

Hi,

Last month was the Annual General Meeting (the first one we have had in twenty one months of operation) and it was held in near darkness. Unfortunately, soon after we started arriving at the hall, the power went off, and we were left with the light of a small fluorescent, and a spotlight powered by Chris's car through the window.

The meeting went very well. Seven committee members were elected. The committee won't know itself. Those elected were:

Andy Russell	President
Nola Huggins	Secretary/Treasurer

and the following were elected as committee members:-

Mark Langdon  
David Donaldson  
Peter Hoyes  
Chris Bishop  
Ross Kay

It was agreed at the meeting that a copy of the constitution be published in this next newsletter, and that a copy be given to every new member joining our group.

It was agreed by all that subscriptions would not be raised at least before the next Annual General Meeting, which will be held in March 1986. It was further agreed that the new committee members would remain in force until the March 1987 Annual General Meeting.

A balance sheet was presented and a copy of this is enclosed in this newsletter for our country members.

The meeting ended very early - and the power came back on around 10 p.m. which meant that the new committee was welcomed over a cup of black coffee (the dairy having shut because of the lack of power).

#### SUPER CHESS

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Andy was trying to fix this program, but it proved to be more bother

than it is worth. The title page is a bit strange, but this doesn't affect the game in any way. This version of Chess is extremely good, both Andy and myself will vouch for it.

## TOOLKIT

This program is now available on eprom direct from Modec Instruments Ltd, 16 Hudson Avenue, Upper Hutt, for the sum of \$45.00.

For your \$45.00 you get two eproms containing the program, and an 11 page set of comprehensive instructions. Toolkit is a program designed to enable you to write, execute and debug machine code programs, copy Colour Genie tapes and analyse and alter machine code written by others. It is a machine code monitor program with 26 commands available.

To get Toolkit working, you will need a rom board (the group sell them at \$55.00 each).

Some of the commands available with Toolkit are:-

COMMAND	SYMBOL	ROM No	DESCRIPTION
Breakpoint	@	2	Set breakpoint at specified address
Ascii	A	1	Dump memory in ascii format
Binary	B	2	Maths & hex/dec/binary convertor
Cancel	C	1	Cancel printer
Dump	D	1	Dump memory in hex format
Edit	E	1	Write & alter programs in RAM
Find	F	1	Find specified byte
Goto	G	1	Transfers control to anywhere in memory
Hunt	H	1	Locate specified 16 bit address
Input/init	I	1	Input from port/ Initialise TOOLKIT
Jump Calculator	J	1	Calculate relative jump displacements
Keyread	K	1	Write text into memory
Load	L	2	Load system/ basic tapes
Move	M	1	Move any memory block without overlap
Output	O	1	Output to port
Place	P	2	Place a tracepoint
Quit	Q	1	Quit to basic
Redefine	R	2	Redefine user area
Symbol	S	1	Symbolic dump (disassembler)
Trace	T	2	Trace operation of a program
User	U	1	Activate user routine
Verify	V	1	Compare two blocks of memory
Write	W	2	Write Genie/TRS-80 system tape
Exchange	X	1	Swap two blocks of memory
Y command	Y	1	Turn printer output on
Zero byte	Z	1	Fill any block of memory with a specified byte

Anyone who is getting into, or has got into, machine code programming, could really use this program. It looks to be much easier to use, and more versatile than Zen or any of the monitors we have.

This program will not be available through the Users Group. It would cost us just as much as Modem Instruments to produce it and pay royalties, so please send orders direct.

#### XMAS NEWSLETTER

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Next month will be the last newsletter before Xmas, therefore, it will be thicker than usual, with a lot more programs being published so that you will all have something to do over Xmas.

We have a couple of programs that are about 5 or 6 pages long - you can either type them in, or purchase them from us at \$3.50 each.

#### NEW MEMBER

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We welcome the following family to our Group -  
SPICK family, 11 Racecourse Parade, Avondale

Our next meeting is on Monday the 11th of November, 1985, at 7.30 p.m.  
We look forward to seeing you all.

- Nola Huggins

## CONSTITUTION for AUCKLAND COLOUR GENIE USERS GROUP

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1. There shall be a non-profit making organisation to be known as THE AUCKLAND COLOUR GENIE USERS GROUP afterwards referred to as the organisation.
2. The aims of the organisation will be the sharing of knowledge on the Colour Genie computer, distribution of software and hardware for the Colour Genie, and such other activities as the members decide.
3. An Annual General Meeting will be held in March each year, and Special General Meetings may be held with three weeks notice in writing. Normal meetings shall be held as the committee determine.
4. There will be three classes of members - full members (which will include all members of a family group), country members (where the member lives outside the greater Auckland area) and student members (where the member is engaged in full-time study).
5. A quorum shall consist of 30% of the total of full members and student members.
6. A committee shall be elected at the Annual General Meeting and must contain a Chairman, Secretary/Treasurer, and between three and six other members. The Chairman and Secretary/Treasurer shall be elected by the meeting.
7. Non-committee members may be appointed to fulfill other tasks as the committee shall decide.
8. The committee may be given power to co-opt members to the committee by a vote at a normal meeting of the club if a quorum is present with a 75% majority vote.
9. The organisation shall operate such bank accounts as the committee shall determine. All accounts must have at least three signatories, with any two to sign.
10. The financial records of the organisation will be available for inspection by members at reasonable notice.
11. The financial records will be audited before the Annual General Meeting for presentation at the meeting and a financial statement will be distributed to all members.

