# the RAINBOW 

## 5803 Timber Ridge Drive • Prospect, KY 40059

First of all, welcome to the RRINEDW!
We'd like to open things. up for volume one, number one with a little bagkground on why the RAINBOH exists and what we hope to s.ccomplish with this newsletter. If you are anything like us, we think you'll see that this publication is well worth the small amount we'll be saking you to invest iri it.

Most of us are amons the first to be the proud owners of a TRS-BD CDLDR Computer. And, if you are like we were, you ware attracted to TPS-B0 in the first place by all those great Programs available for the Models I, II and III.

But, where did that leave us? Exsept for some prosrams in the manuals -and the e-x-p-e-n-s-i-v-e POM Packs offered by the Shack -- there Just isn't a great deal out there right now. Oh, it iz coming. But the wait seems lone and there are a lot of things the COLOR Computer can do that its big brothers ean't.

Rnd, frankly, what software is available might be good or misht be bad. I'm sure you, like I have, hear all sorts of stories about software that doesn't work, won't load, and so forth. One of the thinss we expect to be is YOUR representative to the software distributors. We'll be doing reviews and we'll give you the straight scoop. We feel confident ths.t those dealers who have a good product $-\infty$ and who want to reach an interested and receptive market -- will be happy to let us review their software. And, be sure, you'll get a falr and honest apprasial from the PRINEDW.

We'll a.lso pass alons programs on these pales. Those we come across ourselves, and those you. may wsint to contribute. Don't be bashful. Rnd don't think your prosram has to be a "monster" to get reprodueed here. <In fact, as you'll see shortly, the progrsm used to write the RAINBDW takes up Just three lines., So, send in your favorites and we'll share them with the world.

One most importent thing. The RAINBDW is devated to the CDLOR COMPuter and the CDLOR Computer only! While future issues will share some of the "secrets" of progrsm conversion, you won't find anything here abou.t sny other somputer. No Mod III stuff, no RPple stuff, no Rtari stuff. The PRINBDW is going to be the one -- and, to our knowledse ONLY -- publication that's just for COLDR Computer owners. In other words, we think you'il find everything you you read in the RAINBOW will have a direct appiication to YOUR computer.

Ah, the commercial. The RAINEQW costs money to print and mail. In order to Pay some of those costs, we're chareing $\$ 12$ a year for a subecription. We MOPe you'll find that reasons.ble and that you'll send a check by return mail. Frankly, that's pretty chesp for all the information yon'll get. I hope you'll s.aree. Thanks a lot for ilstening. We look forward to hearing from you.

For those of you who like music, let us first recommend the fin article on the COLOR Computer in the latest issue of "8日-Microcomputing." By far the best program there is one named "Music-Mu.sic-Music." And it is wrtten for the CDLDR Computer. But one of the thin9s it does not do is allow you to Play songs as a Part of any other progrs.ms you might wish to run. Its an entity (albeit a fine one) to itself.

What we were trying to do was put together horse race program which we were going to call Derby Cremember, the RAINBOW comes from Louisville). We wanted the prosram to Play "My Did Kentucky Home" as the horses moved to the post. But, a couple of trys in decoding notes from a music book into SDIJND (and PLRY) statements left a lot to be desired.

Well, the "Music Masic Musia" Program solved that problem for us, we used it to get a resilly good rendition of "My Dld Kentucky Home." The problem was, how to get that code into another prosram.

Enter "Music Made Easyl" We Just wrote the following few lines, added them to their own little space on the "Music Music Music" prosram, loaded a dats. tape for the eons we wanted and then "broke" the origins.l program. - That left all the notes in their arras, each with the proper code for SDIND's syntax.

We then instructed the CDLDR Computer to ratDEgg ethe line where the codebreaker started). The result wa.e a. Printout of the proper cordes for SDIJND. The codebreaker is listed below '

6090 FOR $x=9$ TD 750
E日10 PRINT"-2, $x, P(X)$ " "D(Y)
602G NEXT K

Here's the routine to $P l a y$ the music for which you have obtained the codes. $\quad$ is to explaination Lines 15 REFD in the conversion of the code obtained in the previous proaram and the numbers necessary to make SDIJND work right. Line 10 is set to the number of notes -- which you will get from your codebres.ker. Line 39 is a very importsint line, whifh converte musical "rests" into a FOR-NEXT loop. Line 40 sctually plays the note. find Line 60 onward is the code from the codebreaker, all in DRTA statements.

