

FRONT RUNNER

#### **CRISIS**

A ruthless race of aliens has taken possession of the Empire State Building. Your goal is to rescue the hostages.

## KANGARILLA

Your baby kangaroo has wandered to the top of a four-level maze, and you must rescue him.

#### REBOUND

Fire the moving ball into the colored goal in the center of your screen, but count the barriers you erect with each press of the joystick. They block or bounce your ball in the right direction — and lower your score as they accumulate.

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lower case. Many programs we publish contain lower case. Since, **STOMP, SoftSide's** debugging utility, ignores the case of characters, you may use capital letters if you so desire or if your Apple doesn't have lower case.

REM and DATA statements: STOMP, like Applesoft, ignores REM statements. You do not have to type the text of REMs. STOMP also ignores the space or spaces between the keyword DATA and the first data element. Type numbers and strings in DATA statements exactly as they appear in the published listing.

 Spaces between quotes: Applesoft is a bit eccentric about how it shows these. Just list the line after you type it, and compare it to the printed listing.

Also, be sure to use **STOMP** on your program, and get the free reprint if you don't have **STOMP**.



#### **ATARI<sup>®</sup>USERS**

 The line listings in this booklet are in standard 38-column format, with special conventions for representing unprintable characters:

You must type underlined characters, including blank spaces, in inverse video.

• When graphics or control characters are included in a string (between quotation marks), a nearby REM statement will make note of it; in such cases, graphics characters appear as the corresponding lower-case letters, and control characters appear as the corresponding unshifted key symbols. For example: The lower-case letter s represents a graphic cross, which you type by pressing the S key while holding down the CTRL key; the = sign represents CTRL-down-arrow, which you type by pressing and releasing the ESC key, then pressing the = key while holding down CTRL. For more information about entering control characters, refer to Appendix F and the back cover of your Atari Reference Manual.

There are two exceptions to our above convention: A clear-screen character (ESC SHIFT-CLEAR) appears in our listings as a right-hand brace, which looks like this: }. The other exception is that a shifted = sign appears as a broken, vertical line: |-

Occasionally, a program will demand that we vary from these conventions. In such a case, a nearby REM statement or the program's introductory article will clearly note the special instructions.

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# General Information

Side Magazine may differ in some details. variances from the following procedures. Also, back issues of Softaccompanying a program. They will instruct you if there are any lend itself to these procedures. Always read the specific instructions SoftSide Publications, Inc. Sometimes, a particular program does not These are the standard procedures for the programs published by



#### STOMP Tables

BASIC programs from the pages of SoftSide Selections. If you don't SWAT as SoftSide's standard debugging tool to help those wno type addressed, stamped envelope to: have **STOMP**, we'll send you a free reprint. Send a business-sized, self-Table. STOMP for the Atari appeared in Issue #45. STOMP supersedes At the conclusion of each SoftSide listing, we include a STOMP

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Be sure to tell us what kind of computer you have.



### **Line Listings**

reprint if you don't have STOMP. 40), your screen should display exactly what appears in the printed type LIST when your computer is displaying 40-column text (WIDTH listing. Be sure to use STOMP on your program, and get the free The line listings in this booklet appear in a 40-column format. If you



#### APPLE® USERS

simply type the lower-case characters as capitals. STOMP, SoftSide's exactly as they appear. If you have an Apple II without lower case, or an Apple II with a lower-case adapter, you may type these listings and they appear exactly as they should on your screen when you type LIST. Beginning with Issue #45, Applesoft listings in SoftSide Selecing programs result in the same STOMP Table. debugging utility, ignores the case of characters, so both ways of typt**ions** may have lower-case characters in them. If you have an Apple IIe The line listings in this booklet are in standard Applesoft® format,

Things to watch out for when typing are:

Lower-case characters: The Apple IIe and some Apple II's have

1340 6010 15





LINES

STOMP

LENGTH

10 - 70 75 - 167 170 - 235 237 - 315 320 - 460 470 - 720 721 - 911 912 - 950 951 - 966 968 - 988 989 - 997 998 - 1110 1120 - 1230 1240 - 1277 1278 - 1340

534 514 350 448 515 509 523 544 554 513 519 558 558





SoftSide Selections #46

17

7, TENS+6:? #6; ">":IF STRIG(0)=0 THEN 9 989 SOUND 0,115+TENS#15,10,8:POSITION

992 6010 989 991 IF STICK(0)=13 AND TENS(9 THEN POS ITION 7, TENS+6:? #6; " ": TENS=TENS+1 ITION 7, TENS+6:? #6; ":TENS=TENS-1

995 SOUND 0,115+WUNS#15,10,8:POSITION 11, WUNS+6:? #6; "(": IF STRIG(0)=0 THEN S=0 THEN WUNS=1:POSITION 10,6:? #6;" \*

998 6010 995 ITION 11, WUNS+6:? #6; ": WUNS=WUNS+1 997 IF STICK(0)=13 AND WUNS(9 THEN POS ITION 11, #UNS+6:? #6; ": #UNS=#UNS-1 NS>1) OR (TENS>O AND WUNS>O)) THEN POS

ROM to RAM, then redefine eight Transfer the character set from

PEEK(106)-5:6RAPHICS 17:CHROM=256#PEEK 1000 CHBAS=256# (PEEK(106)-4):POKE 106,

OSITION 1,8:PRINT #6; BY stephen kuehn

1007 POSITION 3, 15: PRINT #6; TRANSFERR ING":POSITION 2, 16:PRINT #6; "CHARACTER

OM+X):NEXT X 1010 POSITION 3, 17:? #6; "PLEASE WAIT."

1100 DATA 60,0,64,32,16,8,4,2,0 1110 DATA 15,0,2,4,8,16,32,64,0

1130 DATA 5,255,255,255,255,255,255,25

994 FOR T=1 TO 35:NEXT T:WUNS=0:IF TEN 990 IF STICK(0)=14 AND TENS>0 THEN POS

NT #6;CHR\$(125):60T0 20 999 NUM=TENS#10+WUNS:SOUND 0,0,0,0:PRI 996 IF STICK(0)=14 AND ((TENS=0 AND WI

characters.

