

March 1988
RAINBOW
The Color Computer Monthly Magazine
ON DISK

RAINBOW ON DISK contains the programs featured in the pages of THE RAINBOW, The Color Computer Monthly Magazine. It is intended as a companion to the magazine, not as a separate entity. The articles accompanying the programs in THE RAINBOW may include important information and system requirements necessary to the operation of the programs.

The disk is specially formatted and contains both BASIC and OS-9 operating system programs.

This edition of RAINBOW ON DISK includes:

Bill Generator Let CoCo print your invoices.

Ad Profit Predictor CoCo can help with advertising decisions for your company's products.

Paper Route A customer accounting system for newspaper carriers.

Helicopter Hero Take a break from work with this challenging arcade game.

Cheap Spread Revisited *Cheap Spread* gets a face lift in this updated version.

Taking Stock Track the inflow and outgo of your company's inventory.

BASIC Training Here are four quick programs that give a better understanding of graphics.

Novices Niche Six shorties for business and pleasure.

Wishing Well Explore sentence structure by understanding simple subjects and predicates.

BASIC for Beginners The four-part programming tutorial concludes with a simple database system.

Education Notes Teaching and understanding phonics with a little help from CoCo.

Stock Analysis Be the talk of Wall Street as *Investment Trends* helps make market decisions.

Rule of 78's Should you pay off that loan early or let it ride its course?

The Post Office The CoCo 3 can help keep those mailing lists organized. Features form letter capability.

Sub Search Another challenging game of strategy to take you away from it all.

Number Cruncher Discover the hidden 128-by-28 text mode of the CoCo 3 and get a simple spreadsheet in the process.

Barden's Buffer The Tandy 1000 character set for use on the CoCo 3.

The OS-9 files on the "flip" side of this month's RAINBOW ON DISK include:

KISSable OS-9 Use *Dsort* to clean up multiple directories.

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Instructions for Use

This disk is a "floppy," formatted under Disk Extended BASIC on the front side and under the Microware OS-9 operating system on the back. To access the OS-9 programs on the back, you must remove the disk from your drive, boot your OS-9 system, turn the disk over and reinsert it.

Before you run any of the programs on RAINBOW ON DISK, you should first use the Disk BASIC BACKUP command to make a backup of both sides of the disk, giving you a working copy. You are able to back up the OS-9 formatted side of the disk under Disk BASIC. For the protection of the RAINBOW ON DISK master, the disk does not have write-protect notches, so you cannot accidentally write to it.

The Disk BASIC portions of the disk are menu-driven. To begin, type RUN "MENU" and press ENTER. A menu of the files appears, from which you may run any of the BASIC programs by pressing its corresponding letter key. The machine language programs, indicated by an asterisk, will not run properly from the menu. These machine language files must be loaded and executed with the LOADM and EXEC commands.

When a file is run from the RAINBOW ON DISK menu, part of the menu itself remains in memory. Because of this, you may encounter an OM? Error on some of the programs, indicating that the file is too large for memory. If this occurs, you will have to remove the disk and turn off your CoCo for a few seconds, then LOAD and RUN the program as you normally would from Disk BASIC, bypassing the menu.

How Do I Get to the OS-9 Programs?

The OS-9 side of RAINBOW ON DISK contains two directories: CMDS and SOURCE. It also contains a file, read.me.first, which explains the division of the two directories. The CMDS directory contains executable programs and the SOURCE directory contains the ASCII source code for these programs. BASIC09 programs will only be offered in source form so they will only be found in the SOURCE directory.

OS-9 is a very powerful operating system. Because of this, it is not easy to learn at first. However, while we can give specific instructions for using the OS-9 programs, you will find that the OS-9 programs will be of little use unless you are familiar with the operating system. For this reason, if you haven't "learned" OS-9 or are not comfortable with it, we suggest you read *The Complete Rainbow Guide to OS-9* by Dale Puckett and Peter Dibble.

The following is not intended as a course in OS-9. It merely states how to get the OS-9 programs from RAINBOW ON DISK to your OS-9 system disk. Use the procedures appropriate for your system. Before doing so, however, boot the OS-9 operating system according to the documentation from Radio Shack.

- 1) Type `load dir list copy` and press ENTER.
- 2) If you have only one disk drive, remove the OS-9 system disk from Drive 0 and replace it with the OS-9 side of RAINBOW ON DISK. Then type `chd/d0` and press ENTER. If you have two disk drives, leave the system master in Drive 0 and put the RAINBOW ON DISK in Drive 1. Then type `chd/d1` and press ENTER.
- 3) List the `read.me.first` file to the screen by typing `list read.me.first` and pressing ENTER.
- 4) Entering `dir` will give you a directory of the OS-9 side of RAINBOW ON DISK. To see what programs are in the CMDS directory, enter `dir cmds`. Follow a similar method to see what source files are in the SOURCE directory.
- 5) When you find a program you want to use, copy it to the CMDS directory on your system disk with one of the following commands:

One-drive system: `copy /d0/cmds/ filename /d0/cmds/ filename -s`

The system will prompt you to alternately place the source disk (RAINBOW ON DISK) or the destination disk (system disk) in Drive 0.

Two-drive system: `copy /d1/cmds/ filename /d0/cmds/ filename`

Once you have copied the program, you execute it from your system master by placing that disk in Drive 0 and entering the name of the file.

Many of these programs require special loading instructions and other information necessary to the proper functioning of the program. For complete instructions regarding each of the following files on RAINBOW ON DISK, refer to the March 1988 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Page	Filename	Page	OS-9 Files Filename
	MENU		
024	BILLGEN		
033	ADPROFIT	186	Dsort
037	PAPERS		
044	HELIHERO		
055	SPREAD2	186	Dsort.asm
061	STOCK		
070	COMPARE		
070	INDEX		
070	SAVELOAD		
071	TOTAL		
072	RECEIPT		
073	SHEET		
074	FILEDATA		
074	FILEREAD		
075	STARS		
076	CONNECT5		
079	SENTENCE		
086	DATABASE		
089	PHONICS		
095	INVTREND		
101	RULEOF78		
108	POST		
126	SUBSERCH		
150	SUM128		
157	MONTEST		
172	CHAR1000		

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