook, Palatino, Symbol, Times, Zapf Chancery, and Zapf Dingbats. Two notable PostScript lasers which differ from these are the Texas Instruments MicroLaser PS17, which contains the basic set of fonts (Helvetica, Courier, Symbol, and Times families), and the QMS PS-410 which contain all of the above and also includes the Helvetica Condensed, and Adobe Garamond families.

(Note: Most PostScript laser printers contain 35 PostScript fonts. However, from perusing the above list, you can see that there are actually 11 families of fonts. The other 24 fonts are members of the font families. Some may think that they should only claim 11, however, the other members of these font families are distinct and separate fonts, which are related to the Book, or Roman (Regular) font and are uniquely designed. The only font in that list which is not a unique font is Helvetica Narrow, which is a

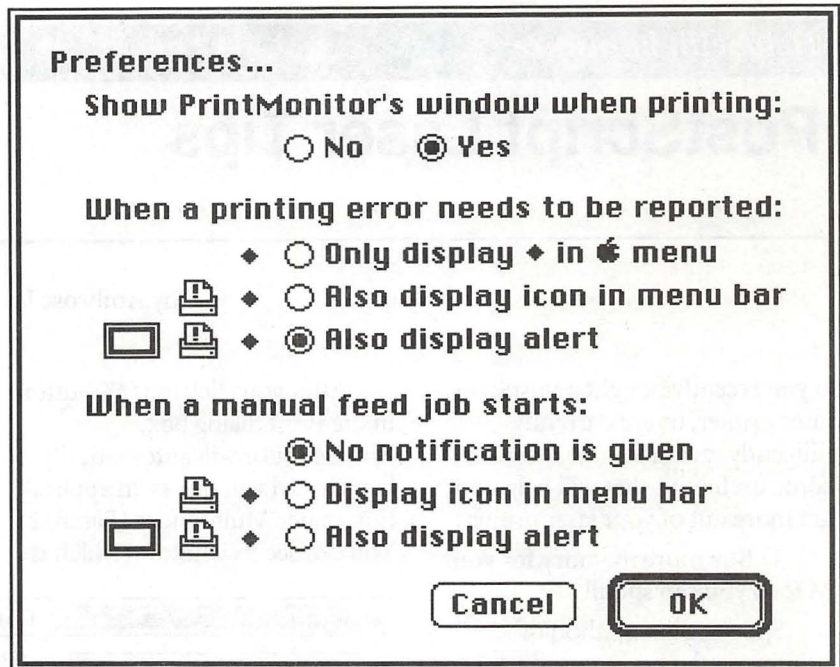


Figure 3b. PrintMonitor's Preferences window.

mathematically derived member of the Helvetica family.)

To select the Italic, Bold, and Bold Italic members of these families, use your application's Format or Style menu commands and when printing, use the Page Setup command under the File menu. Make sure that Font Substitution is checked (Figure 4). If you don't, your new laser will mathematically alter the font to approximate its requested shape, and will produce a less attractive font. Not something you want when you've spent all that money!

library in the Adobe Screen Fonts series. When all 35 screen font families are installed, your font menus will grow quite long and will seem rather disorganized (Figure 5 next page). This is because of the way Adobe chose to name their Bold, Bold Italic, and Italic members of the families. They insert their style initial in front of their regular names: "B", "BI", and "I" respectively. Despite this seeming clutter, you will have access to all 35 fonts directly, without the need for font substitution.

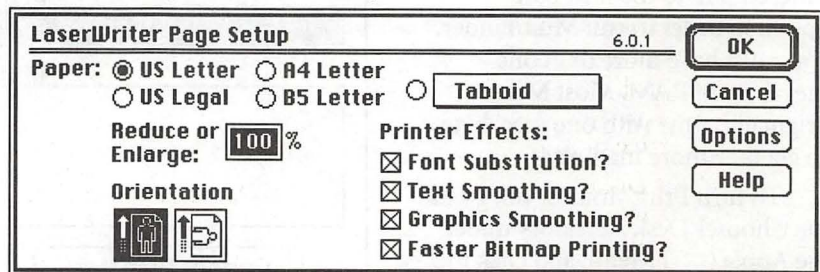


Figure 4. LaserWriter Page Setup window.

If you want to avoid the possibility of font substitution problems, you should install the screen fonts for all of the fonts in your printer. These can be purchased through the WAP disk

If the long and confused font list is intolerable to you, Adobe will gladly sell you a solution. It is called Adobe Type Reunion (ATR ≈\$40 mail order) which will greatly





Figure 5. Regular full font list.

reduce Font list clutter as in Figure 6. ATR creates a cascading submenu for fonts in the same family.

3) Disable the startup page!

Every time you turn on the laser, the printer will churn out a test page with some information which you probably already knew. This test page not only wastes paper (ecologically unhealthy), it also increments the page counter in your printer and shortens its life! It should be disabled. To do this you can use a utility program called Widgets from CE Software (Originally part of the Disktop package, but now part of the MockTools package ≈\$25). Widgets has many other functions besides the test page disabler. You can also use a freeware utility distributed by Adobe Systems called SendPS 1.21 which will let you download PostScript command files to your laser. SendPS 1.21 is available from bulletin board

systems and from the WAP Disk Library.

To disable the test page using SendPS, create a "text only" file in your word processor containing the following commands:

```
serverdict begin 0 exitserver
statusdict begin false setdostartpage
```

You can create a text only file in most word processors by using the "Save As..." command and specifying "Text Only." Give this file any name you wish. Then launch SendPS and download the text only file you just created. Restart your printer (SendPS also has a command to do this) and you'll notice no more startup page!

To reenble the test page, create a file containing the following commands and download this "text only" file.

```
serverdict begin 0 exitserver
statusdict begin true setdostartpage
```

Also in the MockTools package from CE Software, is a great Desk Accessory called LaserStatus. It puts up a small window along the bottom of the screen which can be invaluable if you want to track the status of your print job. (Figure 7 next page.) LaserStatus has similar

functions to SendPS (including the ability to download PostScript files), but is available conveniently as a DA.

The "Information..." button will give you a screen full of information about your laser (Figure 8 next page). LaserStatus also has a unique capability. It lets you define sets of fonts to download to your laser printer. Downloading often used fonts not normally resident in your printer will greatly increase the speed of printing documents containing those fonts. Downloading takes up precious printer memory however and should be done judiciously. Downloading is only recommended for lasers with at least 2 megs of RAM. If you download fonts often, LaserStatus can be invaluable.

4) Buy more PostScript fonts!

One of the greatest things about PostScript printers are the almost limitless selection of high quality fonts available. Adobe of course has a very large collection (700+ and growing) but there are many other font companies (ITC, the Font Factory, Casady and Greene, The Image Club, etc.) which have a tremendous variety. With the release of the Adobe Type 1 specs, many individuals using the newest PostScript font creators (Fontographer, and FontStudio) are able to create wonderful shareware fonts, some of which have been mentioned by our own Jim Donnelly in previous issues of the Journal. These fonts are definitely worth acquiring, and if you use them, worth the shareware fees.

Adobe also has come up with some very practical and relatively inexpensive font collections which

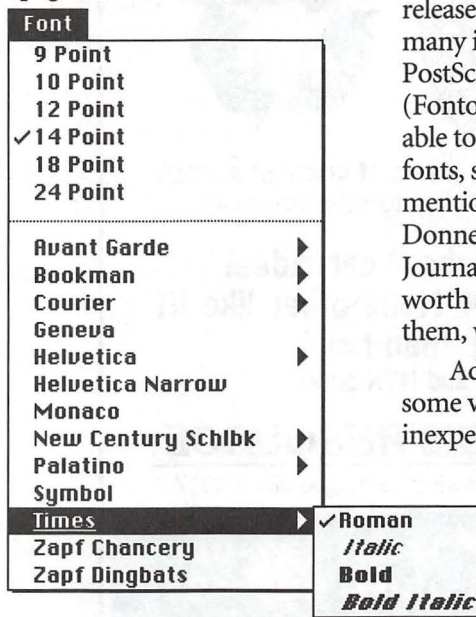


Figure 6. Adobe Type Reunion (ATR) in action.



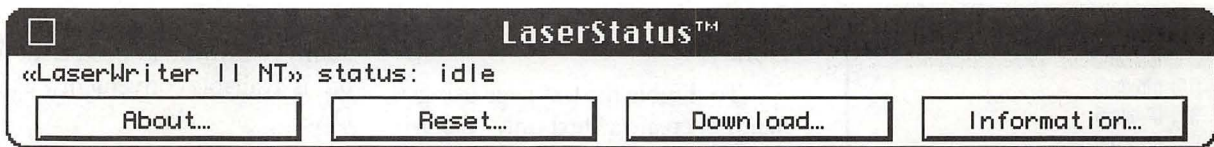


Figure 7. LaserStatus DA Window

are a selection of popular fonts bundled together at a greatly reduced price. My personal favorite is Adobe Type Set 3 which contains Six weights of Adobe Garamond: a very stylish and elegant font, Helvetica Light and Bold: to round out your Helvetica set, and Tekton: a great handwriting-like font.

*Ambrose is a full time musician and part time WAP office assistant. He is still known as the MacStud despite the fact that his System Folder is now down to ONLY 42 megabytes!*

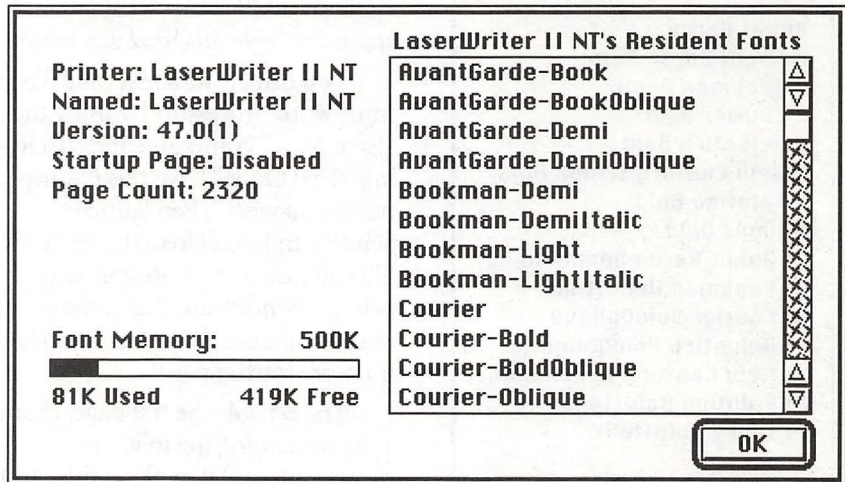
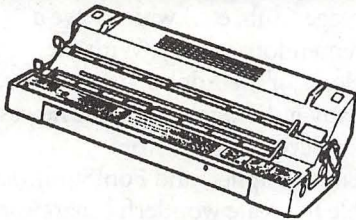


Figure 8. LaserStatus' Information Window.

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# Meeting Notices

**Excel SIG**—3rd Wednesday; WAP office, 7:30 PM.

**Fed SIG (Federal)**—3rd Wednesday; alternates between Falcon Training Center, 1745 Jefferson Davis Hwy., Suite 502, Crystal City, and Apple Fed. Sys. Office, 1892 Preston White Dr., Reston, VA, 7:30 PM. Call Jim Manley, tel.: (703) 490-1034, to confirm location.

**Frederick Slice**—2nd Saturday; at the library at 110 East Patrick Street, Frederick, MD, 10:00 AM.

**GameSIG**—1st Thursday; Please Note: July meeting is on July 11th; WAP office, 7:30 PM.

**HyperCard SIG**—currently dormant.

**HyperTALK SIG**—3rd Wednesday; at the Fairlington Community Center, 3300 South Stafford Street, Arlington, VA at 7:30 PM.

**Mac Programmers**—1st Wednesday; WAP office, 7:30 PM. Please Note: call WAP office to confirm July meeting date.

**Macintosh Databases SIG**—Second Wednesday each month of 1991, 7:15 PM start (until about 9:30 or 10:15 PM); at the demonstration room of Innovative Systems Solutions, Inc., Suite 300, 3702 Pender Drive, Fairfax, Virginia; just around the corner from the interchange of U.S. Route 50 and U.S. Interstate 66; absolutely free parking.

**PI-SIG (Programmer's Interface)**—1st Monday, 7:00 PM (except for Monday holidays). Call Ted Meyer, tel.: (703) 893-6845, for date, time and location.

**StockSIG**—2nd Thursday; WAP office, 8:00 PM.

**Telecomm SIG**—currently unscheduled.

Notice: Anyone having information on changes to the WAP calendar is requested to call the Calendar Editor, Andy Shaw, at home, tel.: (301) 595-2539, in Beltsville, MD, or Nancy Pochecko at the WAP office, tel.: (301) 654-8060, in Bethesda, MD. E-mail can be left at: Andy Shaw, Twilight Clone BBS in Silver Spring, MD.

## August

SU	MO	TU	W	TH	FR	SA
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

# AUGUST

1 Thursday @7:00 PM 7:30 PM	Columbia Slice ..... Columbia GameSIG ..... office
.	Editorial Deadline—September Issue
.	Ad Copy Deadline—September Issue
5 Monday 7:00 PM	PI-SIG ..... call
7 Wednesday 7:30 PM 7:30 PM	dPub SIG ..... PEPCO Mac Programmers ..... office
8 Thursday 7:30 PM 8:00 PM	Board of Dir.'s Mtng. .... call office StockSIG ..... office
10 Saturday 9:00 AM 9:30 AM	Annapolis Slice ..... Severna Park Frederick Slice ..... Frederick
14 Wednesday 7:15 PM	Mac Databases SIG ..... ISS, Inc (Fairfax)
15 Thursday 7:30 PM	AV SIG ..... office
21 Wednesday 7:30 PM 7:30 PM 7:30 PM	Excel SIG ..... office Fed SIG ..... call HyperTALK SIG ..... call
22 Thursday 7:30 PM	Ed SIG ..... call office
23 Friday	Writers' Deadline—October Issue
.	Ad Space Deadline—October Issue
24 Saturday 8:00 AM 9:00 AM	AppleWorks SIG ..... before WAP Mtng. WAP General Mtng. .... call office
26 Monday 7:00 PM	Apple IIGS SIG ..... McLean (call)
28 Wednesday 7:30 PM	Apple III SIG ..... office
30 Friday	Editorial Deadline—October Issue
.	Ad Copy Deadline—October Issue



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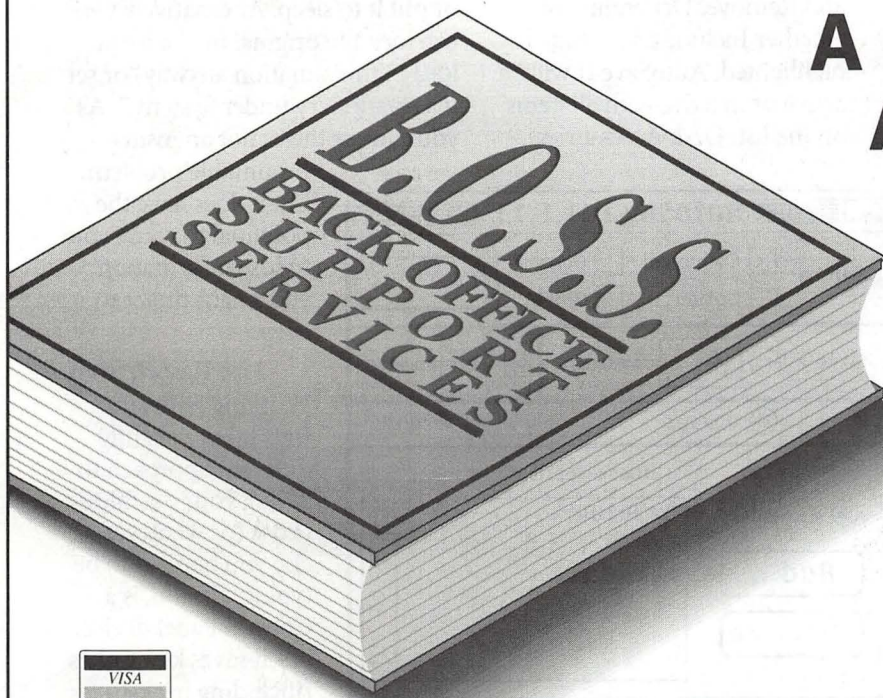
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# Lost and Found

by Lou Pastura

Sooner or later, you're going to lose an important piece of data when you have no time or patience to cope with the problem by reconstructing your work of the last few hours or days. Any number of things can cause this data loss. You may have a temporary power loss or a truly spectacular hard disk crash, or you may just forget a file name. The first line of defense against corrupted data is, of course, a current backup. OK, everyone who backs up as often as she/he should, raise your hand. Hmm, not many hands out there. Let's face it, a regular backup is a boring chore that adds nothing to immediate productivity, and therefore doesn't always get done when it should.

This article describes three software packages designed to help you minimize your losses: AutoSave II, Last Resort and On Location.

AutoSave II, from Magic Software, is a Control Panel device installed by dragging the application into the System Folder on your hard disk and restarting your computer. It works by sending a Command-S (or other Command—see Figure 1) at a specified interval so that your operating program will save the contents of the current file to the disk. Once installed, AutoSave II is accessed from the Control Panel and looks like Figure 1.

The options available are as follows:

- You can select any command to be sent to activate the save functions. Most programs use Command-S.

- The interval between saves can be set from 1 to 99 minutes.
- The startup icon can be enabled or disabled.
- For compatibility with screen savers and to avoid unnecessary saves AutoSave II can be set to save only if there has been keyboard or mouse activity since the last save. This prevents AutoSave II from needlessly waking up your screen saver.
- You can also identify approximately 50 applications under which AutoSave II will or will not work, using the Include or Exclude button along with Add and Remove. Depending on whether Include or Exclude is highlighted, AutoSave II will be active or inactive with all items on the list. Desk Accessories

cannot be individually Included or Excluded, although they can be treated as a group by adding the DA Handler to the Include/Exclude list.

- AutoSave II can be turned permanently on or off, or the Sleep function can be activated. This will turn AutoSave off until a Restart.

AutoSave II is incompatible with MacPaint 2.0, Microsoft Word 1.05, QuicKeys, Tempo Tools and with any communications program that uses Command-S to replace Control-S. These programs can be managed by adding them to the Exclude list.

One possible problem with AutoSave is that it will save what you're working on whether you want it to or not. This means that if you've loaded a file and want to be sure to retain the original, unedited version you must remember to immediately rename the new file using the Save As function or must remember to turn AutoSave II off or put it to sleep. Alternatively you can lock the original file ( a good idea in this situation anyway) or set it as Stationery under System 7. As you can see this is not an insur-

mountable problem, but it does have the potential to cause you to lose information you might prefer to keep.

Last Resort, from Working Software Inc., takes a slightly different approach to saving your deathless prose (or whatever else you happen to be typing). It, too, is a Control Panel device, but it saves keystrokes (including backspaces and command keys) to a separate file that is named with the current date and time (e.g., Wed, May 29,

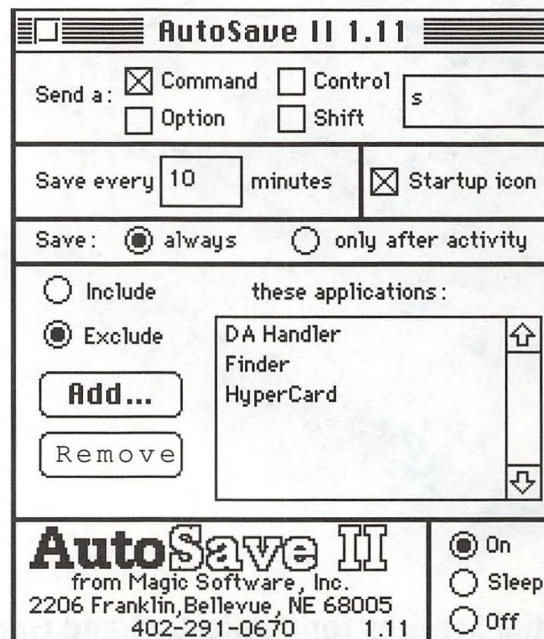


Figure 1





Figure 2

1991 12 56 22 PM) each time you start your computer. The Control Panel interface is a simple one (see Figure 2) that lets you Pause or Resume Last Resort's activity and set the number of keystrokes between saves and the seconds of inactivity before a save.

The files created under Last Resort are standard text files that can be viewed and edited using any word processor.

The advantage of this package is its ability to save anything you've done (except for formatting and graphics) in a way that enables you to find it relatively easily by date and time. This advantage, however, can also be a problem. To reconstruct a file that you worked on during a number of different sessions with deletes, cuts and pastes might be more difficult than recomposing and retyping from scratch. Another item to consider is the need to back up and delete the Last Resort files from your hard disk on a regular basis, not an insurmountable task, but

one that will need to be done regularly for obvious reasons.

All in all, both of these programs are well designed, easy to use and reasonably priced. They both operate unobtrusively in the background and in some instances each could be a real life saver. Both applications appeared to work under System 7 with no problems.

**On Location.** If your hard drive looks anything like mine, there's yet another way you can lose valuable data, i.e., you simply lose it—it's *there*, but you can't *find* it! If this describes your situation, On Location from ON Technology, Inc. is for you.

On Location is a Desk Accessory that very quickly locates files by name, part of a file name or by words in the files. It accomplishes this bit of magic by building an index of filenames and of all the text contained in all the files, and keeping it up to date automatically. The index typically takes up space equivalent to about 2% of the space needed for the files.

The following is a summary of On Location's functions:

- Finds files by name or part of a name
- Finds files by text contained within them
- Once you've found the file, enables viewing and copying text without opening the applications, including actual

fonts and styles for most word processors

- Moves, copies, renames and deletes files
- Opens files and applications

The installation is not as straightforward as the two previously discussed programs, but it's not difficult either. The manual is very clearly written and includes detailed illustrations that make everything as clear as can be

Bottom line—if you need the functions this program performs, buy it. It is about as well designed and easy to use a package as it can be. It does what it's supposed to do with quiet efficiency.