Here's the Program'
1 DIM N(4B)
2 FOR $N=1$ TO 4B
3 REFD N(N), NEXT
4 DATR 5, 19, 32, 45, 5B, 69, 7B, 89, 99, 198, 117, 125, 133, 149, 147, 153, 159, 155, 179, 176, 189, 185, 189, 193
5 DATA 197, 290, 294, 297, 219, 213, 216, 218, 221, 223, 225, 227, 229, 231, 232, 234, 236, 237, 238, 239, 241, 242, 24.3, 244
10 FDR $X=1$ TO 250.'SET TD NDTES
20 RERD P,D
39 IF $P=0$ THEN FOR $T=1$ TO (D*W), NEYT COTDS
40 SDUND N(P),D
50 NEXT $\mathcal{K}$
69 DATA 17, B, 10, 8, 12, 8, 17, B

## MEx:T MDHTH

We'll be looking at some longer prosrams next month, and we expect to have a line justifier and a screen Printer program to talk about. We also expect to get a start on software reviews. So, take a look at our subscription blank and become an informed CDLDR Computer owner! We'll be looking forward to hearing from you,

## CPL SPEEDUP

Despite the stuff you may belleve or have been told about the speed of the COLOR Computer's 6809E CPU, its really a pretty swlft little device. In fact, if you want to see a Radio Shack store manager's eyes bosgle, Just put a COLDR Computer next to a Mod III in his store, write a short for-next loop to count the numbers from 1 to 1,000 on both machines and then run them at the same time. Can you guess which computer finishes first? Yep, old COLOR Computerl

But, there's a way to make your COLOR Computer run even faster. Just POKE 65495,0. You'll be able to see this in action right away, because the cusor will start changing colors more quickly. To get back to the "normal" speed, Just POKE 65494, D.

You have to 90 back to normal for cassette $1 / 0$ and to transmit to the printer. If you don't, you get all sorts of messy garbage. Rnd in reference to garbage, you probably will
get some on the screen cor lose control) if you let your program end while you're still in the fast format. Making your last line read, "POKE 65494,0'END" will handle thst problem Just fine. Its a nice feature for sill sorts of uses.

LR
When you bought your LP VII, remember the diss.ppointment when you discovered you really couldn't use the graphics because COLOR Computer owners needed a driver to make a conversion of bit codes?

Well, the walt is over. Even here in Louisuille, the oriver is available (at Computer Centers). And the best news of all is that it is FREE for those of us who bousht the LP VII. We're not $901 n 9$ to 80 into the businges of patting the Shack on the bs.ck without cause, but in this case its Justified.

Also in the sred of FREE stuff, if you bought VIDEOTEX, Radio Shack has arranged to glve you a free hour of the Dow Jones News Service. Rll you have to do is ask for itl

## $M$ 8. $M$ DECDDED

Have you tried that ilttle message board Prooram in the Extended Color Basic manual that lets you print what sort of appear to be text letters on the oraphics screen?

Since you cannot mix oraphics and text on the same screen, some things can be really confusing without a label. We suggest you ereate a subroutine with all 26 oraphics letters and then Just execute the letters on the oraphics sereen when you want to label something.

Pctually, that's not whst this is all about, since ths.t seems pretty easy to figure out. But, we were less than happy with the way two of the letters looked. A quick call to Ft. Worth brought the information that the customer service people at Radio Shack thought one of their proorammers was Just trying to get a bit too fancy with some of the letters.

Those letters in question are the "M" and the "W"...and they do look messy. Here's a sugsestion for a way to draw them that's a little more clear:
M. . .DTUTF3E307
W...DTRIE2F2R1UTBD7

We hope you'll like thesel

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TRS-80, COLOR COMPUTER RRE TPRDEMRRKS OF TRNDY CORP.

## WORD PRPDESSDR:

One of the biggest problems in trying to put the first issue of the RRINBOW together was in finding a way to type these articles out. It seemed a shame to write a computer newsletter on a typewriter.

The RAINBOW comes to you vis a Line Printer VII and, yes, there is a short prosram in "Going Rhead With Extended Color Basic" that will, as Radio Shack says, let you use the keybosrd for a typewriter. Only one problem -- you can't make a mistake in typing because the process of dissbling the printer to fix them is really time-ronsuming. Rnd, after all, who doesn't make mistskes?

## Enter the following program

10 PRINTE416,3:LINE INPUT"(16 sPaces) JR
20 PRINTW-2, R\$
30 CLS:GOTO10
Rnd, you get s. mini-text editor!
This program lets you enter your worde without committins them to the Printer buffer. In other words, if you make mistske, Just backspace and correct it. Not until you have
your whole ilne on the sereen do you send it to the printer...3s a.ll youl have to do is back up and fix your mistakes. For half-columns, like this one, Just chanse the PRINTQ to 456.

What you are doing is positioning the cursor 40 spaces from the end of the sereen. When the display "Jumps" up, you stop typing and hit ENTER. Or, if you are trying for justified columns like these, you count the number of spaces to the end, bsck. up and insert those spaces, between the worde, and then ENTER the line. Re you can see, Justified lines are a slow process. We're working on $a$. way to Justify them automatically, and will have s. report in the next issue of the RRINBOW.

You DO need Extended Color Bssic to make this work. But, if you don't hove it, the program will work with a regular INPUT. You Just esinnot use sommas, quote marks and the like.

Try writing a letter with this and we think sou'll like it. It iz gesired for an 89-celumn printer, but the logif is essy to follow if you need to s.da.pt (for a Quick Printer II, Perhaps?? HapPy writins!

## SLESTIRIPTIDM FORM

## To: Lawrence C. Falk, Editor the PRINEOW 5303 Timber Ridse Or. Prospect, KY 40059

Please enter my subseription to the PAINBDW for orie year. My $\$ 12$ is enclosed.



