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TRS 80

COMPUTING



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ORIGINAL PROGRAMS FOR:
THE TRS-80 COLOR COMPUTER 2

SOFTWARE INFO. FOR:

APPLES, COMMODORES ETC...

TABLE OF CONTENTS

TRS-80 COMPUTING

.THE TRS-80 STORY.....	2
I. TRS-80 SOFTWARE.....	3
1. OTHER MODELS.....	4
II. THE PROGRAMMER.....	5
1. CARNIVAL RIDER.....	6
2. COLORS, SOUND!.....	8
3. PROGRAMMING THE TRS-80.....	9
IV. ARTICLE SECTION.....	10
V. MACHINE SPECIFICS.....	12
VI. COMPUTER JOKES.....	13
VII. CLASSIFIED.....	14

THE TRS-80 STORY....

I am writing this magazine to teach you, and introduce you to the TRS-80 COLOR COMPUTER 2(or 3). When you read this magazine, you will notice many recent articles on the color computer, and game programs to type out. 'TRS-80 COMPUTING' will be published every month and each month it will tell you something new on the computer and also will teach you a little bit about the language: BASIC.

The TRS-80's can only be purchased from Radio Shack, but are very handy when it comes to programming it. In 1986, Radio Shack sent all the TRS-80's back to Tandy Corporation in Texas, and extended the memory to 64k. It allowed programmers to create excellent sound and graphics. So this means you can do much more on a 64k than you can on a 16k. Some of the graphic programs are in the back of this magazine. For example type & run this program:

```
5 PMODE 3,1
```

```
10 PCLS
```

```
12 SCREEN 1,0
```

```
14 CIRCLE(128,96),30,4
```

```
18 PAINT(128,96),4,4
```

```
20 GOTO 20
```

When you run the program the computer will draw a picture of a medium-sized circle and color it in red.

NOTE: THIS PROGRAM WILL NOT WORK ON A STANDARD BASIC COMPUTER. ONLY EXTENDED BASIC

TRS-80 SOFTWARE



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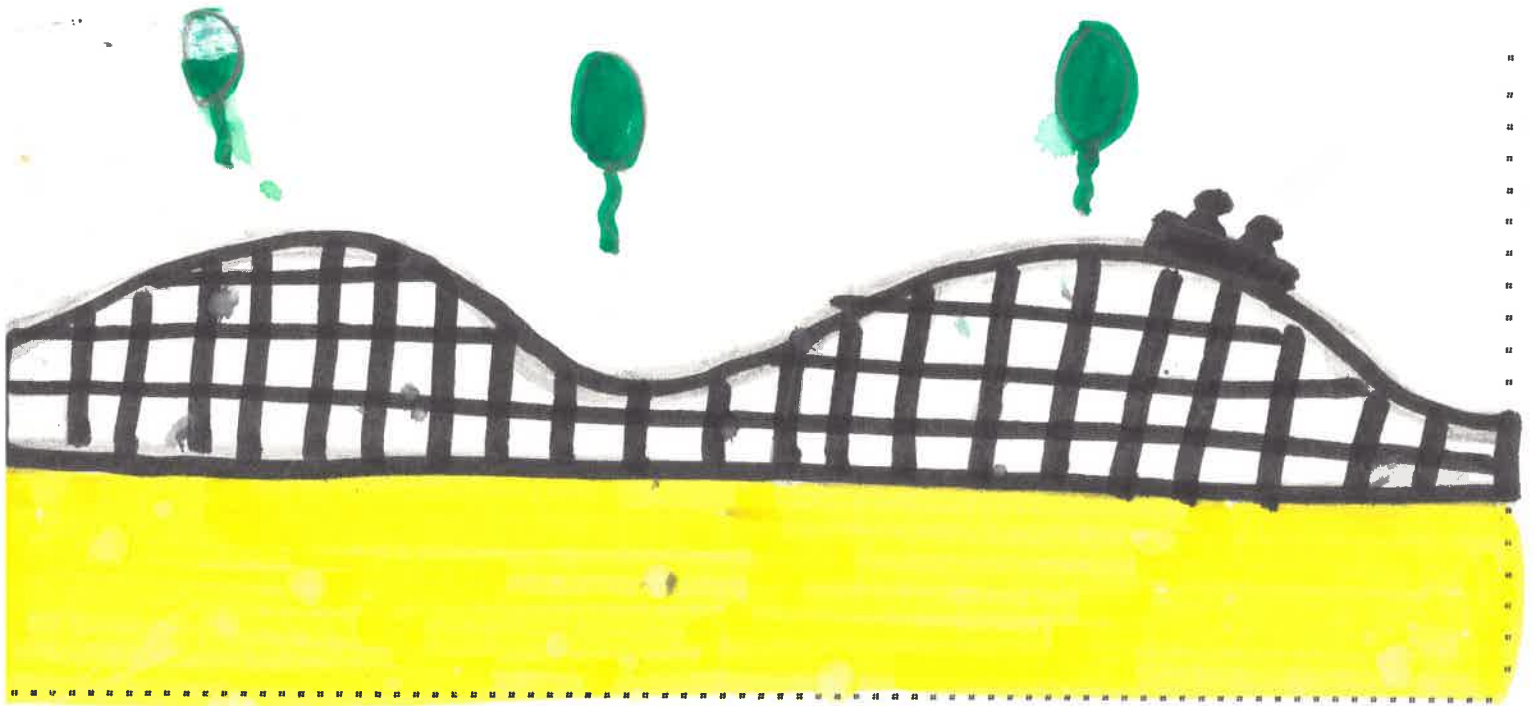
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the PROGRAMMER