#### AutoSave II

System Requirements: Any Macintosh, System 4.2 or higher.

Magic Software, Inc.  
2239 Franklin Street  
Bellevue, NE 68005  
(800)342-6243

Price: \$49.95 (Suggested Retail) \$28 (Mail Order—Mac Connection, etc.)

#### Last Resort

System Requirements: Mac Plus or better, System 6.0.2 or higher.

Working Software, Inc.  
P.O. Box 1844-1844  
Santa Cruz, CA 95061  
(408)423-5696

Price: \$49.95 (Direct from the company. Will be discounted mail order soon. Street price unknown at press time.)

#### On Location

System Requirements: Mac Plus or better with 1 Meg RAM, System 6 or higher.

On Technology, Inc.  
One Cambridge Center  
Cambridge, MA 02142-9834  
(617)225-2545

Price: \$129.95 (Suggested Retail) \$75 (Mail Order—Mac Connection, etc.)





# Publish It! Easy

by Sheila Holzberger

*Publish It! Easy* by Timeworks is exactly what it says — an easy way to publish information. A word processor, drawing program, and page layout program in one, *Publish It! Easy* has many of the features found in more complex and more expensive software programs.

To start with, *Publish It! Easy* is simple to use. The manual is well-organized and informative, with comprehensive descriptions of every feature. The introduction talks about the new features in version 2.0 of *Publish It! Easy*, chapter 2 provides an overview of the program, and chapter 3 offers a working tutorial that shows how to lay out a sample newsletter. Using straightforward instructions and pictorial representations, the tutorial easily guides you through the basic steps of newsletter layout in the space of 45 minutes or less! Following this chapter is a very good explanation of the five steps of desktop publishing. Novice and experienced designers alike will find something of interest here, especially the handy design tips.

Section II of the manual provides more in-depth information concerning the program palettes and menus, as well as instructions for importing text and graphics from other programs, and advanced techniques and shortcuts. For someone who is used to the long-winded and complicated manuals that come with Aldus Pagemaker and Quark Express, I found it refreshing to have only one simple manual to deal with. To be honest, it's the first time I read

through an entire manual before playing with a software program.

Once I did get into the program, though, I couldn't see why I had waited even the two hours it took me to look through the manual. The program itself is just about as well thought out and arranged as the manual. It has a nice clean look to it, and is very easy to get into and out of. As in Microsoft Word, opening the program automatically opens a new document, complete with a tools palette that has everything you need to create text, draw pictures, and layout publications.

For those of you familiar with other page layout programs, there is a pointer tool for moving objects, a text insertion tool for typing text, and a cropping tool for cropping imported graphics. There is also a text frame tool for creating text frames, a graphics frame tool for creating graphics frames, and a linking tool for specifying how you want text frames linked together. The linking tool is especially helpful in long newsletters where stories skip from column to column and page to page. By linking text, you can change the format of your columns and pages, and even delete pages, and your text will automatically reformat. In Pagemaker, if you delete a page, you have to close up your text windows first or you'll lose the text. Here, as long as you've selected linked text, the program automatically saves the text and reflows it whenever you make a change.

Another handy feature helpful when producing newsletters is the special text feature. With this feature, you can create text frames at the beginning and end of columns and specify "continued on" and "continued from" text. Then, the program inserts the correct page numbers, no matter how often you change the location of the text. The program keeps track so you can spend your time on the design.

In addition to the main tool palette, there is an expanded palette which includes three status boxes that tell you the current pen size (width), pen pattern, and fill pattern. There are also six drawing boxes (oval, rectangle, line, polyline, rounded rectangle, and freehand), and six painting boxes (flood fill, spray can, pencil, eraser, paintbrush, and region marquee) similar to those found in MacDraw.

The tools box can be shortened to include only the six text boxes or expanded to include all the graphics boxes, and the box itself can be moved anywhere on the page. You also have the option of using a wide tool palette that is very convenient if you want to stick it up at the top of the page out of the way yet still have easy access to it.

While you can create text in *Publish It! Easy*, I wouldn't recommend it for more than headlines or one-page flyers. It does have some nice word processing functions, like interactive spell check, thesaurus, and find and replace, but it isn't as quick as a dedicated word processor. Because of its many graphics tools, however, it can be used to draw and paint pictures. And it is very good at importing text and graphics from other programs. Text can be imported from MacWrite, Microsoft Word, Microsoft Works, Word Perfect, Write Now, and any text-only document. Graphics can be imported as bitmap (MacPaint), object-oriented (MacDraw, MacDraft, and Canvas), and EPS





(Adobe Illustrator and Aldus Freehand).

When importing text, you have the option of placing text in an existing frame, placing it in a new frame, pasting it into an existing story, or replacing an entire story. You can also tell the program to convert quotes, hyphenate, and kern text. There is even an option for exporting text.

As you are laying out your document, you can display it in a number of different sizes and in different views. Sizes include actual, half, double, size to fit, and size to fit across. View includes actual page, facing page (where you see pages side by side), and thumbnails (where you see a reduced version of up to 12 pages side by side at one time). The thumbnails view is especially helpful when you want to see the continuous design of a 12-page newsletter. In one glance, it lets you check to make sure you've stayed consistent and included everything you need to include. You also have the option of displaying your text in expert editing mode so that you can see tabs and carriage returns. And if you're placing an object, you have the ability to specify the exact location through a dialog box that sets true x and y coordinates.

In addition to the standard menus and submenus at the top of the program, *Publish It! Easy* also includes several palettes that allow you to quickly and easily access a variety of functions including text specification, character attributes, and spell check. Using the columns library, for example, you can click on text to change it to column (body text) style or headline style, you can set the number of columns you want across the page, and you can add text frames, and it will automatically compute the appropriate sizes and grids.

*Publish It! Easy* has several nice features that are similar to those in

other page layout programs. For example, I like the ability to quickly go to any page I want just by clicking on an icon at the bottom of the page. I also like the ability to use quick keys to access functions, and to revert to my last saved version in case I change my mind.

*Publish It! Easy* also has several nice features that are not necessarily found in other page layout programs. For example, *Publish It! Easy* allows you to have several documents open at the same time so that you can quickly cut and paste between them. And when specifying type, you can automatically see the changes to the type size and style. *Publish It! Easy* also allows you to vertically justify objects and text, to rotate objects and text to any degree, to align objects, and to lock objects so they can't be moved, resized, or deleted. In addition, when printing, *Publish It! Easy* gives you the option of choosing book collating order, which automatically prints facing pages in the correct order for printing (saving you money that your printer would have charged you to strip them in the correct order). Other really nice

features are the ability to apply shading and patterns to text, within this program, and to change the case of selected text — to all upper, all lower, or initial caps.

At the end of the manual, in appendix C, there is some nice artwork that you can use in your publications until you get the hang of using the graphics tools. And in Appendix D, there are some sample layouts (templates) for you to use. The business sets are especially nice. I would recommend them to anyone.

All in all, I found *Publish It! Easy* a pleasure to play with. And I would find it very helpful to work with. Currently, I use Aldus Pagemaker for all my designing and page layout. But, if I didn't already have it, and I was shopping around, I'd definitely give *Publish It! Easy* a thorough look-see. At \$200, it's a lot cheaper than many of the other programs, but it has several of the same features. I have to admit, though, that I miss my style sheets. Other than that I thought it was a good, easy-to-use page layout program, particularly for people new to design

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# OmniPage 2.12

by Frank Potter

One of the dreams, early on in the computer world, was of a computer and program that would effortlessly allow one to convert a sea of text to a format that the computer could recognize and deal with. The term used to describe the process is "Optical Character Recognition," or OCR, neither endearing nor euphonious, but easy enough to remember.

OmniPage, by Caere, was one of the first serious OCR programs for the Macintosh—it may in fact have been the first, but I haven't done the research that allows me to do more than suggest it. In any case, the program soon became recognized as perhaps the easiest, most accurate and fastest OCR program available at less than mind-blowing cost. Among those with whom we have spoken about the subject, and to whom OCR technology is of more than passing interest, it is still considered the leader.

Its major shortcoming, at least in the early days of expensive memory, is that it requires you to have at least 4MB of RAM available for the program. That used to be a significant consideration; for many, given the rapid expansion of computers using large amounts of memory, the significant decrease in costs, and the availability of techniques and tricks to make the computer believe that adequate memory is available (such as Virtual Memory), this consideration seems to have dwindled in importance.

## How does it work?

OmniPage (as is the case with most OCR programs today) will work with most any scanner that you can introduce to your Macintosh. The first thing that you must do when starting up the program is not to start it up at all, but to turn on your scanner. That done, you then call up the program and look carefully at the menu bar.

baffled a number of people. Apparently these connections can easily come unstuck, so be warned. . .) While I am at it, I might also mention the importance of having a CLEAN glass plate on your scanner. If you have a flat-bed scanner, clean it well. It will pay off, I promise you—if you have a sheet-fed scanner, I guess you just pray a lot.

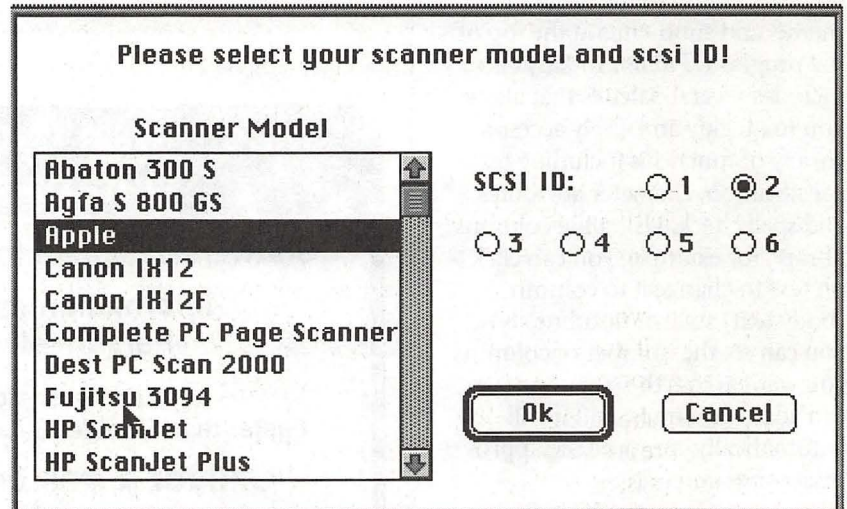
At this point, it is probably a good idea to call up the Scan information dialogue box, in which you inform the program what it will be looking at (multiple columns, multiple pages and so forth). Brightness is, as it turns out, an important factor in improving your error rate, about which more anon. For now, just believe it.

That done, just hit Quick Scan or Command-M. OmniPage now



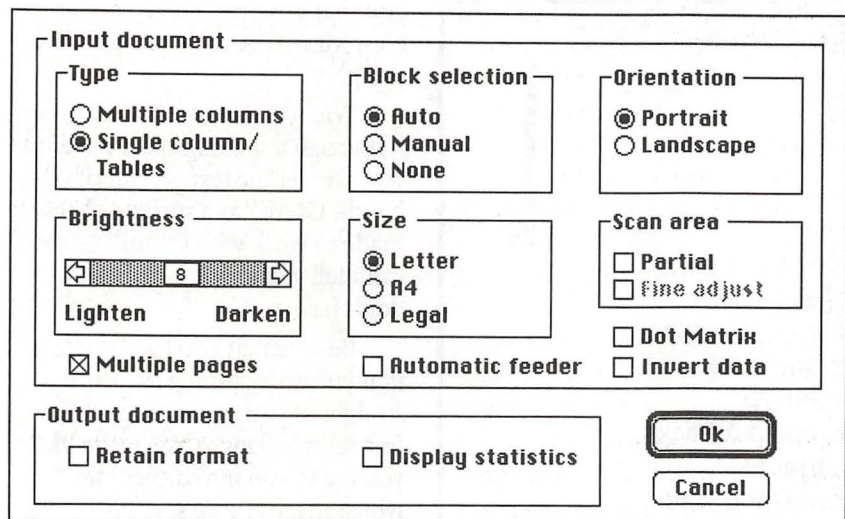
You now select the Scanner/Interface option, and identify the kind of scanner you will be using and its SCSI address. (I am assuming, Gentle Reader, that you have already made sure that all the cable connections are tight and secure. Not to laugh—this has frequently

takes over and scans the document and then shows you what it has seen. It will now, more or less rapidly, depending on your computer, create a text file and begin to check it out. While all this is going on, you will see a grayed-out



Scanner dialogue box





Text dialog box

representation of what it is thinking about at the time, followed by a blacked-out representation of what it thinks it has seen as text.

When all this activity is over, you will see on the screen, in the form of a Transitional Text Editor format, the text read by the program. You can edit this if you like, or you can wait until you get it into a more congenial format. I suggest the latter.

If you have more pages to scan, and if you have checked the Multiple Pages box, get on with it (although it is not such a bad idea to do this job in small (1-8 page) chunks in case of an occasional bomb, which can happen). When you reach a convenient stopping point, tell it that you want to save the file. You will then be presented with a Font/DA mover kind of dialog box, identifying the kind of format in which you want your text to be saved. You can, if you wish, and are feeling nervous about the whole thing, save it as a different file, in a different format.

That's really about all there is to it. Of course, there is more—but then, there always is, no?

### Scanning Images

You can also save images in OmniPage for later text recognition or for use as a graphic. You will not be at all surprised to learn that you do this by selecting Scan or Quick Scan under the Image item on the menu. When it is all finished, it will allow you to Save it as a compressed or uncompressed TIFF file.

Much of this, of course, you can also do with whatever scanning software you have accumulated, usually with the scanner that you bought. Nothing new here, except

that it can be useful to scan text images when you are in a hurry and then to convert them to text files at your leisure, or what passes for leisure these hectic days.

If you are going to scan a photograph in OmniPage, you will probably want to select the "half-tone fattening" option, and if you require high resolution, you will want to select "half-tone spiral." But if you do, be aware that you will not be able to use OmniPage to recognize text in that file. What you get with one hand, you lose in the other. . . .

### Text Options

The various options shown in the text dialog can help significantly in the recognition process. Lightening can help you deal with heavy or thick characters, and darkening will help with thin images or glossy paper. If you only want to look at part of a page, you will want to tell it so, by checking the Manual Block selection radio button, or the Partial Scan area box. OmniPage will also recognize text in Landscape Mode, which is quite remarkable, when you think about it. But you need to tell it to look sideways, first.

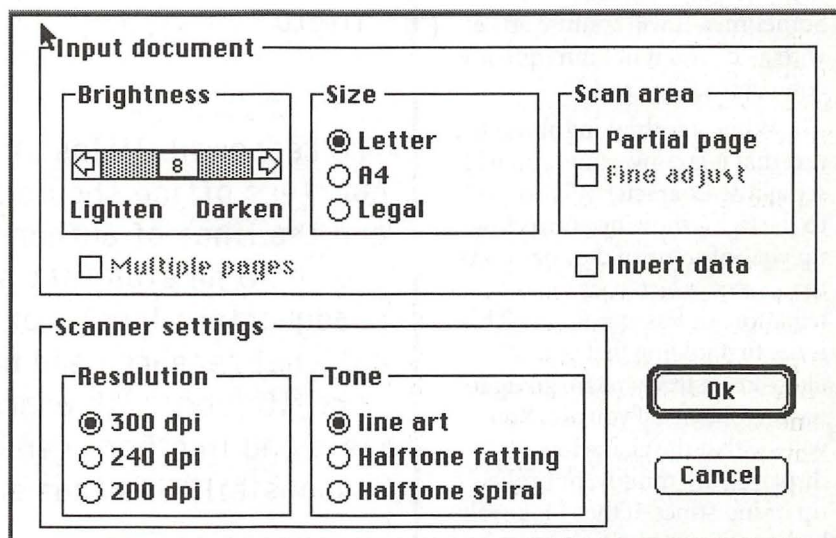


Image dialog box





## Inventing National Foresight

### What Is Foresight?

An ability and a willingness to engage in serious national foresight suggests Mark Twain's remark about the weather: "Everyone talks about it, but nobody does anything about it." (A statement that no longer appears to be accurate, as it happens.) Books have been written about the subject, conferences held, workshops convened, and an occasional tentative experiment has been undertaken. But we have just talked about the concept—we have never actually done it.

Successfully scanned text

### Does It Ever Have Problems?

Sure it has problems. It doesn't much like small (9-point or less) characters, some fonts, or bad copy. OmniPage claims a success rate of 99%, which doesn't sound bad, and isn't, except that this means perhaps as many as 5-8 errors per page, even at that high success rate. It will usually, but not always, tell you that it has found an unrecognizable character by displaying a tilde (~). Sometimes, it will confuse an "e" with a "c" and it not infrequently confuses "s," "g" and "8."

While it is thinking about the text that it is converting, you will see a little Character Window off to the right, showing you a close-up view of some of the characters that it sees, selected, as far as I can tell, more or less at random. This is the first inkling that you are likely to get that you are going to have problems, if you are. You will see that the characters displayed are muddy, or broken up or indistinct. If they look really bad, you may want to interrupt

the whole process, and go back and change some of your basic settings.

The other way that you will know that life is about to become difficult is if it takes a while to work its way down the page. Generally speaking, the quicker it is at doing its work, the happier you will be with the results. If it takes a very long time, be prepared to see a page that is mostly tildes. This will tell

Tran~s of Re~ ar~  
~iliyto

The responsibilities of the sanctuary headquarters office should be clearly established, and the lines of authority should be clearly drawn. One step that should be taken at the headquarters level would be to bring in national research and education coordinators, to work with appropriate people in the field and in other agencies as well. Specific responsibilities that should be assigned to

Not so successfully scanned text

you that it is time to get a better copy, or maybe to forget the whole thing.

You will therefore, want to run it through a spelling checker before you ever let the text get out of your hands. Caere has a spelling checker made to work with OmniPage, but I can't tell you about it because I don't have it.

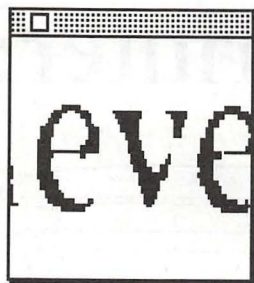
Be sure that you have the text that you are scanning as nearly straight as you can manage—the further it is skewed, the more likely you are to run into difficulties, which means more spelling errors, which means more time cleaning up the final document.

### Dot-matrix text

For a long time, the general rule is that if you have text produced by a dot-matrix printer (remember text printed in Draft Mode on the ImageWriter), it was just a real good idea to find someone to type it out again. No longer. Caere has produced a program to go along with OmniPage, called OmniDraft.

You don't need it for all text produced by a dot-matrix printer: if it was produced by a 24-pin (can anybody say "Apple LQ?") or in





Character window

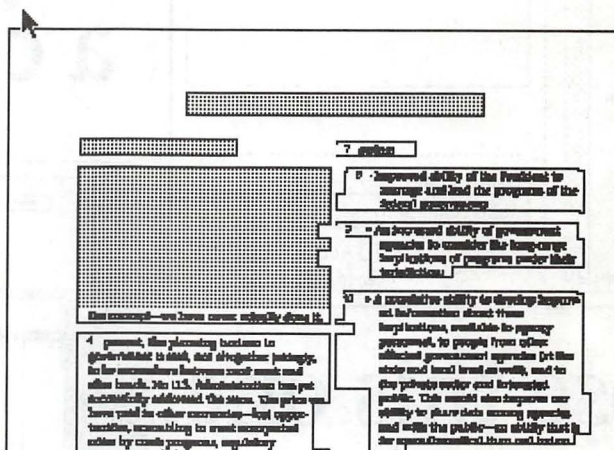
condensed pitch, OmniPage may handle it fine. But if not, OmniDraft may do the job for you.

### In balance

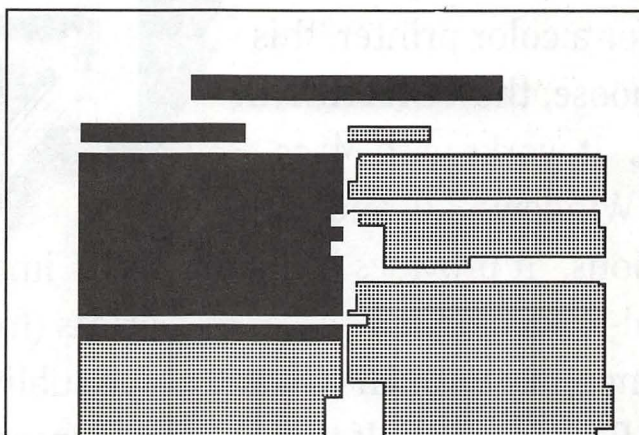
If you need an OCR program, OmniPage is certainly one that you should look at carefully. Unlike many of its competitors, you will not have to train it to recognize each character in a new font, which is A Good Thing. (On the other hand, if you generally are in the position of having to translate documents all using a particular typeface, one of the programs that can be used in this way may be precisely what you need.

The program has saved me considerable time, trouble and expense. I have been unhappy with the results from time to time, not because it didn't work properly, but because it didn't work properly enough, given the rotten copy that it had to cope with. But that will be the case for any OCR program. It does have online help, and the manuals are clear and adequate; the index is marginal, but useful.