\*2 SLASHES, YOU WILL\*

INT #6; "POINTS. IF YOU USE":PRINT #6; 1250 PRINT #6; "YOU WILL RECEIVE 15":PR

USE DNLY 1 SLASH, "

NT #6; "AND SO ON, SO THAT": PRINT #6; "I

1260 PRINT #6; "RECEIVE 14 POINTS, ":PRI

1005 POSITION 6,5:PRINT #6; "rebound":P

1020 POKE 756, CHBAS/256 :FOR X=0 TO 1023:POKE CHBAS+X,PEEK(CHR

READ Z:POKE CHBAS+P18+Y, Z:NEXT Y:NEXT 1030 FOR X=1 TO 8:READ P:FOR Y=0 TO 7:

1120 DATA 10,60,126,255,255,255,255,12

1140 DATA 59,127,255,255,255,255,2

1150 DATA 61,254,255,255,255,255,255,2 Display the instructions. 1170 DATA 9,0,64,32,16,8,4,2,0 1160 DATA 8,0,2,4,8,16,32,64,0

NT #6; "THAT ROUND. IF YOU":PRINT #6;" 1240 PRINT #6; "POSSIBLE SCORE FOR":PRI PRINT #6; "AS POSSIBLE. YOU":PRINT #6; T #6; "BOUND IS TO HIT THE":PRINT #6; "T INT #6;"TRA SLASH AFTER THE":PRINT #6; 1230 PRINT #6; "SLASH, AND EACH EX-":PR "I ISEAT TEAST I IST DECREASES YOUR" 1220 PRINT #6; "USING AS FEW SLASHES";: ARGET WITH THE BALL"; 1210 PRINT #6; "THE OBJECT OF RE-":PRIN RINT #6; "rebound": PRINT #6 1200 PRINT #6;CHR\$(125):POSITION 6,0:P

F YOU USE MORE THAN"; 1275 IF STRIG(0)<>O AND STRIG(1)<>O TH 1273 ? #6:? #6;" PRESS TRIGGER."; PRINT #6; "RECEIVE NO POINTS." 1270 PRINT #6; "15 SLASHES, YOU WILL";;

I THE TARGET. A. NT #6; "AMOUNT OF TIME TO": PRINT #6; "HI NEXT T:POSITION 0,0 1278 PRINT #6; "FAST HIGH BEEP WARNS";: 1277 PRINT #6; "YOU HAVE A LIMITED":PRI 1276 PRINT #6;CHR\$(125):FDR T=1 TO 50:

NT #6; "PUSHING THE JOYSTICK"; :PRINT #6 6; "LEFT PUTS A / IN" 1290 PRINT #6; "FRONT OF THE BALL.":PRI PRINT #6; "YOU WHEN YOUR TIME": PRINT #6 INT #6; "PUSHING THE JOYSTICK"; :PRINT # "RIGHT PUTS A \ IN" 1280 PRINT #6; "THE TRIGGER SERVES. ":PR ; "IS ALMOST UP. ": PRINT #6

TO":PRINT #6; "BEGIN." 1310 PRINT #6:PRINT #6; PRESS TRIGGER 1300 PRINT #6; FRONT OF THE BALL.

903 POSITION 4,0:PRINT #6; "TIME'S UP"; 900 POSITION OXP, DYP:? #6; ":SOUND 0, 911 SC2=SC2+25:POSITION 3,0:? #6; PLAY 910 IF PL=2 THEN 914 #6;A\$(N1,9) :FOR T=1 TO 400:NEXT T:POSITION 4,0:? ER 2 GETS";:FOR T=1 TO 300:NEXT T:POSI

914 SC1=SC1+25:POSITION 3,0:? #6; PLAY ER 1 BETS";:FOR T=1 TO 300:NEXT T:POSI 912 6010 915 ? #6;A\$(N1,15) ";:FOR T=1 TO 300:NEXT T:POSITION 2,0: 915 POSITION 2,0:? #6;"25 BONUS POINTS TION 3,0:? #6;A\$(N1,13)

TION 3,0:? #6;A\$(N1,13)

RINT #6; "FINAL SCORE:" Game over. 920 ? #6;CHR\$(125):PRINT #6:PRINT #6:P 925 PRINT #6:PRINT #6; "PLAYER 1 - "; SC

927 PRINT #6; "PLAYER 2 - ";SC2 ER TO":PRINT #6; "PLAY AGAIN" 930 POSITION 0,15:PRINT #6; PUSH TRIGG 935 IF STRIG(0)<>0 AND STRIG(1)<>0 THE

available. Determine the number of joysticks 940 PRINT #6; CHR\$ (125): FOR T=1 TO 50:N EXT 1:60T0 15

950 DIM ST(2):ST(1)=0:PRINT #6;CHR\$(12 5):POSITION 0,0:PRINT #6; "ARE BOTH PLA 952 POSITION 8,4:? #6; YES":POSITION 951 ? #6; "ING THE SAME JOY-STICK?":

N 8,4+ST(2):PRINT #6;">":IF STRIG(0)=0 953 SOUND 0,121#(ST(2)+1),10,8:POSITIO 956 IF STICK(0)=14 AND ST(2)=1 THEN ST 954 IF STICK(0)=13 AND ST(2)=0 THEN ST (2)=1:60T0 952 THEN SOUND 0,0,0,0:60T0 960 (2)=0:6010 952

960 FOR T=1 TO 35:NEXT T:PRINT #6;CHR\$ 962 PRINT #6; \*SKILL PLAYER 1\*:FOR X=1 TO 10:POSITION 5, X+5:PRINT #6; X:NEXT X (125):POSITION 0,0

968 IF STICK(0)=13 AND SKI(10 THEN POS TION 4, SK1+5:PRINT #6; " ":SK1=SK1-1:60 ITION 4,5K1+5:PRINT \$6;" ":5K1=5K1+1:6

Get player 2's skill level. 970 6010 964 980 FOR T=1 TO 35:NEXT T:PRINT #6;CHR\$

917 POP : ON PL GOTO 60,80

981 PRINT #6; "SKILL PLAYER 2":FOR X=1 TO 10:POSITION 15, X+5:PRINT #6; X:NEXT (125):POSITION 0,0

984 IF STICK(ST(2))=13 AND SK2<10 THEN POSITION 14,5K2+5:PRINT #6; \* \*:5K2=5K2

Get the number of rounds to play. :? #6;X; ";X:NEXT X:TENS=0 988 ? #6; "HOW MANY ROUNDS DO YOU WANT TO PLAY?":FOR X=0 TO 9:POSITION 8, X+6

