

# 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:

**Roommate** A program to help roommates organize expenses in a fair, precise manner.

**Super Stamper** Two new PMODE graphics commands for zoom, stretch and rotate effects.

**Font Master** Replace the CoCo 3's built-in HPRINT font with one of your design.

**ML Made BASIC** Delve into the world of machine language graphics.

**New Colors** Add more colors to HSCREEN4 by combining the colors you already have.

**Keyboard Power** Add single-key control and function keys to your CoCo.

**Novices Niche** Five quickies to teach, taunt and delight you.

**Wishing Well** *Opposite Concepts* and *Match Game of Opposites* revamped with more data.

**Warped Animation** Create whirlpools and waves with *Gravitational Grid*.

**Barden's Buffer** Continue the trek to assembly language with a little help from Bill Barden.

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

**KISSable OS-9** Use *FMenu* to find what's on those disks when you need it most. Also, updates for *MVShell* and *Gfx3*. Finally, use *DiskFix* and *FormatFix* from Steve Goldberg to take full advantage of those double-sided drives.



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October  
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*The Color Computer Monthly Magazine*  
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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.

Since this month's RAINBOW ON DISK offers BASIC09 programs, the SOURCE directory will be the only one found on the disk. There is no CMDS directory on this month's RAINBOW ON DISK. To use this month's programs, first boot OS-9 and execute BASIC09. Then, use the `chd` command to make the RAINBOW ON DISK SOURCE directory your current data directory and load the programs into the BASIC09 workspace.

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

Front Side		Back Side	
Page	Filename	OS-9 Files	
OCT	MENU	<code>read.me.first</code>	
016	ROOMMATE	<b>SOURCE</b>	
032	SUPRSTMP	<b>Page</b>	<b>Filename</b>
036	STMPDEMO	152	FMenu
042	FONTMSTR	156	Mod1
042	*CURSFONT	156	Mod2
042	*BOLDFONT	157	DiskFix
050	*PAGER	157	FormatFix
052	NUCOLORS		
054	DEMO		
075	*KEYPOWER		
086	SPOOK		
087	EYECATCH		
087	COPYPIX		
088	COCOPLUS		
089	SLOTS		
091	OPOSITE2		
091	MATCH2		
104	GRAVGRID		
142	*PONGBIN		
142	PONGBAS		

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