It will—get this—handle text in eleven languages. Which is to say that if you have to deal with umlauts, circumflexes, accents grave or what-have-you), OmniPage may not even pause for breath in the process. The Scandinavian languages—most European languages—even Gaelic; OmniPage won't whimper. If this is an important element to you, you will want to check to see if your particular



Text scan—Stage 1

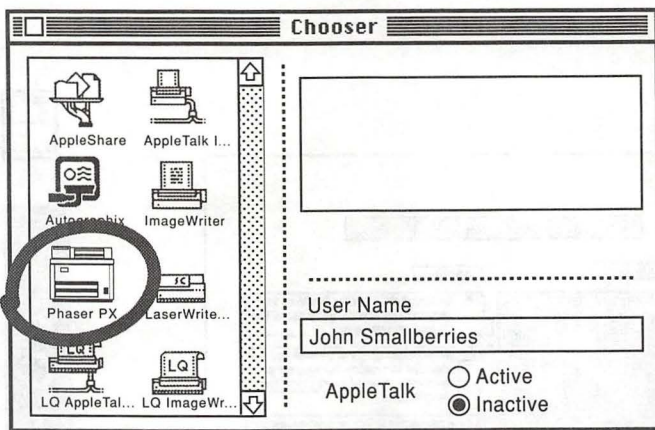


Text scan—Stage 2

situation is covered. It will not, as of this writing, deal with Russian, Eastern European languages such as Czech or Hungarian (but then who can?). But still, this can be a major time and trouble saver, if you happen to need it.

OmniPage  
Caere Corporation  
100 Cooper Court  
Los Gatos, CA 95030  
(408) 395-7000  
Mail-order price \$495





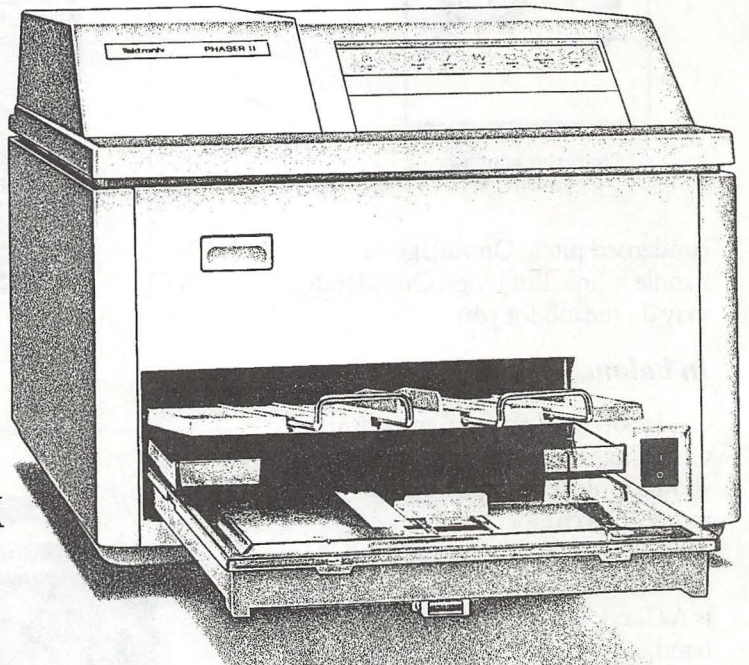
# Trying to choose a color printer?

## Choose this one.

Some decisions are tougher to make than others. If you're looking for a color printer, this is the one to choose, the **TEKTRONIX PHASER II PX**. It works with Macs, with PCs, with Windows 3.0, and with UNIX workstations. It provides brilliant 300 dpi thermal-wax color, it's PostScript-compatible with HP-GL and it's licensed by Pantone, Inc. If this sounds good to you, come by Executive Presentations. You'll like what you see even more.

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THE COMPUTER GRAPHICS SERVICE BUREAU

# (301) 530-3679



# War Games

by Reid Hutchinson

03 Jun 42

From: USS Wahoo  
To: COMSUBPAC  
Sub: ACTION REPORT

- 0030 Radar reports surface contact with large target bearing 320, course 90, range 15,000 yards.
- 0045 Bridge reports many targets with at least one carrier, bearing 270, course 110, range 13,500 yards.
- 0110 Target(s) visually identified as:
  - Kaga Class Carrier (1)
  - Yamamoto Class Battleship (1)
  - Myoko Class Cruiser (2)
  - Fabuki Class Destroyer (2)
  - Akizuki Class Destroyer (2)
- 0145 Target Data Computer (TDC) shows target carrier bearing 90, course 90, range 2500 yards, speed 17 knots. Fired six fish with 3 degree spread. Dive. Rig for depth charges and silent running.
- 0146 Sound reports premature explosion of 1 fish (magnetic detonator?). High speed screw noises.
- 0150 Sound reports four torpedo explosions, with one dud. Target screws slowing down. High speed screws closing.
- 0151 Target screws stopped. Destroyers pinging.
- 0152 Depth charge attack, 2 close hits. Damage control reports

- flooding in aft torpedo room, fuel tank leaking, deck gun destroyed. All Stop. Released debris.
- 0230 Evaded destroyer search pattern, flooding controlled, shoring in progress.
- 0240 Periscope depth, destroyers searching at 5000 yards, target at 3000 yards, burning brightly, dead in water. Fired four more fish, dived to 250 feet, speed 2 knots. Sound reports five explosions and target has disappeared from screen. Scratch one flattop!

Welcome to *Silent Service II* (MicroProse, IBM, 512K RAM but operates better with 640, CGA, EGA, VGA), the updated version of the original classic. I realize this is a game for the IBM, but it is an *outstanding* game and we are GameSIG! (Besides, you should be able to play it on *some* Apple product or other with the appropriate add-ons.)

This version has all the flair of the original with additional highlights. The most enjoyable addition is the use of Capital Ships (Aircraft Carriers and Battleships). The old favorites are still there (Tankers, Large and Small Freighters and, of course, Destroyers). The beauty of the game is the 256 color graphics available with the VGA monitor (although the 16 color EGA version is still excellent). The targets appear vividly in various hues of gray with wakes and smoke, except at night

when the targets appear in silhouette against an azure sky.

An additional enhancement is that besides having single battles and war patrols, you can have a war career, starting from 07 December 1941 and ending on 15 August 1945 (VJ Day). You can choose your submarine from nine different classes, from the "S" Class (launched in 1918) up to the Tench Class (launched July 1944), and update to a newer construction boat at a later date. Also, you can choose from the types of torpedoes available during that time period (steam, electric types I and II), and between accurate torpedoes or historical ones (magnetic failures, contact exploder failures, and prematures—all the items that plagued America's Silent Service during the course of the war). You are shown a map of the Pacific and after selecting a base you start your patrol. Historical highlights will pop up on the map on the dates they occurred, and targets may be found in areas of action. For example, in the slot around Guadalcanal between August 42 and February 43, there were plenty of targets for night action, as the Japanese were resupplying their forces.

One problem with the game: if you save during a night action, say 0230, and then restart it later, the time will be 1600 in broad daylight. However, this is the only inconvenience I found, and it was not troublesome.

Overall, an outstanding game with excellent documentation. Highly recommended!

MicroProse  
180 Lakefront Drive  
Hunt Valley, MD 21030  
(301) 771-1151





# On the Trail of the Apple III

by David Ottalini  
Apple II SIG Co-Chairman

WHEW!

How many months has it been? It's seemed like more than a few that I've been working to complete this little project to go back through our PD library and e-x-p-a-n-d the listings a bit. Actually more than just a bit. Take a look now at the listing for our New Member Disk (3INF-01):

PDS NAME: WAP III SIG PD Catalog

DISK ID#: 3INF-01 SUBJECT: Information

BOOTABLE?: Bootable  
DISK SIZE: DS 5.25 OS: SOS

DESCRIPTION: Information about all the Public Domain disks offered

-: by Washington Apple Pi's III SIG. Files on this disk can be read

-: or printed using the included Menu.Maker program, or with any

-: Apple III word processing program. An Appleworks/3EZ Pieces Data

-: Base version is also included.

-: Categories include: Accounting; AW/3EZ Pieces Templates; Business Basic;

-: Games; Graphics; Information; Miscellaneous; Pascal; Repairs;

-: Telecommunications; Utilities and Word Processing. (Check the

-: back of the WAP Journal for updates.)

-: On side one:

-: A3.CABLES : Information about printer cables for your III.

-: AN.A3.POEM : You have to read it to appreciate it.

-: EZP.TIP : Tips that will help you get more out of 3EZ Pieces.

-: READ.ME.FIRST : An introduction to the New Member Disk.

-: SIG.HISTORY : A brief history of the WAP III Special Interest Group.

-: WAP.INFO : Some basic information about Washington Apple Pi.

-: WAP.SIG.PD : Some basic information about our PD library and some

-: suggestions about what initial disks you should have.

-:

-: On side two:

-: A3.HELPS1 (subdirectory)

-: :Battery Backup : How to put one in your Apple III

-: :CURSOR.MOD : Modify the Cursor III Joystick to play A ][

-: games.

-: :GRAB.BAG : A grab bag of tips from a variety of sources.

-: :SERIAL.CABLE : How to build one.

-: :SOS.DRIVERS : Safely modifying your SOS.Driver file.

-: A3.HELPS2 (subdirectory)

-: :EPSON PRINTERS : Escape sequences for Epson and clone printers.

-: :POWER SUPPLIES : Power supply problems and how to fix them.

-: :RF.NOISE :How to deal with this problem.

-: :TITAN.CARDS :128K Apple ][e emulation on two cards.

-: A3.INFORMATION :Where to find the information, dealers, etc. you need.

-: A3.NUTSHELL :How to start up your III with power off or on.

-: A3.QUESTIONS (subdirectory)

-: : Set1 : Alligning Disk Drives and other questions.

-: : Set2 : Emulation mode, stack overflows and more.

-: : Set3 : 3EZ Pieces, 512K expansion, repairs.

-: A3.SOFTWARE :A list of the latest software versions.

-: A3.DOCTOR :Symptoms of a sick Apple III and possible solutions.

-: COLOR.MONITOR :Hook up your color monitor so it will work in emulation.

-: DRIVER.CONFIG :How to set up your SOS.Driver file.

-: SOFTWARE.HELPS :PFS file conversion, Clock chip after 2000 and more.

-: SOS.DRIVER.NOTE :How the SOS.Driver file is set up on this disk.

-: THE.APPLE3 :The real skinny about your Apple III and its features.

-: UPGRADING.SOS :How to make sure you have the latest SOS version (1.3).

Hard to believe it's the same listing isn't it? It has taken a long time to complete. But the effort was worthwhile, because we now have this in one (huge!) 3EZ Pieces data base that makes searching for files a snap. I'll put this into the PD soon. Given its size, the database will probably have to be split in half. But you'll be able to re-combine it and



put it on one 800k disk or onto a hard disk for easy access.

This material will now go to Paul Meyers, who has been working to update the Apple II and III hard copy PD listings. Soon, you'll be able to buy a book just as nice as the Mac PD library has, but one that lists Apple II and III disks. New WAP members who own an Apple II or III will also get it as part of their New Member Disk.

### **Public Domain Library**

We have some wonderful disks for you this month. I'm happy to say that we continue to get some great PD contributions from our members. I like developing PD disks and there are still a small corps of IIIers out there who obviously do too. I hope you'll consider joining us!

In any case, this month we offer FOTOVIEW, a Basic program that will let you look at or print any Apple III FotoFile you might choose. This disk (3GRX-31) was developed by John Lomartire and Ed Gooding, two of the Real Good Guys in the III Community (more on John below).

I've added a number of graphics to this disk, to make it easy for you to use the program. Complete documentation is available on disk and it is self-booting on side one.

3GRX-32 is a disk I've spoken to you about a number of times. It's called "A2 to A3 Graphics" and is a disk that I started working on a long time ago. It's full of Applesoft Basic programs I've attempted to convert over to Apple III Business Basic. Some with more success than others.

I consider this a disk still "in the making" since it is not complete. I hope you'll take a look and see if you can improve on my attempts. It's a great exercise to help you learn Basic programming or to just see the differences between the Apple

II's Applesoft Basic and the III's Business Basic.

This is a double-boot disk, which means you can boot it in an Apple II or III. There is some documentation, but I've not taken the time to convert these programs to ASCII text files so they can be pulled into a word processing program. But take a look and see what you think. I'd love to see your suggestions or any conversions you might have done. We'll include them in a future update to this disk.

Disk 3UTL-34 is a demo disk for anyone interested in CustomFont, disk 3UTL-21. It's Pascal based, self-booting and provides an excellent demonstration of what CustomFont can do (which is allow you to create custom Apple III Fontfiles.)

That said, what's on the front burner for new disks? More 3EZP templates, Fortran for the Apple II, new disks from Dr. Bloom and more "Best of" disks from the Apple Three Users of Northern California (ATUNC). The latter was developed by our old friend Robert Howe, who continues to support our III SIG even while moving on the the Mac (more about him below too).

### **Budget time**

It's that time of year for WAP and I've put in some requests for our SIG. Number one on the list is money to purchase a set of Titan III+IIe cards for our III+ in the WAP office.

Perhaps of more interest is a separate request I've made for \$500.00 in seed money to use for an Apple III software development fund. The number of people out there willing to write drivers or programs for our III is growing steadily thinner. I hope to get other Apple III groups (TAU and ATUNC primarily) to contribute to this fund as well. Together, we would decide on a project or projects that is of great interest to

the III Community and then use this fund to provide the seed money to get it started.

I'm not sure if the WAP Board will approve all or part of the request, or if the other groups will participate. But I feel strongly that we need to try something to get some additional software developed for our III.

That said, what kind of projects could this go for? Drivers for some of the newer printers (Apple or others) and for the Vitesse Quickie Scanner comes immediately to mind, as well as those new CD ROM drives (used with On Three's SCSI card). If you have others, please forward them to me.

### **On Three**

I thought that one possible use for these funds might be to help push On Three's Bob Consorti to finish his GoBack harddisk backup utility program. He told me recently on CompuServe that he is finding much success programming for the IIe side of our family and does not feel providing seed money would help at this time ("I can make 1-2 grand per week programming on the Apple IIe but the III market can't support the kind of money necessary to keep me programming a 2-3 month long project."). He does promise to work at finishing the program this summer IF nothing else comes up. Let's hope he does, as this is one program many of us would really like to see.

Bob also says that orders for the 512k upgrade are not coming in very quickly. In fact he says, "even if we get the magic number it's going to be a problem getting the boards built as the PCB manufacture house that we used burnt down and all of our engineering films went down with it. I've got the masters somewhere in a storage locker and I'll have to dig them up before we do anything."







As I mentioned last month, if there were two upgrades that I would consider for a III, the 512K upgrade, along with the Titan cards would rank one and two respectively. If you are at all interested, I would urge you to call On Three at 206-334-8001 and place your name on their waiting list.

### **Mentors and Hotliners**

Dave and Joan Jernigan have really outdone themselves for our III SIG. I asked them to take on a rather big project a number of months ago, namely to contact all members of our SIG and find volunteers willing to serve as Mentors to new III SIG members as well as Hotline Volunteers.

The results are finally in and I'm happy to report a total of eleven members have agreed to help out. They include members both local

and as far away as California: Dr. Al Bloom, Joseph Brown, Robert Howe, Dave and Joan Jernigan, Jim Jutzin, John Lomartire, J. Carey McGleish, Dave Ottalini, Eric Sheard and Jim Suthard.

The Jernigans included the letters from some of those contacted and I'd like to pass along some of the comments. Eric Sheard, of Lescon, Inc. of Flemington, NJ. says he has a total of three Apple IIIs. Two are used in his business. He writes "We are not hackers and know little if anything about programming or other fancy stuff. But we do get the most out of the programs we use. So if this is helpful to you, it is OK by me." Eric also says "Keep up the good work. We are part of the silent group that cannot get to the meetings, but could not survive without the WAP Magazine and the help of others."

Then there's the inimitable Dr. Al Bloom (Blacksburg, Virginia). No stranger to these pages, Dr. Bloom has contributed many, many excellent programs to our PD (and there are more coming). Commenting about his expertise, he writes "... Mail List Manager and in Pascal Programming and in file and data conversion twixt the III and other computers. In those areas I would have stacked myself up with anyone in the world. I would be happy to help where I can. My skills are dated and perhaps blunted, but I'd like to help."

Robert Howe (Placerville, California) is a long-time friend of and contributor to our SIG and has been a frequent caller into the TCS. His efforts to create a number of new "Best of ATUNC" PD disks will soon make their way into our PD. Even though he no longer owns a III, he says he is "willing to have my name down as a reference."

And finally, another long-time friend of our SIG, John Lomartire (Westport, Connecticut), writes "although I may not have the solution to all questions that might arise, I generally can do a bit of checking to see if the answer to the question can be found."

It's never too late to throw your name into the hat as a Mentor or Helpline Volunteer. If you're interested, please contact Dave or Joan Jernigan. Their address is Rt. 3 Box 163-A, Lovettsville, VA. 22080.

### **Software galore**

III SIGer and ATUNC Newsletter Editor Tom Linders has lots of Apple III software available for sale or rent he says. The software includes AppleWriter, Quick File, Backup III, Visicalc, Pascal manuals, Business Basic, and various other manuals. He also has keyboard lights, 32k memory chips, copies of Catalyst IIe and III and copies of Word Juggler/Lexichack IIe and III for free. Write to him at 12604 Wardell Ct., Saratoga, CA. 95070.

(Disk library continued from page 87)

- 3UTL-11 The Retriever
- 3UTL-12 Power Print III (1A)
- 3UTL-13 Disk Window III (1A)
- 3UTL-14 Source Window/Data Window (1)
- 3UTL-15 Powercat and Basic XRF (1)
- 3UTL-16 Basic Extension (1A)
- 3UTL-17 Power Keys DM Plus (1A)
- 3UTL-18 RAM+3/Two-n-Fro III /128K
- 3UTL-19 Basic GTO
- 3UTL-20 Custom Font Manual
- 3UTL-21 Custom Font
- 3UTL-22 Fonts - Disk 01
- 3UTL-23 Disk III Backup by Bloom
- 3UTL-24 Gucspar by Bloom
- 3UTL-25 ASCIIDIF by Bloom
- 3UTL-26 Mail List Manager Manual by Bloom
- 3UTL-27 MLM Utilities by Bloom
- 3UTL-28 MLM Utilities by Bloom
- 3UTL-29 MLM Utilities by Bloom
- 3UTL-30 AppleWriter to 3 EZP by Bloom
- 3UTL-31 Pascal Menu Maker
- 3UTL-32 Catalyst Release
- 3UTL-33 Reformatter III

#### **/// WORD PROCESSING**

- 3WDP-01 AppleWriter
- 3WDP-02 Footnote III
- 3WDP-03 Ink Well Manual
- 3WDP-04 Ink Well Program
- 3WDP-05 AppleWriter2.0 Demo
- 3WDP-06 Script III

### **APPLE II DISKS**

THESE ARE ALL 3.5" DISKS

#### **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)



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# 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 it via the TCS or direct mail to me at 8255 Canning Terrace, Greenbelt, Maryland 20770. Telephone calls to (301) 345-3230. Please note that this column is often submitted for publication 45 to 75 days prior to its appearance in print.

### *But that's the way he spells!*

LEE RAESLY contributed this gem, so I thought that I would lead this column with a cultural item — a poem.

#### SPELLING CHECKER

I have a spelling checker,  
It came with my PC.  
It plainly marks four my revue  
Mistakes I cannot sea.  
I've run this poem threw it,  
I'm sure your please too no;  
Its letter perfect in it's way,  
My checker tolled me sew.  
Anon (or was it Ibid)

### *Top Ten Apple II*

A couple of columns ago I listed a possible 10 top programs for the Apple II. It seems that the publication 'The Road Apple' did the same

thing. Here is what they say. Do you agree? Write in with your nominations.

"It seems that every publication puts out what it considers to be the best (or the worst) of whatever it deals with. 'The Road Apple' is no exception. Here are the top ten programs according to the publisher.

"1. APPLEWORKS - Absolutely no surprise here. This "do-it-all" word Processor, Spreadsheet and Data Base is the backbone of the Apple II line and the one against which others are judged and that includes similar programs for other computers. It is simply amazing what jobs AppleWorks is called up to do and how well it does them. After six years (prehistoric by computer standards), AppleWorks still keeps chugging away tirelessly. It does what other programs are supposed to do and it is so easy to learn.

"2. TIMEOUT - Timeout's enhancement series for AppleWorks is no surprise for second place. The Beagle Bros. Boys consistently churn out quality programs, stand alone and enhancements, that meet the needs of the consumers and in the case of the TO series, keep AW up to date. The documentation is always first-rate and the programs work. Their philosophy of no copy protection has cost them dearly but the honest consumers appreciate the attitude of trust. The beauty of this series is that you only have to buy what you need and that keeps the investment cost way down. However,

'Ultramacros' is a must to use AW most effectively.

"3. PROSEL - This is a hard disk owner's dream come true. The disk management system is comprehensive and easy to use once understood. The documentation is thorough, though not easy to understand at first reading. It's been said that author GLEN BREDON's sentences read like paragraphs and the paragraphs read like books. Amen. Once you've tried ProSel, you'll never go to anything else. Besides, what else is there?

"4. PROTERM - A 'must' for the modem user. Even a dummy like the 'Road Apple' publisher can use it to great effectiveness with just a little work on the learning curve. It's fast, easy to set up and adaptable.

"5. PUBLISH.IT! - For the Apple ][ desktop publisher fanatic there is nothing finer. The ability to import AW text directly (after using the spell checker) and graphics from a variety of sources along with a fine printing output makes this the best of the bunch. It is also the fastest and most versatile.

"6. PRINT SHOP/PRINT SHOP GS - This granddaddy graphics program is still mighty useful for making those special banners, cards, and posters. There are whole libraries of graphics and fonts available for every occasion.

"7. LABELS, LABELS, LABELS - This "sleeper" from Big Red Computer Club is a handy program for creating custom mailing labels directly from an AW Data Base complete with different fonts and graphics and in color, if you want. Almost any kind of label can be made for disks, videocassettes or whatever.

"8. SHRINKIT - Here is the packing program that does it all. It is menu driven, easy to learn, and operates at good speed. Now that I've had my computer for a few



years, it's time to archive and ShrinkIt is the program of choice.

"9. SHANGHAI - It's just for the GS but it has got to be the greatest "chewing gum for the mind" game to come along. Absolutely no time limit, dexterity, or coordination problems. You play it at your own pace (a timed game is available). It's a great way to relax.

