

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:

Playin' the Blues Mellow out with the sounds of CoCo after a hard day.

College Costs Prepare a financial plan for when your children enter college.

CoCo 3 Auto-Boot With *Auto3* tell your CoCo 3 to lie quietly while you are gone and "wake up" just before you return.

CoCo Goes Country Discover the sounds of Nashville with *Rockytop*.

Color Composer A music "processor" to help you create and edit your own masterpieces.

Print That Tune Print a custom PLAY statement for the songs entered.

Graphing Great Guitars A real collector's item for guitar buffs from Bill Bernico.

Tank Command Defend your forces in this fast-paced, arcade-style action game.

Novices Niche More than a handful of goodies to start computing on the right key.

Education Notes How well do you know THE RAINBOW? Find out with *Magparts* by Steve Blyn.

Blast From the Past A jukebox of ragtime selections for your enjoyment.

SuperPlay Warm up and smooth out the sound offered by CoCo's PLAY command.

Exercise Your Drives Discover the workings of a disk system by putting the floppy controller through its paces.

Chord Producer Learn those chords and their piano keyboard placement with *Chords*.

Wishing Well Take aim on direct and indirect objects with Fred Scerbo's *Sentence*.

CoCo 3 Potpourri Several mods and patches to enhance your CoCo 3 computing.

Color Catalyst Customize BASIC to suit your personal taste by changing commands, messages and more.

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

Help Is on the Way A BASIC09 utility from Stephen B. Goldberg to allow the addition of help information for Level I, Version 2.00's *he1p* command.

KISSable OS-9 Learn about C/BASIC09 data structures for *Multi-Vue* with *MVShell*. Also, use *Skipmuf*, a PASCAL program, to calculate the radio frequencies you can use to reach any point on Earth at a particular time.

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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.

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 10 Disk BASIC files. You may copy these files to another disk manually or back up 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 BRCKUP 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 June 1988 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Page	Filename	Page	Filename
JUN 024	MENU	JUN	MENU
028	COCOBLUZ	160	CC3PATCH
032	COLLEGE	161	TUNNLMOD
038	AUTO3	171	RAM
046	ROCKYTOP	171	CATALYST
053	SONGWRTR	176	DISK.BAS
057	PRINTUNE	176	CATLYST3
064	GUITARS	177	DISK.3
071	BLITZ1	177	LCPATCH2
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080	MUSICPRO	014	Helpmate
081	LOTTO48	180	MVShell
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096	JUKEBOX		
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108	WAVEDIT		
111	FDCAID		
141	CHORDS		
155	SENTENCE		

OS-9 Files
read.me.first

SOURCE
Helpmate
MVShell
Skipmuf

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