12. Subscriptions will be set by the members either at the Annual General Meeting, or at a Special General Meeting.

13. In the event of an Annual General Meeting or a Special General Meeting voting to wind-up the organisation, the realisable assets will pass to a similar computer-based non-profit organisation which will be decided by the meeting.

14. The policy of the organisation with regard to software sales will be that the only warranty is on the quality of the medium used and the quality of the recording.

15. Any changes to this constitution may be made at an Annual General Meeting or a Special General Meeting by a majority vote of the people present.

16. The balance date shall be the 31st of January.

AUCKLAND COLOUR GENIE USERS GROUP

STATEMENT OF ACCOUNT - 1 MARCH 1984 TO 1 OCTOBER 1985

Deposits:-

Subscriptions paid to us over 2 years	3150.00
Sales of software and hardware	15435.81
Commission on Genie Sale at Computer Show	95.00
Ad placed in our newsletter	10.00
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	\$18690.81

Less Payments:-

Administration Costs:-

Postage	944.80	
Photocopying (Newsletters, Gum magazines, Technical Manual, 40p booklets, pro- gram instructions, etc)	2205.92	
Stationery	307.02	
Bank Fees	8.50	
Rent	240.00	
Subscription to UK Group	76.39	
Ad in Herald	20.15	
Xmas party drinks - Dec 1984	104.60	
Tea, coffee, biscuits at meetings	130.00	- \$4037.38
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Hardware and Software Purchased

Mark Langdon - data stabilisers, rom boards, printer interfaces, cassette relay boards, etc	2272.62	
Roms (resold as hardware)	216.82	
Joysticks (resold as hardware)	648.00	
Printer interfaces (resold)	201.60	
Euromatic Recorders (resold)	100.00	
Tapes, labels, etc	3009.74	
Software masters (includes bank exchange fees)	3045.02	
Royalties paid to English software houses to date	2276.09	- \$11769.89
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Assets Owned By Group

Green Screen Monitor	200.00	
Genie & recorder (held by Nola)	420.00	
2 Genies in working order (Andy)	500.00	
1 Disk Drive Interface	350.00	
1 Disk Drive unit	300.00	
4 EACA recorders (in working order )	200.00	
plus miscellaneous spare parts	0.00	- \$ 2070.00
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= Money held in 2 bank accounts \$ 813.54  
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1 REM ** COST ANALYSIS PROGRAM **
2 REM ** PRODUCT OF EACA INTERNATIONAL LTD. **
3 REM ** ALL RIGHTS RESERVED. **
5 CLS
10 PRINT " * COST ANALYSIS *"
20 PRINT:GOSUB 500
30 CLS:INPUT "ENTER THE TOTAL FIXED COST( OVERHEAD COST ) VALUE ";F
31 IF F <= 0 GOTO 30
40 INPUT " ENTER THE VARIABLE COST PER UNIT ";V
41 IF V <= 0.01 GOTO 40
50 INPUT " ENTER THE PRODUCTION OR SALE QUANTITY PER MONTH ";N
51 IF N < 1 GOTO 50
60 C=F+V*N
61 PRINT:PRINT " * * * * *"
70 PRINT:PRINT "THE TOTAL COST OF ";N;" UNITS IS $";C
80 PRINT
90 PRINT "THE AVERAGE COST PER UNIT IS $"; C/N
91 PRINT:PRINT " * * * * *"
100 PRINT:INPUT "DO YOU NEED MORE ANALYSIS (YES/NO) ";A$
110 IF A$="Y" OR A$="YES" GOTO 140
120 IF A$="N" OR A$="NO" GOTO 310
130 GOTO 100
140 PRINT:INPUT " ENTER THE SELLING PRICE PER UNIT DESIRED ";U
145 IF U<=0.01 GOTO 140
150 CLS:R=N*U
160 PRINT:PRINT " * * * * *"
170 PRINT "THE TOTAL REVENUE OF ";N;" UNITS AT $";U
180 PRINT " IS $";R
181 PP=(R-C)/C*100
182 IF PP<0 THEN 185
183 PRINT "THAT IS ";PP;"% PROFIT."
184 GOTO 200
185 PRINT "THAT IS ";ABS(PP);"% LOSS."
200 IF C<R GOTO 250
210 B=N: IF C=R GOTO 270
220 PRINT:PRINT "THE BREAKEVEN POINT CANNOT BE ACHIEVED"
230 PRINT "IF ALL THE INFORMATION GIVEN ARE CORRECT."
240 GOTO 310
250 B=INT(F/(U-V))
260 IF B=0 THEN B=1
261 C=B*U
270 PRINT:PRINT " * * * * *"
280 PRINT "THE BREAKEVEN POINT IS ACHIEVED WHEN ";B;" UNITS"
285 PRINT " ARE PRODUCED OR SOLD."
290 PRINT "THE BREAKEVEN AMOUNT IS $";C
300 PRINT:PRINT " * * * * *"
310 INPUT "DO YOU LIKE TO TRY AGAIN (YES/NO) ";A$
320 IF A$="Y" OR A$="YES" GOTO 30
330 IF A$="N" OR A$="NO" GOTO 350
340 GOTO 310
350 END
500 PRINT :INPUT "DO YOU NEED INSTRUCTIONS (YES/NO) ";A$
510 IF A$="YES" OR A$="Y" GOTO 540
520 IF A$="NO" OR A$="N" RETURN
530 GOTO 500
540 CLS:PRINT "THIS PROGRAM CALCULATES THE BREAKEVEN POINT OF CERTAIN PR
ODUCT."
550 PRINT "THE BREAKEVEN POINT IS LOCATED WHERE THE TOTAL REVENUE CAN"
560 PRINT "JUST COVER THE TOTAL EXPENSE."
570 PRINT "THE USER IS EXPECTED TO INPUT THE FOLLOWING DATA:"
580 PRINT " 1. THE OVERHEAD COST OF THE COMPANY."
590 PRINT " 2. THE VARIABLE COST PER UNIT."
600 PRINT " 3. THE MAXIMUM PRODUCTION QUANTITY PER MONTH."
610 PRINT:INPUT "PRESS THE NEWLINE KEY WHEN READY ";A$
620 RETURN