"10. FINGERPRINT - It is not software, but it performs a valuable software function - saving whatever is on the screen and prints it out so you can study it later. This little gem has been very useful in analyzing fonts and graphics or capturing something important that wouldn't be ordinarily printable.

"I'm sure that some of these are on your top ten list. You could also have others and be willing to give me an argument for your favorite. However, I like 'em. They work. They are cost effective. And they will be around for a long time. By the way, I'll stack them up against similar programs for any other computer system."

Oh! there are so many more that I would like to put in the Top Ten too. Which ones would you like?

### **Apple II magazines**

MICHAEL McCONNELL, writing in 'Apple Spice' came up with a short overview of the Apple II magazines available by subscription and/or on the newsstands. Although he left out the Journal of the Washington Apple Pi, he has collected a good listing.

\* A2 CENTRAL - An 8-page newsletter that has been around since January, 1985. Devoted to the Apple II, the newsletter is an invaluable source of tips, hints, news and ideas. The newsletter spends a lot of time on AppleWorks and the IIGS, although articles on IIe's, IIc's and Applesoft programming can be found. A monthly 3.5" Disk is also offered. I highly recom-

mend it. [PO Box 11250, Overland Park, KA 66207]

\* GS+ - This is a fairly new GS specific magazine. The magazine is still too new to really judge, but so far I am satisfied with it. Now up to 41 pages, the magazine contains programming tips in Pascal and "C", an ongoing series of articles on how to use painting programs, and some very good, honest program reviews. I recommend it. [% Ego Systems, PO Box 15366, Chattanooga, TN 37415]

\* COMPUTIST - A 24-page tabloid size newspaper is the latest incarnation of this magazine. Computist has had a severe identity problem over its seven-year history, and has changed the format at least five times. However, it's the only magazine to find information on how to de-protect copy protected programs. Recent issues have had articles on building your own hardware cards. The last six months have been financially shaky, although I believe the magazine will survive. Issues have been known to arrive as much as four weeks late. [PO Box 110846-T, Tacoma, WA 98411]

\* APPLEWORKS FORUM - A newsletter devoted to AppleWorks since August, 1986. If you use AppleWorks, this is the place to learn all the neat tricks and shortcuts. The newsletter runs about 36 pages and features articles by people like MARK MUNZ from Beagle Bros and DAVE GAIR, a recognized AppleWorks guru. Topics include how-to's on writing your own macros, work-arounds and bug fixes. An excellent source of information. [National AppleWorks User Group, PO Box 87453, Canton, MI 48170.]

\* 8/16 - This new monthly journal will be the result of combining several publications from Ariel Publishing. The journal will feature articles on Orca/c, Microl Advanced Basic GS, Merlin 8 and 16 bit assembly, Applesoft, ZBasic, Pascal,

Orca/M and others. A journal for programmers. [Ariel Publ., PO Box 398, Pateros, WA 98846]

\* NIBBLE - This magazine has been around for over 11 years and remains dedicated to the Apple II. I have been rather disenchanted with it lately. Once a hefty 200 pages, the last issue was a rather skimpy 88 pages, 15 of which were devoted to software products sold by MindCraft. The GS specific information is sporadic at best. I recommend you pick up the one or two issues that catch your eye from your local newsstand. [MindCraft Public Corp., 52 Domino Dr., Concord, MA 01742]

\* INCIDER/A+ - The result of the merger between two major magazines. InCider after seven years of publication, remains an Apple-specific magazine. The reviews have a tendency to look at everything with rose colored glasses. Occasionally, articles are informative, and several departments (such as Apple Clinic and the Game Room) are worth reading. If you need reading material for the throne room, this is not that bad a magazine. [IDG Communications, Inc., PO Box 50358, Boulder, CO 80321-0358]

\* HOME OFFICE COMPUTING - This magazine is not devoted to any specific computer (it does have an overall blue tint) but rather dedicates itself to the home business market. There is an Apple-specific column which devotes itself to reporting on programs and hardware peripherals useful in a home business. A lot of useful ideas on how to make money with your computer are presented in a format that lets you see how other brands of computers are being used. Sometimes it doesn't hurt to see what's going on on the other side of the fence! I think it's an informative magazine. [PO Box 51344, Boulder, CO 80321-1344]

\* COMPUTER SHOPPER - You had better eat your Wheaties before you pick up this magazine!







At over 720 pages in a 10"x13" format, one slip and you're in for a monumental hernia! I've included this listing only because it's so unique. The magazine was originally a 'shopper' magazine, with all advertisements. Now there are articles for most brands of computers including Apple. Although 99% of the magazine is for IBM users, there are some Apple-specific reviews and how-to articles. DON LANCASTER, an avid AppleWriter and laser printer supporter, is still a regular contributor. Perhaps you'll want to pick up just one or two of these from your local newsstand, but be sure to take the pickup truck! [PO Box 51020, Boulder, CO 80321-1020]

### Rumor mill

Warning! Some may be true — some not (and some we'll never know).

\* K-MART OR SEARS? - An unknown source sez, "...that Apple will [or has] remove[d] the Apple II computers from the dealers price and order lists. The same source also says on that date it will be announced that a major nationwide department store chain will begin selling the Apple II line." [note—the latest rumor says that "Low end Apples {Mac Classics and the IIGS} will be distributed by CompUSA-ed]

\* SUPERDRIVE CARD? - From unknown: "Apple's RALPH RUSSO told a user group in Minnesota that; Apple plans to offer a SuperDrive card for the Apple IIGs. No date or price information was offered."

\* NEW GS/OS - It looks like a new GS/OS will be out on the streets shortly. It is believed that version 6.0 (replacing 5.0.4) will be announced — perhaps at KansasFest this summer. I hope it has a new FINDER and that our own ANDY NICHOLAS, Apple's

Finder Engineer, has done wonderful things to it.

\* DIAL 900 FOR APPLIED ENGINEERING - From GENie: "My girlfriend is an Applied Engineering dealer. Yesterday she got a dealer news sheet from Applied Engineering. The contents of the note are not labeled as confidential and in fact what it announced has already taken place. What it says is that effective March 1, new product warranties on ALL Apple II products from Applied Engineering will be dropped to one year. Macintosh product warranties will NOT be affected by this change. They've also announced a new special technical support line for Apple II questions. The regular tech support number will no longer be available for Apple II questions. Instead, to get support for your Apple II products through AE, you'll have to dial a special 900 number. The charge for this 900 number will be \$1.50 Per minute. No mention of 900 numbers for Mac or Amiga users was mentioned. We (my girlfriend and I, that is) called them to confirm what this said, and the guy we talked to there said this was all true as written.

\* HIGH DENSITY BUT VERY LOW FREQUENCY OF USE - A warning from DAVID WEITZBERG about Applied Engineering's new High Density disk: "I spoke to a man on the AE 1-900 Tech Support line, and he said that the IIGS doesn't have the hardware to boot a High Density disk. This explained why my system crashed into the monitor when I tried to boot my HD system disk.

"The disk also won't boot even if ProDos is launched from a double density system disk, with the driver installed. The drive, I found, is also prone to spit disks out during the startup scan. This includes Prodos 8 disks, GS/OS disks, and some Dos 3.3, 3.5" Disks I have. SO....if you are planning to buy a AEHD drive

with one of the intents I had, adding CDevs, DA's, and fonts to the system disk, I recommend that you don't buy it and go through all of the troubles I had (believe me, there were a LOT)."

RICH SANDERS retorts, "Now that really frosts me. I called AE on the phone and asked them that very question (if you could boot from their high density drive) I didn't know that they were playing games with that question. I was think about buying one so I could have a bootable high density system disk and put all the fonts etc., that I want. Now it appears that they severely streeeeched the truth."

### Font sizes

The editor of 'Applesauce 2'(\*) had some recent comments (he/she said trivia) concerning font sizes which are of interest to our readers. "Font Point Sizes vs. CPI Sizes: Most of you probably know this, but just in case... If you have an ImageWriter or other dot matrix or daisy wheel printer, you are familiar with the print sizes being graded in characters per inch. These sizes are based on the width of the characters, so that 10 cpi is bigger than 12 cpi is bigger than 15 cpi etc. Font sizes for the IIGs are based on the height of the characters and are graded in points. One point is 1/72nd of an inch. Thus, 10 pt is smaller than 12 pt is smaller than 14 pt, just the opposite of cpi numbers. Confused?"

### Clean your mouse, clean your monitor

DAVID ARDAY of AAAUG contributed this one. "Don't forget to clean your mouse periodically to prevent the buildup of dirt on the rollers which can interfere with tracking and smooth operation. Using a mouse pad that is kept clean can reduce the rate of buildup and need for cleaning. If you have to clean the ball, use Q-tips and





alcohol.” Dave turns his attention to monitors stating, “One continuous problem all computer users have, unless they work in a hermetically sealed room, is the buildup of dust on monitor screens. A whole array of expensive special spray cleaners and anti-static cloths have come on the market to solve this problem, but I have noticed that most of the sprays leave a residue that guarantees any fingerprints accidentally put on the screen will glare, forcing you to spray and wipe again.

“For several years now, I have mixed my own cleaner, a weak ammonia solution with a bit of enzymatic surfactants [GH: *what’s that, Dave?*] added. While it doesn’t stop static any better than the others, using it with a soft cloth has not harmed any of my screens.

“Recently I heard of using anti-static dryer cloths, like Bounce, to lightly wipe monitors and reduce dust buildup. The cloths leave a slight residue which can then be removed with a soft, clean cloth. After wiping your monitor, you can still throw the dryer sheet in with a load of laundry, so the cost is essentially zero. I haven’t tried this trick yet, so I am not recommending it. One must always be very careful to avoid scratching or otherwise damaging the coating on some color monitors, like Apple’s.”

### Input devices

‘APPLESAUCE 2’ published an interesting piece which I would like to relay to you. “Ever stop to think of all the INPUT devices we use in the everyday operation of our computers? Let’s think about it now. Of course, we start with the keyboard and, for many, the numeric keypad also. Let’s not forget the mouse and/or the trackball. The graphics tablet is available to some for using a hand-held pointer or stylus to create “drawings” on the screen. Relatively new are the scanners which can copy magazine or book pictures to

the screen. These can be either hand-held or the Thunderscan type that works within the ImageWriter printer. And how about the new-fangled video digitizers that’ll take any video image from a VCR, video tape or camcorder and input it into the computer? That’s high tec, but the process that inputs music or other sound via a microphone is not. Can we call the modem an input device? After all, it does take squeals and whistles and inputs them for use.

“And how can we ever forget the trusty disk drives which are certainly major input devices, and we might include the hard drive along with them. Also, did we overlook the venerable tape, cassette or reel, which used to be the only way to go? Even before them was the punch card and paper tape which were, after all, other ways to input data. Remember the short-lived Caussin (probably not spelled correctly) reader which scanned a series of funny looking ‘squibbles’ that translated into regular programs? Magazines and flyers used to feature these at one time. Are there other input devices or methods not listed here? ...And you thought the old-hat keyboard was the only way to go!”

### Another poem?

Perhaps you enjoyed the column’s opening poem. Well if you are a glutton for punishment, here is a ‘prayer’ which appeared in ‘SNAC Time’:

Our Program who art in Memory,  
Hello be  
Thy name. Thy operating system  
come, thy  
Commands be done, at the printer  
as it is on  
The screen.  
Give us this day our daily data, and  
forgive  
Us our I/O errors as we forgive  
those whose logic  
Circuits are faulty.

Lead us not into frustration and  
deliver us  
From power surges.  
For thine is the Algorithm, the  
application  
And the solution, looping forever  
and ever.  
Return.

[GH: *Please note, if you are of a different persuasion, you may substitute the word ‘Enter’ in place of ‘Return’*]

### Excellent words about InWords

Direct from ROB RENSTROM of WestCode Software, the publishers of InWords, “InWords v1.1 Will be released in a few weeks. This version will be a maintenance release, fixing the minor problems in the first version. Several new features will also be included.

“One of the more powerful new features is the Font search option, which lets you scan a small section of text, then it will automatically select the font table that is the closest match to the type style scanned. This is handy if you’re scanning something new and don’t know which font table to use, or whether you should train a new font table from scratch.

“Another new option lets you control whether InWords will allow numeric characters to be mixed with alpha characters, thus, preventing character substitutions, such as a 1 (one) for l (lower case “L”).

“Version 1.1 will be sent automatically to all registered users. Make sure that you send in your registration card.

“One other addition to v1.1 that I forgot to mention in the previous message is compatibility with Thunderware’s LightningScan GS scanner.

Rob also discussed some related items.

Inwords is a ProDos8 program and standard ProDos8 doesn’t recognize more than 2 partitions of





a hard drive, therefore you can't place it on Hard3 or Hard4.

If you are scanning double spaced typewritten text, sometimes InWords repeats the first couple of characters on the next line. This usually happens on indented lines. The upcoming maintenance release, v1.1 should take care of the problem.

"When using InWords in combination with a modified Quickie card there is sometimes a problem. Vitesse [distributors of Quickie] had an intermediate solution to a hardware problem that involved adding a capacitor to the Quickie card if a 'Short Scan' was occurring. The current version of InWords will work with this fix. However, they recently introduced a different modification to the card that does require a change to InWords. If you have a new Quickie card and InWords doesn't turn off the scanner, contact us [WestCode Software] for a replacement disk that will work with the new card. Just call us with your registration number and we'll mail you a modified disk that works with the new card.

"By the way, for those who may be wondering, the "Short Scan" problem causes the scanner to shut off prematurely before the user releases the START button. According to Vitesse, this was the result of a tolerance problem between the motherboard and the Quickie card that occurred only on a very small number of systems. The new version of InWords will contain the fix too."

Answering a complaint about InWords not working to well with underlines and a question, "Is it possible to save the raw scan and use a paint program to erase the lines and other unwanted stuff and then run the image through InWords?", Rob replied, "No, InWords will not save (or load) an image in a file for use with a paint program. Besides, removing

underlines this way would be a very time-consuming process if you had to swap images files between two different programs. Although your question gives me another idea: an eraser tool built in to InWords. This would be handy for removing smudges, etc. Unfortunately this isn't in the plans for the next version (maybe a later version). However, version 1.1 will handle underlines without the fuss. Until then, does anybody have any white-out that Bill can borrow?"

Way to go, Rob! It looks like WestCode is listening and acting to the users in the field.

### **Mousetext on an Imagewriter**

AFL OLI from America Online (a national tele-communications service), tells us that, "All Imagewriter II printers have the mousetext built in. All you have to do is activate it with the right code. In AppleWorks 3.0. This is done best by using the special codes in the word processor. Go to the printer codes definition area, and proceed to the special codes definition. You can define up to six special codes.

Call the first code "Mousetext On". Define it as ESC &.

Call the second code "Mousetext Off". Define it as ESC \$.

"Escape out to the main menu. Now, when you are working with the Word Processor, enter the first special code, and then enter the character for the mousetext you want. I'm not sure where we have a list of all of them online here on AO, but the ImageWriter II manual that I have lists them on page 119. The solid apple is @, so your text would look like this: This is the solid apple ^@^. (Be sure to turn OFF mousetext immediately after the mousetext characters you want.) And, of course, if you are on an older IIe, you must be sure to have the enhanced ROMS."

MARK MUNZ quickly added, "Oli described how to get

mousetext out to the printer. If you want to have it appear in the Word Processor, you'll need to use something like the macro on MacroEase which allows you to convert standard characters to mousetext characters.

"Note that, currently, you can't have both. If it appears on the screen as mousetext (in the WP), it will appear as standard characters. And if you use Oli's method to print mousetext, it won't appear on the screen as such."

\* - 'AppleSauce 2' is published by the ACES user group.

*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 and a Seven Hills Partner 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.*



# Learning About Laptops

By Phil Shapiro

One of the delights of owning a laptop is being able to transfer files from distant places to and from your home computer. Journalists, researchers, and other nice people have embraced the laptop as a tool that liberates their minds and bodies to wander far afield from cluttered conventional offices and other confining closed spaces.

Any book that claims to explain about the various choices of laptops must by necessity cover the topic of modems and telecommunications. One relatively new book (copyrighted in 1990; obsolete in another week or two), is *The Complete Laptop Computer Guide*, by David H. Rothman. (Published by St. Martin's Press, cover price of \$18.95, 374 pages in length.) Besides giving lots of practical consumer advice about buying laptops, this book gives advice and information about using modems—both here and abroad.

In one chapter, titled "An Electronic Baedeker," Rothman explains various odds and ends about the power plugs and phone connections in Europe and other out of the way places. For instance, in the darkest jungles of Africa it's useful to carry alligator clips to connect your modem to the local phone. Also, keep an eye out for lurking American-style RJ-11 phone plugs at the various hotels you might visit.

While travelling through Egypt, you can rest assured that their packet-switching network is top notch. You can even dial international calls directly. Few other

developing countries offer such conveniences.

More backward countries, such as Germany, absolutely forbid anyone from plugging foreign attachments into their telephone lines. What this means is that you can go right ahead and do it anyway, but your tampering might cause a strain on the NATO alliance.

Seriously, one needs to proceed with caution when tampering excessively with foreign phone systems. Rothman describes a hapless traveller who blew up his modem and a complete village phone system in Greece. Other American travellers have been known to inadvertently destroy a hotel's phone system while innocently playing around with the wiring.

To be on the safe side, Rothman recommends carrying along a small "burglar kit" to help you do whatever you need to do.

And, while you're at it, you might want to practice the phrase, "Oh, I'm terribly, terribly sorry," in the native tongue of each country you're planning on travelling through.

Other countries/continents Rothman discusses include: Algeria and Tunisia, Asia (General), Australia and New Zealand, Brazil, Canada, China, France, Hong Kong, Hungary, India, Iraq, Italy, Japan, Jordan, Kenya, Korea (South), Latin America (General), Malaysia, Mexico, Pakistan, Somalia, Soviet Union, Switzerland, and the United Kingdom.

As you see, this gentleman seems to have gone out of his way to go out of his way.

Two of the more interesting chapters in this book cover communications topics in some depth. One brief chapter titled, "A Quick Tour of On-line Services," compares GENie, CompuServe, Dialog, MCI Mail, and several of the other online information services. The other chapter, "Some Basics of Electronic Mail (Including How to Send E-mail, Faxes, Telex and Paper Letters Via CompuServe and MCI Mail)," goes into good detail about the whole subject of electronic mail.

Among other things, Rothman compares the price of sending mail via various of these services. What he doesn't mention is that you can send unlimited amounts of mail thru the GENie service, all for a flat-rate of \$4.95 a month.

(The recipient of such mail must also be a GENie subscriber, since GENie doesn't have a tie-in with the other networks).

Finally, this book has several noteworthy appendices. Seven appendices, to be precise. These appendices cover a breadth of miscellaneous topics, as indicated by their titles:

- \* 1) Screenwright: A Delightful \$49.95 Program for Screenwriter and Playwrights
- \* 2) Software Tips for Owners of the Mac Portable
- \* 3) Cellular Modems for Laptops
- \* 4) From Laptop to Desktop (or Vice Versa) — And a Few Words About Local Area Networks
- \* 5) A Fast Way of Using Floppies for Multi-File Transfers Between a Desktop and Laptop
- \* 6) CD ROMs: One Way to Augment On-Line Information Services
- \* 7) Should You Buy a Mac Portable? (An Apple Owner's Side) by WAP's own Paul J. Chernoff.







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The appendix on Cellular Modems for Laptops makes for interesting musings on the day when the whole world will be connected instantly with one another via modem [*the medium is the message??-ed*]. For now, however, this remains a luxury few can afford on a regular basis. The subject of cellular modem use is a complicated one, which Rothman untangles with some skill.

Conspicuously missing from Rothman's book is any mention of the highly secret laptop Apple II being developed at Apple. This self-fulfilling prophesy is just a few months away from completion. With its built-in 3.5 inch disk drive, and AppleWorks 3.0 in ROM, this little critter is going to raise quite a few eyebrows upon its release. (Macintosh users will be able to use it too, transferring their files over

with the Apple File Exchange program.)

Most amazing about the Laptop II is its affordable list price of \$650 (about \$450 street-price). At that price, people will be snapping them up to take on trips with the kids (as well as for serious purposes too). Marketing claims they'll be able to ship over a million in its first year out.

For further information about the release date of the Laptop II, write to Larry Tesler, Vice President, Advanced Products Division, Apple Computer, 20525 Mariani Ave., Cupertino, CA 95014. Please don't call him by phone. He's doing his best to get this product finished on time. 🍏

**Further reading**

**INTRODUCTORY BOOKS**

*Complete Handbook of Personal Computer Communications*, Alfred Glossbrenner

*Dvorak's Guide to PC Telecommunications*, John C. Dvorak

*How to Look It Up On-Line*, Alfred Glossbrenner

**SERIOUS REFERENCE BOOKS**

*The Matrix: Computer Networks and Conferencing Systems Worldwide*, John Quarterman, 1989. (720 pages, illustrated. Published by Digital Press)

*!%@:: A Directory of Electronic Mail Addressing and Networks*, by O'Reilly and Associates

**HELPFUL INFORMATION ABOUT THE MAJOR INFORMATION SERVICES**

Genie Information Service: 1-800-638-9636

MCI Mail: 1-800-323-0945

CompuServe Information Services: 1-800-848-8990

(The author is the founder of *Balloons Software*, a new Apple II educational software company.)

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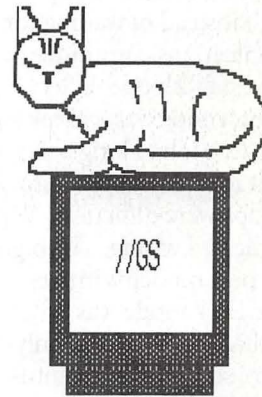
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# View from the Cathouse

by Kim Brennan



One of things that I have learned in working on or with different BBSs is that not all modems are created equal. Which brings me to the central theme of this month's column: modems. A modem, in a simple definition, is just a device for translating digital information (the bits and bytes of computer text, usually) into analog information (sound) and back again in a reliable fashion.