Get player 1's skill level. 964 SOUND 0,100+5K1115,10,8:POSITION 4 966 IF STICK(0)=14 AND SK1>1 THEN POSI , SK1+5:PRINT #6;">":IF STRIG(0)=0 THEN OTO 964 4, SK2+5:PRINT #6;">":IF STRIG(ST(2))=0 982 SOUND 0,100+5K2115,10,8:POSITION 1 983 IF STICK(ST(2))=14 AND SK2>1 THEN 987 FOR T=1 TO 35:NEXT T:? #6;CHR\$(125 POSITION 14, SK2+5:PRINT #6; ":SK2=SK

8,5:? #6;" NO"

Routine to figure the new ball posi-

Erase the ball, and turn off the 300 DXP=XP:DYP=YP:60TO 305 250 IF EN=1 THEN EN=0:60TO 302

up, and start the time warning beep 302 SOUND 0,0,0,0:POSITION OXP, OYP:PRI Increment TT, check whether time is

If necessary.

tion is on the play field. Check whether the ball's next posi-305 TT=TT+1:IF TT>AT THEN 900 306 IF AT-TT(100 THEN SOUND 0,29,10,8

O AND XT<19 AND YT>O AND YT<23 THEN 32 307 XT=XP+XC(DIR):YT=YP+YC(DIR):IF XT)

313 DIR=DIR+2:1F DIR>4 THEN DIR=DIR-4 play field, so reverse its direction. The ball's next position was off the

If the ball hit a target, go to the appropriate routine. 315 SOUND 0,243,10,8:50TO 300

320 LOCATE XT, YT, Z:IF Z=251 OR Z=253 T

340 IF Z=32 THEN XP=XT:YP=YT:60T0 450 350 SOUND 0,121,10,8:XP=XP+XC(DIR):YP= go to the routine that plots the ball. If the ball's next position is empty,

Figure the new direction of the ball after it hits a barrier

R DIR=3)) THEN TDIR=DIR-1 365 IF TDIR=0 THEN TDIR=4 360 IF ((Z=47 OR Z=40) AND (DIR=2 OR D IR=4)) OR ((Z=92 OR Z=41) AND (DIR=1 O

R DIR=4)) THEN TDIR=DIR+1 370 IF ((2=47 OR Z=40) AND (DIR=1 OR D IR=3)) OR ((Z=92 OR Z=41) AND (DIR=2 O

If the new direction would put the 375 IF TOIR=5 THEN TDIR=1

ball off the play field, then don't use T<1 OR XT>18 OR YT<1 OR YT>22 THEN 450 390 XT=XP+XC(TDIR):YT=YP+YC(TDIR):IF X

> Use the new direction, then go back 400 DIR=TDIR: IF TS=1 THEN TS=0:6010 30 to read the joystick.

402 EN=1:6DTO 200

460 POSITION XP, YP:PRINT #6;CHR\$(10) 470 GDTO 200 450 SOUND 0,0,0,0:POSITION OXP, DYP:PRI location, then display the new ball. Clear the sound and the ball's old

Clear the sound and the ball's old Routine to handle the ball hitting the target.

251);CHR\$(253) NT #6;" ":POSITION 9,11:PRINT #6;CHR\*( 700 SOUND 0,0,0,0:POSITION DXP,OYP:PRI

Sound for a lucky serve.

T=1 TO 15:NEXT T:SOUND 0,0,0,0:FOR T=1 702 FOR X=1 TO 8:SOUND 0,255,10,8:FOR 701 IF DS>0 THEN 703 TO 15:NEXT T:NEXT X:60TO 705

Sound for the ball hitting the target. T X:SDUND 0,0,0,0:60T0 720 703 FOR X=50 TO 250 STEP 25:FOR Y=0 TO 48 STEP 3:SOUND 0, X-Y, 10, 8:NEXT Y:NEX

RINT #6; A\$(N1, 11) ":FOR T=1 TO 400:NEXT T:POSITION 4,0:P 712 IF STRIG(ST(PL))<>0 THEN 712 710 POSITION 4,0:PRINT #6; "SERVE AGAIN RINT #6; A\$ (N1, 11) ":FOR T=1 TO 400:NEXT T:POSITION 4,0:P 705 POSITION 4,0:PRINT #6; "LUCKY SERVE wait for the serve. Tell the player to serve again, then

:PRINT #6; "%":POSITION X, Y:PRINT #6; CH Highlight the slashes most recently 725 FOR S=15 TO 0 STEP -1:POSITION X, Y LOCATE X, Y, ZZ: IF SL (Z, 3) <>1 THEN 745 721 FOR Z=1 TO DS:X=SL(Z,1):Y=SL(Z,2): 720 IF DS>50 THEN DS=50 placed, and figure the score.

