

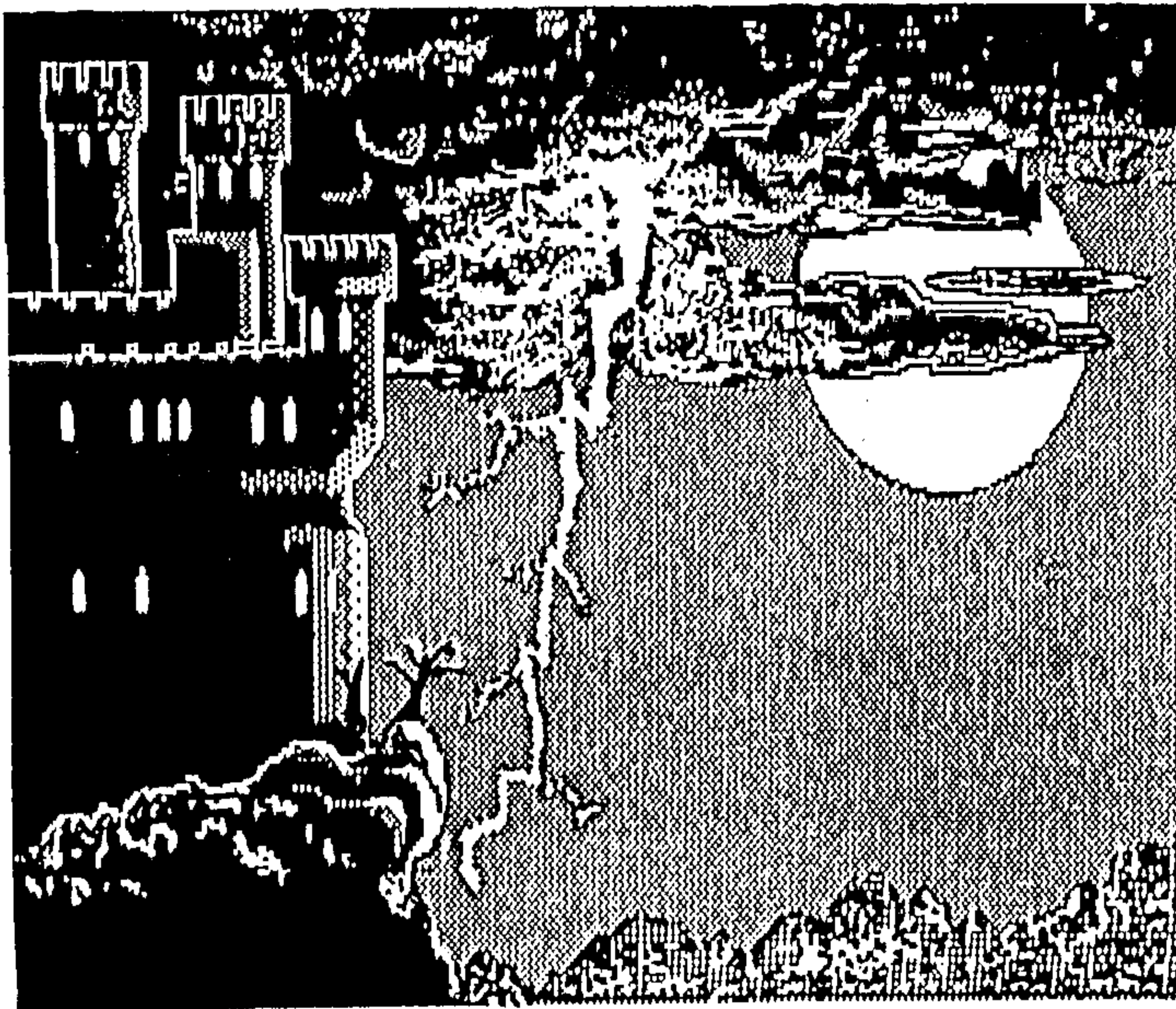
Spirit of 99



THE OFFICIAL NEWSLETTER OF THE CENTRAL OHIO NINETY-NINERS INC.

PUBLISHED MONTHLY IN COLUMBUS OHIO

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Spirit of 99

THE OFFICIAL NEWSLETTER OF CENTRAL OHIO NINETY-NINERS



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Central Ohio Ninety Niners Inc. is a non profit organization comprised of MEMBERS who own or use the TI99/4A computer and it's related products and have paid a yearly membership fee of \$28.00 and whose main objective is the exchange of Educational and Scientific information for the purpose of computer literacy.

C.O.N.N.I. meetings are held the 2nd Saturday of each month at the Martin Janis Senior Center - East Eleventh Ave. at the Ohio State fairgrounds. Meeting time is at 9 am. Meetings are open to the public. Membership dues (\$28.00) are payable yearly to C.O.N.N.I. and cover the immediate family of the member. (An application has been placed

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FROM THE PRESIDENT'S DESK
by DICK BEERY

As we turn from the outdoor-type activities of Summer, many of us attempt to *expand our horizons and capabilities*. Therefore we are considering offering to our members a chance to complete certain skill levels in word processing, in modeming, and perhaps in graphics or programming. Members meeting certain criteria would receive a certificate attesting to that fact, and could then, if they wished, move up to the next level. We hope this will stimulate people to produce holiday cards and letters on the computer, with or without graphics, make posters, use our three local T.I. BBS's and others, leaving questions, messages and uploads for others to enjoy. Details at the October meetings!

Don't fail to take a look at our new column on Basic programming this month. Irwin Hott provides an original program, which he analyzes to that you can learn how it was done. I personally find this an easy and attractive method for learning to program. One of the "fun" things to do is to take such a program and attempt to expand, modify and/or personalize it to meet your specific needs. It's not hard to do, and if you don't succeed, which is unlikely, you haven't lost anything and have maybe had fun in the process.

Dave Truesdale's regular comments on games and game strategies were well received last month. Keep 'em coming, Dave!

Remember the upcoming Chicago/Milwaukee fairs on November 4th and 5th. Hope you can make it, either again or for the first time.

See you at the October meetings!

YOUR INPUT NEEDED !!

Our meeting at Chemical Abstracts in August sparked a lot of enthusiasm. Many people seem to favor a permanent move there for the Saturday meetings. Advantages are: no fee charged, use of their equipment such as VCR's, projectors, screens, etc. Ample parking is available, we may be able to store our equipment there, and carts are provided for taking other equipment in or out. Also, they have seemed most willing to meet our needs as much

as possible.

Disadvantages are: heavy traffic on OSU home football game days plus more limited parking than (one or two meetings!); the fact that if we continue to meet on the second Saturday of the month we will be there at the same time as is the Commodore Club, which means that we will be limited to using the auditorium, not the cafeteria. While the auditorium is excellent, it does not offer sufficient flexibility for our plans for an expanded meeting. To explain that last statement, tentative plans, should we make the move, are to offer classes before and after the regular meeting, and to extend the amount of time. If we do change to the third Saturday, we may find it wise to reschedule the evening meetings to a different week, so as not to bunch the two meetings together. The questions, then, are: Do we move there at all? Do we change to the third Saturday which, at the time of writing this, is still available? What hours should we then adopt? And, what about rescheduling the Wednesday meetings, probably starting in January? Come to the meeting, give us the benefit of your input and your vote. See you there!