J U N E

THIS MONTH'S PROGRAM...

CARNIVAL RIDER!

EDUCATIONAL GAME:FOR AGES 8-11

CARNIVAL RIDER

BY:JOEY AHERN

WELCOME TO CARNIVAL RIDER! THIS GAME WAS DESIGNED TO TEACH CHILDREN HOW TO DO ADDITION. THE DIRECTIONS ARE INCLUDED IN THE PROGRAM, SO TYPE IT OUT, SAVE IT, AND ENJOY!

```
0 REM CARNIVAL RIDER
1 REM FOR TRS-80 COLOR COMPUTER
3 REM 16K STANDARD BASIC
5 CLS(0)
10 FOR H=12 TO 15:SET(H,3,4):SET(H,7,4):NEXT H
12 FOR V=3 TO 7:SET(12,V,4):SET(17,V,4):SET(20,V,4):NEXT V
14 FOR H=17 TO 20:SET(H,3,4):SET(H,5,4):NEXT H
16 FOR V=3 TO 7:SET(23,V,4):SET(29,V,4):SET(32,V,4):NEXT V
18 FOR H=23 TO 26:SET(H,3,4):SET(H,5,4):NEXT H
20 SET(26,4,4):SET(25,6,4):SET(26,7,4):SET(30,4,4):SET(31,5,4)
22 FOR V=3 TO 7:SET(35,V,4):NEXT V
24 FOR V=3 TO 6:SET(37,V,4):SET(40,V,4):NEXT V
26 SET(38,7,4):SET(39,V,4)
28 FOR V=3 TO 7:SET(42,V,4):SET(45,V,4):SET(47,V,4):NEXT V
30 FOR H=42 TO 45:SET(H,3,4):SET(H,5,4):NEXT H
32 FOR H=47 TO 50:SET(H,7,4):NEXT H
34 FOR V=10 TO 13:SET(18,V,4):SET(23,V,4):NEXT V
36 FOR H=18 TO 20:SET(H,10,4):SET(H,12,4):NEXT H
38 SET(20,11,4):SET(21,13,4)
40 FOR V=10 TO 13:SET(26,V,4):SET(31,V,4):NEXT V
42 FOR H=26 TO 28:SET(H,10,4):SET(H,13,4):NEXT H
44 SET(29,11,4):SET(29,12,4)
46 FOR H=31 TO 34:SET(H,10,4):SET(H,13,4):NEXT H
48 SET(32,12,4):SET(33,12,4)
50 FOR V=10 TO 13:SET(36,V,4):NEXT V
52 FOR H=36 TO 39:SET(H,10,4):SET(H,12,4):NEXT H
54 SET(39,11,4):SET(40,13,4)
56 FOR PAUSE=1 TO 3050:NEXT PAUSE
58 CLS
60 PRINT@132,"WRITTEN BY:JOSEPH AHERN"
62 PRINT@228,"MADE IN:MAY,1987"
64 PRINT@356,"INSTRUCTIONS?<Y/N>"
66 A#=INKEY$:IF A#=""THEN 66
68 IF A#="Y"THEN 74
70 IF A#="N"THEN 79
72 GOTO 64
74 CLS:PRINT:PRINT
76 PRINT"THE RIVERSIDE'S MAIN RIDE,'CYCLONE'HAS BROKE DOWN.YOU THE REPAIRER,MUST TRY AND FIX IT BEFORE THE RIDERS COME DOWN,AND FALL OFF THE TRACK! SOLVE THE ADDITION PROBLEMS CORRECTLY TO PREVENT THAT!"
78 FOR DLAY=1 TO 8000:NEXT DLAY
79 GOSUB 80:GOTO 98
80 CLS(0)
```

```

02 SET(0,20,3):SET(1,21,3):SET(2,22,3):SET(3,23,3):SET(4,24,3):SET(5,25,3):SET(6
26,3):SET(7,27,3)
04 SET(15,27,3):SET(16,26,3):SET(17,25,3):SET(18,24,3):SET(19,23,3):SET(20,22,3)
SET(21,21,3):SET(22,20,3)
06 FOR H=22 TO 33:SET(H,20,3):NEXT H
08 SET(34,21,3):SET(35,22,3):SET(36,23,3):SET(37,24,3):SET(38,25,3):SET(39,26,3)
SET(40,27,3)
10 FOR H=0 TO 41:SET(H,27,3):NEXT H
11 FOR V=20 TO 27:SET(0,V,3):NEXT V
12 SET(23,18,8):SET(24,18,8):SET(25,18,8):SET(26,18,8):SET(27,18,8):SET(28,18,8)
SET(29,18,8):SET(30,18,8)
14 SET(23,19,8):SET(24,19,8):SET(25,19,8):SET(25,19,8):SET(26,19,8):SET(27,19,8)
SET(28,19,8):SET(29,19,8):SET(30,19,8)
16 SET(25,17,2):SET(24,16,2):SET(25,16,2):SET(26,16,2):SET(25,17,2):RETURN
18 M=RND(50):N=RND(50)
00 PRINT@480,"WHAT IS ";M;"+";N;"?"
02 INPUT B
04 IF B=M+N THEN PRINT"CORRECT":GOTO 110
06 IF B<>M+N THEN GOSUB 999
08 PRINT@480,"GAME OVER":FOR X=1 TO 1000:NEXT X:PRINT@480,"PLAY AGAIN":INPUT D$
IF D$="Y"THEN 79 ELSE CLS:END
10 FOR H=42 TO 52:SET(H,21,3):NEXT H
12 P=RND(100):O=RND(200)
14 PRINT@480,"WHAT IS";P;"+";O;"?"
16 INPUT C
18 IF C=P+O THEN PRINT"CORRECT":GOTO 124
20 IF C<>P+O THEN GOSUB 999
22 PRINT@480,"GAME OVER":FOR X=1 TO 1000:NEXT X:PRINT@480,"PLAY AGAIN":INPUT E$
IF E$="Y"THEN GOTO 79 ELSE CLS:END
24 FOR H=52 TO 63:SET(H,15,3):NEXT H:PRINT@448,"GOOD JOB! YOU HAVE REPAIRED 'CY
LONE' AND EARNED $300":FOR X=1 TO 2000:NEXT X:CLS:END
99 CLS:GOSUB 80
000 RESET(23,18):RESET(24,18):RESET(25,18):RESET(26,18):RESET(27,18):RESET(28,1
8):RESET(29,18):RESET(30,18)
002 RESET(23,19):RESET(24,19):RESET(25,19):RESET(26,19):RESET(27,19):RESET(28,1
9):RESET(29,19):RESET(30,19)
004 RESET(25,17):RESET(24,16):RESET(25,16):RESET(26,16)
005 FOR X=1 TO 800:NEXT X
006 FOR H=54 TO 63:SET(H,26,8):SET(H,27,8):NEXT H
008 FOR H=44 TO 48:SET(H,27,4):NEXT H
010 SET(44,26,4):SET(48,26,4)
012 PRINT@448,"YOU RUINED 'CYCLONE' ^ ^"
014 PRINT@480,"AND ALSO KILLED MY BEST FRIEND!"
016 FOR PAUSE=1 TO 3000:NEXT PAUSE
018 RETURN

