

RAINBOW

The Color Computer Monthly Magazine
ON DISK

January 1991

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:

Disk Master 3 Seven menu-driven utilities allowing you to take control of your disk system on a CoCo 3.

Border Color Change A simple utility that allows you to greatly enhance your CoCo 3 screen displays.

Education Notes This month's program reviews the life-skill math problem of buying multiples of stamps and postcards at a post office.

Wishing Well This program concentrates on the relationship between different fractional parts and uses graphics to demonstrate the concept.

Coloring Draws overlapping boxes and circles on the screen that you can color and paint.

Directory Alphabetizer Arranges all filenames in a disk directory in alphabetical order.

In the Name of Equality A mathematical game similar to *Scrabble*.

Fishing for the Right Words Fishbowl encourages you to let your creative juices flow by creating a poem from 12 randomly generated words.

Pie Plotter Allows CoCo 3 users to draw multi-color pie graphs from raw data.

Directory Lister Sends the directory listing of a disk to the printer.

The OS-9 "flip" side of this month's RAINBOW ON DISK includes:

Weights & Measures Allows you to quickly convert from one type of measurement to another.

BreakPoint Three sample programs to demonstrate the principles of opening, creating and determining the existence of files.

Append A multi-function utility that can be used as a replacement for both `build` and `merge`.

Module Buster A utility that breaks down files of merged modules.

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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.

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`

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 January 1991 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename	read.me.first	
JAN	MENU	CMDS Directory	
012	CONFIG	Page	Filename
012	BOOT	052	test_1
014	* EDIT.SYS	054	test_2
016	* LIST.SYS	054	test_3
018	* TEST.SYS	068	Append
020	* TRAK.SYS	SOURCE Directory	
021	* COPY.SYS	Page	Filename
022	* KILL.SYS	030	Measure.b09
022	* SORT.SYS	052	test_1.c
024	BORDER	054	test_2.c
024	+ BORDERA	054	test_3.c
035	MAIL	068	Append.asm
040	VISFRAC2	071	Make_Append.b09
044	COLORING	094	Bust.b09
055	DIRALPHA		
062	EQUALITY		
064	FISHBOWL		
084	PIECHART		
086	DIRLIST		

+ Assembly Language Source

* These files are not stand-alone — they are designed to be run with the *Disk Master 3* system. Also, they must have a .SYS extension.

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If any manufacturing defect becomes apparent, return the defective disk within 30 days of purchase and it will be replaced free of charge. Please return the defective disk with a letter specifying the problem to RAINBOW ON DISK, The Falsoft Building, P.O. 385, Prospect, KY 40059.

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