

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:

Tricky Graphics Create graphics invisibly, animate letters and enjoy a game of *Letter Carrier*.

Graphics Programmer Speed up the process of converting artwork into BASIC code.

Super Quiz Use this program to create your own study guides.

Wishing Well Updating and rewriting programs can be a rewarding experience.

Educational Notes Enhance those boring spelling lessons with *Codeword*, a shifty word drill tutor.

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

Desktop, Part III Lessons on saving half-screens for the shoestring desktop publisher.

The Graphics Corner Part III of three in a series showing ways to create color graphics in BASIC and machine language.

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

BASIC09 Utilities Have more information at your fingertips with this utility for updating files.

Kissable OS-9 This month Dale Pucket further explains Robert Moody's *MaxIc*, a *Multi-View*-driven icon editor for OS-9 Level II.

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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. For the protection of the RAINBOW ON DISK master, the disk does not have write-protects 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 systemmaster 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

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

Front Side Disk BASIC Files

Page	Filename
OCTOBER	MENU
022	CARRIER
030	GRAPHPRO
038	DEMO
043	SUPRQUIZ
048	METEOR3
052	CODEWORD
058	MARYNOTE
059	MINICAD
060	SPRAYCAN
061	FRACTMTN
061	JULIASET
062	TIMESHT
064	DHPATCH
064	HTPATCH
065	HEPATCH
068	NEWCOMER
080	NEIGHBR1
080	NEIGHBR2
080	* NEIGHBOR
081	NEIGHBAS

Back Side OS-9 Files read.me.first

SOURCE Directory

Page	Filename
072	Touch
077	Touch.hlp
090	RSDir
091	Display
112	tandy
113	dirfiles
115	getans
116	writefile
117	getname
118	getdir
118	mouser
118	loadicon
119	winset
120	getfile
120	getkey

* Indicates a machine language program.

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