Thanks for your help!

Dick Beery



Minutes CONNI meeting
Wed. 26 July 1989

Meeting began at 8:10 P.M. at the Westerville McDonalds. Visitors were introduced Bud Cary and Taranjit Rangi also former member Fred Teitzel was in attendance. Pictures of the October meeting were passed around. Everette Wade offered copies of Micropendium for sale. Telephone problems with the club BBS were discussed. BBS operators were introduced to the visitors. Dick Beery read the Treasurers report. The minutes of the last meeting were discussed. It was announced that the August meeting would be held on the third Saturday at the Chemical Abstracts Bldg. The possibility of a public service television commercial for the club on cable TV was discussed. Irwin Hott mentioned club disk sales. News letter library expansion was talked about. Volunteers to copy old newsletters were requested. A computer show on Sept. 16 was announced and it was decided to have a table sponsored by the club. Volunteers to man the table were requested. A discussion of cassette load followed. Dave Truesdale gave some game demos followed by Jim Peterson's demo of his DATAWRITER program. Meeting adjourned at 10:00 P.M.

Minutes CONNI Meeting
8/19/89

The meeting was held at the Chemical Abstracts building on the third Saturday of August due to the unavailability of the Janis Center during Ohio State Fair season. The meeting began at 9:00 A.M. with the question and answer period conducted by Jim Peterson. Visitor Robby Snyder was welcomed. At 10:00 AM the business meeting began with discussion of old business. Minutes were not read. Treasurers report was discussed, general announcements were made. President Dick Beery mentioned the Wed meeting would have a demonstration of Super XB. Irwin Hott announced two new programs available on the Club BBS. New business revealed that the new store CompuSed had TI consoles available for \$25 apiece. Better ways to inform members of sale items was talked about. Chicago Fair dates were announced also a show of hands for those who planned to attend. A volunteer was requested to accompany Irwin to Olean NY for a Mall show to which Irwin was invited for a demo. The first Demo was by Ken Marshall for the graphics program GEE. The second demo was by Bill Wood of a program that allows large disk program to be loaded by cassette. Meeting adjourned at 11:30 AM.



Respectfully Submitted
Charles Osment, Secretary

C.D.N.N.I. MINUTES 9 Sept 1989

The question and answer period was opened at 9:30 A.M. President Dick Beery opened the business meeting at 10 A.M., welcomed new member Harley Ryan and introduced the officers. The minutes of the last meeting were approved. A treasurer's report was not available. SYSOP Irwin Hott described recent minor changes to the BBS, and Chuck Grime described the contents of the current Disk of the Month. Jim Seitz volunteered to provide refreshments for October. Dick Beery discussed the option of moving our meetings to the Chemical Abstract Building, and a vote was scheduled for the October meeting to decide this matter. Dick Beery read excerpts from a CompuServe article on the survival of the TI-99/4A, announced a 10th anniversary open house at the Martin Janis Center, and read a letter from Texas Instruments asking user groups to update their address listing with Texas Instruments. Jim Peterson volunteered to take care of this. Dick Beery surveyed members intending to go to the Chicago and Milwaukee Fairs. Jean Hall announced availability of indexes for all Spirit of 99 newsletters and all Disks of the Month, and asked for donations of library copies of Spirit of 99 newsletters. Jim Seitz requested a sign-up for those interested in potential classes, or in teaching classes.

The business meeting was closed and Jim Peterson gave a demonstration of some interesting public domain programs.

Acting Secretary,
Jim Peterson

++++
+NEW MEMBERS, RENEWALS+
+ NL SUBSCRIPTIONS +
++++
HARLEY RYAN - NM

TI-FAIRE/CONVENTION

NOVEMBER 4, 1989



HELD AT: Holiday Inn
3505 Algonquin Rd.
Rolling Meadows, Il
(312-259-5000)

PRODUCED BY: Chicago Area TI-99/4a Users' Group
P. O. Box 578341
Chicago, Il. 60657 (Hot Line #312-869-4304)
Sandy Bartels, Faire Manager,
(Faire info # 312 477-0690 hours 6:00PM to
10:00PM, or my phone 312 859-3850).

SOCIAL MIXER: Friday, November 3, 1989
8:00pm - 12:00pm
admission - \$5.00

FAIRE HOURS: Saturday, November 4, 1989
9:00am - 5:00pm
admission - \$4.00

DINNER: Saturday, November 4, 1989
7:00pm - 9:30pm
admission - \$15.00

HOTEL ROOM RATE: \$50.00 - single
\$50.00 - double
\$50.00 - tower

LIMOUSINE SERVICE: free to and from O'hare Airport and hotel

HELD IN CONJUNCTION WITH: The Milwaukee TI-Faire
November 5, 1989 / 9:00am - 5:00pm
Quality Inn
5311 S. Howell Ave.
Milwaukee, Wisc.
(across from Mitchell Field Airport)

PRODUCED BY: The Milwaukee Area 99/4a Users' Group
Mr. Gene Hitz (414/535-0133)
4122 N. Glenway
Wauwatosa, Wisc. 53222

Once again the greatest show in town will be here before you know it! Yes, I'm talking about the 1989 TI FAIRE/CONVENTION produced by the Chicago Area TI-99/4a Users' Group!!! Convention did I say? Yes, CONVENTION I said. This TI FAIRE has the growth and reputation behind it to finally become a convention. And we are inviting YOUR USERS' GROUP to come join the fun. So DON'T MISS it!

Please send me the following regarding the 1989 TI FAIRE/CONVENTION:

Exhibitor Information

Hotel Reservation Form

Please send me tickets for the following:

(how many)