R\$(ZZ):SOUND 0,60,8,5:NEXT 5

If you don't wish to type this program, it is available on issue #46 SoftSide CV TO COLD 1000 Branch vectors. 15 CLR :60TO 950 30 DIM SL(50,3), XC(4), YC(4): XC(1)=0: XC 25 DIM A\$(20):A\$=CHR\$(165):A\$(20)=A\$:A 20 SC1=0:SC2=0 Set up values. 0: YC(3)=1:YC(4)=0:RN=1 \$(2)=A\$: N1=1 Set up values, set colors, and do various routines for player 1. 0:DS=0:STR=0:60SUB 200:IF DS=0 THEN 50 45 605UB 190:PL=1:605UB 150 COLOR 1,0,10:SETCOLOR 2,7,0:SETCOLOR 3 40 AT=1750-15015K1:SETCOLOR 0,15,8:SET (2)=1:XC(3)=0:XC(4)=-1:YC(1)=-1:YC(2)=SS SS SS 50 DIR=1:YP=22:XP=INT(181RND(0))+1:TT= 55 Author: Stephen C. Kuehne SS 55 SC1=SC1+STR SS SoftSide Publications, Inc SS 33 Set up values, set colors, and do 60 AT=1750-1501SK2:SETCOLOR 0,15,8:SET various routines for player 2. 0:DS=0:STR=0:60SUB 200:IF DS=0 THEN 70 65 GDSUB 190:PL=2:GOSUB 150 COLOR 1,0,10:SETCOLOR 2,12,0:SETCOLOR 70 DIR=1:YP=22:XP=INT(18#RND(0))+1:TT= 80 POKE 77,0: IF RN=NUM THEN 920 game is over, and return to player 1. Prevent the attract mode, see if the 75 SC2=SC2+STR 85 POSITION 2,0:? #6; "END OF ROUND ";R N:FOR T=1 TO 500:NEXT T:POSITION 2,0:? S 58 58 58 58 58 58 58 58 58 58 33 Copyright © 1983 55 55 55 55 55 55 55 Atari BASIC 'Kebound' 90 RN=RN+1:60T0 40 player to serve, then wait for the Routine to display scores, tell the 155 POSITION 1,0:PRINT #6; PLAYER 2 SC ON 1,0:PRINT #6;A\$(N1,18) GRE=";SC1:FOR T=1 TO 400:NEXT T:POSITI ON 1,0:PRINT #6;A\$(N1,18) 150 POSITION 1,0:PRINT #6; \*PLAYER 1 SC 4,0:PRINT #6,A\$(N1,11) ORE=";SC2:FOR T=1 TO 400:NEXT T:POSITI 6;A\$(N1,5) 165 POSITION 7,0:PRINT #6; "SERVE":FOR 160 POSITION 4,0:PRINT #6;"PLAYER ";PL T=1 TO 400:NEXT T:POSITION 7,0:PRINT # ;" UP":FOR T=1 TO 400:NEXT T:POSITION 167 IF STRIG(ST(PL))(>0 THEN 167 NI, NI):NEXT X 6;A\$(N1,N1):POSITION 19,X:PRINT #6;A\$( 190 POSITION O, O:PRINT #6;A\$ Routine to draw the border and 170 RETURN 194 POSITION 0,23:PRINT #6;A\$; 192 FOR X=1 TO 22:POSITION O,X:PRINT # sure it's OK to do so. If so, plot and player wants to place a slash, make 表 (253) 196 POSITION 9,11:PRINT #6;CHR\$(251);C Routine to read the joystick. If the 198 RETURN 210 IF P>11 THEN 250 200 TS=0:P=STICK(ST(PL)) 220 XT=XP+XC(DIR):YT=YP+YC(DIR) record the barrier. 237 DS=DS+1:TS=1:PRINT #6;"/":IF DS<51 235 IF Z<>32 OR P<9 THEN 240 230 LOCATE XT, YT, Z: POSITION XT, YT 225 IF XT(1 OR XT)18 OR YT(1 OR YT)22 238 6010 250 242 DS=DS+1:TS=1:PRINT #6;"\":IF DS<51 240 IF I()32 THEN 250 THEN SL(DS, 1)=XT:SL(DS, 2)=YT:SL(DS, 3) THEN SL (DS, 1)=XT:SL (DS, 2)=YT:SL (DS, 3)

#6; A\$ (N1, 16);

AT by one for each movement of AT: Allowed time in which to finish a round. TT counts up to A\$: Used to hold graphics.

end of the ROM character set. CHROM: This times 256 is the low end of the transferred character DIR: Current direction of the ball. DS: The number of barriers placed CHBAS: This times 256 is the low

determining whether to skip line serve happened. EN: Controls program flow by

the end of a round, then a lucky

in the current round. If DS = 0 at

x-coordinate of the ball's previous screen position, used in erasing the OXP: Old x position. The NUM: The actual number of rounds to play. N1: The constant 1.

P: Miscellaneous. OYP: Old y position.

PL: Which player is currently play-

S: Miscellaneous. RN: The current round number.

SC1: Player 1's score.

SK1: Player 1's skill level. SC2: Player 2's score.

SK2: Player 2's skill level.

and SL(\*,3) stores the type of bar-SL(\*,2) stores the y-coordinate, SL(\*,1) stores the x-coordinate, SL(\*,\*): Stores up to the first 50 barriers placed in each round.

completed round. score earned in the most recently STR: Score this round. Holds the ST(\*): Stores the joystick port numbers for the two players.

TT: Total time used each round. If player cannot place a barrier when to 0 when the ball moves. The TS equals I when a barrier is placed and set only once for every two Since a player can place a barrier movements of the ball, TS is set to digit of the number of rounds to TS: Temporary slash (barrier). a barrier is hit. possible new direction of ball after T: Used for time delays. TENS: Used in getting the 10's TDIR: Temporary direction. Holds

X: Miscellaneous.

digit of the number of rounds to WUNS: Used in getting the 1's too much time has gone by. TT reaches the value of AT, then

ball's x-coordinate for each of the XC(\*): Holds the change in the our directions.

x-coordinate. XP: Holds the ball's current

might go. next location to which the ball XT: Holds the x-coordinate of the

ball's y-coordinate for each of the YC(\*): Holds the change in the Y: Miscellaneous. four directions.

YP: Holds the ball's current

might go. next position to which the ball YT: Holds the y-coordinate of the y-coordinate.

of-round routine. location on screen during the end-ZZ: Holds the ATASCII value of Z: Miscellaneous.



Rebound is a two-player, abstract, arcade-style game for an Atari® with 16K RAM (24K with disk) and one or two joysticks.

Your joystick controls everything in *Rebound* — no need for the keyboard. If you have one joystick, plug it into port one; plug a second stick into port two. Use the joystick button to move past the instructions after you've read them. Then, move the stick up and down to select your responses to the set-up questions (one or two joysticks, skill levels, number of rounds to play). The button tells the Atari that you've made your choice.

the object of Rebound is to direct the moving ball into the colored goal at The object of Rebound is to direct the moving ball into the colored goal at the center of the screen by placing diagonal barriers in the ball's path. You the center of the screen by placing the joystick button after the word "Serve" start play in each round by pressing the joystick button after the word "Serve" start play in each round by pressing the joystick button after the word "Serve" start play in each round by pressing the joystick button after the word "Serve" start play in each round by pressing the joystick button after the word "Serve" start play in each round points, appears at the top of the screen. When you move the barriers, your construct more than fifteen barriers, you can't receive any points, stick. If you use all your time, your opponent gets 25 bonus points. The amount and if you use all your time, your opponent gets 25 bonus points. The amount of time you have depends on your skill level. A beeper warns when your time is of time you have depends on your skill level. A beeper warns when your time is almost up. If the ball goes into the goal and you've placed no barriers, it's a

lucky serve, and you have to go again.

The game gets more complex as play progresses, because the barriers stay on the screen. Don't get too frustrated when you can't get the ball to go where you want — it's only a game.