The most obvious difference between different modems is the maximum rated speed of transferring data. This is expressed correctly as the number of bits per second (bps), though some people may incorrectly state this speed as the baud rate. What's the difference? Baud is a term that applies to the frequency of change from one state to another (on to off, 1 to 0, etc.) per second while bps refers to the actual number of bits transferred per second. Did that sound the same? Well, it is the same if there is only 1 bit per baud. However, at higher speeds most modems actually transfer more than one bit per baud so that the baud rate is almost always less than the actual bps rate. Of course, baud rate is easier to say in casual conversation than B-P-S so undoubtedly this incorrect nomenclature will stick around for awhile.

The first modem that I ever bought was a Hayes Smartmodem 300, the standard of its time. Buying a standard usually means paying the price, and my Hayes was, at that time, pretty expensive to me. I also found that I could read all incoming

text far faster than a 300bps modem could transfer it. So, eventually I made the first in a long line of additional modem purchases in search of increased speed.

The next step up was a 1200bps mostly 'Hayes compatible' modem. Time for another educational lecture. What made the Hayes Smartmodem a standard was its use of a consistent series of commands so that the computer, or person using the computer, could instruct the modem in how to dial the telephone. There were, and continue to be to this day, a series of commands that also allow you to change certain internal characteristics of the modem to suit your individual needs. If some other manufacturer of modems supports this command structure they claim that their modem is 'Hayes compatible'. Sometimes, however not all of the commands are actually supported so that a modem becomes mostly 'Hayes compatible', certain features not being implemented. Usually these other features are of only limited use to the average user so there loss is of little concern. If you really need those features, then you'll have to pay for them. Now, most modems that are 'Hayes compatible' actually do have all of those features and some have features that Hayes modems don't. This commands are also referred to as the AT command set.

Anyway, back to my 1200bps modem. It was mostly Hayes compatible and for the most part I could live with it, but I was still hungering for more speed. And

then, one day Egghead Software made a mistake. Egghead had advertised a modem that had a respected name for quality and low prices, Practical Peripherals, but Egghead put their cost price instead of list price in the ad. Since the ad had already been published, Egghead honored the advertised price for a couple of weeks while the correction was being issued. I was fortunate enough to discover Eggheads misfortune at just that time, I was able to purchase the PP2400SA modem. A modem that served me very well for almost 5 years.

Now the transition between each of these modems was easily made. The only real change being that of increased speed. Yes, the 1200bps modem had lacked some of the features that the others had, but truthfully, I didn't know that at the time. And then I bought my current modem, the Practical Peripherals PP9600SA. Oops.

This time the transition was just a little rocky, not because the modem is poorly designed or lacking in features, but rather because this modem has dozens of new features. So many features in fact, that I almost didn't know how to use the modem at my old bps speed of 2400 let alone at the new higher speed modes.

One of the confusing aspects of a higher speed modem is the plethora of modes. At 300 bps there is only one popular mode of use.





decided to create a high-speed mode (HST) instead of waiting for the communications committee (CCITT) to establish one. US Robotics' new mode was a breakthrough because it had long been thought that reliable transfer rates above 2400bps were difficult without dedicated wiring. The high price of the new modems implementing the HST mode was offset by the fact that they were the only guys in town, so to speak. Eventually, the CCITT did establish a standard for 9600bps communications (V.32), but the various manufacturers people have been slow to convert. US Robotics themselves now make their dual standard modems which support V.32 and HST modes. I must point out that the HST mode is a proprietary communications protocol not an official protocol. The official protocols are designated by the CCITT.

And now to those official protocols that the CCITT did designate. V.32 is the official modulation standard for transferring information at 9600 bps. For you information the official modulation standards for other speeds are Bell 103 for 300 bps, Bell 212 for 1200 bps, and CCITT V.22bis for 2400 bps. Those are the facts. V.42 and V.42bis actually deal with error control and data compression.

One of the methods explored for higher speed communicating was through the use of compression. Data compression is like a hardware implementation of ShrinkIt, but applied to everything that comes and goes through the modem. There are two different types of compression, MNP/5 and V.42bis. MNP/5 tries to compress everything going through the modem regardless of whether or not it is actually compressed. Certain files, such as ShrinkIt archives actually grow in size when MNP/5 'compresses' them. On the other hand the V.42bis protocol is

more sensitive to the compressibility of the data passing through the modem and compresses only what can be compressed. All of this occurs invisibly to the computer user, of course. V.42bis can be implemented at any modem speed but is most commonly used at 9600bps, though recently some 2400bps modems have begun to implement it.

Another feature that is implemented in the PP9600SA is hardware error control. Error control in the modem is similar to the error control that occurs when you download a file from a BBS using Xmodem (or some other protocol transfer method). In the case of Xmodem, the computer doing the sending computes a value based on the information that it is sending to the receiver, after the information is transferred the sending computer sends the computed value. The receiving computer also computes a value based on the information it received. It then compares the received computed value to its own computed value, if the numbers are different it requests the information be sent again. Error control modems do the same type of thing on all information passing through the modem, not just downloaded files. This means that with error control enabled the text you receive will be exactly like the text that was sent. V.42 is the standard that addresses error control. Some modems may utilize MNP 2-4 error control. Since these are actually included under the V.42 standard getting a modem that has V.42 will cover all bases.

So let's put this together. V.32 is 9600 bps communications. V.32bis is 14,400 bps communications (this is NOT implemented on my modem but has just recently passed the CCITT). V.42 is the error control standard. V.42bis is a data compression standard (which can get compressions of up to 4:1). So a 2400 bps modem using V.42bis could get (under favorably condi-

tions) transfer rates as high as 9600bps.

Confused yet? You haven't seen the half of it. Along with all of these new speed, error control and compression standards you have a host of modem features for enabling/disabling them or for changing how the modem responds when polled by another modem.

When you have all of these features enabled you may have trouble talking to another modem that does not have some or all of these features. This was certainly the case with the America Online software program which expected messages to be returned one way, which is somewhat differently than the default way for a 9600bps modem. The short of it is I had to send the following command sequence, ATW2&W0. The &W0 portion just tells the modem to store this as part of the power on settings which is a must of using with the America Online software. It also means that for calling other BBS's I have to include the command sequence of ATW0 otherwise the communications program will think I've connected even when I have received a busy signal.

All of the information included in this article is what I have learned. Any errors are entirely mine, but I would like to thank Mark Cinelli and Walt Roshon for providing me with information that helped me understand it (I think).



# Classified Advertisements

Classified advertisements can be placed by mailing copy to the business office of Washington Apple Pi. Ltd., 7910 Woodmont Avenue, Suite 910, Bethesda, MD 20814. Be sure to include your WAP membership number and indicate area codes with your phone numbers. Ads must be received by the 1st of each month for inclusion in the following month's issue. Any ads postmarked after that time will be included at the discretion of the Editor. Cost is \$2.00/line (40 characters per line), maximum 12 lines. Members of Washington Apple Pi.,Ltd., may place ads up to 3 lines at no charge. The editor reserves the right to refuse any ads deemed inappropriate.

## **VOLUNTEERS NEEDED**

Your Users' Group needs you!!  
Washington Apple Pi needs volunteers to coordinate and/or help with the following tasks:-

- Apple II Tutorial Coordinator
- Apple II Disk Librarian
- Hotline Volunteers
- Apple II Disk Annotators
- Hotline Volunteers
- Apple II Disk Duplicators

If you are interested in lending us a hand, please call Nancy at 301/654-8060.

## **HELP WANTED**

Mac Programmer  
HyperCard or C experience. Flexible PT hours. Send resume to Digit Software, P.O. Box 1425, Silver Spring, MD 20915

## **VIDEO PRODUCTION SERVICE**

Network quality video production is now affordable to both large and small businesses, thanks to special "wholesale pricing" of Award winning company: International Television Productions, Inc.

Full production and editing services, special effects, animation, all you need is available, and cost effective. Call Guy Durant at I.T.P. District Sales Office: 202/575-0414 ext. 123

## **FOR SALE**

Apple ImageWriter II printer. Brand new in box. Never been used. Price \$300. Call Winfield at 301/270-5576.

## **FOR SALE**

All In Stock Apple/Macintosh 30-50% off. MacDraw Reg. \$195, Sale \$127; Wingz Reg. \$399, Sale \$239; 4th Dimension Reg. \$695, Sale \$417. HLA Inc., 5700-J Sunnyside Ave., Beltsville, MD, 20705, 301/345-1123

## **MUST SELL**

Apple II GS, with color monitor, ImageWriter II printer, 3.5 & 5.25 disk drives, 512K, mouse, WordPerfect,

surge protector, manuals. Best offer. Call 703/960-3307, leave message.

## **FOR SALE**

Never-opened Digital Fast Cache for Ilici \$100 (new) and Adobe Type Reunion \$10. Call 703/207-0521.

## **FOR SALE**

Mac Plus, easy on your eyes! Radius full page monochrome monitor. 4 MB of RAM, 40 MB external hard drive, System Saver, external floppy, standard keyboard, mouse, cables. Ready to run. \$2000.00 Call 301/923-0309

## **FOR SALE**

Mac IIsi with 2.0MB RAM, 40 MB internal HD, Apple 13 in. color monitor, SwitchBoard keyboard, includes System 6.0.7, HyperCard 2.0, all documentation and packing. Bought new 11/90. Sell for \$3,050. Call Eric 301/684-2474 (day) or 301/730-8533 (evening).

## **DONATIONS WANTED**

Mac Pluses, SEs, External Disk Drives, Laser Printers, ImageWriters and Fax Machines desired by environmentally- and socially-conscious non-profit, tax exempt Washington research group. Established in 1975, the Council on Hemispheric Affairs (COHA) has specialized in monitoring the U.S. - Canada - Latin America relationship and embracing growth of democracy and social justice through the region. COHA publishes its highly regarded bi-weekly publication, the Washington Report on the Hemisphere, and weekly "news and analysis" releases distributed to the Washington press corps. Our unpaid staff of 26 talented interns now operates on four 15-year-old Kaypro computers, and are in desperate need to secure adequate technology to do their job. Please contact Bonnie Perrin at COHA, (202) 393-3322

## **FOR SALE**

Prometheus 2400/9600 baud send/rec fax modem. Used only 1 wk and unregistered. Includes Maxfax V2.03 and Macknowledge V1.1 communications SW. \$250. 703/527-0336.

## **TRAINING**

Macintosh, Computer Training, Software and Hardware, Personal and Small Groups, Educational and Scientific. Flexible hours, Gaithersburg area. Call 6 - 9 p.m. (301) 963-5841.

## **LASER PRINTER WANTED**

Christian Worship Assembly is looking for a good used laser printer for their office use. We are a non-profit organization and would appreciate any discount you can give us toward the purchase of this kind of printer, as it would be tax deductible. Free would be fabulous! Please call at 703/437-7747. All offers considered.

## **FOR SALE**

MacPlus - 2MB, 30MB HD, Fan, 101-key keyboard, external 800K drive, Thunderscan Scanner, case, other accessories. \$1030 or B/O. Brian 301/341-0178

## **OCR SCANNING**

OCR scanning \$0.50 per page. Call Jerry at 703/241-8556

## **ANYBODY OUR THERE DOING. . . ?**

I'm interested in talking with anyone doing work in the therapeutic use of computers on the minds of older persons. My special interest is in human memory and other cognitive functions, and how computers can enhance and promote mental functioning. Phil Shapiro, 202/686-54655 (home/office)

## **FOR SALE**

Mac Table 48" \$239; ImageWriter I with Thunderscan \$220; Kayak \$349. Call Joe Klimek, 301/299-5137



**DONATIONS NEEDED**

Macintosh System and all telephones stolen from church and non-profit N.C.S.C. office next door. Mission San Juan is a ministry to inner city Hispanic residents. Late Sunday, April 14th, a break-in occurred at the church office and all the telephones and the Macintosh computer system were stolen and the thieves also broke into the adjacent non-profit office of the N.C.S.C. stealing all of the expensive two-line phones in that office also. I don't believe either office had insurance coverage. Because of hard times, donations have fallen off and they can not afford to replace the phone or computer systems. Please consider a tax deductible donation to either or both of these organizations of your Macintosh system or office phone equipment. Thank you!  
 Contact: Guy Durant at 202/363-0366 for donation information.

**DONATIONS WANTED**

The Washington Apple Pi office is looking for a typewriter for use in the office, electric or manual, preferably in working order. If you have one you would like to donate, please call the office at 301/654-8060.

**ENGINEERING CAREERS JOB PLACEMENT SERVICE**

Specializing in Computer Scientist/Engineers with EBI/SBI & Poly. Call or send resume: 301/740-2610, P.O. Box 1750, Ellicott City, MD, 21043

**DINOSAUR LOOKING for a HOME**

Xerox 850 computer, model A, printer too, lots of 8" disks, in service at the British Embassy as recently as 1987. Call Perry at 202/829-8260 or 202/722-4907.

**TEACHER WANTED**

Want to learn Think C Programming for Mac. Have software, book and Mac Plus, and know HyperCard. Willing to pay for personal instruction. Call Jamie at 703/437-3921.

Continued from Page 13

have installed, removed, reinstalled so many Fonts, DAs, applications and versions of System Software that I wasn't really sure what was what any more. There were all these preference folders, dictionaries and other miscellaneous "stuff" floating about. Since I keep my originals reasonably accessible, I thought I might take this opportunity to clean house a bit.

The first thing I did was to use Font/DA Mover to make a backup of all of my currently installed fonts and DAs. I did take the opportunity to only copy the fonts and DAs that I really use, as opposed to all of the stuff that somehow accumulated over the years. I also separated all of the INITs and CDEVs and kept them in a separate folder. Next I took careful inventory of all the files on my hard drive. I used DiskFinder by Williams and Macias, but just about there are a number of equally good public domain or shareware programs to do the same. (Disk Librarian is a shareware program that you should be able to get from the WAP disk library or either the WAP TCS or the Twilight Clone BBS systems.) Now I was ready for the next part.

**Updating Your Hard Disk's Driver**

Sounds high-tech, doesn't it? This part is all too easy to try and ignore. When you bought your hard drive (or if it came with your computer), it probably came preformatted. Most of us just plugged it in and off we went. Unfortunately for some people, that won't be good enough. Some of the hard drive software isn't compatible with System 7.0. The only way to know for sure is to call your hard drive manufacturer and ask if the hard drive utilities software version you got with your drive is compatible with System 7.0.

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## Design Contest

by Louis Biggie

Computer professionals, analysts, programmers, all kinds of computer users, and specialists in disabilities and rehabilitation from all over the country are joining in a unique competition, The Johns Hopkins National Search for Computing Applications to Assist Persons with Disabilities. A \$10,000 Grand Prize will be awarded to the inventor of the best computer program or device that assists persons with disabilities. Over one hundred additional prizes will also be given to other winning entries.

Sponsored by the National Science Foundation and MCI Communications Corporation, the National Search is intended to encourage creative and affordable solutions to many problems faced by persons with disabilities.

Dissemination of the information collected is another important goal. "We want to heighten the nation's awareness," said Larry Oliver of the National Science Foundation. "We expect creative people from all walks of life to conceive and implement an unparalleled array of solutions that will improve the quality of life of individuals with disabilities. The public needs to know about the many solutions that computing technology can provide."

### *National Teleworkshop*

"This is more than just a contest," said William Buchanan, National Search Project Engineer. "Throughout this year, we will be holding major events around the country encouraging people to

apply their creative resources to helping the sector of our population in the greatest need." A recent National Search telecast was beamed out to an estimated 5,000,000 viewers. Simultaneous workshops were held at universities and rehabilitation institutions throughout the 10 Federal regions of the United States, and participants were able to telephone questions to a panel of experts in Washington, D.C. Louis Biggie, National Search coordinator, attended the Boston University workshop, where he reported "great enthusiasm and excitement...The participants here weren't just curiosity seekers," Biggie said. "Many were ready with inventions, and wanted to enter the competition on the spot."

### *Smithsonian Institution*

In December, 1991, Science Museums all over the country will hold special exhibitions where hundreds of regional winners will be selected and prizes awarded. The top 30 regional winners will be invited to exhibit in The National Exhibition at The Smithsonian Institution in Washington, D.C. At this event, the top 10 National winners will be selected and honored with special awards.

### *First National Search*

In 1981, a similar project, The Johns Hopkins First National Search, yielded over 8,000 participants and resulted in inventions that have become standard equipment for many of the nation's 25

million disabled citizens. "The Johns Hopkins National Search ... has been pivotal in priming research..." according to Elizabeth Lahm, product development and dissemination coordinator for the Council for Exceptional Children.

### *Adaptive Firmware Card*

The Apple Adaptive Firmware Card is among the many useful inventions emerging from the First National Search. Used by thousands of Apple II users, it provides easy access to computers for many creative and productive persons with physical limitations.

A reason for the success of this product is its transparency to software programs. This meant that a very large number of unmodified standard programs could now be used by many people with a variety of disabilities.

### *Reading Machine for the Blind*

Raymond Kurzweil of Newton Highlands, Massachusetts, won a prize for adapting his highly acclaimed Reading Machine for the Blind to interface with a personal computer. It converted ordinary printed or typed materials in numerous sizes, styles, and formats into unlimited vocabulary, full-word, synthetic English speech. The system could even scan a program listing, recognize it as a computer program, load it into a personal computer, and actually run the program.

### *Paper and Pencil for the Blind*

Deane Blazie of Blazie Engineering, a winner in 1981, says that the First National Search "changed my life and the lives of thousands of specially abled persons."

His entry, TOTAL TALK, a talking computer terminal for the blind won national acclaim for giving the blind access to comput-



ers. His work did not stop after receiving his award. His current product Braille 'n Speak is hailed as the pencil and paper for the blind, and at less than \$1,000 can be afforded by many blind persons.

### *A Changing World*

"The world has changed dramatically since the 1981 Search," notes Paul Hazan, the National Search Project Director, who also directed the 1981 Search. "In 1981, there were only a few hundred thousand personal computers in the country. Today, there are over 20 million. Furthermore, the equipment is much more capable and numerous, versatile and standard software tools are available. There is also a large, more sophisticated, and knowledgeable body of users, who are aware of, and care about, the needs of persons with disabilities."

### *Legislation*

Legislation, such as the 1989 Americans with Disabilities Act, which goes into effect on July 26, 1992, and the 1988 Technology-Related Assistance Act have encouraged disabled youth and adults to seek employment in today's rapidly changing workplace. These laws support and fund adaptive technologies, architectural access, and provide for occupational training of individuals with disabilities. The intent of this legislation is to provide incentives for companies to help extend the reach of persons with disabilities and enable them to achieve their full potential.

Frequently, a computer-based device, such as HeadMaster, a headset that allows users who are paralyzed to use a Macintosh, can permit a severely disabled person to compete in the workplace. "Meaningful employment provides the disabled individual with an enhanced quality of life," according to Rita Thomas Noel of Western Carolina University.

### *Economic Benefits*

There are also economic benefits to employing persons with disabilities. For those without jobs, lifetime disability payments plus the cost of medical and social services may easily amount to more than \$1,000,000.

The Federal Government regards the annual value of a job to public revenues to equal \$65,000 in terms of total taxes paid, the saved costs of social services, and the ripple effect from consumer spending.

### *Growing Awareness*

Technology companies are increasingly aware of the need to develop and market "disability-friendly" software.

- Easy Access, a program that is bundled with every Macintosh sold, changes the numeric keypad into cursor controls.

- IBM has developed Phone-Communicator, a system that brings a wide range of telephone communication options to persons who are hearing and/or speech impaired.

Other computer-based devices already on the market include keyboard emulators, screen reading devices, electronically controlled wheel chairs, and portable respirators.

Hazan emphasizes that a competition entry does not necessarily have to involve high technology. "It is far more important that the device be useful and affordable," he says. For example, a versatile low-cost computer screen magnifier would qualify because of its value to partially sighted people.

An effective computer-assisted instruction program for learning disabled children or a tutoring or communication aid for the deaf or hearing impaired could all win awards and help thousands of individuals.

### *Conclusion*

For most of us, computer technology is a convenience. But for a person with a disability, a computer-based aid or tool can mean the difference between dependence and independence, between frustration and true self-fulfillment, and between boredom and meaningful leisure. For a learning disabled student, a well-conceived program can open doors to education and a bright future.

The National Search is a wonderful opportunity to change the lives of thousands or even millions of people. It is open to all residents of the United States.

The competition deadline is August 23, 1991.

Persons wishing to enter the competition should request an entry flier by writing to:

CAPD, P.O. Box 1200,  
Laurel, MD 20723.



# WAP Membership Directory

by Dana Schwartz and Nancy Pochecko

The Washington Apple Pi Membership Directory will be published in the next few months. There will be over 3,500 names listed, and with such a large number, there are bound to be some errors. In order to catch some of these problems before publication, we have listed below the WAP membership numbers of those members who *will not be* included. The list includes new member numbers up to #15761, and information received (via renewals and other

communications) in our office as of *May 28, 1991*. An asterisk (\*) to the right of the number indicates that you have given WAP permission to publish your information in the directory but did not give us a telephone number. If you want to be included, you must supply a telephone number. If you do not want to be listed, and your membership number is not in the list below, please advise us that you do not want to be included.

The Directory will include ONLY the following information: first and last name, home phone number, city and zipcode. There will be two lists, one sorted alphabetically and the other sorted by zip code. The Directory will be distributed only to those persons who have given WAP permission to include their names. There will be a nominal cost for the Directory (to cover printing costs), and details of pre-ordering will be included in next month's Journal.

If the information below is incorrect, or if you wish to change your directions to WAP, please fill out and return the form located on page 77. Changes and corrections *MUST* be received in the WAP office no later than July 26, 1991. We will not be able to include information arriving after that date.