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2000 PRINT : PRINT
2010 IF U = 1 GOTO 2110
2020 IF Q = 1 GOTO 2200
2030 PRINT
2040 INPUT "DO YOU WANT TO ADD MORE ENTRIES (Y/N)"; Y$
2050 IF LEFT$(Y$, 1) = "Y" GOTO 560
2060 S1 = S1 + S : B1 = B1 + B : C1 = C1 + C : D1 = D1 + D : E1 = E1 + E : F1 = F
1 + F : G1 = G1 + G : H1 = H1 + H
2070 I1 = I1 + I : J1 = J1 + J : K1 = K1 + K : L1 = L1 + L : M1 = M1 + M : P1 =
P1 + P : R1 = R1 + R : W1 = W1 + 1
2080 PRINT : INPUT "ADDITIONAL PAGES THIS MONTH (Y/N)" ; W$
2090 IF LEFT$(W$, 1) = "Y" GOTO 500
2100 U = 1 : GOTO 1520
2110 S2 = S2 + S1 : B2 = B2 + B1 : C2 = C2 + C1 : D2 = D2 + D1 : E2 = E2 + E1 :
F2 = F2 + F1 : G2 = G2 + G1 : H2 = H2 + H1
2120 I2 = I2 + I1 : J2 = J2 + J1 : K2 = K2 + K1 : L2 = L2 + L1 : M2 = M2 + M1 :
P2 = P2 + P1 : R2 = R2 + R1 : W2 = W2 + W1
2130 Q = 1
2140 PRINT : INPUT "*** GRAND TOTALS *** (Y/N)"; A$
2150 IF LEFT$(A$, 1) = "Y" GOTO 2170
2160 GOTO 2200
2170 GOSUB 5000 : PRINT : PRINT "*** GRAND TOTALS *** BEING PRINTED...."
2180 PRINT : P = 0
2190 LPRINT " " : LPRINT " " : LPRINT "*** GRAND TOTALS ***" : GOTO 1540
2200 PRINT : INPUT "ANOTHER MONTH (Y/N)"; R$
2210 IF LEFT$(R$, 1) = "Y" GOTO 500
2220 CLS : PRINT : PRINT : PRINT : PRINT
2230 PRINT "          END OF PROGRAM -":PRINT:PRINT"          SEE YOU AGAIN SOMETIME..
....."
2240 PRINT : PRINT : PRINT : PRINT:PRINT:PRINT:PRINT:PRINT:PRINT
2250 END
3000 REM * ENTER COLOUMN HEADINGS (14 CHARACTERS EACH, MAX.) *
3010 FOR Z = 1 TO 16
3020 READ A$(Z) : PRINT TAB(10)"COLUMN"; A$(Z)
3030 NEXT Z
3040 PRINT : INPUT "***** PRESS RETURN TO CONTINUE..."; A$
3050 GOTO 400
3060 DATA 1-TOTAL AMOUNT, 2-PURCHASES, 3-DRAWINGS, 4-DEBTORS
3070 DATA 5-PLANT/EQUIP, 6-VEHICLE EXPS, 7-WAGES, 8-TOOLS
3080 DATA 9-SAFTEY EQUIP, 10-CREDITORS,11-SALES,12-CAPITAL
3090 DATA13-FREIGHT,14-OFFICE EXPS,15-OPERATING EXPS,16-PAYE
4000 PRINT: PRINT : PRINT " ENTER PREVIOUS *** GRAND TOTALS *** :"
4010 PRINT
4020 PRINT A$(1); : INPUT " : TOTAL"; S2
4030 PRINT A$(2); : INPUT " : TOTAL"; B2
4040 PRINT A$(3); : INPUT " : TOTAL"; C2
4050 PRINT A$(4); : INPUT " : TOTAL"; D2
4060 PRINT A$(5); : INPUT " : TOTAL"; E2
4070 PRINT A$(6); : INPUT " : TOTAL"; F2
4080 PRINT A$(7); : INPUT " : TOTAL"; G2
4090 PRINT A$(8); : INPUT " : TOTAL"; H2
4100 PRINT A$(9); : INPUT " : TOTAL"; I2
4110 PRINT A$(10); : INPUT " : TOTAL"; J2
4120 PRINT A$(11); : INPUT " : TOTAL"; K2
4130 PRINT A$(12); : INPUT " : TOTAL"; L2
4140 PRINT A$(13); : INPUT " : TOTAL"; M2
4150 PRINT A$(14); : INPUT " : TOTAL"; P2
4160 PRINT A$(15); : INPUT " : TOTAL"; R2
4170 PRINT A$(16); : INPUT " : TOTAL"; W2
4180 Q = 1 : GOTO 2170

