

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:

A CoBBS Update These modified COBBS/SYS and USER/SYS files allow CoBBS to be compatible with the CoCo 3.

Education Notes Exercise your reading comprehension and retention.

Stock Market Take your chances on Wall Street with this high-level game for the CoCo 1, 2 or 3.

Election '88 Keep track of the upcoming election results as they are announced. See if your predictions and wishes come true.

ML Made BASIC Learn to access single PMODE points using machine language.

Novices Niche Six quickies to whet your computing appetite.

Add Xmodem to CoBBS Use these routines to let your CoBBS system upload and download via the Xmodem protocol.

U.S. Presidents Add a little presidential history to your list of U.S. trivia.

A Remote Update Use this updated terminal driver, and make your CoCo 3 quite a host.

Wishing Well Continue the trek into the world of matches and opposites with *Pictures*, by Fred Scerbo.

Barden's Buffer A sort is a sort, of course, of course . . . Now you can learn how and where to use them.

The "flip" side of this month's RAINBOW ON DISK includes:

KISSable OS-9 More routines for *Multi-View* users, as well as *Strip*, a utility from Stephen Goldberg to help conserve disk space.

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Instructions for Use

This disk is a "flippy," 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 November 1988 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Page	Filename		
NOV	MENU		
016	COBBS		
016	USER		
040	MAPPER	122	BASLOAD
046	STOCKS3	123	REMDemo
053	STOCKS2	147	PICTURES
062	ELECTION	168	SELECTON
074	NOSCROLL	168	BUBBLE
075	FASTDISK	169	SHELL
075	LOADER	170	QUIKSORT
076	ELLIPSE		
076	CENTPEDE		
077	EVENODD		
081	POINTBAS		
081	*POINTBIN	188	Strip
089	*XMRECV.A		
091	*XMSEND.A		
093	XMRECV.S	178	ClkSpd
094	XMRECPK	178	ClkChk
094	XMSEND.S	178	DoMenu
098	XMSNDPK	184	DoAlert
098	FCONV	188	Strip
104	PRESDENT	189	MakeStrip

* Indicates a machine language program.

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