00027	00783	01998	03816	04848	05885	06586	07111	08081	08560
00123	00825	02217	03841	04893	05898	06607	07138	08093	08575
00201	00870	02254	03877*	04899	05917	06682	07147	08102	08587
00207	00878	02307	03904	04941	05957	06759	07149*	08181	08605
00234	00891	02345	03949	04943	05995	06765*	07183	08208	08692
00250	00960	02590	03995	04977	06019	06772*	07219	08235	08694
00257*	00967	02619	04133	05100	06023	06786	07243*	08249	08726
00284	01009	02652	04157	05106	06062	06839	07286	08254	08730
00450	01298	02754	04202	05121	06064	06846	07306	08263	08761
00451	01313	02895	04261	05131	06166	06869*	07316	08265	08778
00455	01338	02943	04284	05154	06247	06899	07424	08281	08841
00462	01340	03056	04462	05328	06339	06939	07427	08323	08846
00475	01440	03118	04512	05538	06354	06965	07434	08352	08859
00567*	01449*	03171	04551	05574	06355	06990	07438	08357	08881
00568	01466	03186	04569	05587	06400	06997	07557	08390	08888*
00582	01469	03194	04649	05650	06411	07037	07627	08426	08897
00586	01501	03223	04787	05724*	06445	07046	07730	08470	08945
00601	01530	03295	04789	05727	06454	07048	07856	08476	08995
00649	01746	03367*	04802	05749	06533	07060	07873	08478	09002
00721	01752	03381	04803	05803	06557	07091	07894	08513	09035
00727	01777	03512	04822	05835	06569	07099	07898*	08558	09043
00750	01920	03573	04838	05852	06585	07100	08057	08559	09056



09061	10041	11179	12036*	12957	13654	14181	14655	14983	15231
09095	10055	11191	12043	12983	13693	14199	14657	14984	15235
09100	10146	11197	12137	12985*	13694	14253	14661	14993*	15237
09105	10155	11211	12139	12986	13703	14254	14664	14994*	15244
09133	10156	11219	12180	13006	13706	14266	14691	14997*	15251
09141	10159	11230	12194	13055	13725	14271*	14695	15000*	15257
09258	10169	11262	12231	13091	13730	14273*	14696	15003	15263
09260*	10170	11279	12240	13117*	13751*	14297	14698	15013	15265
09270	10211	11306	12274	13133	13780	14329	14699	15019	15267
09279	10254	11318	12318	13134*	13785	14361*	14710*	15026	15272
09332*	10282	11327	12332	13164	13789	14366	14712*	15032	15279
09382	10378	11344	12364	13168	13795	14385	14713	15036*	15287
09407	10410*	11417	12366	13179	13807	14388	14715	15039	15294
09423*	10423	11445	12367	13233	13809*	14395	14717	15048*	15296
09433	10449	11471	12385	13252	13834	14398	14721*	15051	15298
09456	10479	11499	12398	13264	13835	14410	14726	15052	15300
09500	10562	11500	12422	13286	13838	14414	14731	15054	15301
09553	10578	11504*	12440	13317	13848*	14417	14743	15058	15315
09560*	10610	11518	12445	13318	13866	14436	14749	15059	15317
09585*	10620	11525	12465	13326	13891	14468	14752	15073	15321
09588	10640	11533	12520	13331	13897	14479	14758	15075	15327
09610	10646	11550	12522*	13345	13914	14481	14759	15077	15330
09628*	10653	11600	12526	13347	13915	14485*	14767	15083	15332
09658	10664	11622	12543	13354	13924	14486	14772	15087	15334
09660	10700	11662	12563	13355	13925*	14488	14774	15097	15335
09664	10714	11677	12575	13364	13947	14496	14791	15110	15336
09731	10723	11704	12589	13380	13952	14511	14793	15128	15339
09749	10787*	11709	12603	13385	13962	14513	14796	15133	15340
09756	10807	11724	12633	13398	13968	14517	14801	15138	15345
09760	10808	11727	12656	13408	13973	14526	14809	15141	15353
09767	10809	11741	12658	13412	14012	14530	14823	15142	15356
09810	10810	11751	12661	13463	14021	14569	14826*	15145	15359
09815	10901	11754	12673	13478	14028	14572	14829*	15148	15363
09845*	10913	11770	12686	13485	14034*	14575	14899	15152	15368
09850	10918	11812	12696	13487	14045	14576	14909	15168	15371
09857	10935	11824	12708	13513	14050*	14578	14922*	15185	15380
09869	10953	11826	12712*	13534	14054	14597	14929	15189*	15385
09899	10977	11872	12741	13538	14060	14600	14936*	15191	15394
09911*	10987	11904	12751	13556	14065	14608	14945	15193	15405
09916	11022	11923	12774*	13561	14104	14610	14951	15205	15410
09923	11080	11948	12784	13570	14136	14612	14955	15207	15412
09957	11098	11985	12812	13612	14148*	14616	14957	15213	15417
09977	11133	12004	12825	13643	14166	14640	14958	15217	15418*
09995	11139	12013	12875	13645	14170	14641	14960	15224	15419
10015	11154	12030	12876	13649	14180	14646	14973*	15225	15421



15422	15477	15557	15620	15697
15424	15478	15560	15635	15704
15425	15482	15563*	15636	15706
15426	15486	15564	15638	15711
15428	15487	15565	15646	15714
15436	15490	15572	15648	15721
15438	15491	15573	15652	15725
15443	15492	15575	15653	15726
15444	15498	15576*	15654	15728
15445	15503	15586	15661	15734*
15450	15504	15589	15662	15741
15451	15505	15591	15667	15750
15455	15511	15594	15668	15759
15458	15513	15596	15671	
15460	15514	15597	15679	
15461	15526	15608	15680	
15462	15527*	15609	15684	
15463	15532	15610	15688	
15464	15538	15613	15690	
15471	15539	15617	15694	
15473*	15551	15619	15695	

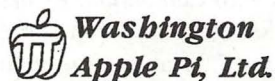
Bylaws Change

Article VII, "Board of Directors," Section 9 was amended by the Board of Directors at its regular meeting on June 13, 1991, in response to the Board's conclusions about the effectiveness of efforts to make telephone participation in Board meetings work effectively. This change is effective July 1 when the term of the new Board begins. Deleted material is shown in ~~strikethrough~~. New material is shown in dotted underscore.

Amendment to Article VII, BOARD OF DIRECTORS:

**SECTION 9. ACTION BY CONSENT ~~OR BY TELEPHONE~~.** Any action required or permitted to be taken at any meeting of the Board of Directors may be taken without a meeting if a written consent to such action is signed by all members of the Board of Directors and such written consent is filed with the minutes of the proceedings of the Board. ~~The Board of Directors may participate in a meeting by means of a conference telephone or similar communications equipment by means of which all Directors participating in the meeting can hear each other at the same time. Participation by such means shall constitute presence at such meeting.~~

**SECTION 10. PROXIES.** Participation in a Board of Directors meeting requires personal attendance. No Director may vote by proxy at a meeting of the Board of Directors.



**MEMBER DIRECTORY  
CHANGE NOTIFICATION**

Use this form **ONLY** if you wish to **CHANGE** your instructions to Washington Apple Pi. See the article titled "Member Directory" elsewhere in this issue for details and instructions.

NAME (Please print) \_\_\_\_\_

MEMBERSHIP NO. (Required) \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIPCODE \_\_\_\_\_

HOME PHONE NUMBER (Please include Area Code) \_\_\_\_\_

Please check one (only) of the following boxes:

- I **DO NOT** want to be included in the Member Directory
- I **AUTHORIZE** the release of my name, city, state, zipcode, home phone number and machine type to other members through the Membership Directory. (Phone number **MUST** be supplied above)

Washington Apple Pi policy prohibits releasing a member's personal information unless you authorize the release of that information by checking one of the boxes above and signing your name below. You must choose to be included in the Directory in order to obtain a copy of it. Your response on this form will supersede any previous instructions to WAP.

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

Please return this form to the WAP Office, so that it is received no later than July 26, 1991. Mail to:

Washington Apple Pi, Ltd.  
Attn: Member Directory  
7910 Woodmont Avenue, Suite 910  
Bethesda, MD 20814





## Macintosh Disk Library

### New Disks

We have 14 new disks this month; five TrueType™ Fonts series (Mac Disks #7.01 through #7.05) and nine Apple Macintosh System Software 7.0 series (Mac Disks #SS.D1 through #SS.D8 and Before You Install).

### TrueType™ Fonts series

With the introduction of System 7.0 which includes the TrueType™ outline font technology, the font developers have been busy converting their Type 1 PostScript fonts to TrueType font format. We have collected five disks worth in the past month and have started a new disk series (Mac Disks #7.01 through #7.05). The TrueType fonts will give you excellent results from a PostScript printer, an ImageWriter or DeskWriter printer and on the screen. This is true for most any point size as long as the size is not too small for the resolution of the printer or screen. Since System 7.0 makes installation of fonts simple, we were able to easily produce samples of each of the TrueType fonts. These samples will be available at the office to help you in your selection of disks.

Remember, you may also use TrueType fonts with Systems 6.0.5 and 6.0.7 if you install the two Apple TrueType disks; *TrueType Fonts and Software* and *TrueType Printing Tools*. The Fonts and Software disk includes the required font suitcase, the Font/DA Mover and the INIT for the System folder.

The Printing Tools disk has all of the necessary drivers for Apple's laser and impact printers. This two-disk set is available from the Disketeria; see the order form in the back of the Journal.

### System 7.0 Frenzy

As I write this (on Sunday, May 26th), Washington Apple Pi has already sold over 120 nine disk sets of System 7.0 to members in just eight days. That translates to nearly 1,100 disks copied in the last eleven days. Folks, this is one popular item—we didn't have this much interest in the HyperCard 2.0 update in three months.

Macintosh System Software Version 7.0 (the *official* title) is available from a variety of sources. You may purchase official updates from Apple dealers, you can buy the disks from WAP or you can download them from the TCS or other bulletin boards. What you decide to do depends on your needs and your level of expertise.

You may buy a System 7 Personal Upgrade Kit or a System 7 Group Upgrade Kit from Apple dealers (\$99 and \$249 list). This gives you an attractive package with eleven floppy disks and all of the Apple documentation. Two of the eleven disks include updates to HyperCard to version 2.1. If you buy from a dealer, they may hold your hand during the installation; at that price they should so ask first. Also ask about discounts for WAP members.

The WAP is permitted to distribute the nine disks which include the eight System 7.0 disks and a *Before You Install* disk with *Compatibility Checker*. The Apple documentation is not included and we are not permitted to distribute the HyperCard 2.1 update. We have priced the nine disk set on special for \$20 for members and \$45 for non-members or \$55 for disks and membership.

Compressed versions of the nine disks are also available on the TCS and many other bulletin boards such as GENIE. You may download them at your leisure. Be forewarned that downloading will take a lot of time—definitely not recommended if you are paying connect charges or long distance charges.

The install procedures are relatively painless for anybody with just the basic (point, select and double click) knowledge of the Macintosh. The *Before You Install* disk with *Compatibility Checker* stacks introduces each of the new System 7.0 features and requires HyperCard 1.2.2 or higher. The *Compatibility Checker* prints out a Compatibility Report of all the software on your disk. It will also move any incompatible or unknown items in the System folder into a separate folder for later testing or update. The first disk, *Install 1*, includes an Installer program that will update the contents of any designated System Folder to System 7.0 or will install System 7.0 from scratch. After you double click the Installer icon and click OK, you may then proceed by clicking *Install* for a standard installation. (A *Customize* selection is also available for the more adventurous or experienced.) From the time you click *Install*, installation is automatic and the Installer will ask you to insert each of the disks in turn until installation is complete. Plan on about one half to one hour for the installation





exclusive of testing old applications and system files.

Once installed, you are in for a treat. System 7.0 is much more powerful than earlier systems but it is also more intuitive and easier to use. The Balloon Help (available in the menu on the top right hand corner of the screen) will help the novice learn the function of the various menus and Apple files and applications.

One last word on System 7.0. Make sure that you test even those files and applications that the *Compatibility Checker* declares as incompatible and in need of an update. Some publishers may be using System 7.0 as a marketing tool to sell upgrades to more capable versions. Your current version may work quite well but may not take advantage of some of the more advanced System features such as Publish and Subscribe. While you are testing, be prepared for System Bombs by backing up thoroughly and often. Happy Super 7 to all of you.

### Mac Disk Catalog

We will resume updating the Mac Disketeria Catalog just as soon as this article is finished. Update was suspended during the production of the System 7.0 disk sets and during the development of the TrueType Font Series. If all goes well, the catalogs will be available by early July. The catalog covers all Macintosh disks issued through July 1991 and includes disk descriptions and alphabetical lists of programs and files.

### About Shareware Requests

Please honor authors' requests for shareware fees if you decide to add shareware 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 #7.01 — TT 1 TRUETYPE™ FONTS

**Albatross TT f: Albatross:** By LORVAD™ (formerly Printers Devil). A body text font with a moderately short x-height. The relative point size is a bit small, i.e., 14 point is closer to what most people would consider 12 point. It contains all the regular characters and many special characters. **Read Me First-LORVAD.txt** is in text format. **Shareware — \$10.**

**Architect TT f: Architect:** By Hank Gillette. Architect simulates hand printing of the type typically done by architects. It was inspired by Adobe's font Tekton™. It has a full set of letters, numbers, and punctuation, and quite a few extra characters. **Architect Read Me** is in MacWrite format.

**Black Chancery TT f: Black Chancery:** A 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?

**BlackForest TT f: BlackForest:** By LORVAD™ (formerly Printers Devil). A font with an old world German feel with intricate upper case letters. It is designed without any curves. Best at larger sizes. **Read Me First!!** is in text format. **Shareware — \$10.**

**BODIDLYBold TT f: BODIDLYBold:** By LORVAD™ (formerly Printers Devil). A font that looks great in small or large sizes. This one can readily pass for Poster Bodoni at a fraction of the cost. **Read Me First!!** is in text format. **Shareware — \$10.**

**CartWright TT f: CartWright:** By LORVAD™ (formerly Printers Devil). A font inspired by the Adobe wood type Ponderosa font. Just the font for designing those old west wanted posters. **Read Me First!!** is in text format. **Shareware — \$10.**

**DavysDingbats TT f: DavysDingbats:** By David Rakowski. A 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. **Read me DavysDingbats** is in text format. **Shareware — donate \$12 or more to Columbia University.**

## Disk #7.02 — TT 2 TRUETYPE™ FONTS

**DavysOtherDingbats TT f: DavysOtherDingbats:** By David Rakowski. Another font full of really cool pictorial characters including Calvin, Hobbes, Schroder and Snoopy and other pictures of interest. **Read me DavysOtherDingbats** is in text format.

**DavysRibbons TT f: DavysRibbons:** By David Rakowski. A font that looks like a long, unfurled banner or ribbon displaying the letters. **Read Me DavysRibbons** is in TeachText format and includes a sample picture of the font. **Shareware — \$7.49 to Columbia University.**

**Display2 TT f: Display2:** By David Rakowski. A collection of display fonts. **Read me Display TT fonts 2** is in TeachText format and includes pictorial samples of the fonts. **Shareware — \$3.99 for each font (except Zaleski \$.99) to Columbia University.**

**Polo Semiscript:** A brushstroke font with plenty of swashes. It makes a good specialty font for advertisements when an informal feel is desired.

**Pixie:** A Type font that roughly looks like Bodoni must look like after ten or more beers — an uneven, hand-drawn serif font with a wide variation of thicks and thins. It makes a good specialty font for advertisements when an informal feel is desired or when you want to recreate generic 1950's advertisements from Boys Life or Mechanix Illustrated. **Read me Pixie** is in text format. **Shareware — donate \$4.99 to Columbia University.**

**Rudelsberg:** The 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, in that the lower case letters are a little 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.

**Zaleski Caps:** A font named for Jean Zaleski, the New York painter who is, among other things, short. It is modeled on an Art Deco typeface called Ashley Crawford. It is bold and brash and serified. Numbers and punctuation are also in the font.

### Disk #7.03 — TT 3 TRUETYPE™ FONTS

Display1 TT f: By David Rakowski. A collection of display fonts. **Read me Display TT fonts 1** is in TeachText format and includes pictorial samples of the fonts. **Shareware - \$3.99 for each font to Columbia University.**

**Crackling Fire:** An all-caps font, plus period, comma, exclamation point and question mark. It looks like Dom Casual letters beginning to go up in flames.

**ParisMetro:** A font that is modeled on the font used on some of the old Art Nouveau Metro stations in Paris. It is also a rather black font. In this font is a full set of upper-case characters — no lower-case characters — as well as full punctuation and numbers.

**Showboat:** A font created with Fontographer 3.1 in an old nineteenth century *marque'e* style. It includes all 26 capital letters plus rudimentary punctuation.

**Starburst:** A display font with caps, numbers 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.

**Tribeca:** A font containing a full character, number and punctuation character set. It is modeled on "Newton Inline," an Art Deco font often used for titles on paperback editions of mysteries.

Dubiel TT f: **Dubiel** and **Dubiel Italic.** 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 re-

sources 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.

**Read me Dubiel fonts/TT** is in TeachText format and includes samples of the font. **Shareware - \$14.99 to Columbia University.**

Fleurons TT f: **Fleurons:** This typeface of fleurons (printer's flowers) are modeled on those found in John Ryder's "A Suite of Fleurons" (Charles T. Branford, Boston, Massachusetts, 1957). Most all of the flowers date from the 18th century. An accompanying Illustrator file shows all of the characters and indicates some ways of using them.

### Disk #7.04 — TT 4 TRUETYPE™ FONTS

GoudyHundred TT f: **Goudy Hundred:** By Stephen Moye. This typeface is a rendering of Frederick Goudy's Bertham type. The drawings and matrices were lost in a fire in 1939. The complete roman font is shown in Goudy's "Half Century of Type Design" (page 210). The font was named for Goudy's wife, Bertha. **ReadMe GoudyHundred** is in text format.

Graphic Light TT f: **Graphic Light:** By Richard Mitchell. A 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 READ ME - TrueType font** are in text format.

Harrington TT f: **Harrington:** By Sam Wang. A flamboyant Art Nouveau font that's full of curls and curves; perfect for love letters. It's complete with upper and lower case and numbers. **ReadMe** is in text format. **Free but \$5 donation gratefully accepted.**

Informal Oblique TT f: **Informal Oblique:** By Phil Noguchi. This is a fully functional slanted font useful for informal correspondence and note taking. It replaces the shareware font Slant Informal in public distribution; this is a complimentary ProtoType™ font. **Informal Oblique 21 April 1991**

and **Wd Informal Oblique 21 April 1991** are in text and Word formats respectively.

InkaBod TT f: **InkaBod:** By LORVAD™ (formerly Printers Devil). A display font designed without any curves. With one or two exceptions, all angles are multiples of 45 degrees. **Read Me First-LORVAD.txt** is in text format. **Shareware - \$10.**

Judas TT f: **Judas:** By LORVAD™ (formerly Printers Devil). A display font patterned on Adobe wood type Ironwood. It contains only caps, numbers, and a few special characters and seems to look best at 16 points or larger. Very interesting negative space. **Read Me First-LORVAD.txt** is in text format. **Shareware - \$10.**

Lemiesz & Salter TT f: **Lemiesz and Salter:** By David Rakowski. Lemiesz is modeled on the font Publicity Gothic and looks like a very bold sans serif font with rough edges. Salter 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 TT** is in TeachText format and includes samples of the fonts.

LoopDeLoop TT f: **LoopDeLoop:** By LORVAD™ (formerly Printers Devil). A fun display font with uppercase characters patterned on Bee Line. They have a stroked effect simulating a continuous line, looped to create each character. The lowercase characters are a solid variation on the shape of the uppercase. **Read Me First-LORVAD.txt** is in text format. **Shareware - \$10.**

Manhattan TT f: By David Rakowski. A TrueType conversion of earlier Type 1 Postscript fonts. **Readme Manhattan TrueTypes** is in TeachText format and includes samples of the fonts. **Shareware - donation to Columbia University as indicated.**

**Upper East Side:** An art deco style that works well in both text and display applications. It contains a full set of characters, including diacritics, and has 477 kerning pairs. It resembles the well known Parisian display font. **\$9.99**

**Upper West Side1:** This font is the font which is used for the logo of the NEW YORKER magazine and





which is also used for headings throughout each issue. It contains a full set of upper- and lower-case characters, punctuation, and numbers. And several characters are filled with the image of the New Yorker's famous FOP. **\$9.99.**

**Lower East Side:** A font modeled on an Art Deco typeface called Astur. It looks like bold, 3-D brush strokes forming the characters with deep shadows — it also tends to look like bent pieces of plywood with shadows. It is kerned, and ought to be used for display text only at sizes 72 points and larger. **\$2.99.**

**Lower West Side:** A font created with Fontographer 3.1. It contains a full upper- and lower-case alphabet, numbers and punctuation — no diacritics. It is based on the typeface "Shatter" and looks much like the famous signs saying things like "STRESSED OUT?" or "ARE YOUR EYES BAD??" Obviously the typeface is of limited use, except for calculated irritation. **\$2.99.**

## Disk #7.05 — TT 5 TRUEType™ FONTS

**Mazama TT f: Mazama:** By James M. Harris. A beautiful TrueType-compatible display typeface based on M.G.B. Patrician. This font has uppercase characters, numerals, and punctuation only. There are numerous alternate swash characters for most of the characters (several characters have two alternates). Read Me—Mazama is in text format. **Shareware — \$25.**

**OSWALDblack TT f: OSWALDblack:** By LORVAD™ (formerly Printers Devil). A display font that looks great in small or large sizes. **Read Me First-LORVAD.txt** is in text format. **Shareware — \$10.**

**Premium Thin v2.0 TT f: Premium Thin:** By James M. Harris. This Type 3 decorative typeface is based upon a very famous display typeface called Premier Lightline. It now 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. **Read Me—PremiumThin** is in text format. **Shareware — \$25.**

**Rak Student TT f:** By David Rakowski. A collection of True Type conversions

of earlier PostScript fonts. **Shareware—donate \$2.99 for each font to Columbia University.**

**Benjamin Caps:** A font in the Art Nouveau style; it has a wood-carved feel to it. All 26 capital letters are in the font, and the tail of the capital 'Q' is amazingly long.