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5000 REM * LINE 5050 ADVANCES PRINTER TO NEXT PAGE *
5010 REM * ASSUMES 66 LINES PER PAGE MAXIMUM *
5020 PL = PEEK(16425)
5030 IF PL > 58 GOTO 5050
5040 RETURN
5050 FOR PE = 1 TO(70 - PL) : LPRINT "" : NEXT PE : POKE 16435, 1 : RETURN
7000 CLS : REM * INSTRUCTIONS WHEN REQUESTED *
7010 PRINT : PRINT " THIS PROGRAM, USED WITH YOUR PRINTER, PRODUCES AN INCOME"
;
7020 PRINT " OR EXPENSE LEDGER FOR HOME OR SMALL BUSINESS USE. YOU MUST"
7030 PRINT "HAVE AN 80 COLUMN PRINTER, BUT NO DISK IS REQUIRED...."
7040 PRINT : PRINT " THE PROGRAM KEEPS TRACK OF 16 'COLUMNS'. COLUMN 1
IS";
7050 PRINT " ALWAYS THE AMOUNT COLUMNS 2-16 ARE THE CATEGORIES THIS AMOUNT";
7060 PRINT " MIGHT FALL INTO. COLUMN HEADINGS ARE ASSIGNED IN DATA LINES";
7070 PRINT " 3060-3090, WHICH YOU CAN ENTER FROM THE KEYBOARD BEFORE";
7080 PRINT " ACTUALLY USING THE PROGRAM. THE HEADINGS MAY BE BLANK OR THEY";
7090 PRINT " MAY BE ALREADY ASSIGNED, DEPENDS WHO HAS ALREADY BEEN USING
THE PROGRAM....."
7100 PRINT : INPUT "PRESS RETURN TO CONTINUE....."; A# : CLS
7110 PRINT : PRINT "ENTER THE FOLLOWING FOR EACH AMOUNT:
7120 PRINT " TO WHOM - PURPOSE.....(RETURN)
7125 PRINT" DATE (DD/MM/YY).....(COMMA)
7130 PRINT " CHEQUE # (OR 'CASH' FOR CASH)..(COMMA)
7140 PRINT " AMOUNT (XXXXX.XX).....(RETURN)
7160 PRINT " COLUMN # (2 - 16 ONLY!!).....(RETURN)
7170 PRINT : PRINT "ENTER ....TOTAL,00,0.....FOR PAGE TOTALS"
7180 PRINT : INPUT "PRESS RETURN TO CONTINUE....."; A# : CLS
7190 PRINT "AS YOU CONFIRM EACH BLOCK OF INFORMATION REQUESTED BY THE ";
7200 PRINT "PROGRAM, A SINGLE LINE CONTAINING THIS INFORMATION IS PRINTED"
7210 PRINT "ON STANDARD 8-1/2 INCH WIDE PAPER. PRINTER LINE NUMBERS ARE";
7220 PRINT " SHOWN FOR EACH ENTRY SO YOU KNOW WHERE YOU ARE ON THE PRINTED";
7230 PRINT " PAGE. WHEN YOU REQUEST TOTALS, EACH COLUMN HEADING WILL BE";
7240 PRINT "PRINTED WITH THE TOTAL FOR EACH COLUMN FOR THAT PAGE. YOU CAN";
7250 PRINT " THEN REQUEST ADDITIONAL PAGES. IF NOT, MONTHLY TOTALS WILL BE";
7260 PRINT " PRINTED. YOU THEN CAN DO ANOTHER MONTH, OR PRINT GRAND TOTALS";
7270 PRINT " OR EXIT THE PROGRAM.....
7280 PRINT :PRINT " THE FORMAT ALLOWS TOTALS TO"
7285 PRINTTAB(11)"$99,999,999.99"
7290 PRINT : PRINT " ** CRASH RECOVERY : TYPE.... GoTo600 ....AND RETURN"
7300 PRINT : INPUT "PRESS RETURN TO CONTINUE....."; A# : GOTO 300
10000 CSAVE "1" : OUT 255, 4 : FOR I = 1 TO 3000 : NEXT : CSAVE "1"