BOO PRESET (X-12,L+A): DRAW "C3"+SHAPE\$( 790 LINE (X-4, Y)-(X+3, Y+9), 0, BF: DRAW "A 780 IF D(T)=2 THEN IT=3: A=6 ELSE IT=1: The kangaroo falls over. 760 PUT (M, L+6), BALLY 740 SOUND 300,.1 770 RETURN 750 GBSUE 1040 kangaroo and the ball from the Make a sound, then clear the

Subroutine for moving the ball. 830 PUT (M,L+6), BALLZ 320 6010 700

810 FOR P=1 TO 750: NEXT: PRESET (X-12,L

+A): DRAW SHAPE\$(II)+"AO"

850 PUT (M,L+6), BALLY 840 M=M+SP: IF M>275 THEN M=5 860 KETURN

900 GOSUB 1040 890 1=X: FOR X=1 TO 11 STEP -1 880 LOCATE 7,1: PRINT "Mom!" 870 G0SUB 750 The kangaroo reaches her baby.

Set higher ball speed. If six boards 940 LOCATE 4, 2: PRINT CHR\$(3) 930 GDSUB 1040

920 605UB 1040: NEXT

910 FDR P=1 TO 30; NEXT

950 SP=SP+1: IF SP=7 THEN LOCATE 21,1: are completed, the game is won.

RINT "You wan!": 50TO 1020 960 FOR P=1 TO 1000: NEXT

970 PRESET (1,39): DRAW BABY:

990 LOCATE 4,2: PRINT "?" 980 LOCATE 7,4: PRINT "?"

Baby kangaroo floats away. 1000 FOR I=38 TO 0 STEP -1: PSET (1,1):

DRAW BABY:: FOR P=1 TO 30: NEXT: PRESET

1010 FOR P=1 TO 1200: NEXT: LINE (0,0)-( Start the next board. 319,135),0,BF: 6010 260 (1,1): DRAW BABYS: NEXT I

Check if the player wants another 1020 PRINT: PRINT "Would you like to pla

y again? (Y/N)": LINE (288,176)-(295,183

1080 PUT (XX,Y),KANG4X: RETURN 1060 PUT (XX,Y), KANGZX: RETURN AS=FNUPS(AS): IF AS="Y" THEN RUN ELSE IF 1030 A\$=INKEY\$: IF A\$="" THEN 1030 ELSE 1050 PUT (XX, Y), KANGIZ: RETURN 1040 XX=X-4: DN IT SOTD 1050,1060,1070,1 1070 PUT (XX, Y), KANG3X: RETURN Kangaroo plotting routine. As="N" THEN CLS: END ELSE 1030



For IBM® PC KANGARILLA

_	100 -	83	36	420	540	999	780	900	1020
LINES	ï	ı	ĭ	ı	ī	ï	ī	1	ī
ES	170	290	410	530	650	770	890	1010	1080
STOMP CODE	WA	声	2	뛲	~	3	먇	동	_
LENGTH	511	499	251	294	357	157	232	227	227



and "bounce formula." kangaroo's coordinates, level, shape Clear the keyboard. Initialize the 60: Y=120: L=125: IT=1: 6=0 370 IF ABS(6)<>6 THEN IT=IT+1 330 M=9: PUT (M,L+6), BALLZ 360 IF T()1 THEN IT=T+1 ELSE IT=IT-((IT+ kangaroo. direction and height of the Set shape number according to the 350 G=6+.5: X=X+D(T): Y=Y+6 Bounce formula. 340 80508 550 Read kangaroo's movement. Beginning of main program loop. Initialize ball coordinates. leave the side of the screen.
390 IF X>272 OR X:12 THEN EDSUB 1040: X= ceiling. If so, the kangaroo falls. Check if the kangaroo's head hit the HEN GOSUB 740: GDTO 780 420 IF L+5(Y+9 AND L+5)Y AND M-(D(INT(IT 400 IF Y=L THEN 6=-3: 50TD 450 Check if the kangaroo's feet are on Make sure the kangaroo doesn't 380 BOSUB 1040 470 Z=X+D(T)-1: IF Q(135 AND T=2 AND POI the baby. Check if the kangaroo has rescued 440 GDSUB 1040: GDTD 340 the beginning of the main loop. )=3 THEN 620 430 Q=L+10: IF INT(Y)=L+11 AND POINT(X, Q kangaroo. If so, the kangaroo trips. Check if the ball is hitting the 410 BDSUB 830 Move the ball. the ground. If so, set up a new X-D(T): 605UB 1040 490 IF Q<135 AND POINT(Z,0)=0 AND FL=0 T 480 IF D<135 AND T=2 AND POINT(X+3,0)=0 NT(X+5, Q)=0 THEN Z=X+5 460 IF I=1 THEN I=0 Check if the kangaroo will fall 450 IF L<50 AND X<40 THEN 870 Erase the kangaroo and go back to /3))+2)-7<X AND M-(D([NT([T/3])+2)+2>X T through a hole. C+X=Z H3H1 DEF SEG=0: POKE 1050, PEEK (1052): X=2 520 GOSUB 590 Check for a jump. ), BALLY: RETURN the kangaroo. 530 GOTO 410 LX 3N 089 660 FDR P=1 TD 20: NEXT 640 FOR I=Y+5 TO L+FD RAW "A3": FD=38 on the ceiling. =0: RETURN 580 HT-T: RETURN kangaroos remain.

HEN 6-1.5: E--36: 808UB 540: 8070 410 URN ELSE A\*=INKEY\*: IF A\*="" THEN T=HT: kangaroo is falling through a hole. Produce bouncing sound unless the 570 IF K=52 OR K2=75 THEN T=0 ELSE IF K= C(A\$): K2=0 ELSE K=0: K2=ASC(MID\$(A\$,2)) 550 IF LEW(A\$)=1 THEN A\$=FNUP\$(A\$): K=AS 550 JF MD=2 THEN T=INT(STICK(0)/90): RET Read direction from keyboard or 540 PUT (M,L+6), BALLX: L=L-E: PUT (M,L+6 Place the ball on the same level as Go back to the main loop. 500 IF FL=0 THEN SOUND 700,.1 600 IF NOT STRIG(1) AND NOT STRIG(5) THE N IF K=32 OR K2=72 THEN 610 ELSE RETURN 54 OR K2=77 THEN T=2 ELSE T=1 610 B=-6: E=30: BUSUB 540: FL=1: K=0: K2 Joystick control. 730 6010 320 630 IF IT=4 THEN DRAW "A1": FD=36 ELSE Kangaroo falls after hitting her head Check for jump, keyboard or 720 PRESET (220+10\*U,140): DRAW SHAPE\$() 670 PRESET (X, I): DRAW SHAPE\$(IT) 650 PSET (X,I): DRAW SHAPE\$(IT) dicator that shows how many 700 U=U+1: IF U=3 THEN LOCATE 21,1: PRIN times. If so the game ends. Check if the kangaroo was hit three T "Game Over.": 60TO 1020 Subtract one kangaroo from the in-

## **Variables**

FL: A flag that determines whether to make sound. of movement. position, according to the direction D(\*): The kangaroo's change in BALL%: Graphics array for ball. A\$: General input string.