**Carrick Caps:** A font which contains all 26 capital letters. The I and the J, however, look exactly alike. The letters are drawn in black in a gothic style, on top of a stained-glass window (kind of) pattern.

**Green Caps:** A font in the Art Nouveau style, consisting of all the capital letters plus numbers and a period. Each letter is an outline letter on the top half, a black letter on the bottom half, so each looks like it is "half full" of ink.

**Horst Caps:** Another font in the Art Nouveau style, and consists of a set of script capital letters with fairly substantial curly-Q's. The font lacks I, X and Y.

**Kinigstein Kaps:** A that consists of 23 capital letters (Q, X and Y are missing). It is drawn in a decorative Art Nouveau style such that each cap is drawn in black and looks somewhat as if it's been pressed onto a square of foil.

**Konanur Kaps:** A font with all 26 capital letters drawn in an Art Nouveau style such that each cap is drawn in black and surrounded with some simple, round pen strokes.

**Lee Caps:** A font that contains all 26 capital letters, numbers, and punctuation. The characters have a 3-dimensional look.

**Reynolds Caps:** A caps-only display font in an Art Nouveau style.

**Varah Caps:** A font that consists of all 26 upper-case alphabetic characters drawn as black characters on what looks like rectangular stained glass windows in the background. It is extremely detailed and ornate. Because it is so detailed, it is not recommended for use in sizes smaller than 48 points on a 300-dpi printer, not smaller than 120 points on an ImageWriter.

**Relief Deco TT f: Relief Deco:** By David Rakowski. A 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. **Read me Rudelsberg** is in text format. **Shareware — \$2.99 to Columbia University.**

**Saint Francis TT f: Saint Francis:** By Hank Gillette. Saint Francis is a TrueType version of Apple Computer's venerable San Francisco font. It has the full character set that San Francisco has, plus some alternate characters (try Option e, Option g, and Option W), and some visual puns included for the author's amusement. **SaintFrancis Read Me** is in text format.

**Thomas TT f: Thomas:** By David Dowe. This font is a slightly antique looking book face best shown in 9 or 10 points but perfectly suitable for larger display uses. The face is based on Caxton - a font named after William Caxton, the printer/publisher who first published Chaucer's works.

## SYSTEM SOFTWARE 7.0

This package is available only as a nine disk set (or as replacement disks in exchange for defective media). It is Apple's new Macintosh standard for personal computing bringing dynamic new capabilities and greater ease of use to everyone who uses a Mac. It requires a Mac with a minimum of 2 megabytes of memory and a hard disk drive. The package consists of the following disks:

**Before You Install System 7**

**Install 1 — SS.D1**

**Install 2 — SS.D2**

**Install 3 — SS.D3**

**Fonts — SS.D4**

**Printing — SS.D5**

**Tidbits — SS.D6**

**More Tidbits — SS.D7**

**Disk Tools — SS.D8**



*On the learning curve...*

## Tutorials — July

by Keith Malkin

### *Washington Apple Pi Training Classes for July*

Have a new computer, but don't quite know how to use it? Want to learn a specific program, such as Word or AppleWorks? Whether you're a novice or an old pro exploring new subjects, the Washington Apple Pi Education & Training Program has something for you. We provide classes for WAP members on a regular basis. We have training for non-members too—it's just a little bit more expensive. We've provided complete course descriptions for the Macintosh tutorials courses. Unless otherwise indicated, all class sessions are scheduled for three hours and will be held at the WAP office in downtown Bethesda.

We urge you to bring your computer with you to most classes, since we have none for you to use at the office. If you can't bring your own computer, you'll have to look over someone else's shoulder. Please note that some classes, conducted in the seminar format, do not require you to bring your computer.

Occasionally, the WAP class schedule changes due to conflicts or other circumstances beyond our control. Please call the office at least one business day before the class date to confirm that your class will be held as scheduled. We regret any inconveniences that may arise.

### *Payment for Courses*

The fees for each session are generally fifteen dollars for members, twenty dollars for non-

members. Please refer to the specific class description for exceptions. Register for classes by sending in the registration form (found in any recent issue of the Journal at the end of this article) or by phoning your registration into the office. Please do not ask any of the Education Program volunteers to register you. If you've signed up for a class and need to cancel, please do so two business days before the class, or we cannot refund your money.

### *Volunteers and Instructors*

Please send your ideas, comments, or suggestions to us. You can write to me, Keith Malkin, at 9505 Draycott Court, Burke, VA 22015-3253. We need your enthusiastic support and creativity to make the Washington Apple Pi Education & Training Program a success. Let us know:

- What courses, seminars, or workshops you would like to see offered
- Which subjects you want covered in a tutorial
- The most convenient times for you to attend a class
- The most convenient area for you to attend a class
- What course, seminar, or workshop you would like to teach.

We are always looking for instructors, seminar leaders, or teachers. Many of you have asked for classes on the following software packages:

- Claris FileMaker Pro
- Claris MacWrite II (a "Pro" version is forthcoming)

- Claris Hypercard 2.x
- Microsoft Works
- Timeworks Publish It Easy!
- Quark XPress
- Macintosh Programming, including Pascal and C.

If you are skilled in any of these subjects, please consider instructing. If you would like to teach, please call Bob Morris at: (301) 963-3129(h) or (301) 501-7814 (o). Instructors are compensated for their time, effort, and expense.

We wish to embark on a rather ambitious program of expansion to create a classroom laboratory environment within WAP, complete with hardware and software. (No more lugging your Mac to class!) The only way we can accomplish this is to increase class registration. If you are a graphic designer, commercial artist, illustrator, desktop publisher, editor, ad copywriter, or just an enthusiastic member, please give us a hand with publicity. (This could be a wonderful opportunity for self-promotion, if you are an entrepreneur.) Call me at (703) 503-5369, (9AM—6PM)

### *Macintosh Tutorials*

**Introduction to Macintosh, Part I** (Course # M10791). 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, Icons, the Active Window, and how they all work. You'll also investigate the components of the Control Panel.

Materials required: Your Macintosh, external drive, startup disk, and an unformatted disk.

Course Date: Monday, July 8, 1991, 7:00 PM—10:00 PM.

**Introduction to Macintosh, Part II** (Course # M20791). 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, external drive, startup disk, and an unformatted disk.

Course Date: Monday, July 15, 1991, 7:00 PM—10:00 PM

**Introduction to Macintosh, Part III** (Course # M30791). 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; you'll learn how to update your system files; about the Set Startup command; how to use the

Font/DA Mover; learn about MultiFinder; and finally, you'll learn about the various RAM configurations possible with each Macintosh.

Materials required: Your Macintosh, external drive or hard drive, startup disk, and an unformatted disk.

Course Date: Monday, July 22, 1991, 7:00 PM—10:00 PM.

**Using 4th Dimension by Acius** (Course #4D10791). How to make use of the powerful, relational database manager and its query language. Topics will include a discussion of the many features and functions of the award-winning program, database development and structure, database programming, nested and complex queries, and reports.

Materials Required: Your Macintosh and a copy of your 4th Dimension software.

Course Date: Tuesday July, 30, 1991, 7:00 PM—10:00 PM

**Seminars**

These classes do not require you to bring your computer.

**Maintaining Your Macintosh** (Course # OS30791). You asked for a course on how to maintain and troubleshoot your Mac; here it is! Topics will include avoiding system crashes, how to decipher error messages, how to manage Inits and avoid conflicts, backups, viruses, hard disk management, and Macintosh housekeeping philosophies.

Course Date: Monday, July 1, 1991, 7:00 PM—10:00 PM

**Using System 7.0** (Course # OS20791). A discussion of the new Macintosh operating system, including how to install and use its features. This seminar will take up where June's Overview left off. Topics will include the installation process, checking for compatibility, System 7 "friendly" applications, memory management and virtual memory, multitasking, inter-application communication and how to "publish and subscribe," TrueType, font/DA management, sound resources, and other new features of System 7.

Course Date: Tuesday, July 23, 1991, 7:00 PM—10:00 PM.

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





Continued from Page 72

If you happen to have an Apple hard drive, the disk name "Disk Tools" contains an application named "Apple HD SC Setup". Run that application and update your driver. Of course, before you do this you will make that backup I talked about, won't you?

If you don't have an Apple Drive or if you own multiple hard drives, you may want to consider purchasing SilverLining from LaCie. They have a System 7.0 compatible version and it is probably the best hard drive formatting utility available. (That is my own highly subjective judgement.)

You can always run the risk of just trying it for yourself. You may just get lucky. Of course, if you do start experiencing some unexplained problems, don't say I didn't warn you.

### Install System 7.0

Now is the time to make sure your hard drive has sufficient room. I had already deleted all of my old system folder and most of my applications. If you prefer not to reinstall most of your applications, you may have to make room by temporarily deleting some folders. You can always restore the folder from your backup.

Now go ahead and run the installer. When it's done, you're ready to reinstall any fonts and DAs that you originally had with System 6.

### FONTS

Last month I talked about WYSINWYG (What You See Is Not What You Get). I now have a better understanding of what caused that

problem. Of course, just because I understand it, doesn't necessarily mean my explanation will help you, but that never stopped me before.

Fonts have always been somewhat confusing. With all the great new technology, fonts have gotten much better and considerably more confusing.

Bitmap fonts are those fonts that you used to install with Font/DA mover. Unless you have ATM or TrueType, those are the fonts you normally see on your screen.

The term "outline font" describes a technology. Type 1 and Type 3 fonts are PostScript language outline fonts. TrueType is Apple's version of an outline font. Adobe Type Manager (ATM) is Adobe's way to display Type 1 outline fonts on your screen. Confused? You should be.

Bitmap fonts you already have. You may have ATM if you already bought it. If you don't have it already, you might never need it now. Some TrueType fonts come with System 7.0. The figure shows you what the icons for some of these font things (font things is a highly technical phase, rarely used in polite society) look like.

A really good question to ask is what happens when I have a bitmap font, TrueType, Type 1 and ATM of the same font all installed at once? Don't laugh—it does happen.

Suppose you are displaying 12 point Helvetica on your screen. If you have a 12 point helvetica bitmap installed, that's what gets displayed. If you don't have that bitmap installed, System 7.0 will try to display a TrueType version of Helvetica. If that isn't available, System 7.0 will next try to display an ATM rendition of Helvetica. When

none of the above are available, your Macintosh will try to scale a 12 point Helvetica from another size Helvetica. Sounds straightforward. On the screen the order is Bitmap, TrueType, ATM and scaled Bitmap.

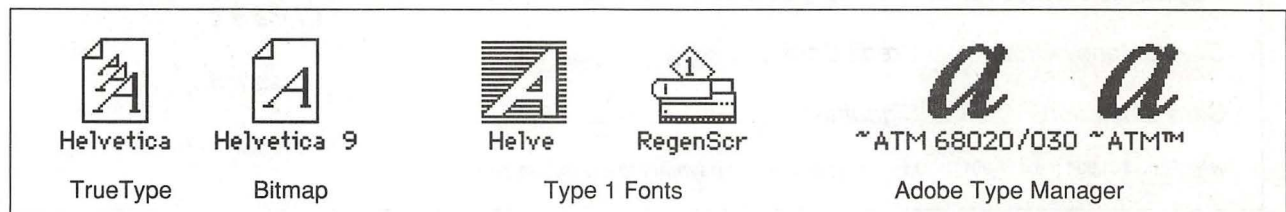
Would that life were so simple. When you print to a PostScript printer (LaserWriter IINT or NTX, LaserWriter Plus, Personal LaserWriter or one of many 3rd party printers) the order changes! The first to get printed is Helvetica from your printer's ROM. If that isn't available it will look next in the Printer's RAM, then it will try the printer's hard disk. Next it will try any Type 1 or Type 3 version of Helvetica in your system folder. It will try a TrueType version last. None of this would be a problem if TrueType and PostScript versions of Helvetica 12 were the same size, but they aren't necessarily the same width. Therefore, WYSINWYG.

With a non-PostScript printer (StyleWriter, ImageWriter, LaserWriter SC or the personal version, HP's DeskWriter, fax modems and other third party printers) the order is the same as on your screen.

What this means to you is that if you have a postscript printer, use TrueType versions of your PostScript fonts with extreme caution. If WYSINWYG, then check to see if you have both a TrueType and a Type 1 or 3 PostScript font installed somewhere.

### Next Month

Next month I'll go on about more of the wonders of System 7.0. Until then, just try some of the features out yourself. And don't forget to backup your hard disk.





## APPLE II DISKS

THESE ARE ALL 5.25" DISKS

### APPLE SYSTEM DISKS

APSD-01 System Disk - Utilities V.

### APPLEWORKS

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

### COMMUNICATIONS

COMM-01 TCS Instructions 1.05 A & B - Disk 1  
COMM-02 TCS Instructions 1.05 C & D - Disk 2  
COMM-03 WAPABBS.1 Documentation (121)  
COMM-04 WAPABBS.1 (135/136)  
COMM-05 DI COMM - Shareware (503)  
COMM-06 Kermit 3.78 - Kermit File Transfer  
COMM-07 Comm Term and Telecom (808/817)  
COMM-08 MicroModem II (SW) - Hayes Term

### 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 Docs /Essential Utills (407/410)  
CP/M-06 Text Editor and Spreadst (411/412)  
CP/M-07 MDM740 (SSC//7710, & A-CAT)  
CP/M-08 Kermit Source and Running Codes  
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  
EAMN-03 Beginners Cave (Master) & Alt  
EAMN-04\* Lair of Minotaur and Cave of the Mind  
EAMN-05\* Zypur Riverventure and Castle/Doom  
EAMN-06\* Death Star and Devil's Tomb  
EAMN-07\* Caves of Treasure Is. and Furioso  
EAMN-08\* Magic Kingdom and Tomb of Molinair  
EAMN-09\* Lost Island and Abductor's Quarters  
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 Ngurt Black Mountain  
EAMN-14\* Nuclear Nightmare /Feast of Carroll  
EAMN-15\* Master's Dungeon /Crystal Mountain  
EAMN-16\* Lost Adventure and Manxome Foe  
EAMN-17\* The Guantlet and Caverns of Langst  
EAMN-18\* Future Quest and House of Secrets  
EAMN-19\* Sewers/ Chi /Slave Pits of Kzorland  
EAMN-20\* Lifequest and Swordquest (215/216)  
EAMN-21\* Priests of Xim! and Heroes Castle  
EAMN-22\* Temple of the Undead and Quest  
EAMN-23\* Caves/Mondamen & Orb of Polaris  
EAMN-24\* Death's Gate /Escape From Orc's Lair

### EDUCATION

EDUC-01 Education and Personal Education  
EDUC-02 Personal Education 2 and Education 3  
EDUC-03 Math / Science and Education 4  
EDUC-04 Advanced Math and Vectors / Motion  
EDUC-05 Albert Camus Int and Elementary Math  
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  
EDUC-09 French Poetry Tut and Apollinaire  
EDUC-10 Rafel Boot Disk and Rafel (55/56)  
EDUC-11 Tic-Tac-Toe in Spanish /Rafel Quiz  
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 Computration 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/Disassmbler /Screen Editor  
FRTH-02 Go Forth Tutorial and Fig/Forth 78  
FRTH-03 Forth and Floating Point Arithmetic

### 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)  
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

### LOGO

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

### MISCELLANEOUS

MISC-01 SS (Coin Collect) and Misc. (95/115)  
MISC-02 Miscellaneous (119/120)  
MISC-03 Miscellaneous and Recipe Files  
MISC-04 G!aq and No Name Yet (129/175)  
MISC-05 Special Databases /Jim's Data Base  
MISC-06 Misc and Applesoft /AppleWriter IIe)  
MISC-07 Astronomy Short Programs (506)  
MISC-08 Griffith and Weisse 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  
MISC-14 Graphics and Cat Graphix (108/171)  
MISC-15 Print Shop Graphics (172)  
MISC-16 Color Graphics for Fun/Science / Engi.  
MISC-17 Plots / Graphs and Charts / Graphs  
MISC-18 Business/Math Stat and SS (70/90)  
MISC-19 SS (Investment) and SS (Business)  
MISC-20 Business A and B (104/113)  
MISC-21 Investments A and B (153/154)  
MISC-22 Spreadsheet A and Miscellaneous  
MISC-23\*\* Riley's Personal Instrumentation (173)

### PASCAL

PASC-01 AttachBios for Pascal 1.1 and Utilities  
PASC-02 Crypto / Graphics and Bios / Printers  
PASC-03 Misc and Read/Write DOS / Printers  
PASC-04 Catalogger and Hires Printing / Lisp  
PASC-05 Puffin / Holiday Music -CPM-Pascal  
PASC-06 3D Education /Drill /Hackers Stuff  
PASC-07 Stocks / Weightwatch/Guerilla Guide  
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)  
UTIL-06 Utilities G and H (138/43)  
UTIL-07 Utilities I and J (44/77)  
UTIL-08 Mach. Lang. Utilities and One-Key  
UTIL-09 DOS  
UTIL-10 Beginners Choice /Intermediate Utills.  
UTIL-11 Diversi Copy and Diversi DOS (45/  
UTIL-12 130)  
UTIL-13 Additions to ProDOS and Zap Utility  
UTIL-14 Utilities A (ProDOS) and File Cabinet  
UTIL-15 Imageworks (174/807)  
UTIL-16 DOS 3.3 System Master and Tutorial  
UTIL-17 Visi-Trend / Visi-Plot and Calculink  
UTIL-18 AppleSoft Tutor and Picture Packer  
UTIL-19 AppleWriter Utilities (168)  
UTIL-20 AppleSoft Programs and Love's Follies  
UTIL-21 "Old" New Member's Disk (134)  
UTIL-22 JoyReader (Shareware) (819)  
UTIL-23 Large Type JoyReader (SW) (823)

## APPLE IIGS DISKS

THESE ARE ALL 3.5" DISKS

### IIGS SYSTEM DISKS (2 DISK SET \$6)

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

### IIGS COMMUNICATIONS

GSCM-01B FreeTerm GS (2003)  
GSCM-02A SnowTerm

### IIGS DEMOS (15 DISK SET \$45)

GSDM-01 Cartooners Demo  
GSDM-02 Deluxe Paint II Demo  
GSDM-03 Music Studio Demo  
GSDM-04 Beagle Write Demo  
GSDM-05 Calendar Crafter Demo  
GSDM-06 G.A.T.E. Demo  
GSDM-07 Crystl Q, Drgn Wrs,Pyrmid  
GSDM-08 Diversi-T, Nexs, Prosell6, Salvtn  
GSDM-09 Shanghai & extra tiles sets  
GSDM-10 Medley 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, MastrTrcks Jr, SysEx MIDI

### IIGS DESK ACC. (8 DISK SET \$30)

GSDA-01 Desk Accessories I (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

### IIGS FONTS (10 DISK SET \$30)

GSFT-01 Fonts A-1  
GSFT-02 Fonts A-2  
GSFT-03 Fonts B-1  
GSFT-04 Fonts B-2  
GSFT-05 Fonts C-1  
GSFT-06 Fonts C-2  
GSFT-07A Fonts D-1  
GSFT-08 Fonts E/F-1  
GSFT-09A Fonts G-1  
GSFT-10 Fonts H-1

### IIGS GAMES (21 DISK SET \$63)

GSGM-01 Mean 18 Golf Courses 1 (2007)  
GSGM-01 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 (20 DISK SET \$60)

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

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



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

- 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 Modulæ
  - 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
  - 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 HyperStudio System - Demo
- 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 Com Stack - Demo Version
- GSHS-08 MUG 087 - Demo Version
- GSHS-09 USA - Demo Version
- GSHS-10 Hs Art 2 - Demo Version
- GSHS-11 Misc. HS Stacks 1
- GSHS-12 Misc. HS Stacks 2
- GSHS-13 Arizona Stack Disk 1
- GSHS-14 Arizona Stack Disk 2
- GSHS-15 Photography Stack 1
- GSHS-16 Photography Stack 2
- GSHS-17 1906 SF Quake & Fire - 1
- GSHS-18 1906 SF Quake & Fire - 2
- GSHS-19 Misc. HS Stacks 3
- GSHS-20 Misc. HS Stacks 4
- GSHS-21 Misc. HS Stacks 5

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

- GSIC-01A Finder Icons 1 (2022)
- GSIC-02A Finder Icons 2 (2027)
- 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

**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 Diversi Tune (C) Songs 1
- GSMU-08 Music Studio Songs 1
- GSMU-09 MS Songs 2
- GSMU-10 Variety Pack of Songs
- GSMU-11 SoundSmith Songs 6

**IIGS MISCELLANEOUS**

- GSMS-01 New Member's Disk (2000)
- GSMS-02 Demo Source Code 1 (2005)
- GSMS-03 Demo Source Code 2 (2006)

**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 Stack (2019)

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

- GSUT-01A Utilities 1 (2001)
- GSUT-02 JumpStart Program Sel V. 3
- GSUT-03A Utilities 2 (2028)
- GSUT-04A Utilities 3 (2029)
- GSUT-05 Utilities 4
- GSUT-06A ZZ Copy - v 2.21 Disk copier
- GSUT-07 Utilities 5
- GSUT-08B UtilityWorks GS
- GSUT-09 Utilities 6
- GSUT-10 Utilities 7
- GSUT-11 Utility Works Launcher 2.2.2

**APPLE /// DISKS**

**THESE ARE ALL 5.25 DISKS**

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

**/// 3EZP & AW TEMPLATES**

- 3AWZ-01 AW - EZP Bus Templates
- 3AWZ-02 Checkbook Plus by Lomartire
- 3AWZ-02 Accounting/Finance Templates