_____ Social Mixer (\$5.00 each)

_____ Dinner (\$15.00 each)


_____ Kids Night Out (pay at time of event)

NAME _____

ADDRESS _____

CITY, STATE, ZIP _____

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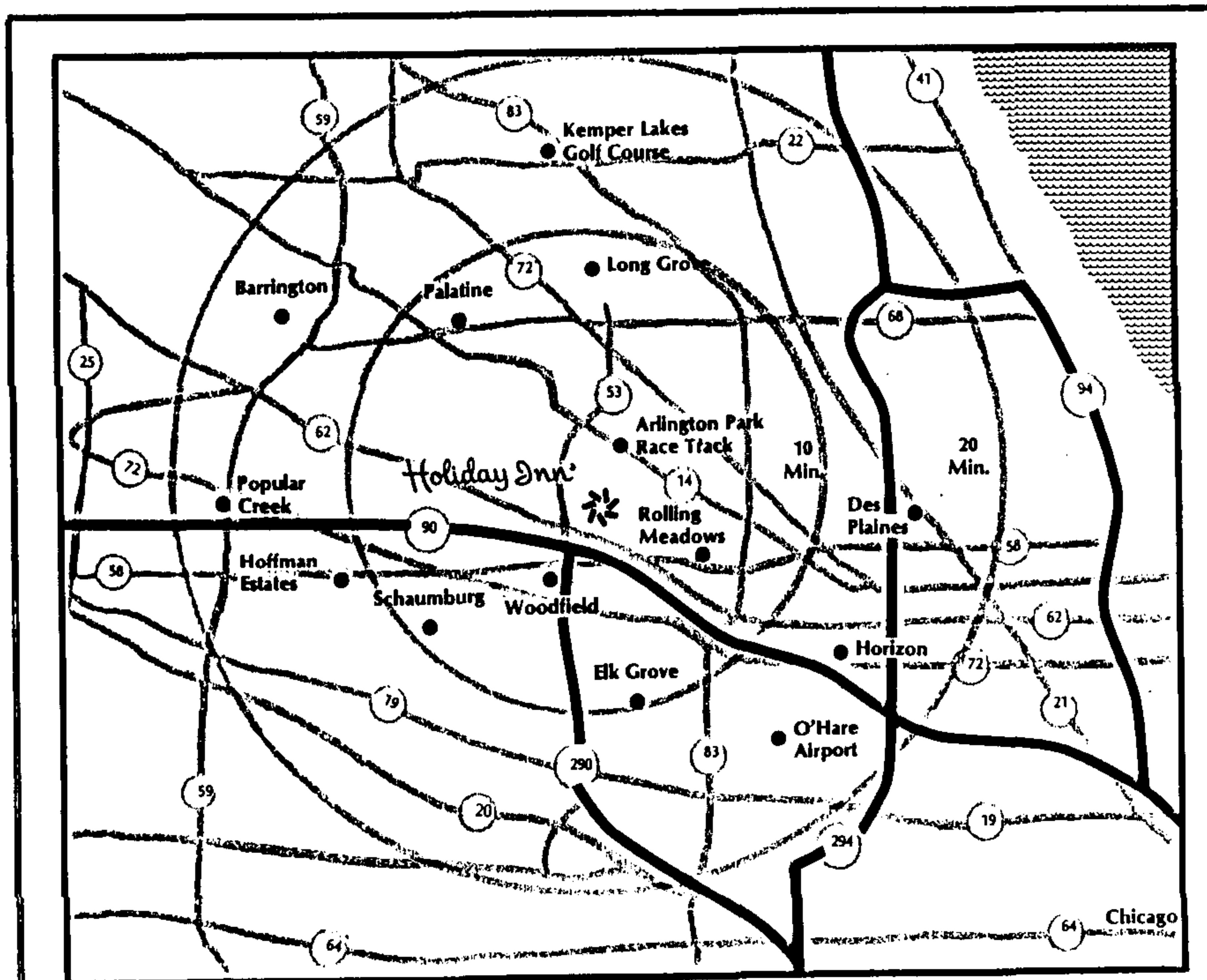
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TOTAL UP NUMBERS by BOB AUGUST

(Thanks to the author and the BUG NEWS July 1989 for the following programs. Both of the following programs will be uploaded to the Spirit of 99 BBS.)

The program this month will give you a square of numbers on the screen using any odd base number of 3, 5, 7, or 9. Within the square, all rows and all columns will total the same. Also it will add diagonally to the same total. The first program is in Basic and the second one is in Extended Basic.

BASIC VERSION

```

100 REM  TOTAL UP NUMBERS
110 REM  IN TI BASIC
120 REM  BY R.W. AUGUST
130 DIM M(9,9)
140 CALL CLEAR
150 PRINT TAB(7);"TOTAL UP N
UMBERS":;:
160 PRINT "GIVE ME ANY ODD N
UMBER FROM":;"3 TO 9 AND I W
ILL GIVE YOU A":;"NUMBER WHI
CH TOTALS THE SAME"
170 PRINT : "ACROSS FOR EVERY
ROW, DOWN":;"FOR EVERY COLU
MN OR AT AN":;"ANGLE.":;"EN
TER YOUR NUMBER:"
180 CALL SOUND(150,1400,0)
190 CALL KEY(0,N,S)
200 IF (N<51)+(N>57)+(S=0)TH
EN 190
210 N=N-48
220 CALL CLEAR
230 IF N/2=INT(N/2)THEN 150
240 PRINT "YOU ENTERED A";N
250 PRINT "PLEASE STAND BY";
260 C1=0
270 C=INT(N/2)+1
280 R=1
290 C1=C1+1
300 M(R,C)=C1
310 IF C1=N^2 THEN 440
320 IF C1/N<>INT(C1/N)THEN 3

```

```

50
330 R=R+1
340 GOTO 290
350 C=C+1
360 IF C<=N THEN 400
370 C=1
380 R=R-1
390 GOTO 290
400 R=R-1
410 IF R>0 THEN 290
420 R=N
430 GOTO 290
440 T=0
450 FOR I=1 TO N
460 T=T+M(I,I)
470 NEXT I
480 CALL HCHAR(24,3,32,28)
490 PRINT "THE NUMBER TOTAL
IS:";T:
500 FOR ROW=1 TO N
510 FOR COL=1 TO N
520 IF M(ROW,COL)>9 THEN 640
ELSE 530
530 PRINT " ";STR$(M(ROW,COL
));" ";
540 NEXT COL
550 PRINT :
560 NEXT ROW
570 PRINT : "ENTER ANOTHER NU
MBER (Y/N)";
580 CALL SOUND(150,1400,0)
590 CALL KEY(0,K,S)
600 IF K=78 THEN 630
610 IF K<>89 THEN 590
620 GOTO 140
630 STOP
640 PRINT STR$(M(ROW,COL));"
";
650 GOTO 540
660 END

```

EXTENDED BASIC VERSION

```

100 ! TOTAL UP NUMBERS
110 ! IN TI EXTENDED BASIC
120 ! BY R.W. AUGUST
130 DIM M(9,9):; DISPLAY AT(
3,7)ERASE ALL:"TOTAL UP NUMB
ERS"
140 DISPLAY AT(7,1):"GIVE ME
ANY ODD NUMBER FROM":;"3 T

