

# 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:

**Auto Repeat** Repeating characters at the push of a button.

**?Habla Espanol?** Make your CoCo multilingual.

**Shopping Spree** Dodge moving merchandise and collect coupons in this game of skill.

**Tholean Web** Neutralize the force fields before the enemy ships strike.

**EduSpell** Developing a new, talking spelling tutor. Part II: The Dictionary.

**Multi-Res** Transfer PMODE 3 and 4 graphics to the HSCREEN display.

**ML Made BASIC** 3-D rotation and a quicker way to draw lines.

**Wishing Well** Getting the whole picture with a verbal or visual fraction tutor.

**Novices Niche** Seven shorties to entertain and help you learn BASIC programming.

**The Schematic Scoundrel, Revisited** User-friendly symbol rotation for schematics.

**Barden's Buffer** Nine different graphic variances to show a falling object.

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

**Syscall Sounds** Produce sounds using Syscall to call the SS. Tone system call.

**Cls** Clearing the OS-9 text screen to one background color.

**KISSable OS-9** Tie together the Find utilities from last month to locate lost files.

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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.

This month's RAINBOW ON DISK is formatted in such a way that programs for Disk BASIC are on both sides of the disk. The flip side of the disk has been "partitioned" and does hold 31 Disk BASIC files. You may copy these files to another disk manually or backup the entire flip side of the disk.

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. 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 July 1989 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Disk BASIC Files		Disk BASIC Files	
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022	REPEAT	136	BALL7
032	ESPANOL	136	BALL8
036	SPREE	136	BALL9
044	WEBBAS	050	A through Z (26 files)
046	WEBDAT	050	MAKEDICY
046	*WEB		<b>OS-9 Files</b>
056	ROMRAM		read.me.first
056	TAKETEST		<b>CMDS</b>
056	MAINMENU		
058	SPELLER	<b>Page</b>	<b>Filename</b>
063	PUTWORDS	129	Cls
064	SETHelp		<b>SOURCE Directory</b>
065	MAKEDICY	<b>Page</b>	<b>Filename</b>
068	MULTIRES	126	Sound
068	*MISSION	126	TestSound
082	*BINLINE	129	Cls.asm
083	*BINROTAT	141	Locate
085	BASROTAT	145	Fixgfx
092	FRACTION		
103	BOWLING		
104	STORYWRT		
105	TAXTIP		
106	UPDNLIST		
106	LION		
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108	SLOPEFNL		
124	CADMOD		
135	BALL1		
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\* Indicates a machine language program.

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