

# 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:

**Tree Puzzle** Enjoy this tree-planting puzzle with a holiday flair.

**Christmas Jazz** Liven up those old melodies to have a hip Christmas and a lively New Year.

**Solitaire 3** Enjoy this latest version of CoCo-ized solitaire, designed for the Color Computer 3.

**EduSpell** The first part of a series developing an extensive spelling tutor.

**Prospector** A gold-digging arcade-style game packed with 50 levels of fast-paced action.

**Novices Niche** Seven quickies to help and entertain you during the holidays.

**DiskOff3** Get more memory from your CoCo 3 without disconnecting your disk drive.

**Education Notes** Create a CoCo alarm clock that teaches the principles of elapsed time.

**ML Made BASIC** Discover more about graphics as Part VI covers line drawing techniques.

**Screen Saver** Eliminate monitor "burn-in" with this handy machine language utility.

**Singing Card** Send electronic greeting cards this holiday season.

**Screen Scrolling** Get rid of slow graphics scrolls, and put these faster routines to work.

**Wishing Well** Let the CoCo help you brainstorm for that next project at school or work.

**Barden's Buffer** Discover the amazing world of pentominoes with Bill Barden.

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

**DMode** A utility from StephenGoldberg that eases the task of changing drive descriptor parameters.

**KISSable OS-9** Use XCodes.CC3 to modify XEd for the CoCo 3 window environment.

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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 December 1988 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Disk BASIC Files		Disk BASIC Files	
Page	Filename	Page	Filename
DEC	MENU	DEC	MENU
024	TREEPUZZ	089	YULELOG
030	HIPMAS	090	TURKISH
038	SOLTAIR3	090	CARDLIST
046	ROMRAM	091	LOCKOUT
046	SETHelp	092	NEWSREEL
047	SPELLER	092	CARDTRIK
049	TAKETEST	093	KEYBOARD
058	*PROS	101	DISKOFF#3
060	PROS1	102	ALARM
072	PROS2	105	BASLINE
077	SCR1N	105	*BINLINE
084	SCRN2	109	*SCRNSAVE
088	MAKEPROS	113	SINGCARD
		118	SCRLEDemo
		120	FASTSCL
		152	BRAINSTM
		170	PENTPUZZ
			<b>OS-9 Files</b>
			read.me.first
			<b>CMDS</b>
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		160	Dmode
		163	MakeDmode
		184	Xcodes.CC3

\* Indicates a machine language program.

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If any manufacturing defect becomes apparent, return the defective disk within 30 days of purchase and it will be replaced free of charge. Please return the defective disk with a letter specifying the problem to RAINBOW ON DISK, The Falssoft Building, P.O. Box 385, Prospect, KY 40059.

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