```

```

0 9 AND I WILL GIVE YOU A":
:"NUMBER WHICH TOTALS THE SA
ME"
150 DISPLAY AT(13,1):"ACROSS
FOR EVERY ROW, DOWN":;"FOR
EVERY COLUMN OR AT AN":;"A
NGLE.":;"ENTER YOUR NUMBE
R:"
160 ACCEPT AT(20,20)VALIDATE
("3,5,7,9")BEEP:N :; DISPLAY
AT(2,1)ERASE ALL:"YOU ENTER
ED A";N :; DISPLAY AT(4,1):"
PLEASE STAND BY"
170 C1=0 :; C=INT(N/2)+1 :;
R=1
180 C1=C1+1 :; M(R,C)=C1 :;
IF C1=N^2 THEN 250
190 IF C1/N<>INT(C1/N)THEN 2
10
200 R=R+1 :; GOTO 180
210 C=C+1 :; IF C<=N THEN 23
0
220 C=1 :; R=R-1 :; GOTO 180
230 R=R-1 :; IF R>0 THEN 180
240 R=N :; GOTO 180
250 T=0 :; FOR I=1 TO N :; T
=T+M(I,I):; NEXT I :; DISPLA
Y AT(4,1):"THE NUMBER TOTAL
IS:";T
260 FOR ROW=1 TO N :; FOR CO
L=1 TO N :; IF M(ROW,COL)>9
THEN 310
270 DISPLAY AT(ROW*2+4,COL*3
-2)SIZE(2):" ";STR$(M(ROW,CO
L))
280 NEXT COL :; NEXT ROW
290 DISPLAY AT(24,1):"ENTER
ANOTHER NUMBER (Y/N) Y" :; A
CCEPT AT(24,28)SIZE(-1)VALID
ATE("YN")BEEP:YN$
300 IF YN$="N" THEN STOP ELS
E CALL CLEAR :; GOTO 140
310 DISPLAY AT(ROW*2+4,COL*3
-2)SIZE(2):STR$(M(ROW,COL)):
: GOTO 280 :; END

```



FOUR-A/TALK
by BILL GASKILL



FOUR-A/TALK
Random ramblings about things TI.

by Bill Gaskill - September 1989

(Thanks to Bill and TIDBITS NL of Memphis, TN Sept/89 page 6-9. Used the first part of the article)

MILESTONES

-Dr. Guy Steffen-Romano died August 15, 1989. Long time 99ers will remember Dr. Romano as the first librarian for the IUG. Some will remember the many excellent articles he wrote in the National 99er and in Enthusiast 99. But most of all, we will remember him for his Amnion Helpline at 116 Carl St. in San Francisco, California. The source of a seemingly limitless fountain of information and dedication to the TI community, Dr. Romano earned the respect of any 99er who came in contact with him. May his wisdom be carried on and his example of dedication never die.

WHAT'S HOT:

The HARRISON WORD PROCESSOR, TI-SORT, TI-Base V2.02, and HARDMASTER

DISCOVERIES:

-As a follow up to last month's information on TI-SORT: I received another copy from Dennis Faherty along with V2.02 of TI-Base. WOW! I now get to use my hard disk storage to its full potential. These are the kind of tools that I have been waiting for. Thank you Inscebot!!!

TI-SORT both runs from and reads and writes to a hard disk drive using Myarc's HFDC. I am now able to tackle virtually anything I

have and put it in either ascending or descending order. While TI-SORT cannot compete with Peter Hoddie's SORT EXPERIMENT fairware program as far as speed, it blows away in record capacity. You may recall from a previous Four-A/Talk article that I thought TI-SORT would "do" 99999 records. Not so according to author Dennis Faherty. There is a counter in the program that necessarily limits that maximum to 32,767 records. That'll do.

My real love of course is TI-Base. It has been enhanced to support the hard disk environment in V2.02 so all of you HFDC owners with a hard disk will want to upgrade. The speed of all read/write operations from within TI-Base is easily 10 times faster than a floppy drive can offer. Command file interpretation hasn't changed, but look for an improvement in that area too when V3.0 comes out. Dennis says that he is going to "tuck" more of the command file in memory so less is read from disk on the longer files.

Inscebot Inc.
P.O. Box 291610
Port Orange, FL 32029

-If you are looking for a really good article explaining relational data base managers versus flat-file data base managers, pick up a copy of the September 1989 PC Resource magazine. The late Kent Porter, former senior technical editor of Dr. Dobb's Journal, has an article published there that is the best I have seen for the layperson. Understandable and moderately comprehensive in scope, this one article is well worth the \$2.95 investment for the magazine. The article is

FOUR-A/TALK

(continued)

entitled "Step Up to Power and Convenience", and is found on pages 58-64.

-Asgard's Chris Bobbitt has announced a sector editor for the Myarc HFDC called HardMaster. The program is written by Colin Christensen and apparently includes the ability to let you edit in hex or ASCII, dump a range of sectors to a printer, edit four sectors at a time and more. It also comes with an extensive manual that provides information about how data is stored on the hard drive, plus a novel hard disk backup utility. Price is \$14.95.

Asgard Software
Box 10306
Rockville, MD 20850
703-255-3085

NEWS:

-Did you notice that the September Computer Shopper did not have the TI FORUM column in it? Word is that there are some shorter publishing deadlines imposed by the new editor and "we" missed them I guess. Walt Howe, one of the TI NET sysops on Delphi suggests that we write to Computer Shopper to express our concern. I agree. Please take a few moments to write to the new editor to let him know how important the TI column in each issue is to us. Write to:

Bob Lindstrom
Editor-In-Chief
Computer Shopper
1 Park Ave
New York, New York 10016

-Scott Darling, GENie sysop for the TI-RoundTable for the last 3-4 years, had departed for greener pastures it appears.

Thanks for all the time and effort on behalf of the TI Community Scott!

But guess who took his place. None other than the "Professor of Arc", the "Guru of I/O" and the "Master of Mechatronics", Mr. Barry Boone!!!! How's that for loyalty? The guy never stops supporting us. And he hasn't even been a GENie subscriber all that long either. GREAT to have you aboard Barry.

-John Johnson has released his Remind Me! appointments calendar program into public domain. While I purchased mine commercially when it first appeared, you can now get the same program FREE. It will probably show up on your club's BBS shortly. Remind Me! is a nice program that has served me well. When run from a Horizon Ram Disk it is excellent because it actually was faster to use than turning to the paper system of yesteryear. Run from a floppy drive, it's still pretty good too.

John explains his reasons for the public domain release and treats a sensitive topic like a gentleman. I was a little miffed at first since I forked over the bucks for it, but his explanation makes sense and the fact that he took the time to provide it for those who paid for the program says even more.

-Peter Hoddie contacted me the other day to report that the new AV-INDEXER program for cassette and VCR labeler etc. is well on the way to making it's commercial debut. He mentioned that it has "one of the neatest user interfaces" going. Wonder what that means exactly. If it's anything like cSHELL99 then its

FOUR-A/TALK

(continued)

going to be pretty "neat".

Word also is out from JPH that the next release of FirstBase is ready to be beta tested. If I got my act together in time, I might get a copy to look at. Hope so. There are some new search routines in it I'm told and WaWa and Co. are looking at ways to simplify the report generation module. No date yet on the commercial release of the upgrade though.

-In case you haven't heard, TENEX seems to be winding down it's 99/4A business and reducing it's inventory. According to John Kolean, TENEX will not be producing any more TI-99/4A catalogs. Too bad for all of us. I guess we just don't spend enough money, or there just aren't enough exciting new products coming out for the 4A? Either way, we all lose.