```


THE PROGRAM... COLORS! SOUND!

BY: DAVID McNALLY

This program was written by David McNally. When you run it, the computer will print a color then play a sound. Every time the color changes, the sound gets higher! You can type this out and then save it on tape or disk.

```
5 CLS(0):GOSUB 200:SOUND 1,1
10 CLS(1):GOSUB 200:SOUND 5,1
15 CLS(2):GOSUB 200:SOUND 10,1
20 CLS(3):GOSUB 200:SOUND 15,1
25 CLS(4):GOSUB 200:SOUND 20,1
30 CLS(5):GOSUB 200:SOUND 25,1
35 CLS(6):GOSUB 200:SOUND 30,1
40 CLS(7):GOSUB 200:SOUND 35,1
45 CLS(8):GOSUB 200:SOUND 40,1
50 CLS:END
200 FOR PAUSE=1 TO 900:NEXT PAUSE
201 RETURN
```

*** RANDOM COLOR, RANDOM SOUND! ***

```
0 Y=RND(8)
2 X=RND(200)
4 CLS(Y):SOUND X,1
10 FOR PAUSE=1 TO 50:NEXT PAUSE
12 GOTO 0
```

WHEN YOU WANT THE PROGRAM TO STOP, PRESS THE <BREAK> KEY.

