

RAINBOW

The Color Computer Monthly Magazine

ON DISK

January 1990

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:

Saving Variables Protect variables from the whims of BASIC while you're in Edit mode.

Key Edit A keyboard supercharger that helps make the CoCo user-proof.

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

Wishing Well Use *Primary Math Driller* to quiz children in both addition and subtraction.

The Frustrator Watch out for the deadly skulls while trying to outmaneuver CoCo in this strategic board game.

The Mandelbrot Bug Let your computer explore uncharted landscapes in Mandelbrot's world of fractals.

Designing Icons Three utilities to let you create original full 16-color icons.

BASIC Training Achieve in-place animation in your graphics designs by quickly substituting images in eight or twelve locations.

Stationery Station A simple program that creates personalized stationery on a DMP-105.

Gravity An educational game that provides practice and simulation in one of the most fundamental concepts of Newtonian physics.

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

Calendar CoCo will help you organize your life with reminders of important dates stored in a calendar.

BreakPoint Here is a utility to locate lost disks painlessly.

Label A utility to print a label or two that remains available like any OS-9 command.

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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.

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`

Front Side Disk BASIC Files	
Page	Filename
JANUARY	MENU
014	VARKEEP
028	KEYEDIT
030	WHATDAY
031	COPY
032	BOXMENU
032	MOON
034	CONVERT
036	RAINBOW
037	MEMOMAKE
038	SMASH
039	QGRASS
043	DRILLER3
073	FRUSTRAT
080	MANDEL
083	DESIGNER
086	CREATSET
086	ICONGRAB
089	LISTING1
090	LISTING2
090	LISTING3
108	STATION
114	GRAVITY

Back Side OS-9 Files	
calendar file	
CMDS Directory	
Page	Filename
046	calendar
053	curr_cal
055	createfile_cal
110	label

SOURCE Directory	
Page	Filename
046	calendar
053	curr_cal
055	createfile_cal
056	vol
110	label.c

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