-CompuServe's TI FORUM ran a message across my monitor this month about a "tiff" of sorts between a well-known and respected user group personality and the head of a large 99/4A software company. I guess I subscribe to on-line information services to get information, but that kind of stuff is not what I put money out for. Come on guys! There's got to be more to write about than that!

HARRISON WORD PROCESSOR:

-I'm not going to give you a lot of information on HWP since a review of it will appear in MICROpendium some time in the future. I will tell you that the program is 100% assembly language coded, it supports more pages per document than TI-Writer and it uses a menu-driven user interface

instead of the command driven interface that TI-Writer users are accustomed to. I will also tell you that author Bruce Harrison has broken down the barrier on support-after-the-sale for 4A software by offering free telephone support for the product until midnight Mondays through Fridays. I will also tell you that it is very obvious to me that Mr. Harrison is a talented assembly language programmer, who also possesses a clear picture of what a professional piece of commercial software should look like. If you are interested in finding out more about the Harrison Word Processor you may contact:

Harrison Software
5705 40th Place
Hyattsville, MD 20781
301-277-3467

BEGINNER'S TIPS by Jean Hall

Sometimes, when I am working on the computer and it locks up on me, I usually suspect the extended basic cartridge. A solution that has worked for me, is to turn off the console, remove the extended basic cartridge and give it a good shake or two...even three and then replace it. Nine times out of ten it works. Chuck Grimes told me that I probably need the grom port cleaned. I informed him that I was lucky to have learned how to operate the TI let alone attempt to clean, fix, or repair it. Oh well, one of these days!

06 ERROR - close your disk drive door/make sure a disk is in the drive

02 ERROR - is your filename spelled correctly/right disk in drive

BASIC PROGRAMMING

by IRWIN HOTT

Jean asked me to write an article about BASIC. Well, it has been sometime since I have used it, but here goes anyway. I have listed a program which I wrote to find out what some of the keys on the TI did. Once in a while I would run into a filename or something that had a keypress in it that I was not familiar with. I wrote this program so that I could press a key to find out the ASCII code, or enter the code and find out the key or combination of keys to press. Recently I had a file on the BBS which had a \ in it. I could not remember what the keypress was, so I dug out this program. I will list it and then try to describe what each line does. There are certainly many advantages to Extended Basic but many functions can be accomplished in Basic although it may be a little more difficult.

This program uses the speech synthesizer, but you could change all of the PRINT #1 statements to PRINT if you do not have speech. If you do that be sure to delete line 30.

```

10 OPTION BASE 1
20 DIM L$(198)
30 OPEN #1:"SPEECH",OUTPUT
40 CALL CLEAR
50 C$="ONTROL<"
60 F$="UNCTION<"
70 S$="HIFT<"
80 PRINT #1:"LOADING DATA"
90 DATA ;C,;F,;S,1,15,AID;F7
,CLEAR;F4,DELETE;F1,INSERT;F
2,QUIT;F=,REDU;F8,ERASE;F3

```

```

100 DATA LEFT AIRO;FS,RIGHT
AIRO;FD,DOWN AIRO;FX,UP AIRO
;FE,PROCEED;F6,ENTER,BEGIN;F
5,BACK;F9
110 DATA 30,46,CURSOR,EDGE,S
PACE,X CLAMATION;S1,QUOTE;FP
,POUND;S3,;S4,;F5,;S7
120 DATA APOSTRA PHE;FO,(;S9
,);S0,;S8,PLUS;S=,COMMA,MYN
US;S/,PERIOD
130 DATA 58,64,COLEN,SEMICOL
EN,LESS THAN;SCOMMA,=,GREATE
R THAN;SPERIOD,QUESTION;F1,@
;S2
140 DATA 91,96,(BRACKET;FR,R
EVERSE SLASH;FZ,)BRACKET;FT,
CARET;S6,UNDERLINE;FU,GRAVE;
FC
150 DATA 123,159,LEFT BRACE;
FF,VERTICAL BAR;FA,RIGHT BRA
CE;FG,TILDA;FW,BLANK;FV,;CCO
MMA
160 DATA soh:START OF HEADIN
G;CA,stx:START OF TEXT;CB,et
x:END OF TEXT;CC,eot:END OF
TRANSMISSION;CD,enq:ENQUIRY;
CE
170 DATA ack:ACKNOWLEDGE;CF,
bel:BELL;CG,bs:BACK SPACE;CH
,ht:HORIZONTAL TABULATION;CI
,lf:LINE FEED;CJ
180 DATA vt:VERTICAL TABULAT
ION;CK,ff:FORM FEED;CL,cr:CA
RRIDGE RETURN;CM,so:SHIFT OU
T;CN,si:SHIFT IN;CO
190 DATA dle:DATA LINK ESCAP
E;CP,dc1:D VICE CONTROL1(X O
N);CQ,dc2:D VICE CONTROL2;CR
,dc3:D VICE CONTROL3(X OFF);
CS
200 DATA dc4:D VICE CONTROL4
;CT,nak:NEGATIVE ACKNOWLEDGE
;CU,syn:SYNCHRONOUS IDLE;CV
210 DATA etx:END OF TRANSMIS
SION BLOCK;CW,can:CANCEL;CX,
em:END OF MEADIUM;CY,sub:SUB
STITUTE;CZ
220 DATA esc:ESCAPE;CPERIOD,
fs:FILE SEPARATOR;CSEMICOLEN
,gs:GROUP SEPARATOR;C=,rs:RE
C ORD SEPARATOR;CB,us:UNIT S
EPARATOR;C9,176,198
230 DATA ;C0,;C1,;C2,;C3,;C4
,;C5,;C6,;C7,;FCOMMA,;FPERIO
D,;F/,;C/,;F0,;FCOLEN,;FB,;F
H,;FJ,;FK,;FL,;FM,;FN,;FQ,;F
Y
240 FOR I=1 TO 3
250 READ P$(I)
260 NEXT I
270 FOR I=1 TO 6
280 READ X,Y
290 FOR Z=X TO Y
300 READ L$(Z)
310 NEXT Z
320 NEXT I
330 PRINT #1:"ENTER 1 . TO F
IND ASKEY CODE;2 . TO FIND M
EANING OF ASKEY CODE . CHOOSE"
340 CALL KEY(0,A,S)
350 IF (S<1)+(A<49)+(A>50)TH
EN 340
360 A=A-48
370 PRINT #1:A
380 IF A=2 THEN 460
390 C=C+1
400 IF C=25 THEN 570
410 CALL KEY(0,K,S)
420 IF S<1 THEN 410
430 PRINT #1:K
440 GOSUB 640
450 GOTO 390
460 PRINT #1:"INPUT CODE"
470 C=C+1
480 IF C=25 THEN 570
490 INPUT K
500 IF (K<1)+(K>198)THEN 490
510 PRINT #1:K
520 IF (K>15)$(K<30)+(K>159)
$(K<176)THEN 530 ELSE 550
530 PRINT #1:K,"IS NOT PRE D
EFINED"
540 GOTO 470
550 GOSUB 640
560 GOTO 470
570 C=0
580 PRINT #1:"PRESS SPACE BA
R TO CONTINUE;ENTER FOR MAIN
MENU; OR ANY OTHER KEY TO S
TOP"
590 CALL KEY(0,K,S)
600 IF S<1 THEN 590
610 IF K<>32 THEN 630
620 ON A GOTO 390,470
630 IF K=13 THEN 330