G: The number to add to the kangaroo's y-coordinate.

IT: The shape number of the kangaroo.

K,K2: ASCII values of input. KANG1% — KANG4%: Graphics arrays for kangaroo. L: The y-coordinate of the level.

SHAPE\$(\*): Kangaroo shapes kangaroo. X, Y: Coordinates of the U: Number of kangaroos used. on the direction of movement. T: Contains 0, 1, or 2, depending speed of ball SP: Board number — controls Q: Level number. P: Pause loop variable. keyboard, 2 for joystick. MO: Mode of operation — 1 for M: The ball's horizontal coor-

SS SoftSide Publications, Inc SS SS Translator: Kerry Shetline SS Author: Oscar C. Bascara SS Capyright © 1983 PC Advanced BASIC 'Kangarilla' 88 88 88

# If you don't wish to type this program, it is available on issue #46 SoftSide DV.

Initialization.

100 KEY OFF: SCREEN 1,0: CLS

X)=INT(RND(1)\*X): DEF FNUP\$(X\$)=CHR\$(ASC ANG3%(11), KANG4%(12), SHAPE\$(4): DEF FNR( 110 DIM BALLX(5), KANG1X(11), KANG2X(12), K (X\$)+32\*(ASC(X\$)>96))

120 FOR X=1 TO 4: READ SHAPE\$(X): PRESET (X\*20,0): DRAW "C3"+SHAPE\$(X): NEXT

1 L1 BL2 L1 61 R4 61 L3 D1 R2 BD1 BL2 L1 130 DATA "B1 L1 G1 R2 D1 L1 G1 R2 BR3 BD

3 BD1 R1 BR2 R1 F1 L4 F1 R3 D1 L2 BD1 BR 150 DATA "BLZ F1 R1 F1 L2 D1 R1 F1 L2 BL 1 L1 BL2 L1 61 R4 61 L3 D1 R2 F1 61\* 140 DATA "G1 L1 G1 R2 D1 L1 G1 R2 BR3 BD

3 BD1 R1 BR2 R1 F1 L4 F1 R3 D1 L2 61 F1" 160 DATA "BL2 F1 R1 F1 L2 D1 R1 F1 L2 BL 170 PSET (10,0): DRAW "RI FI L3 DI R3 BI

> 23,9),KANGIZ: GET (36,0)-(43,10),KANG2Z: 190 GET (9,0)-(12,3), BALLY: GET (16,0)-( 180 BABY#="F1 R1 F1 L2 D1 R1 D1 L1 D1 R2 3,101,KAN64%: CLS SET (56,0)-(63,9), KANS3%: SET (76,0)-(8

200 RANDOMIZE VAL (MID\$(TIME\$, 3, 2))\*100+V

=FNUP\$(A\$): IF A\$="J" THEN MO=2: STRIG O d? (J/K)\*: LINE (224,48)-(231,55),, BF N ELSE IF A\$="K" THEN MO=1 ELSE 220 220 As=INKEYS: IF As="" THEN 220 ELSE AS 210 LOCATE 7: PRINT "Joystick or Keyboar

a randomly located hole in each Plot levels on the screen and place 240 SP=1: D(0)=-2: D(1)=0: D(2)=2

260 FOR I=135 TO 45 STEP -30: LINE (0,1) O): DRAW SHAPE\$(1): NEXT

290 LIME (H, I)-(H+15, I), 0 EW 280 PDINT(H+15, I+30)=0 DR (I=45 AND H<30) 280 H=FNR (200)+4: IF POINT(H, 1+30)=0 DR

310 PSET (1,39): DRAW BABY\$: PUT (SP\*5+5 Draw the baby kangaroo. Draw a ball at the bottom of the screen to , 145), BALL X indicate board number.

270 IF I=135 THEN 300 250 FOR I=230 TO 240 STEP 10: PSET (I,14 Prompt user for control mode. AL (RIGHT\$(TIME\$, 2))



# KANGARILLA

by Oscar Bascara Translation by Kerry Shetline

Kangarilla is an arcade-style game for an IBM® PC with disk drive, 64K RAM and color graphics adapter. A joystick controller is optional.

In Kangarilla, you control a distraught mother kangaroo whose baby is stranded at the top of the four-level maze. To reach the upper levels, you must make the kangaroo leap through holes in the ceiling.

The program asks whether you wish to use the keyboard or a joystick. If you choose joystick control, move the joystick to control her direction, and use either button to make her jump. Be sure to press the button when the kangaroo's foot is on the ground. On the keyboard, use the cursor keypad: left-arrow for left, down-arrow to stop, right-arrow for right, and up-arrow to jump.

When you make the kangaroo leap, be careful not to make her bump into the ceiling, and watch out for the rolling ball that tries to trip her up. If she hits the ceiling or ball, the round is over, and you move to your next kangaroo.

If the kangaroo reaches her baby, the baby is suddenly transported away, but if you succeed six times, mother and baby live happily ever after. You will need good timing and a bit of strategy to accomplish this. Are you up to the Kangarilla challenge?

1230 DATA 6,9,7,6,7,4,8,2,9,5,10
,8,10,10,11,13,11,15,12,18
1240 DATA 13,21,13,23,14,26,14,2
8,15,30,16,33,17,35,18,32,19

1250 DATA 20,26,21,23,27,20,23,1
7,24,14,25,11,26,8,27,6
1260 DATA 27,5,28,2,29,4,30,7,31
,10,32,13,33,16,34,19,35,22

1270 DATA 36,25,35,26,34,27,33,2 8,32,29,31,30,30,31,29,32 1280 DATA 28,33,27,34,26,35,25,3 2,24,29,23,26,22,23,21,20

1290 DATA 20,17,19,14,18,11,17,8

,16,5,15,2,14,5,13,8,12,11

1340 DATA 192,136,208,4,198,1,24 1330 1320 1310 1300 DATA 11,14,10,17,9,20,8,23, 1360 DATA 1.2,200,204,206,49152, 1350 DATA 239,165,3,133,1,198,2, 7,22,0,2,39,1 208,241,96 0,7,202,208,246,166,0,208 DATA 201,84,206,15,32,177,0 170, 160, 1, 132, 2, 173, 48 DATA 0,201,44,240,3,76,201, 7,26,6,29,5,32,4,35,3,32 DATA 104, 134, 3, 134, 1, 133, 0, 222, 32, 177, 0, 32, 248, 230 ,32,248,230,138,72,32,183



