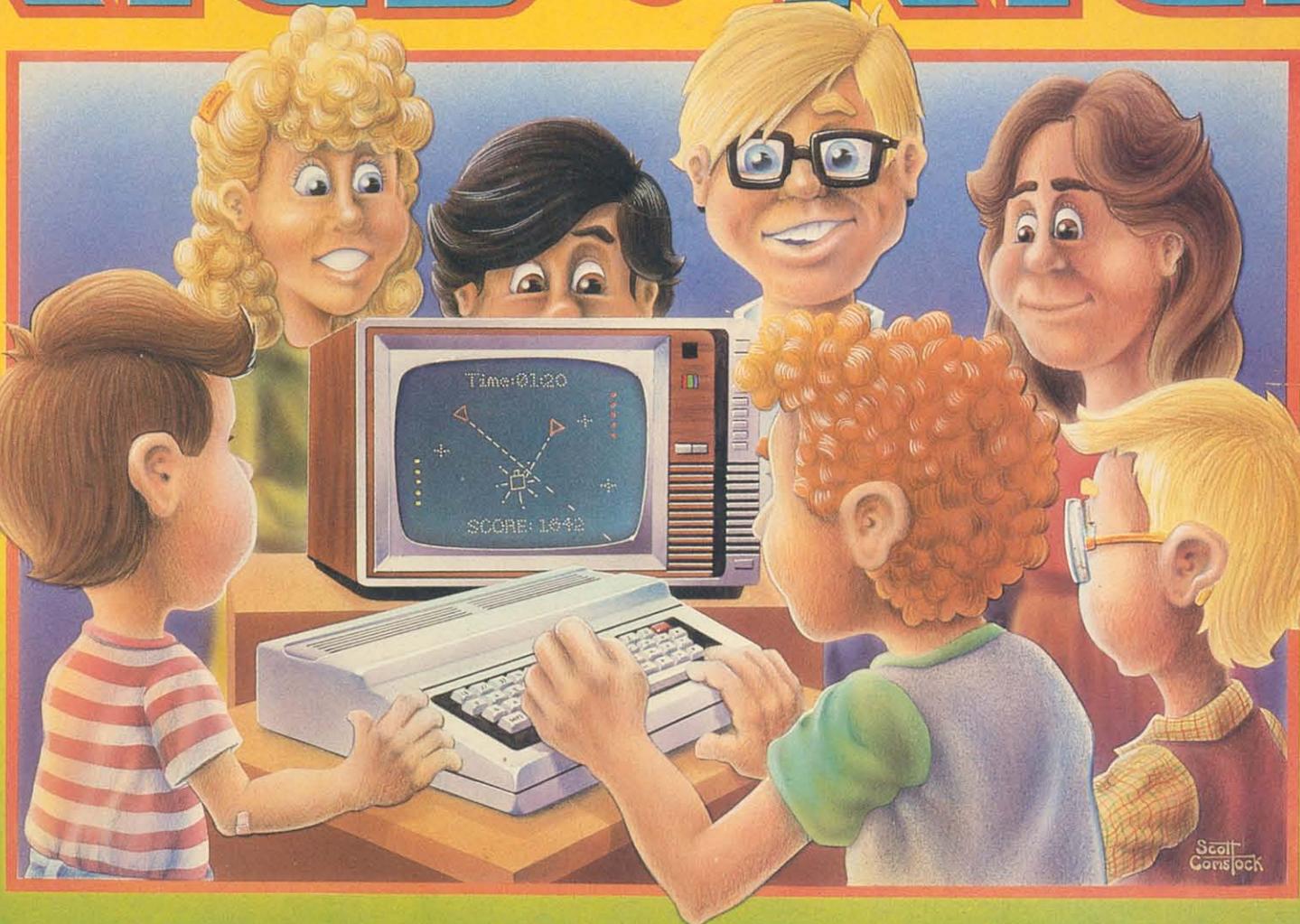




\$9.95

Kids + Kids



by
Billy Sanders
and
Sam Edge

ON THE COLOR COMPUTER
(for the Radio Shack Color Computer)