**/// 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
- 3BSB-07 BASIC 1.23 & Utilities / Best of OnThree

**/// GAMES**

- 3GAM-01 Games 01 (1001)
- 3GAM-02 Games for Kids (1007)
- 3GAM-03 Cap'n' Magneto
- 3GAM-04 Games-Disk 02
- 3GAM-05 Star Trek

**/// GRAPHICS**

- 3GRX-01 Sketchpad and Slideshow
- 3GRX-02 Fig Factory Manual (1069)
- 3GRX-03 Fig Factory - Black and White
- 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 / Trechts 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 (Shareware)
- 3GRX-28 Grafixworks 3 and 4 (Shareware)
- 3GRX-29 Sign by Bloom
- 3GRX-30 Scanned Graphics #1
- 3GRX--31 FOTOView by Lomartire
- 3GRX32 A2/A3 Graphics

**/// INFORMATION**

- 3INF-01 WAP III SIG PD Catalog

- 3INF-02 New Member's Disk- Side 1A
- 3INF-03 Best of MAUG Side One
- 3INF-04 Best of The Source (1A)
- 3INF-05 Best of TAU (1A)
- 3INF-06 Best of ATUNC (1A)
- 3INF-07 Best of Ill's Company - 01(1A)
- 3INF-08 Best of Ill's Company - 02(1A)
- 3INF-09 The Best of Bloom (1A)
- 3INF-10 Impert's Corner by Bloom (1)
- 3INF-11 Phase III Conference Plus! (1)
- 3INF-12 Best of Ottalini - Disk 01 (1)
- 3INF-13 Best of Ottalini - Disk 02 (1)
- 3INF-14 Best of Ottalini - Disk 03 (1)
- 3INF-15 Best of Ottalini - Disk 04 (1)
- 3INF-16 Best of Pair BBS (1)
- 3INF-17 Reviews by Bloom (1)
- 3INF-18 Ill Cheers (Boot and Program)
- 3INF-19 Ill Cheers (Issues 1 and 2)

**/// MISCELLANEOUS**

- 3MSC-01 File Cabinet / Sort Directory (1046)
- 3MSC-02 Contributions - Disk 01 (1A)
- 3MSC-03 Contributions - Disk 02 (1A)
- 3MSC-04 Contributions - Disk 03 (1A)
- 3MSC-05 Le Grayhaven Cookbook Plus! (1A)
- 3MSC-06 Double Boot
- 3MSC-07 Apple III Demo Disk 01
- 3MSC-08 Apple III Demo Disk 02
- 3MSC-09 Apple III Demo Disk 03
- 3MSC-10 Apple III+ Keyboard Demo
- 3MSC-11 Best of Salerno (1)
- 3MSC-12 Apple II Boot Disk
- 3MSC-13 French tutor
- 3MSC-14 Italian Tutor
- 3MSC-15 Contributions - Disk 04 (1)
- 3MSC-15 Bowling Grid/Grade
- 3MSC-16 Floppy Book by Shapiro (1)
- 3MSC-17 Music, Music, Music (1)

**/// PASCAL**

- 3PCL-01 Pascal 1.2
- 3PCL-02 Pascal 2.0 Compiler/Toolkit
- 3PCL-03 Pascal Toolkit #2/#3
- 3PCL-04 Pascal Pronto Debug/SANE
- 3PCL-05 Pascal SANE #2/#3
- 3PCL-06 Pascal SOS I/O/ExerSOS (1)
- 3PCL-07 Pascal Utilities: PutDemo/PutLib
- 3PCL-08 Pascal Wade's Patch/PCode Dis
- 3PCL-09 Chaos Programs in Pascal.

**/// REPAIRS**

- 3REP-01 Apple 3 Diagnostics - Disk 01
- 3REP-02 Apple 3 Diag - Block Edit
- 3REP-03 Repairing your Apple III (1A)
- 3REP-04 Brain Surgeon
- 3REP-05 Disk Map
- 3REP-06 Disk Check and Pro Health
- 3REP-07 Vindicator and Catalyst Fixer
- 3REP-08 Block Editor and Block Byter
- 3REP-09 Jeppson Disassembler

**/// TELECOMMUNICATIONS**

- 3TEL-01 Telecom - Disk 01 (1A)
- 3TEL-02 Telecom - Disk 02/Access III
- 3TEL-03 Telecom - Disk 03 (1)
- 3TEL-04 Kermit III
- 3TEL-05 XModem III
- 3TEL-06A TerminALL Manual
- 3TEL-07A TerminALL
- 3TEL-08 WAP TCS Disk (1)

**/// UTILITIES**

- 3UTL-01 System Utilities and Data
  - 3UTL-02 Apple II Emulation - Disk 01 (1A)
  - 3UTL-03 Apple II Emulation - Disk 02 (1A)
  - 3UTL-04 SOS Drivers - revised 9/90 (1A)
  - 3UTL-05 Basic Boot Disk
  - 3UTL-06 Basic Utilities - (1A)
  - 3UTL-07 Programmers Power Tools (1A)
  - 3UTL-08 Applecon
  - 3UTL-09 Diskmaker and Appleseeds (1A)
  - 3UTL-10 Basic XT and Basic Utilities (1A)
- (Please turn to Page 58)



# MACINTOSH DISKS & WAP DISKETTERIA ORDER FORM

<p><b>Anti-Virus Utilities</b></p> <p>___ 5 disk set; \$15</p> <p>___ 1.01C - AV 1</p> <p>___ 1.02C - AV 2</p> <p>___ 1.03C - AV 3</p> <p>___ 1.04B - AV 4</p> <p>___ 1.05 - AV 5</p> <p><b>Desk Accessories</b></p> <p>___ 16 disk set; \$48</p> <p>___ 2.01B - DAs 1</p> <p>___ 2.02B - DAs 2</p> <p>___ 2.03B - DAs 3</p> <p>___ 2.04B - DAs 4</p> <p>___ 2.05B - DAs 5</p> <p>___ 2.06B - DAs 6</p> <p>___ 2.07B - DAs 7</p> <p>___ 2.08B - DAs 8</p> <p>___ 2.09B - DAs 9</p> <p>___ 2.10B - DAs 10</p> <p>___ 2.11B - DAs 11</p> <p>___ 2.12B - DAs 12</p> <p>___ 2.13B - DAs 13</p> <p>___ 2.14B - DAs 14</p> <p>___ 2.15B - DAs 15</p> <p>___ 2.16B - DAs 16</p> <p><b>FKeys (Function Keys)</b></p> <p>___ 2 disk set</p> <p>___ 4.01A - FKeys 1</p> <p>___ 4.02A - FKeys 2</p> <p><b>ImageWriter Fonts</b></p> <p>___ 15 disk set; \$45</p> <p>___ 5.01 - IW 1</p> <p>___ 5.02 - IW 2</p> <p>___ 5.03 - IW 3</p> <p>___ 5.04 - IW 4</p> <p>___ 5.05 - IW 5</p> <p>___ 5.06 - IW 6</p> <p>___ 5.07 - IW 7</p> <p>___ 5.08 - IW 8</p> <p>___ 5.09 - IW 9</p> <p>___ 5.10 - IW 10</p> <p>___ 5.11 - IW 11</p> <p>___ 5.12 - IW 12</p> <p>___ 5.13 - IW 13</p> <p>___ 5.14 - IW 14</p> <p>___ 5.15 - IW 15</p> <p><b>LaserWriter Fonts</b></p> <p>___ 18 disk set; \$54</p> <p>___ 6.01 - LW 1</p> <p>___ 6.02 - LW 2</p> <p>___ 6.03 - LW 3</p> <p>___ 6.04 - LW 4</p> <p>___ 6.05 - LW 5</p> <p>___ 6.06 - LW 6</p> <p>___ 6.07 - LW 7</p> <p>___ 6.08 - LW 8</p> <p>___ 6.09 - LW 9</p>	<p>___ 6.10 - LW 10</p> <p>___ 6.11 - LW 11</p> <p>___ 6.12 - LW 12</p> <p>___ 6.13 - LW 13</p> <p>___ 6.14 - LW 14</p> <p>___ 6.15 - LW 15</p> <p>___ 6.16 - LW 16</p> <p>___ 6.17 - LW 17</p> <p>___ 6.18 - LW 18</p> <p><b>TrueType Fonts</b></p> <p>___ 5 disk set; \$15</p> <p>___ 7.01 - TT 1</p> <p>___ 7.02 - TT 2</p> <p>___ 7.03 - TT 3</p> <p>___ 7.04 - TT 4</p> <p>___ 7.05 - TT 5</p> <p><b>INITs &amp; cdevs</b></p> <p>___ 17 disk set; \$51</p> <p>___ 9.01 - I/C 1</p> <p>___ 9.02 - I/C 2</p> <p>___ 9.03 - I/C 3</p> <p>___ 9.04 - I/C 4</p> <p>___ 9.05 - I/C 5</p> <p>___ 9.06 - I/C 6</p> <p>___ 9.07 - I/C 7</p> <p>___ 9.08 - I/C 8</p> <p>___ 9.09 - I/C 9</p> <p>___ 9.10 - I/C 10</p> <p>___ 9.11 - I/C 11</p> <p>___ 9.12 - I/C 12</p> <p>___ 9.13 - I/C 13</p> <p>___ 9.14 - I/C 14</p> <p>___ 9.15 - I/C 15</p> <p>___ 9.16 - I/C 16</p> <p>___ 9.17 - I/C 17</p> <p><b>Miscellaneous</b></p> <p>___ 3 disk set</p> <p>___ 10.01 - M 1</p> <p>___ 10.02 - M 2</p> <p>___ 10.03 - M 3</p> <p><b>Paintings (MacPnt)</b></p> <p>___ 5 disk set; \$15</p> <p>___ 11.01 - P 1</p> <p>___ 11.02 - P 2</p> <p>___ 11.03 - P 3</p> <p>___ 11.04 - P 4</p> <p>___ 11.05 - P 5</p> <p><b>Digitized Sounds</b></p> <p>___ 31 disk set; \$93</p> <p>___ 12.01 - S 1</p> <p>___ 12.02 - S 2</p> <p>___ 12.03 - S 3</p> <p>___ 12.04 - S 4</p> <p>___ 12.05 - S 5</p> <p>___ 12.06 - S 6</p> <p>___ 12.07 - S 7</p>	<p>___ 12.08 - S 8</p> <p>___ 12.09 - S 9</p> <p>___ 12.10 - S 10</p> <p>___ 12.11 - S 11</p> <p>___ 12.12 - S 12</p> <p>___ 12.13 - S 13</p> <p>___ 12.14 - S 14</p> <p>___ 12.15 - S 15</p> <p>___ 12.16 - S 16</p> <p>___ 12.17 - S 17</p> <p>___ 12.18 - S 18</p> <p>___ 12.19 - S 19</p> <p>___ 12.20 - S 20</p> <p>___ 12.21 - S 21</p> <p>___ 12.22 - S 22</p> <p>___ 12.23 - S 23</p> <p>___ 12.24 - S 24</p> <p>___ 12.25 - S 25</p> <p>___ 12.26 - S 26</p> <p>___ 12.27 - S 27</p> <p>___ 12.28 - S 28</p> <p>___ 12.29 - S 29</p> <p>___ 12.30 - S 30</p> <p>___ 12.31 - S 31</p> <p><b>Telecommunications</b></p> <p>___ 9 disk set; \$27</p> <p>___ 13.01A - T 1</p> <p>___ 13.02A - T 2</p> <p>___ 13.03A - T 3</p> <p>___ 13.04A - T 4</p> <p>___ 13.05A - T 5</p> <p>___ 13.06A - T 6</p> <p>___ 13.07A - T 7</p> <p>___ 13.08A - T 8</p> <p>___ 13.09 - T 9</p> <p><b>Programmer/Hacker</b></p> <p>___ 25 disk set; \$75</p> <p>___ 14.01 - PH 1</p> <p>___ 14.02 - PH 2</p> <p>___ 14.03 - PH 3</p> <p>___ 14.04 - PH 4</p> <p>___ 14.05 - PH 5</p> <p>___ 14.06 - PH 6</p> <p>___ 14.07 - PH 7</p> <p>___ 14.08 - PH 8</p> <p>___ 14.09 - PH 9</p> <p>___ 14.10 - PH 10</p> <p>___ 14.11 - PH 11</p> <p>___ 14.12 - PH 12</p> <p>___ 14.13 - PH 13</p> <p>___ 14.14 - PH 14</p> <p>___ 14.15 - PH 15</p> <p>___ 14.16 - PH 16</p> <p>___ 14.17 - PH 17</p> <p>___ 14.18 - PH 18</p> <p>___ 14.19 - PH 19</p> <p>___ 14.20 - PH 20</p> <p>___ 14.21A - PH 21</p> <p>___ 14.22A - PH 22</p>	<p>___ 14.23 - PH 23</p> <p>___ 14.24 - PH 24</p> <p>___ 14.25 - PH 25</p> <p><b>Miscellaneous Utils</b></p> <p>___ 11 disk set; \$33</p> <p>___ 15.01A - MU 1</p> <p>___ 15.02A - MU 2</p> <p>___ 15.03A - MU 3</p> <p>___ 15.04A - MU 4</p> <p>___ 15.05A - MU 5</p> <p>___ 15.06A - MU 6</p> <p>___ 15.07A - MU 7</p> <p>___ 15.08A - MU 8</p> <p>___ 15.09A - MU 9</p> <p>___ 15.10A - MU 10</p> <p>___ 15.11A - MU 11</p> <p><b>System Utils</b></p> <p>___ 13 disk set; \$39</p> <p>___ 16.01B - SU 1</p> <p>___ 16.02B - SU 2</p> <p>___ 16.03B - SU 3</p> <p>___ 16.04B - SU 4</p> <p>___ 16.05B - SU 5</p> <p>___ 16.06B - SU 6</p> <p>___ 16.07B - SU 7</p> <p>___ 16.08B - SU 8</p> <p>___ 16.09B - SU 9</p> <p>___ 16.10B - SU 10</p> <p>___ 16.11B - SU 11</p> <p>___ 16.12B - SU 12</p> <p>___ 16.13B - SU 13</p> <p>___ 16.14B - SU 14</p> <p>___ 16.15B - SU 15</p> <p><b>Word Processing Utils</b></p> <p>___ 3 disk set</p> <p>___ 17.01A - WP 1</p> <p>___ 17.02A - WP 2</p> <p>___ 17.03A - WP 3</p> <p><b>Adobe Screen Fonts</b></p> <p>___ 16 disk set; \$48</p> <p>___ 18.01A - AF 1</p> <p>___ 18.02A - AF 2</p> <p>___ 18.03A - AF 3</p> <p>___ 18.04A - AF 4</p> <p>___ 18.05A - AF 5</p> <p>___ 18.06A - AF 6</p> <p>___ 18.07A - AF 7</p> <p>___ 18.08A - AF 8</p> <p>___ 18.09A - AF 9</p> <p>___ 18.10A - AF 10</p> <p>___ 18.11A - AF 11</p> <p>___ 18.12A - AF 12</p> <p>___ 18.13A - AF 13</p> <p>___ 18.14A - AF 14</p> <p>___ 18.15A - AF 15</p> <p>___ 18.16A - AF 16</p>	<p><b>HyperCard StackWare</b></p> <p>___ 44 disk set; \$132</p> <p>___ 19.01A - SW 1</p> <p>___ 19.02A - SW 2</p> <p>___ 19.03 - SW 3</p> <p>___ 19.04 - SW 4</p> <p>___ 19.05 - SW 5</p> <p>___ 19.06 - SW 6</p> <p>___ 19.07 - SW 7</p> <p>___ 19.08 - SW 8</p> <p>___ 19.09 - SW 9</p> <p>___ 19.10 - SW 10</p> <p>___ 19.11 - SW 11</p> <p>___ 19.12 - SW 12</p> <p>___ 19.13 - SW 13</p> <p>___ 19.14 - SW 14</p> <p>___ 19.15 - SW 15</p> <p>___ 19.16 - SW 16</p> <p>___ 19.17 - SW 17</p> <p>___ 19.18 - SW 18</p> <p>___ 19.19 - SW 19</p> <p>___ 19.20 - SW 20</p> <p>___ 19.21 - SW 21</p> <p>___ 19.22 - SW 22</p> <p>___ 19.23 - SW 23</p> <p>___ 19.24 - SW 24</p> <p>___ 19.25 - SW 25</p> <p>___ 19.26 - SW 26</p> <p>___ 19.27 - SW 27</p> <p>___ 19.28 - SW 28</p> <p>___ 19.29 - SW 29</p> <p>___ 19.30 - SW 30</p> <p>___ 19.31 - SW 31</p> <p>___ 19.32 - SW 32</p> <p>___ 19.33 - SW 33</p> <p>___ 19.34 - SW 34</p> <p>___ 19.35 - SW 35 †</p> <p>___ 19.36 - SW 36 †</p> <p>___ 19.37 - SW 37</p> <p>___ 19.38 - SW 38</p> <p><b>Mac II Series</b></p> <p>___ 13 disk set; \$39</p> <p>___ 20.01 A - M II 1</p> <p>___ 20.02 A - M II 2</p> <p>___ 20.03 A - M II 3</p> <p>___ 20.04 A - M II 4</p> <p>___ 20.05 A - M II 5</p> <p>___ 20.06 A - M II 6</p> <p>___ 20.07 A - M II 7</p> <p>___ 20.08 B - M II 8</p> <p>___ 20.09 B - M II 9</p> <p>___ 20.10 A - M II 10</p> <p>___ 20.11 A - M II 11</p> <p>___ 20.12 A - M II 12</p> <p>___ 20.13 A - M II 13</p> <p>___ 19.35† 6 disk set; \$15</p> <p>___ 19.36† 2 disk set; \$7</p>	<p><b>HyperCard Externals</b></p> <p>___ 5 disk set; \$15</p> <p>___ 21.01 - HE 1</p> <p>___ 21.02 - HE 2</p> <p>___ 21.03 - HE 3</p> <p>___ 21.04 - HE 4</p> <p>___ 21.05 - HE 5</p> <p><b>System Software 6.0.5</b></p> <p>___ 5 disk set; \$15</p> <p>___ SS1.ST</p> <p>___ SS2.PT</p> <p>___ SS3.U1</p> <p>___ SS4.U2</p> <p>___ SS5.NI</p> <p><b>System Software 6.0.7</b></p> <p>___ 4 disk set; \$12</p> <p>___ SS1.ST</p> <p>___ SS2.PT</p> <p>___ SS3.U1</p> <p>___ SS4.U2</p> <p><b>TrueType Software</b></p> <p>___ 2 disk set; \$6</p> <p>___ TT.FS</p> <p>___ TT.PT</p> <p><b>System Software 7.0</b></p> <p>___ 9 disk set; \$20</p> <p>___ \$45 Non-member</p> <p>___ \$55 Disks+mbrshp</p> <p><b>HyperCard Update 1.2.5</b></p> <p>___ HC &amp; Stacks - HC.01</p> <p>___ HC Help - HC.02</p> <p>___ HC Ideas - HC.03</p> <p><b>HyperCard Update 2.0</b></p> <p>___ 5 disk set; \$15</p> <p>___ HC.01 - Program</p> <p>___ HC.02 - Help</p> <p>___ HC.03 - Stacks</p> <p>___ HC.04 - More Stks</p> <p>___ HC.05 - Tutorial</p> <p><b>Serially Numbered</b></p> <p>___ Disk 30/92</p> <p>___ Disk 74/75</p> <p>___ Disk 77/78</p> <p>___ Disk 80/84</p> <p>___ Disk 85/89</p> <p>___ Disk 91/95</p> <p>___ Disk 96/104</p> <p>___ Disk 105/106</p> <p>___ Disk 108/128</p> <p>___ Disk 134/143</p> <p>___ Disk 147</p> <p>___ Disk 150/151</p> <p>___ Disk 153</p>
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<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Number of Disks</th> <th style="text-align: left;">Member Price each</th> <th style="text-align: left;">Extended</th> </tr> </thead> <tbody> <tr> <td><b>Singles</b></td> <td></td> <td></td> </tr> <tr> <td>___ 4 or less @</td> <td>\$ 4.00 =</td> <td>_____</td> </tr> <tr> <td>___ 5 or more @</td> <td>\$ 3.50 =</td> <td>_____</td> </tr> <tr> <td>___ Sets (marked above)</td> <td>\$ (above)</td> <td>_____</td> </tr> <tr> <td>___ + Postage - \$ 1.00 /disk, max \$ 5.00</td> <td></td> <td>_____</td> </tr> <tr> <td>___ Disk Catalogs</td> <td>\$ 3.00 =</td> <td>_____</td> </tr> <tr> <td>___ + Postage @ \$ 1.50 ea.</td> <td></td> <td>_____</td> </tr> <tr> <td><b>TOTAL AMOUNT</b></td> <td></td> <td>_____</td> </tr> </tbody> </table>	Number of Disks	Member Price each	Extended	<b>Singles</b>			___ 4 or less @	\$ 4.00 =	_____	___ 5 or more @	\$ 3.50 =	_____	___ Sets (marked above)	\$ (above)	_____	___ + Postage - \$ 1.00 /disk, max \$ 5.00		_____	___ Disk Catalogs	\$ 3.00 =	_____	___ + Postage @ \$ 1.50 ea.		_____	<b>TOTAL AMOUNT</b>		_____	<p>Name _____</p> <p>Box Number, Apartment, Suite, etc. _____</p> <p>Street Address _____</p> <p>City _____ State _____ ZIP Code _____</p> <p>Daytime telephone _____ Evening telephone _____</p>
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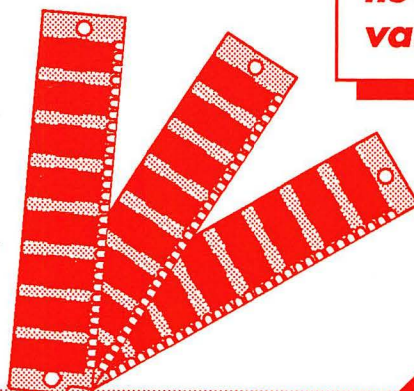
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