							1
	700-	580-	450-	340-	220-	100-	LINES
	910	690	570	450	330	210	S
	38	Z	æ	7	₩	H	STOMP
	282	209	207	163	197	287	LENGTH
							-  _
[][][][][][][][][][][][][][][][][][][]		1290-	-0811	1060-	940-	820-	LINES
		1360	1280	1170	1050	930	
		¥	Z	둪	<del>-</del>	S	STOMP
		368	529	467	270	454	LENGTH

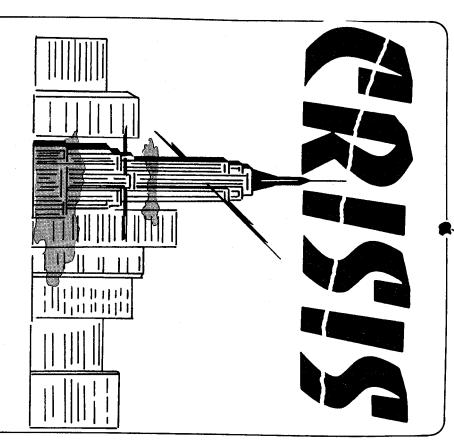
Draw background color.	970 INVERSE: FRINT ">>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	940 & 255,100: & 250,100: & 220, 40: & 200,150: & 190,255: & 240,255: & 254,255 950 MN = NN - 1 960 IF MN < > 0 THEN 730 Game over. Ask player for another game.	### ##################################
1220 UATR 2,29.3,26,3,24,4,23,4, 21,4,19,5,16,5,14,6,11	1150 DATA 4,22,5,23,6,24,7,25,8, 26,9,27,10,28,11,29 1160 DATA 12,30,13,31,14,32,15,3. 3,16,34,17,35,18,36 1170 DATA 19,37,20,38,21,37,22,3 6,23,35,24,34,25,33,26,32 1180 DATA 27,31,28,30,29,29,30,2 1180 DATA 27,31,28,30,29,29,30,2 8,31,27,32,26 1190 DATA 33,25,34,24,35,23,36,2 2,37,21,38,20,37,19,36,18 1190 DATA 35,17,34,16,33,15,32,1 4,31,13,30,12,29,11,28,10 DATA 27,9,26,8,25,7,24,6,23 ,5,22,4,21,3	Sound routine and machine language data.  1130 DATA 20,2,19,3,18,4,17,5,16,6,15,7,14,8,13,9,12,10,11,1  1 1140 DATA 10,12,9,13,8,14,7,15,6,16,5,17,4,18,3,19,2,20,3,21	1050 COLOR= 4: HLIN VL, VN AT X: NEXT : RETURN  Display title page.  1070 FRINT CHR\$ (21):: TEXT : HOME : NORNAL : VTAB 8: HTAB 15: FRINT "++CRISIS++": HTAB 19: VTAB 17: FRINT "by": VTAB 19: HTAB 15: FRINT "Lyle Grant"  Poke in sound routine and machine language data.  1080 FOR X = 31750 TO 31821: READ A1, A2: POKE X + 75, A2: POKE X, A1: NEXT 1090 FOR X = 31900 TO 31978: READ A1, A2: POKE X + 80, A2: POKE X, A1: NEXT 1100 FOR X = 748 TO 833: READ A1 : POKE X, A1: NEXT 1110 FOKE 1013, 76: FOKE 1014, 0: FOKE 1015, 3 1120 RETURN

#### 600 & 30,15: & 28,8: & 15,10 590 WB = 0: RETURN 570 VLIN C(3), WA AT C(4) 540 FOR X = 1 TO 2 530 ML = C(1) + 7: WA = C(3) + 7 560 C(2) = C(2) + 1: NEXT 550 HLIN C(1), ML AT C(2) Hostage saved 580 GDSUB 460 520 C(X) = RX: NEXT510 RN = RND (1) + 3): IF (X = 2)500 FOR X = 1 TO 4 Draw new walls. 470 BLIN VL, VN AT VL: HLIN VL, VN 450 COLOR= 13 450 & 28,50: RETURN 480 RETURN Draw border walls. 430 & 28,20: & 30,20: & 38,15 Sound for open door. Routine to handle open door. 440 420 FOR X = 1 TO 700: NEXT : FOR 410 RETURN 400 IF YY < = VK + 1 AND YY > = 390 COLOR= 4: VLIN VJ, VK AT VL 380 DR = DR + 1: IF DR = 1 THEN GOSUB 340 XX = XX - MT: RETURN Player's movement. 370 YY = YY + MT: RETURN 360 FOF : 5010 110 350 XX = XX + MI: RETURN 330 YY = YY - MT: RETURN 4) THEN 510 (X = 4 AND ABS (RN - XX) ( AND ABS (RN - YY) ( 4) DR 0 = 40T0J VL, VN AT VN: HLIN VL, VN AT V VU AND XX < VM THEN 890 AT VN: VLIN VL, VN AT VL: VLIN X = 1 T0 5 860 FRINT : HTAB 17: FRINT "'J' 820 FOR X = 1 TO 800; NEXT X 810 VIAB 22: HIAB 3: FRINI "Live 850 VIAB 5: FRINT "Movement keys 840 HOME : HTAB 14: PRINT \*-- INS Instructions. 830 6010 110 800 VIAB 21: HIAB 24: PRINT \*Flo 780 FOKE 49168,0:Z = 0: HOME 790 VIAB 21: HTAB 8: PRINT "Scor 750 XX = 18:4Y = 19: COLOR= 6: FLOT 730 B(1) = 31750:B(2) = 31900:B(3)640 MA = 0: 60SUB 460 740 GR : 50SUB 1050 720 LV = 1:MN = 3:WH = 33:MB = 60Draw new hostage. 710 GOSUR 840 700 READ MT,KA,KB,KC,KD,VJ,VK,VL 690 BOSUB 1070 680 DIN A(4): DIN B(4): DIN C(4) Initialization. 670 RETURN 660 HLIN MM, EE AT (NN + 1): VLIN 650 COLOR= 15 630 MM = RND (1) \* 37:EE = MM + 610 SC = SC + 100: IF HS > = 1 THEN 620 VIAB 21: HIAB 14: PRINT SC: HIAB =left": PRINT : HTAB 17: PRINT 7: PRINT "'H' = down" e: "SC: HTAB 21: VTAB 22: PRINT 17, 77 i = 31825:B(4) = 31980"Hostages on floor:"HS 460: 60SUB 630 , VM, VN, VP 39: VIAB 22: PRINT HS - 15 - 1 NN, NN + 2 AT MM + 1: PLOT MM 2:W = RW (1) + 36 ,NN + 3: PLOT EE, NN + 3 'l' = up": FRINT : HTAB !