TO KIDS TO

SAVED PROGRAMS

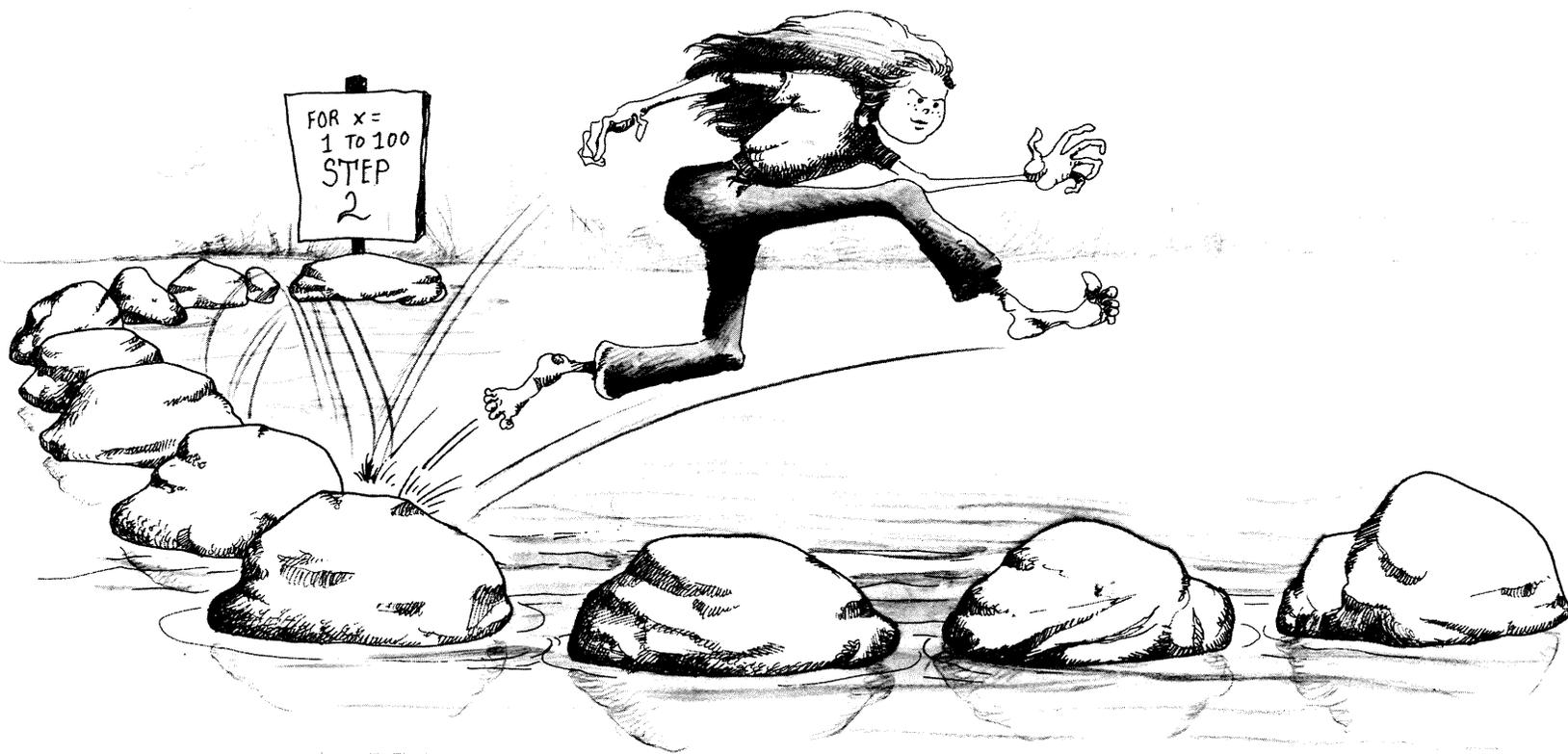
*continue to work
for you*



KIDS TO KIDS TO

KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO

○ KIDS TO KIDS TO



KIDS TO KIDS TO

KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO

5

USING LOOPS

There are two kinds of loops we will be showing you in this chapter. They are called the FOR/NEXT loop, and the GOTO loop. First, we will show you how to use a FOR/NEXT loop. Look at the example to see what a FOR/NEXT loop looks like. When you are finished looking at it, type it on your computer and RUN it to see what happens.



```
10 CLS
20 FOR X=1 TO 10
30 PRINT X
40 NEXT X
50 END
```