*** THE ADDING MACHINE! ***

SIMPLY INPUT TWO NUMBERS, AND THE THE COMPUTER WILL ADD THEM FOR YOU.

```
0 CLS
1 PRINT:INPUT"INPUT FIRST NUMBER";A
2 PRINT:INPUT"INPUT SECOND NUMBER";B
3 CLS
5 PRINT"THE SUM IS ";A+B
7 FOR PAUSE=1 TO 2000:NEXT PAUSE
8 GOTO 0
```

PROGRAMMING THE TRS-80

Since this is the first issue of TRS-80 COMPUTING, we would like to give you a little information about the language BASIC. Each issue will include this section, so we hope you'll enjoy it.

TRS-80 COLOR COMPUTER 2-COLOR CODES

0-BLACK	5-BUFF
1-GREEN	6-CYAN
2-YELLOW	7-MAGNETA
3-BLUE	8-ORANGE
4-RED	

The following program is called colors.type and run this program:

```
10 FOR X = 0 TO 63
20 FOR Y = 0 TO 31
30 C = INT(X/8+1)
40 SET(X,Y,C)
50 NEXT Y,X
60 GOTO 60
```

The TRS-80 COLOR COMPUTER 2, has a variety of 255 sounds. To hear how they sound from 1 to 255, type out the following program:

```
5 FOR X=1 TO 255
10 SOUND X,1
20 NEXT X
30 END
```

To see how to use the SOUND commands in your own programs read the syntax below:

```
SOUND 35,2
IN THIS COMMAND, IT TELLS THE COMPUTER TO PLAY NOTE#35 FOR 2 SECONDS... THAT'S HOW EASY IT IS!
```

Computers

I will start by saying computers are great. They can do so many things, and there are dozens of different kinds. Let me tell you about them.

There are three main types of computers. There are mainframes, which are real big computers. There are micro-computers which aren't real big. Then there is one last one called a mini computer.

There are countless parts to a computer. Here is an example of some parts. There are keys, micro chips, games, and other parts.

What computers are for?

Computers are for lots of uses. Computers can be used in homes and in offices. Many big places such as N.A.S.A., use computers. Computers are also for doing math. If you have a word processor, you can use your computer as an electric typewriter.

About Hookups

You can hook up different attachments to a computer. In this part of my story I want to tell you about hookup items.

First, there is a disk drive. A disk drive can load programs off a disk and into the computers memory. A disk drive also stores programs on a disk.

Second, there is a tape player. A tape player does almost the same thing as a disk drive, only its slower. Also the tape player is cheaper. There is only one drawback though, besides the tape players slowness, a tape (if it is a game) has less graphics. Better games come on disks rather than tapes.

Third, there is a printer. The printer prints anything you type on the screen, or just parts.

Cost

The real good computers cost over \$1,000, but some in the hundreds. A Commodore only costs about \$550. A color TRS 80 costs only about \$100.

My Thoughts

I think that if you don't have a computer you should get one. They can do hundreds of helpful tasks. That's why I have one.

by David McNally

MACHINE SPECIFICS

Machine Specifics is news, quotes, and rumors on the Tandy color computer. This section will be included in every magazine of 'TRS-80 COMPUTING'.

Most of the color computer 1&2 software will run on the Co Co 3, but because there are significant differences in the way the Co Co 3 works, some programs may not run properly. Most of the problems have to do with the way the older models generate color, but there are also differences in the way the system operates which can prevent some software from working at all.

According to Radio Shack, the following software will not work on the Co Co 3, and Radio Shack is not planning to upgrade or fix these programs: Appliance/Light Controller, Art Gallery, Audio Spectrum Analyzer, Cyrus, DiagnosticsROM, Download, Dragonfire, Kidwriter, Music, and Videotex.

OS-9 UPDATE

Lately there has been a delay in shipping OS-9 Level II for the Co Co 3, but some things are clear. You must purchase Level II if you have a Co Co 3 and want to use OS-9. Level I won't work on the Co Co 3. Second, the lag in Level II availability is causing delays for third-party developers. They are unable to furnish the 'run time' version of OS-9 Level II, which allows their programs to run on CoCos without OS-9.

A COMPUTER JOKE

I TOLD THE COMPUTER TO STOP IT(IT KEPT REPEATING ITSELF) AND LOOK WHAT THE STUPID THING DID. I ONLY ASKED IT TO STOP REPEATING, NOT TO STOP THE PROGRAM

```
-----  
. HI .  
. HI .  
. HI .  
. HI .  
. HI .  
. HI .  
. HI .  
. BREAK IN 20 .  
. .  
. .  
. .  
. .  
. .  
. .  
. .  
. .  
. .  
. .  
. .  
-----
```

CLASSIFIED SECTION

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ADVENTURE PROGRAMS TRS-80 Color Computer. For info write to Jim Ball, 301 Kellner Court, Columbus, OH 43209

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