

February 1988

## 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:

**BASIC for Beginners** Use this fledgling database program from Part 3 of this series.

**CompuMatch** Let *Match* and *CoCo* work together to match people who give similar responses on questionnaires.

**The Controllers** This *CoCo 3* graphics Adventure is the Grand Prize winner of the Fourth Adventure Contest. Save the world from thought control!

**Castle of Death** 16K Best of Show winner! Search the castle in your quest for the lost South American jewels.

**Education Notes** Steve Blyn offers *Shopping* as a continuation of his expense estimation series.

**Novices Niche** Several quickies — some for fun and some to save you a little work.

**The Color Gallery** These three programs by Eric White allow viewing PMODE3 and PMODE4 pictures in your choices of color on the RGB monitor.

**Wishing Well** Create super tests with this program from Fred Scerbo.

**Valentine's Card** Your very own onscreen Valentine's card — although it might be difficult to put in the mail!

**Address Finder** This program by Dennis Weide will help determine the start, end and transfer addresses of disk-based machine language files.

**Color Patch** Use *Patch* on those unprotected machine language programs to allow the artifact colors to shine through on the RGB monitor.

**Hi-Res Joystick Driver** This machine language routine allows the use of the Hi-Res Joystick Interface from Radio Shack for BASIC programs.

**The Big Switch** Reverse will help turn around PMODE4 pictures for printing T-shirt iron-ons.

**ABC Revisited** This new version of *ABC* (September 1987) features speech with the Radio Shack Speech/Sound cartridge.

**Hacker's Haven** Several small utilities designed just for the insistent programmer, but anyone can use them.

**Barden's Buffer** Create and travel through a three-dimensional maze.

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

**KISSable OS-9 KISSColor**, a new procedure for the *KISSDraw* series which allows changing colors on 4- or 16-color screens.

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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 11 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 February 1988 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Page	Filename	Disk BASIC Files	
FEB	MENU	Page	Filename
026	DATABASE	FEB	MENU
032	MATCH	143	ABC
045	CONTROL	157	AUTOEXEC
048	CNTRL	158	*PEELPCLS
068	CASTLE	158	SAMPLE
076	SHOPPING	159	SAVE&RUN
078	AQUARIUM	159	*CRUSH
079	CALC	162	LOADER
080	DIRALPHA	162	*WORDFIND
080	DIRPRINT	179	NEWMAZE
081	ASCIREAD	180	FINDMAZE
086	CHANGER		
088	GALLERY		
089	PALPRINT		
096	SUPRTEST		
101	VALNTINE		
109	ADREBAS		
110	ADRESPAS		
110	*ADRESPAS		
115	PATCH		
117	LOOK		
124	HIRESJOY		
127	REVERSE1		
127	REVERSE2		
127	REVERSE3		
128	REVERSE4		
128	*REVERSE4		

#### OS-9 Files

read.me.first

#### SOURCE

188 KISSColor

\* Indicates a machine language program.

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