```

```

635 STOP
640 FOR P=1 TO 3
650 D=POS(L$(K),P$(P),1)
660 IF D<>0 THEN 680
670 NEXT P
680 ON P GOTO 690,710,730,75
0
690 PRINT #1:SEG$(L$(K),1,D+
1)&C$&SEG$(L$(K),D+2,LEN(L$(
K))
700 RETURN
710 PRINT #1:SEG$(L$(K),1,D+
1)&F$&SEG$(L$(K),D+2,LEN(L$(
K))
720 RETURN
730 PRINT #1:SEG$(L$(K),1,D+
1)&S$&SEG$(L$(K),D+2,LEN(L$(
K))
740 RETURN
750 IF (K>64)+(K>46)$(K<58)T
HEN 780
760 PRINT #1:L$(K)
770 RETURN
780 IF (K<97)+(K>122)THEN 80
0
790 PRINT #1:"LOER CASE"
800 PRINT #1:CHR$(K)
810 RETURN

```

Line 10 saves a little memory by setting the OPTION BASE to 1 instead of 0. In this program it is not really necessary.

Line 20 opens up an array to hold all of the data statements that contain the names of the keys.

Line 30 opens output to the speech synthesizer.

Line 40 clears the screen.

Lines 50-70 set strings equal to control function and shift. You will see that the first letter in each word is missing. That letter is found in the data statements. I did this to save loading time, typing,

BASIC PROGRAMMING

(continued)

and memory.

Line 80 sends the string within quotes to speech. You will notice that some words are misspelled in the program. That gives the speech a more natural sound.

Lines 90-230 contain the data statements. Line 90 begins with 3 letters and 2 numbers e.g. DATA ;C,;F,;S,1,15

In lines 240-260 those 3 letters are read into an array.

In lines 270-320 there are 2 loops. The strings which are read in contain all of the characters the speech will not say. There is no reason to read in the alphabet for example since the speech synthesizer will say all of those characters already. There are 6 divisions within the data statements. The first is from character 1 through character 15, hence the 1,15 in the first data statement. That is setting X and Y equal to the starting and ending points of the first loop.

In line 110 the next numbers read in are 30,,46. Elements of the array 16-29 are left blank as they are not defined in the TE II manual which I used as the source for these codes. The reading of the data continues until all 6 sections have been read.

Lines 330-380 ask for a choice. You may enter "1" to press a key and find out what it is, or "2" to find

out what an ASCII code is; e.g. 92= reverse slash. Take a look at line 350. That is equivalent to 3 "IF THEN" statements. The "+" is equal to "OR". You will see some use of this later with the "*" which is the same as "AND". This can save a good deal of program space.

When you press a key in a CALL KEY statement the ASCII value is returned. If you press "1" 49 is returned in "A". That is why the A=A-48.

In lines 390 and 470 the C=C+1 is used so that after 25 key presses you may choose to return to the menu.

Lines 400 or 480 goto 570 to let you return to the main menu or continue the program.

Lines 410-430 look for a key press to return the ASCII code and the meaning.

Lines 440 and 550 GOSUB 640 after your entry to speak the code and the key pressed.

Lines 460-560 are used if you have chosen 2 from the menu. You may enter a code and the key press is returned.

Line 520 checks to see if K has been defined. If K is less than 30 and greater than 15 or if K is greater than 159 and less than 176 then line 530 is executed.

Lines 640-740 are finding, constructing and printing

the string which contains the key pressed to speech.

Here are some examples:

```
LOADING DATA
ENTER 1 . TO FIND ASKEY CODE
;2 . TO FIND MEANING OF ASKEY CODE . CHOOSE
2
INPUT CODE
92
REVERSE SLASH;FUNCTION<Z
135
bel:BELL;CONTROL<G
9
RIGHT AIRO;FUNCTION<D
122
LOER CASE z
60
LESS THAN;SHIFT<COMMA
```

The unctio nontrol and hift are added to the proper portion of the string and it is sent to speech.

Lines 750-760 print the characters which can be pronounced by the speech.

Line 780 skips 790 if the character is not lower case.

Line 790 speaks "LOWER CASE"

Line 810 returns from the SUBPROGRAM.

This would be a rather difficult program to type in. Therefore it will be on the Spirit of 99 TIBBS as well as the C.O.N.N.I. Disk-of-the-Month.

If you ave any questions about it, or about BASIC don't hesitate to ask me at one of the meetings.

This program is rather complex, and I hope I have been able to explain it well

enough so that you have been able to get an idea of how it works.





RAG SOFTWARE VERSION 4.2
by JEAN WILSON

TI-WRITER UPDATE

(Thanks to Jean and the Suncoast Beeper NL, August 1989, page 3)

At the meeting last month, I mentioned that I had placed a copy of the latest fairware version of TI-Writer in the library, Ver. 4.2. (I think I said it was version 4.0, but it's not; it's 4.2.) As I said, it's fairware. The author is R.A. Green (RAG Software), 1032 Chantenay Drive, Gloucester, Ontario, Canada K1C 2K9. He's asking \$10. A few days ago I had an enquiry about that program from one of our members; how does it differ from Funnelweb?; in what way is it superior to the original TI-Writer? Here's what I've been able to find out with a little (very little, I'm afraid) experimentation and a quick reading of the documentation on the disk.

There is an extended basic load, of course, so no other module is needed. The screen comes up with the familiar choices of Editor, Formatter, and Utility, a, b, and c, not 1,2, and 3. It beeps at you to get your attention when its fully loaded. There is a configuration system involved here if you choose to utilize it, and I can guarantee that it is considerably easier to use than the Funnelweb one. It allows you to set up your screen colors, tab settings, printer name, word wrap or not, as well as line number display on or off before you begin. You have a choice of two character sets. The defaults, if you just want

to get on with it, are PIO, white on blue, word wrap on, margins at 0 and 79, and line numbers on. The show directory function looks very much like the catalog type used in the original and is perfectly appropriate for your use. On the disk you will find loaders not only for the extended basic mode, but also for mini-men and the Super-Cart. Somehow or other he has managed to shorten the formatter portion of the thing. It's now only one file rather than the two we're used to. No more Form1 and Form2. There appears to be a little memory saved here also. The docs say it works wonderfully well on the Horizon Ram Disk, but that's something I can't test for you.