In the second line, line 20, you will find that it says FOR X=1 TO 10. That means that X equals 1 to 10. The letter X is a type of variable. The value of X begins at 1 and goes up to 10. Each time the program hits the NEXT statement, it loops back to line 20 increasing the value of X by 1. That is why it is called a loop. The program does this until the value of X is equal to 10 and then it leaves the loop and goes to the line after the statement NEXT. On line 30 the program says to PRINT X. So the computer is going to PRINT the value of X. The


```
10 FOR X=1 TO 1000
20 PRINT X
30 NEXT X
40 FOR V=1 TO 100
50 PRINT V,
60 NEXT V
70 PRINT "IF YOU CAN SAY ALL THOSE NUMBERS IN
    ONE MINUTE YOU SHOULD BE ON THAT'S
    INCREDIBLE!"
```

```
10 PRINT "WHAT IS YOUR NAME?"
20 INPUT A$
30 PRINT A$
40 GOTO 30
```

```
10 FOR I= 1 TO 50
20 PRINT I
30 NEXT I
40 GOTO 10
```

In this chapter you have learned how to use two kinds of loops called FOR/NEXT loops and GOTO loops. In the next chapter you will learn how to use branching and subroutines. We will see more of the GOTO statement there.

D KIDS TO KIDS TO

```
30 CLS
40 PRINT
50 PRINT " <1> INSERT DATA"
60 PRINT " <2> EDIT DATA"
70 PRINT " <3> PLAY MUSIC"
80 PRINT " <4> DISPLAY DATA"
90 PRINT " <5> EXIT"
100 GOSUB 140
110 ON S GOTO 190, 510, 710, 810, 930
120 SOUND 236, 8
130 GOTO 30
140 PRINT : PRINT ;
150 INPUT "ENTER SELECTION"; S
160 RETURN
170 CLS: PRINT @0, " **** WHEN DONE TYPE 999 ****"
    : RETURN
180 FOR T = 1 TO 100 : IF T(T) = 0 THEN RETURN
    ELSE NEXT T
190 REM ***
200 REM *** INSERT DATA ROUTINE ***
210 REM ***
220 CLS
230 PRINT " <1> CONTINUE INSERTING DATA"
240 PRINT " <2> ALL NEW DATA"
250 GOSUB 140
260 ON S GOTO 280, 330
270 GOTO 190
280 CLS
290 PRINT "AT WHICH NUMBER DO YOU WISH TO
    CONTINUE"
300 INPUT C
```

KIDS TO KIDS TO

) KIDS TO KIDS TO

```
610 PRINT "DURATION=" ; D(LN)
620 PRINT "*****";
630 PRINT "data #"; LN
640 INPUT "PITCH" ; T(LN)
650 INPUT "DURATION"; D(LN)
660 PRINT
670 PRINT "DO YOU WANT TO EDIT ANY MORE"
680 PRINT
690 INPUT A$
700 IF A$ = "YES" OR A$ = "Y" THEN 510 ELSE 40
710 REM ***
720 REM *** PLAY DATA ROUTINE ***
730 REM ***
740 GOSUB 180
750 T = T - 1
760 IF T = 0 THEN GOTO 40
770 FOR P = 1 TO T
780 SOUND T(P), D(P)
790 NEXT P
800 GOTO 30
810 REM ***
820 REM *** DISPLAY DATA ROUTINE ***
830 REM ***
840 CLS
850 GOSUB 180
860 T = T - 1
870 FOR P = 1 TO T
880 PRINT "DATA #"; P; "PITCH="; T(P); "DUR="; D(P)
890 NEXT P
900 PRINT
910 INPUT "..... HIT ENTER WHEN READY"; A$
920 GOTO 40
930 END
```

KIDS TO KIDS TO

KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO KIDS TO

and take away mushrooms. If you shoot too many mushrooms, a flea will come down and make more of them. The scorpions will hit mushrooms and make them poisonous and if the COLORPEDE hits the mushroom, the COLORPEDE will come straight down and turn just before it hits the bottom of the screen.