#### **Variables**

170 FDR X = 1 TO 4	160 COLOR= 7: FLOT XX, YY		140 IF SCRN( XX,YY) = 15 THEN GOSUB 660: GOSUB 460: GOSUB 600	ON Z 609UB 330,340,350,360,70	120 COLOR= 4: PLOT XX, YY	(KY > Y5): IF KY > KB THEN Z =	EEK (KD): KY = KY - 3	n pro	If you don't wish to type this program, it is available on issue #46 SoftSide DV.	28 88 88 88 88 88 88			Author: Lyle Grant	'Crisis'	Applesoft BASIC	55 SS	J, K. The ciona's position.		HS: The number of hostages left	ne hostage.	opened.  HE MM NN: Position and shane	DR: Tells when the door has	C(*): Positions of new walls.	beam's machine language move-	B(*): Location of the cloud's and	B: Bonus points for finishing a floor.	A1, A2, X, X\$: Miscellaneous variables.	A, B: Electric beam's position. A(*): Stored machine language data.
320 6070 110	17 H5	420 420 GDSHB 450	290 MA = MA + 1: IF MA = MB THEN COLUR= 4: GOSUB 660: GOSUB	<b>3E</b>	260 COLOR= 4: NEXT	3 AT J + 1: VLIN K, X + 3 A?	LIN K, K + 3 AT J: VLIN	COLOR= 13: VLIN A, A + B	. 50SU		31900:B(4) = 31980	210 IF B(2) = 31979 THEN B(2) =	200 IF B(1) = 31821   HEM B(1) =	A(4)	190 A = $A(1):J = A(2):B = A(3):K =$	180 A(X) = PEEK (B(X)):B(X) = B(X) + 1: NEXT	L inject to sale over the s	7. Player's direction	walls.	WH: Time between appearances o	wg: 11me since the walls last appeared.	WA, WL: Length of new walls.	- 7	MN: Lives left.	the hostage.	moved.  MB: Time between relocations of	LV: Floor number. MA: Time since the hostage last	KA, KB, KC, KD, MT, VK, VL, VM, VN, VP: Constants. KY: Keyboard input.

```
= MB THEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ew walls.
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VLIN K,K +
K + 3 AT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       E THEN
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#### by Lyle Grant

Crisis is an arcade-style color graphics game for any Apple® Il computer with one disk drive and 48K RAM.

A ruthless race of aliens has captured the Empire State Building, and holds the people inside as hostages. Your task is to rescue as many of the hostages as you can. You have three "men" to perform this feat of daring and bravery. The aliens have taken measures to prevent such a rescue. On each floor of the building, you encounter a poison cloud, an electric beam, and walls that suddenly appear in your path.

To free a hostage, you must touch him as you move about the floor. Use the I, J, K and M keys to move up, left, right and down. If you take too long to free a prisoner, he moves to another spot on the floor. Each time you free a hostage, you earn 100 points. If you save eight hostages without being killed, a door opens up on the left side of the screen. Going through the door gets you bonus points and a ride to the next floor. There you must rescue another eight, but the game gets progressively faster and harder.

# Soffside FRONT RUNNER

#### Index



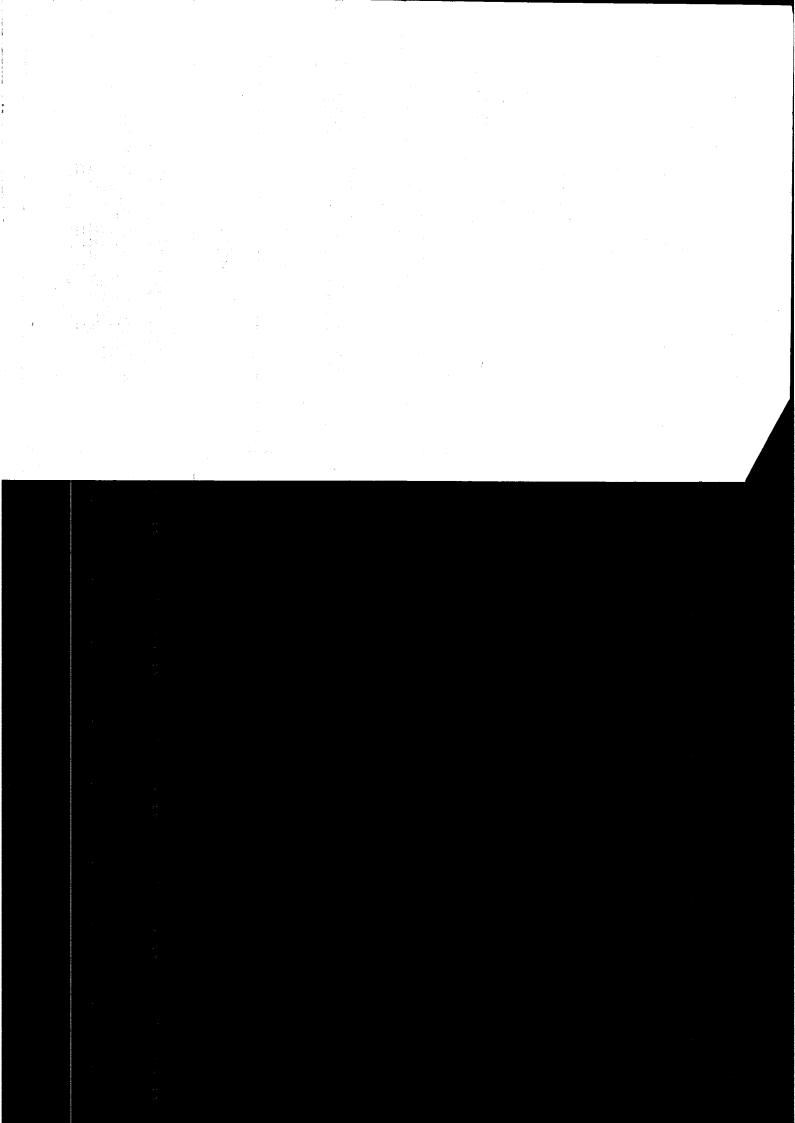




and SYSTEM REQUIREMENTS.....

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KANGARILLA