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5011 DATA110,101,115
7000 COLOUR1:FOR T=1TO1000:NEXT:CLS:PRINT@0,"
":PRINT@800,"
7001 COLOUR5:PRINT@90,"
7002 COLOUR4:PRINT@130,"
7003 COLOUR1:PRINT@170,"
7004 COLOUR4:PRINT@210,"
7005 COLOUR5:PRINT@250,"
7006 COLOUR5:PRINT@330,"
7007 COLOUR4:PRINT@370,"
7008 COLOUR1:PRINT@410,"
7009 COLOUR4:PRINT@450,"
7010 COLOUR5:PRINT@490,"
7011 GOSUB10000
7015 GOTO7025
7020 COLOUR1:PRINT@565,"Hi Score":COLOUR3:PRINT@605,"
":COLOUR1:PRINT@584,"Your Score":COLOUR3:PRINT@624,"
":COLOUR1:PRINT@615,"":NA$:COLOUR3:PRINT@655,"
7022 GOTO7030
7025 IFSC<HITHENGOTO7020
7027 IFSC>HITHENHI=SC:GOTO7100
7029 GOTO7020
7030 COLOUR1:PRINT@644,"":HI:PRINT@663,"":SC
7040 PRINT@721,"PLEASE PRESS (S) KEY TO START PROGRAM"
7041 COLOUR3:PRINT@761,"
7050 I$=INKEY$:IFI$=""THEN7050
7051 RESTORE:GOSUB0
7100 COLOUR3:PRINT@640,"
":COLOUR1:PRINT@600,"Enter Your Name":
INPUT$
7105 PRINT@600,"
"
7110 NA$=LEFT$(E$,7)
7120 GOTO7020
8000 CLS
8010 CLS:COLOUR1:PRINT@0,"
":PRINT@800,"
8020 COLOUR5:PRINT@86,"
8030 COLOUR4:PRINT@126,"
8040 COLOUR1:PRINT@166,"
8050 COLOUR4:PRINT@206,"
8060 COLOUR5:PRINT@246,"
8070 COLOUR5:PRINT@333,"
8080 COLOUR4:PRINT@373,"
8090 COLOUR1:PRINT@413,"
9000 COLOUR4:PRINT@453,"
9010 COLOUR5:PRINT@493,"
9020 GOSUB10000
9050 COLOUR1:PRINT@570,"Made By Murray Jones"
9055 COLOUR3
9060 PRINT@610,"
9070 COLOUR1:PRINT@681,"Please Press Any Key To Start Program":COLOUR3:PRINT@721,"
9080 I$=INKEY$:IFI$=""GOTO9080
9090 GOTO2
9999 GOTO9999
10000 TIME=TIME+1:IFTIME=4THENTIME=0:GOTO10010ELSEFORT=1TO30:PLAY(1,5,7,15):NEXT
:FORT=1TO30:PLAY(1,5,6,15):NEXT:FORT=1TO30:PLAY(1,5,5,15):NEXT:GOTO10000
10010 FORT=1TO30:PLAY(1,5,4,15):NEXT:FORT=1TO30:PLAY(1,5,3,15):NEXT:FORT=1TO60:PL
LAY(1,5,2,15):NEXT:FORT=1TO75:PLAY(1,5,3,15):NEXT:PLAY(1,5,0,0)
10020 TIME=0:RETURN

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5 'CRYSTAL PLATES
6 'ADAPTED FROM VZ200 FOR GENIE by Ron Hart 1983.
10 FCLS
20 FGR
35 RANDOM
40 X=20+RND(120):Y=20+RND(60):LT=RND(25)
42 I=1
50 FORX=XTOX+I
60 PLOTX,Y
70 NEXTX
80 FORY=YTOY+I
90 PLOTX,Y
100 NEXTY
110 I=I+1:IFI>LTTHEN40
120 FORX=XTOX-ISTEP-1
130 PLOTX,Y
140 NEXTX
150 FORY=YTOY-ISTEP-1
160 PLOTX,Y
170 NEXTY
180 I=I+1:IFI>LTTHEN40
185 FCOLOUR(RND(3)+1)
190 GOT050

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5 CLS:LGR:COLOUR15:PRINT"K'SCOPE 1 by Ron Hart...1985 ":PRINT:PRINT"Experiment w
ith lines 20 and 30 for different effects"
6 COLOUR7:PRINT:PRINT"PRESS ANY KEY TO GO"
7 CALL0049
10 CLS:FCLS:FGR:FCOLOUR4
20 FORK=40T00STEP-4
30 FORJ=1T040
40 I=K+J
50 FCOLOUR3:PLOTK,I:PLOTI,J:PLOTI,K:PLOTJ,I:PLOT80-K,I:PLOT80-I,K:PLOT80-I,J:PLO
T80-J,I:PLOT80+K,I:PLOT80+I,K:PLOT80+I,J:PLOT80+J,I
60 FCOLOUR(4):PLOTK,80-I:PLOT80-K,80-I:PLOTI,80-J:PLOT80-I,80-J:PLOTI,80-K:PL0T8
0-I,80-K:PLOTJ,80-I:PLOT80-J,80-I
70 FCOLOUR4:PLOT80+K,80-I:PLOT80+I,80-J:PLOT80+I,80-K:PLOT80+J,80-I
80 FCOLOUR3:PLOT159-K,I:PLOT159-I,K:PLOT159-I,J:PLOT159-J,I:FCOLOUR4:PLOT159-K,8
0-I:PLOT159-I,80-K:PLOT159-I,80-J:PLOT159-J,80-I
600 NEXTJ:NEXTK
800 GOT0800