A game that has excellent graphics and is very well written is ASTROBLAST by Mark Data Products. This game is like the arcade game. You travel through space destroying enemy ships and try to get reloaded with fuel by shooting the mother ship. This game is very good. The last, but not least, game is THE FROG by Tom Mix Software. This game is like the arcade game FROGGER by Sega. Hop across the road avoiding cars, hop onto logs and turtles, and beware of the crocodile. These are just a handful of Color Computer games that are available.

*** Aardvark Software ***

- Wizards tower
- Golf
- Haunted House
- Quest
- Venturer
- Dungeons of Death

*** Computerware ***

- Doodle Bug
- Moon Hopper
- Grand Prix
- Bloc Head
- Sharks Treasure

change the characters of the base and of the ships by modifying the strings to different character values. (Look in the back of your Color Basic manual, pg. 276, to calculate your own character code.) A\$(1) - A\$(4) are the string arrays for the ships, and BASE\$ is for the base. To play the game, use the right and left arrow keys to move and the space bar to shoot.

```

10 CLS
20 BASE$ = CHR$(143) + CHR$(199) +
  CHR$(207) + CHR$(203) + CHR$(143)
30 A$(1) = CHR$(143) + CHR$(183) +
  CHR$(187) + CHR$(143)
40 A$(2) = CHR$(143) + CHR$(190) +
  CHR$(189) + CHR$(143)
50 A$(3) = CHR$(143) + CHR$(183) + CHR$(191) +
  CHR$(187) + CHR$(143)
60 A$(4) = CHR$(143) + CHR$(195) + CHR$(195) +
  CHR$(195) + CHR$(143)
70 LEVEL = RND(8) : T = T + 1
80 IF T = 25 THEN 470
90 SHIP = RND(4)
100 ON RND(2) GOTO 110, 180
110 FOR L = 0 TO 26 STEP RND(3)
120 PRINT@ LEVEL * 32 - 32 + L, " "; A$(SHIP); " ";
130 GOSUB 230
140 PRINT@ 448 + ADD, BASE$;
150 NEXT L
160 PRINT@ LEVEL * 32 - 31, " ";
170 GOTO 70
180 FOR L=26 TO 0 STEP -(RND(3))
190 GOSUB 230

```


FOR THE RADIO SHACK COLOR COMPUTER

Written by kids for kids, this unique book explains BASIC programming on the Radio Shack Color Computer. Created from the idea that kids can teach other kids better than anyone else, the material is designed to help you get started using and programming your Color Computer.

You'll learn how to use the cassette and disk drive, PRINT and math statements, variables, loops, branching & subroutines, and arrays. Two chapters are devoted to sound and graphics and another will teach you how to write an original game. Before long, you'll be using your Color Computer to finish your homework in record time!

As an added bonus, the authors discuss their favorite programs and games. Complete with a computer glossary and index, **KIDS TO KIDS ON THE COLOR COMPUTER** will teach you the magic of programming in simple, straightforward language.

COMING SOON FOR THE APPLE II, II+ & //e and THE COMMODORE 64 OTHER POPULAR COMPUTER BOOKS BY DATAMOST:

Kids & the Apple
Kids & the Atari
Kids & the Commodore 64
Kids & the IBM-PC/PCjr
Kids & the Panasonic
Kids & the TI-99/4A
Kids & the VIC-20
by Ed Carlson

How to Write an Apple Program
How to Write an IBM-PC Program
How to Write a TRS-80 Program
How to Write a Program Vol. II
A Computer in Your Pocket
by Ed Faulk

Games Apples Play
Games Ataris Play
by Mike Weinstock & Mark Capella

The Elementary Apple
The Elementary Atari
The Elementary Commodore 64
The Elementary IBM-PC
The Elementary Timex/Sinclair
The Elementary VIC-20
The Elementary TI-99/4A
by William Sanders

Computer Playground Apple II, II+, //e
Computer Playground Atari 400/800/1200
Computer Playground Commodore 64/VIC-20
Computer Playground TI-99/4A
by M.J. Winter

Using 6502 Assembly Language
p-Source
by Randy Hyde



ISBN 0-88190-231-4

8943 Fullbright Avenue, Chatsworth, CA 91311-2750
(818) 709-1202