There are several new or improved features. It's possible to define your own characters to be used to implement underlining, bold-facing, and mail list control, as well as the required space character. One big change is that you can now choose a conditional page break option that allows the formatter to eject a page whenever a certain number of lines are left on the current sheet. One unusual, but welcome, change is that you no longer have to make a file full of IFs (for IncludeFile) if you have a bunch of super-long files that are all to be printed at once. Mr. Green calls it a Chain File option and theoretically you could have dozens of disks full of chapters of your great American Novel and have them

all printed as one document (or book if you will.) Just keep shoving the disks in and pressing <enter>. A nice touch.

There are several new commands I like very much. Control comma sends you to the top of the document and control period to the bottom. That's easy to remember and works well. QQ allows you to quit immediately without going through the Save, Purge, or Die routine we're all used to. He has also included a Printer Control command that enables the computer to send control characters to set up your printer without having to resort to transliteration. That's a blessing.

I have not had time to check out all the improvements to the formatter, but the documentation specifies many of them. Some of the things I WAS able to check out were the improved speed of the cursor, text scrolls, and windows. Move and Copy seem faster to me and I'm less likely to have letters drop off when I'm typing fast and the program does a word wrap. As I said when I gave the disk to Jim, when all you want to do is get there, get the job done, and get out, then this is the way to go. It loads much, much faster than Funnelweb and has a great many improvements over the original TI-Writer or its clones like T-K or B-A Writer. Of course, if you want a total environment for editor assembler or program loading, etc., etc., then

that's another matter entirely.

JOHN GUION VICTIM CAR CRASH

(Edited-MICROpendium article by editor JK).

John O. Guion, age 22, died in a car accident Sept. 8 in Wise County, TX.

Funeral services were held Sept. 12 at Restland Memorial Chapel in Dallas, with John Thompson, minister, officiating.

Guion developed and marketed the Multi-Mod and upgrades for the TI RS232 and TI Disk Controllers. He designed and developed the P-6ram card and wrote modifications for 32K memory on 16-bit Bus in console. He also made design improvements for the Horizon RAMdisk.

He served as BBS sysop for the Dallas TI Home Computer Group. His parents, Louis and Jackie Guion, are president and treasurer, respectively, of the group.

He was an electrical engineering technology student at Texas Tech University in Lubbock.

He is survived by his parents; a brother, Louis Guion IV, of Lubbock; grandparents, Louis I. Guion Jr. of Jackson, MI and Mary Louise Guion of Camden, SC; and a number of aunts, uncles and cousins.

Memorial contributions may be made to the Blood Center at Wadley, 9000 Harry Hines Blvd., Dallas TX 75235.

RAG SOFTWARE

R.A. Green
1032 Chantenay Dr.,
Gloucester, Ont.
K1C 2K9
(613) 837-1955

August 15, 1989

(Editor's note: This letter was received by yours truly and if you have a copy of this utility or are planning to obtain a copy, please make the changes indicated below.)

To: Users of TI Writer Version 4.3:

The Formatter, which shows Version 4.1, on the Version 4.3 disk has a bug in the .DR command. The fix is a one byte patch, plus another one byte patch to upgrade the Version number displayed to 4.4 The Editor remains at Version 4.3.

The patches are in the first sector of file FORMA1 (Sector >0066 on the distribution disk).

Fix .DR patch:

Sector >0066
Offset >001A
Is now >C204
SHOULD BE: >C202

Make Version 4.4:

Sector >0066
Offset >00CF
Is now >2E31 ".1"
SHOULD BE: >2E34

Art Green

P.S. Use a copy!

**TI-BASE - From INSCEBOT
TUTORIAL 8.1 By Martin Smoley
NorthCoast 99'ers - March 12, 1989
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***** More on Printer Controls *****

Last month I thought I covered printer controls, but then I tried to use them. I made a real mess of things. At that point I decided that instead of trying to remember another set of printer commands, I would change the TIB commands to the type I use the rest of the time. I normally use directly inserted codes which can be found on page 146 of the original TI-Writer manual. I placed these characters in the right hand column of last months FunnelWeb TI-Base Control Code sheet. After firing up TI-Base I typed USE DSK5.PRINTER, which is where my PRINTER DB is located, and then MODIFY STRUCTURE. This brought up the PRINTER STRUCTURE SCREEN, which I then modified to look like the one below.

CREATED	CHANGED			
FIELD	DESCRIPTOR	TYPE	WIDTH	DEC
1	NAME	C	010	
2	FF	X	002	
3	LF	X	002	
4	CR	X	002	
5	G	X	004	
6	UL	X	006	
7	e	X	002	
8	f	X	004	
9	4	X	004	
10	E	X	004	
11	SPS	X	006	
12	SBS	X	006	
13	HT	X	002	
14	ST	X	020	
15	Drft	X	026	
16	BLANK	X	030	

.SNAP

000 1 PRINTER 00006/00007

PRINTER DATABASE

REC	NAME	FF	LF	CR	G	UL	e	f	4	E	SPS	SBS	HT	ST	Drft	BLANK	
0006	RTARR	0C	0A	0D	0000	000000	00	0000	0000	0000	000000	000000	09	00000000	000000000000	000000000000	
0000	EPSON	0C	0A	0D	1B47	1B2D01	0E	000F	1B34	1B45	1B5300	1B5301	09	1B442B00	000000000000	1B4B1B2D3014121B351B461B54	000000000000
0003	MX-80	0C	0A	0D	1B47	000000	0E	000F	0000	1B45	000000	000000	09	1B440A0A	0A0A0A0A0A00	1B4B14121B4600000000000000	000000000000
0002	NEC	0C	0A	0D	0000	000000	0E	1B51	0000	1B21	000000	000000	09	1B2B3031	302C30320000	1B220F1B4E0000000000000000	000000000000
0004	OKIDATA	0C	0A	0D	1B4B	1B43	1F	001D	0000	1B54	001B4A	001B4C	09	00000000	000000000000	00000000000000000000000000	000000000000
0005	PROPRINTER	0C	0A	0D	0000	000000	00	0000	0000	0000	000000	000000	09	00000000	000000000000	00000000000000000000000000	000000000000
0001	TI-850	0C	0A	0D	1B47	000000	0E	000F	0000	1B45	000000	000000	09	1B440A0A	0A0A0A0A0A00	1B4B14121B4600000000000000	000000000000