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THE FLYING WALLOONS

TRANSLATED FROM THE TRS-80 PROGRAMME BY RUGG AND FELDMAN  
FOR COLOUR GENIE, BY KEITH MCGILL

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180 CLS:CHAR4
190 CLEAR 500:D=40:E=80
200 N$=CHR$(32):K$=CHR$(217):K1$=CHR$(211):K2$=CHR$(202)
210 B$=K1$+CHR$(128)+K2$+CHR$(129)+K1$:T$=K$+CHR$(170)+K$
220 C$=CHR$(130)+CHR$(146)+N$+CHR$(128)+CHR$(131)
230 L$=STRING$(3,180):M$=STRING$(3,217)
240 U$=STRING$(3,211):S$=N$+N$:A$=S$+CHR$(170):W$=L$+M$+U$
250 D$=S$+CHR$(170)+STRING$(15,N$)+W$
260 E$=B$+S$+S$+L$+T$+U$:Y$=S$+S$+N$:Y1$=STRING$(8,32)
270 Z$=CHR$(182)+CHR$(130)+K2$+CHR$(131)+CHR$(190)
280 F$=CHR$(130)+CHR$(162)+CHR$(180)+CHR$(209)+K$
290 F$=F$+K$+U$+S$+Z$:G$=STRING$(18,N$)+W$
320 J$=W$+S$+CHR$(182)+CHR$(130)+K2$+CHR$(170)
330 J$=J$+CHR$(190):H$=STRING$(9,N$)+L$+T$+U$
360 D1$=U$+M$+L$+STRING$(15,N$)+CHR$(170)
370 E1$=STRING$(9,N$)+U$+T$+L$+S$+S$+B$
380 F1$=STRING$(11,N$)+Z$+S$+U$+K$+K$
390 F1$=F1$+CHR$(209)+CHR$(180)+CHR$(172)+CHR$(131)
400 V1$=CHR$(211)+K$+CHR$(180)+CHR$(182)+CHR$(180)
410 V1$=V1$+CHR$(170):V2$=N$+CHR$(180)+K$+CHR$(128)
420 V2$=V2$+CHR$(209)+K2$+K1$+K1$
430 V3$=CHR$(135)+CHR$(190)+N$+CHR$(182)+CHR$(135)
440 V4$=N$+CHR$(128)+CHR$(170)+CHR$(151)
450 V5$=K1$+K1$+K2$+K1$+K1$
470 GOSUB 1300:GOSUB 1400:GOSUB 1800
500 CLS:L=682:GOSUB 900:GOSUB 1800:FOR H=680 TO 682:CLS
510 GOSUB 900:GOSUB 910:NEXT:CLS:GOSUB 920:GOSUB 1800
530 FOR H=146 TO 159:PRINT@H,K1$:NEXT:H=35:GOSUB 910
540 GOSUB 1800:GOSUB 1200:H=63:GOSUB 910
590 FOR J=1 TO 4
600 H=63:FOR K=1 TO 8:GOSUB 940:H=H+D:GOSUB 910
610 NEXT:H=362:CLS:GOSUB 930:GOSUB 910:FOR K=1 TO 8
620 GOSUB 940:H=H-D:GOSUB 910:NEXT:FOR K=1 TO 8:GOSUB 940
630 H=H+D:GOSUB 910:NEXT:H=383:CLS:GOSUB 920:GOSUB 910
640 FOR K=1 TO 8:GOSUB 940:H=H-D:GOSUB 910:NEXT:NEXT
700 FOR K=1 TO 3:GOSUB 940:H=H+1:GOSUB 910:NEXT
710 FOR K=1 TO 8:GOSUB 940:H=H+D:GOSUB 910:NEXT
720 GOSUB 940:H=L-23:GOSUB 950:GOSUB 970:H=H+41:GOSUB 960
800 GOSUB 1800:CLS
810 PRINT@292,"F I N I S":GOSUB 1800:CLS:END
900 PRINT@L,G$::PRINT@L+D,H$::PRINT@L+E,J$::RETURN
910 PRINT@H,A$::PRINT@H+D,B$::PRINT@H+E,C$::RETURN
920 PRINT@L,D$::PRINT@L+D,E$::PRINT@L+E,F$::RETURN
930 PRINT@L,D1$::PRINT@L+D,E1$::PRINT@L+E,F1$::RETURN
940 PRINT@H,Y$::PRINT@H+D,Y$::PRINT@H+E,Y$::RETURN
950 PRINT@H,V1$::PRINT@H+D,V2$::PRINT@H+E,K1$::RETURN
960 PRINT@H,V3$::PRINT@H+D,V4$::PRINT@H+E,V5$::RETURN
970 PRINT@H,Y1$::PRINT@H+D,Y1$::PRINT@H+E,Y1$::RETURN
1200 FOR H=36 TO 29 STEP-1:GOSUB 910:GOSUB 940:NEXT
1210 GOSUB 910:GOSUB 1800:FOR J=1 TO 3:GOSUB 940:H=H-1
1220 GOSUB 910:NEXT:GOSUB 1800:FOR J=1 TO 6:GOSUB 940:H=H+1
1230 GOSUB 910:NEXT:FOR K=1 TO 50:NEXT
1240 FOR J=1 TO 8:PRINT@H,S$+N$::FOR K=1 TO 50:NEXT
1250 PRINT@H,A$::FOR K=1 TO 50:NEXT:NEXT:GOSUB 1800
1260 FOR J=1 TO 8:GOSUB 940:H=H-1:GOSUB 910:NEXT:RETURN
1300 CLS:H=414:U$=CHR$(209)
1310 PRINT@H,"CG THEATRE":PRINT@H+E," PROUDLY"
1320 PRINT@H+E+E," PRESENTS"
1330 FOR J=250 TO 270:PRINT@J,U$:NEXT
1350 FOR J=250 TO 690 STEP D:PRINT@J,K2$::NEXT
1360 FOR J=270 TO 710 STEP D:PRINT@J,K2$::NEXT
1370 FOR J1=690 TO 710:PRINT@J1,U$::NEXT
1380 GOSUB 1800:FOR J=0 TO 13:PRINT@H+E+J,"Y"
1390 FOR K=1 TO 90:NEXT:NEXT:GOSUB 1800:RETURN
1400 M$="F L Y I N G":U$="W A L L N S":W$=STRING$(17,32)
1410 L$="T H E":CLS:FOR J=246 TO 208 STEP-2
1420 PRINT@J,W$:GOSUB 1700:PRINT@J,L$:NEXT
1430 FOR J=446 TO 412 STEP-2:PRINT@J,W$:GOSUB 1700:PRINT@J,M$
1440 NEXT:FOR J=639 TO 620 STEP-2:PRINT@J,W$:GOSUB 1700
1450 PRINT@J,U$:N$:NEXT:GOSUB 1800:FOR J=28 TO 628 STEP D
1460 PRINT@J,"0":GOSUB 1700:PRINT@J,N$:NEXT:PRINT@629,"0"
1470 FOR J=30 TO 630 STEP D:PRINT@J,"0":GOSUB 1700
1480 PRINT@J,N$:NEXT:PRINT@631,"0":RETURN
1700 FOR K=1 TO 12:NEXT:RETURN
1800 FOR I=1 TO 1400:NEXT:RETURN

```

# GROAN - A Dice Game.

