

October 1987

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:

Horror Have a frightfully good time with this Halloween-oriented quiz.

Screen Scroller Use this technique by Bill Bernico to scroll those graphics out of the way.

The Queens Quarrel Can you place eight queens on a chess board so none can kill another?

CoCo 3 Screen Dump Three screen dump routines to produce excellent copies of your CoCo 3 Mode 1 and 3 graphics.

Electrifying Graphics Learn how to make those pictures move.

Graphics Transfer Move your graphics files from disk to tape and vice-versa.

Desktop Publisher Finally, a desktop publishing system for your CoCo. Works on the CoCo 1, 2 or 3!

Novices Niche A paletteful of graphics quickies . . . and then some!

Education Notes Win big on the gridiron and learn at the same time with *Blitz Quiz*.

CoCoDraw Update The complete CoCoDraw system with a new and improved joystick handling routine.

Initially 3-D This short routine allows 3-D initials on the Hi-Res screen.

CoCo Talks Back Let your CoCo, along with a Speech/Sound Pak, help you debug those long listings.

Animation Film Festival Discover the power of multi-screen animation on your CoCo's Lo-Res screen.

Family Tree Part II The final listings for this CoCo 3-based genealogy program.

Wishing Well See if your language skills [is, are, were, be] current with *Conjugate Instructor*.

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

Compressed Files *Unpress*, by Peter Dibble, allows you to decompress files after using last month's *Compress* utility.

KISSable OS-9 Dale Puckett offers *KISSDraw2*, a continuation of his coverage of graphics on the CoCo 3 under OS-9 Level II.

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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 six 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 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 1987 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Page	Filename	Disk BASIC Files	
OCT	MENU	Page	Filename
022	HORROR	OCT	MENU
027	SCROLL	145	FAMILY
029	QUEENS	156	CHART
032	SCRNDMP	160	VERBTEST
036	SCRNDMPS		
038	LP78DMPS		
039	TESTSCRN		
046	ENERGY		
050	GRAFTRAN		
063	DESKTOPL		
068	DESKTOPH		
072	GENFONT1		
075	GENFONT2		
078	FUNFACE		
079	MARTIAN		
080	COCOART	164	Unpress
081	MIRORPIX	177	KISSDraw2
082	P178&GL		
082	WINDCHIL		
083	FOOTBALL		
095	CCBLITZ		
099	MENUGEN		
099	COCODRAW		
103	3DLETTER		
107	READPROG		
118	ANIMATE		
124	PICTBOOK		

OS-9 Files

read.me.first

SOURCE

Page	Filename
164	Unpress
177	KISSDraw2

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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. Box 385, Prospect, KY 40059.

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