You can type over the changes. Do not change anything in the width column or you will lose the data in the file. Next I type EDIT (E), to get into the file and make one change. When the EDIT Screen came up I pressed FCTN 5 to get to the EPSON record and I pressed (E) until the cursor was in the ST field. I then entered 1B442B followed by all zeros, and FCTN 8 to save my changes. This changed my ST (Set Tab) field to set one tab at 40 columns. 1B44 means Set Tab, and 2B is Hex for 40. The zeros are null bits and don't do anything. I then typed CLOSE ALL (E), to get out of the PRINTER DB. I had previously removed the asterisk (*) from the beginning of the PRINTER EPSON line in my SETUP CF, so I typed DO DSK5.SETUP. The SETUP file ran and I saw the PRINTER flash on the screen so I knew that my new commands were in place. NOTE: I have placed a copy of the PRINTER database at the bottom of this page with my modification to the ST field. I chopped off the BLANK field to make it all fit on one line. The BLANK field contains 30 zeros. You cannot print out your PRINTER DB because of the special X-type field designation. To print this out I place a copy of the two PRINTER files on a disk in drive #1 and entered these commands. COPY DSK1.PRINTER/D DSK2.C_PRNTR/D 60 (E), then COPY DSK1.PRINTER/S DSK2.C_PRNTR/S 60 (E). If you have a two drive system, you must also have a copy of the TIB system in Drive #1, or you can make the copy directly from your TIB system disk. These commands will cause TIB to COPY the printer files to two new files. You can now enter USE DSK2.C_PRNTR (E), and the MODIFY STRUCTURE (E). At this point change all of the X-type designations to C, for Character, and FCTN 8 to save the changes, and FCTN 9 to get out of that mode. At that point I entered TOP (E), then PRINT (f) and PRINT ALL. My printout was roughly what you see at the bottom of this page except for added line because of field lengths. With this printout you can visualize the complete PRINTER database and see where your own particular printer fits in. Remember to modify the original PRINTER database if needed. The C_PRNTR database is completely useless except for a printout.

I really hope this helps some of you get into the swing of printer controls. I spent a lot of time and messed up a lot of data in order to produce this tutorial.

Hopefully you now have modified your printer control database and have put it in use by removing the asterisk from the SETUP file on your system disk. Now let's put the PRINTER COMMANDS to some use. I had a specific question at one time that I will answer in the same Command File. The question was, "How can I print more than one label across? I got some labels cheap that are two across." **Continued Next Page.**

**TI-BASE - From INSCEBOT
TUTORIAL 8.2 By Martin Smoley
NorthCoast 99'ers - March 12, 1989
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The Command File on this page is the working result of my effort for this month. It is probably not the most efficient as far as programming is concerned, but it does print labels two across and it also demonstrates the use of the printer controls in the Command File mode. If you wish to type this CF in and use it, it is too large for the TIB Editor, so it must be entered with FunnelWeb in the non-wordwrap mode. Lines 4 and 5 do not execute because of the asterisk in the first column. If you run into a lot of bugs, you can find many of them by watching the program lines scroll up the screen. When the CF works well, remove the asterisk from that line to turn the screen junk off. If your problems are massive, as mine were, remove the asterisk from the TRACE ON line and all lines which are executed will also be sent to the printer, along with line numbers. The printout will help you find your problems. When the CF runs well remove the TRACE line completely. The line PRINT (ST),(G) is the first line to issue printer controls. It sets the printer tab at 40 columns and turns double strike on. Note: This line can be typed at the Dot Prompt and executed provided a DB is in use at the time. I am using Tnames which contains 5 records. "WHILE .NOT. (EOF)", is roughly the same as saying to TIB, if you have any data right, now load the respective fields into XPDT, NAME, ADDR8 and CTSTZ, then MOVE to the next record. The IF statement says, IF you have turned up the EOF marker with that MOVE, then print out the fields you have and jump to the end or ENDIF. This will print one label. If the MOVE has not brought us to the EOF marker, TIB will jump to the ELSE statement. The ELSE statement is the same as saying, we must have another record so proceed with the statements right after the ELSE, which will produce two across labels. TEMP is reused for each line so that portion works like this. REPLACE TEMP WITH " Exp. Date" XP, is filling TEMP with items from the second record because of the MOVE statement. Therefore, PRINT (G),XPDT,(HT),TEMP,(Drft) says this; set double strike on, print whatever is in XPDT (which we gathered from the previous data record), Horizontal Tab to column 40, print TEMP (which contains data from the second record, and last, change the printer back to Draft mode. This will print across the page side by side with a tab of 40. The next line prints a Carriage Return and a Line Feed. I like the PRINT (CR),(LF), it eliminates the need to initialize space for BLNK, which is what I previously used for a line feed. This process continues until the two labels are printed, another MOVE is executed and the whole process starts over. When the EOF is reached the WHILE statement no longer executes, and in my case the SETUP file is run. I have started using my SETUP CF at the end for other Command Files. I turn on the RECNUM etc. and it DISPLAYS the STATUS so I can see exactly what is happening. This way I always return to a system I am familiar with, and it's easy to do. You may not want to use my symbols for control codes, (G) double strike, (f) condensed etc., but you should have enough information at this time to set up whatever you want and be able to use whatever you do set up. I am beginning to like this type of printer control, because it is available at all times. I do not need to jump to FunnelWeb to insert special characters. I have not tried this yet, but I believe that the control codes for your personal system can be greatly expanded by dedicating the whole PRINTER database to one printer. For example, you would not have DIABLO, EPSON, MX-80, etc. You would have EPSON1, EPSON2, EPSON3 etc. and fill the whole database with EPSON commands. With the PRINTER database on the PRGDISK you could then SELECT an unused slot within a running CF and execute PRINTER EPSONn (n=1-0). At that point TIB would load another 15 printer commands which you could use. Interesting thought isn't it. Next Month.

```
* Command file 2WLBS/C
* Copyright Martin Smoley 1989
*
* SET TALK OFF
* TRACE ON
SET RECNUM OFF
SET HEADING OFF
SET PAGE=000
CLEAR
COLOR WHITE,DARK-BLUE
LOCAL XPDT C 38
LOCAL NAME C 38
LOCAL ADDR8 C 38
LOCAL CTSTZ C 38
LOCAL TEMP C 38
USE Tnames
TOP
PRINT (ST),(G)
WHILE .NOT. (EOF)
  REPLACE XPDT WITH "          " ;
  | "          Exp. Date " | XP
  REPLACE NAME WITH TRIM(FN) | " " ;
  | MI | " " | LN
  REPLACE ADDR8 WITH SA
  REPLACE CTSTZ WITH TRIM(CT) | " " ;
  | ST | ". " | ZP

  MOVE
  IF (EOF)
    PRINT (G),XPDT,(Drft)
    PRINT (CR),(LF)
    PRINT (E),NAME,(Drft),(G)
    PRINT (4),ADDR8
    PRINT CTSTZ,(Drft)
    PRINT (CR),(LF)
  ELSE
    REPLACE TEMP WITH "          " ;
    | "          Exp. Date " | XP
    PRINT (G),XPDT,(HT),TEMP,(Drft)
    PRINT (CR),(LF)
    REPLACE TEMP WITH TRIM(FN) | " " ;
    | MI | " " | LN
    PRINT (E),NAME,(HT),TEMP,(Drft),(G)
    REPLACE TEMP WITH SA
    PRINT (4),ADDR8,(HT),TEMP
    REPLACE TEMP WITH TRIM(CT) | " " ;
    | ST | ". " | ZP
    PRINT CTSTZ,(HT),TEMP,(Drft)
    PRINT (CR),(LF)
    MOVE
  ENDIF
ENDWHILE
CLOSE ALL
DO DSK5.SETUP
RETURN
*
* CF to print two across labels
```

**MEETING DATES
FOR
1989 - 90**

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