```

100 CLS
110 CHAR4
120 CLEAR 250:RANDOM:DEFINT W
140 B#=CHR$(182):C#=CHR$(152):M#=CHR$(171)
150 F3#=B#+STRING$(25,181)+M#
160 D1#=B#+STRING$(7,181)+M#:D2#=B#+STRING$(7,32)+M#
170 D3#=B#+STRING$(7,180)+M#
190 F1#=B#+STRING$(25,180)+M#::F2#=B#+STRING$(25,180)+M#
200 CLS:PRINTTAB(16);"G R O A N"
205 PRINT:FRINT
210 PRINT"HOW MUCH NEEDED TO WIN"
220 INPUT"(BETWEEN 50-100 IS BEST) ";W:IF W<=0 THEN 200
230 PRINT:PRINT"LET'S TOSS FOR FIRST ROLL":GOSUB 830
240 PRINT:PRINT"THE COIN IS IN THE AIR AND"
250 Q#="YOU":Q=RND(2):IF Q=2 THEN Q#="I"
260 PRINTTAB(5);:FOR J=1 TO 5:PRINT"v ":GOSUB 830:NEXT
270 PRINTQ#;" GET THE FIRST ROLL":GOSUB 840:T=0:IF Q=2 THEN 400
300 P#=" YOU":CLS:PRINTTAB(15);"YOU'RE ROLLING":GOSUB 830:GOSUB 500
310 T=T+R1+R2:IF F>0 THEN T=0
320 IF F=2 THEN H=0
330 GOSUB 850:IF F>0 THEN PRINT"DICE PASS TO ME":GOSUB 840:GOTO 400
340 PRINT"(F=PASS DICE - R=ROLL AGAIN)":PRINT"YOUR DECISION (P OR R)?"
350 Q#=INKEY$:IF Q#="" THEN 350
360 IF Q#="R" THEN 300
370 IF Q#<>"P" THEN 350
380 PRINT:H=H+T:IF H>=W THEN 970
390 T=0:F=1:CLS:GOTO 330
400 T=0:P#="I"
410 CLS:PRINTTAB(16);"I'M ROLLING":GOSUB 830:GOSUB 500
420 T=T+R1+R2:IF F>0 THEN T=0
430 IF F=2 THEN P=0
440 GOSUB 850:IF F>0 THEN PRINT"DICE PASS TO YOU":GOSUB 840:T=0:GOTO 300
450 GOSUB 1000:IF X=1 THEN PRINT"I'LL ROLL AGAIN":GOSUB 840:GOTO 410
460 PRINT"I'LL STOP WITH THIS":GOSUB 830:P=P+T:IF P>=W THEN 970
470 PRINT:PRINT"DICE PASS TO YOU":T=0:GOSUB 840:GOTO 300
500 D=187:DL=5:R1=RND(6):R2=RND(6):FOR K=0 TO 20 STEP 10
530 C=D+K:GOSUB 650:C=C+240:GOSUB 650:GOSUB 600:CLS
535 GOSUB 660:C=C-240:GOSUB 660:GOSUB 600:CLS
540 NEXT:C=D+30:GOSUB 650:C=C+240:GOSUB 650
550 C=D+30:R=R1:GOSUB 700
560 C=C+240:R=R2:GOSUB 700:F=0:IF R1=1 THEN F=1:GOSUB 800
570 IF R2=1 THEN F=F+1:GOSUB 810
580 IF F=2 THEN GOSUB 820:GOSUB 830
590 RETURN
600 FOR J=1 TO DL:NEXT:RETURN
650 PRINT@C-127,D1#:PRINT@C-87,D2#:PRINT@C-47,D2#:PRINT@C-7,D2#:PRINT@C+33,D3#;:RET
660 REM URN
670 RETURN
700 ON R GOSUB 710,730,740,750,760,770:RETURN
710 PRINT@C-85,C#;:PRINT@C-81,C#;:PRINT@C-43,"a";:PRINT@C-5,CHR$(236);
720 FOR Q=2 TO 4:PRINT@C-Q,C#;:NEXT:PRINT@C-1,CHR$(237);:RETURN
730 PRINT@C-85,C#;:PRINT@C-1,C#;:RETURN
740 PRINT@C-43,CHR$(152);:GOSUB 730:RETURN
750 PRINT@C-81,C#;:PRINT@C-5,C#;:GOSUB 730:RETURN
760 GOSUB 740:GOSUB 750:RETURN
770 PRINT@C-41,CHR$(152);:PRINT@C-45,CHR$(152);:GOSUB 750:RETURN
800 PRINT@31,"GROAN";:RETURN
810 PRINT@511,"GROAN";:RETURN
820 PRINT@272,"-DESPAIR-";:RETURN
830 FOR K=1 TO 800:NEXT:RETURN
840 FOR K=1 TO 2000:NEXT:RETURN
850 PRINT@40,F3#;:G=80:GOSUB 960:PRINT@87,"SCOREBOARD"
860 PRINT@120,F3#;:G=160:GOSUB 960:PRINT@165,W;"POINTS TO WIN";
870 PRINT@200,F3#;:G=240:GOSUB 960
880 PRINT@241," POINTS SCORED YOU ME";:G=280

```

```

890 GOSUB 960:PRINT@286,"TOTAL";:PRINT@298,H;
900 PRINT@302,P;:PRINT@320,F3#;:G=360:GOSUB 960
910 PRINT@361,P#;" HAVE";T;"PTS "
920 PRINT@400,F2#;:PRINT@480,"";:RETURN
960 PRINT@G,B#;:PRINT@G+26,M#;:RETURN
970 T=0:CLS:GOSUB 850:IF P>=W THEN PRINT@480,"SKILL WINS AGAIN"
980 IF H>=W THEN PRINT@480,"YOU WIN - SHEER LUCK!"
990 END
1000 V=P+T:IF V>=W THEN 1100
1010 IF (W-H)<10 THEN 1110
1020 IF P>=H THEN L=T/25:GOTO 1050
1030 IF V<H THEN L=T/35:GOTO 1050
1040 L=T/30
1050 IF RND(0)>L THEN 1110
1100 X=0:RETURN
1110 X=1:RETURN

```

```

5 CLS
10 COLOUR15:PRINT"ROTATED SQUARE":PRINT:PRINT"EXPERIMENT BY DELETING LINES
230,280,330,380 SINGLY....OR ANY THREE AT ONCE"
14 PRINT" Adapted for Genie by Ron Hart Sept 85"
18 PRINT:PRINT"EXPERIMENT BY SWAPPING PLOT COMMAND TO X1,Y2 TO X2,Y1 IN SO
ME OR ALL OF THE FOUR PLOT LINES"
19 COLOUR10:PRINT:PRINT"PRESS ANY KEY":CALL0049
20 FCLS:FGR:FCOLOUR4
30 PI=3.1459
35 PLOT0,0T0159,0T0159,95T00,95T00,0
110 LETXC=80
120 LETYC=48
130 LETW=30
140 H=30
150 LETDT=PI/18
160 LETTH=0
170 FORN=1T036
180 LETX1=XC
190 LETY1=YC
210 LETX2=XC+INT(W*COS(TH))
220 LETY2=YC+INT(W*SIN(TH))
230 FCOLOUR3:PLOTX1,Y2TOX2,Y1
240 LETX1=X2
250 LETY1=Y2
260 LETX2=XC+W*COS(TH)-H*SIN(TH)
270 LETY2=YC+W*SIN(TH)+H*COS(TH)
280 PLOTX1,Y1TOX2,Y2
290 LETX1=X2:LETY1=Y2
310 LETX2=XC-H*SIN(TH)
320 LETY2=YC+H*COS(TH)
330 FCOLOUR4:PLOTX1,Y1TOX2,Y2
340 LETX1=X2
350 LETY1=Y2
360 LETX2=XC:LETY2=YC
380 FCOLOUR2:PLOTX1,Y1TOX2,Y2
390 LETTH=TH+DT
400 NEXTN
600 GOTO600
2800 PLOTX1,Y1TOX2,Y2

```

```

80 FCLS:FGR:FCOLOUR2
90 PI=3.14159
95 PLOT0,0T0159,0T0159,95T00,95T00,0
110 XC=80
120 YC=48
130 R=25
140 S1=R+5
150 S2=R+10
170 REM
190 REM
200 DT=2*PI/48
210 TH=0
220 X1=0
230 Y1=S1
250 FORN=1T050
260 LETTH=TH+DT
270 X2=S1*SIN(TH)
280 Y2=S1*COS(TH)
295 PLOTXC,YCTOXC+X1,YC+Y1
300 LETX1=X2:LETY1=Y2
320 NEXTN
330 DT=1.5*PI/120
340 TH=0
350 FORN=0T0180
360 FCOLOUR3
410 LETTH=N*DT
471 LETX1=S1*COS(TH)
472 LETX2=S2*2.2*COS(TH)
473 LETY1=S1*SIN(TH)
474 LETY2=S2*1.3*SIN(TH)
476 PLOTXC+X1,YC+Y1TOXC+X2,YC+Y2
485 NEXTN
1000 GOTO1000

```