RAINBOW
The Color Computer Monthly Magazine
ON DISK

October 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:

Turn of the Screw Learn as you burn with the assembly-language source code for Tony DiStefano's EPROM programmer.

Pyramid 2 A fun-to-play version of Pyramid solitaire for the CoCo 1 and 2.

Cable TV Create your own listing of the local cable-TV channels to tape to the back of your TV's remote control.

A Color Doodler Draw lines of any length, at any angle, and in any of 15 different colors, anywhere on the screen.

Vocabulary Aid Use this hands-on approach to learn correct word spellings and definitions.

Indians A graphics/music program that plays the song "Ten Little Indians."

The Assembly Line Drop a pebble and watch the waves.

Music Tutor Use this teaching utility to learn notes on the musical staff and the keys on an organ.
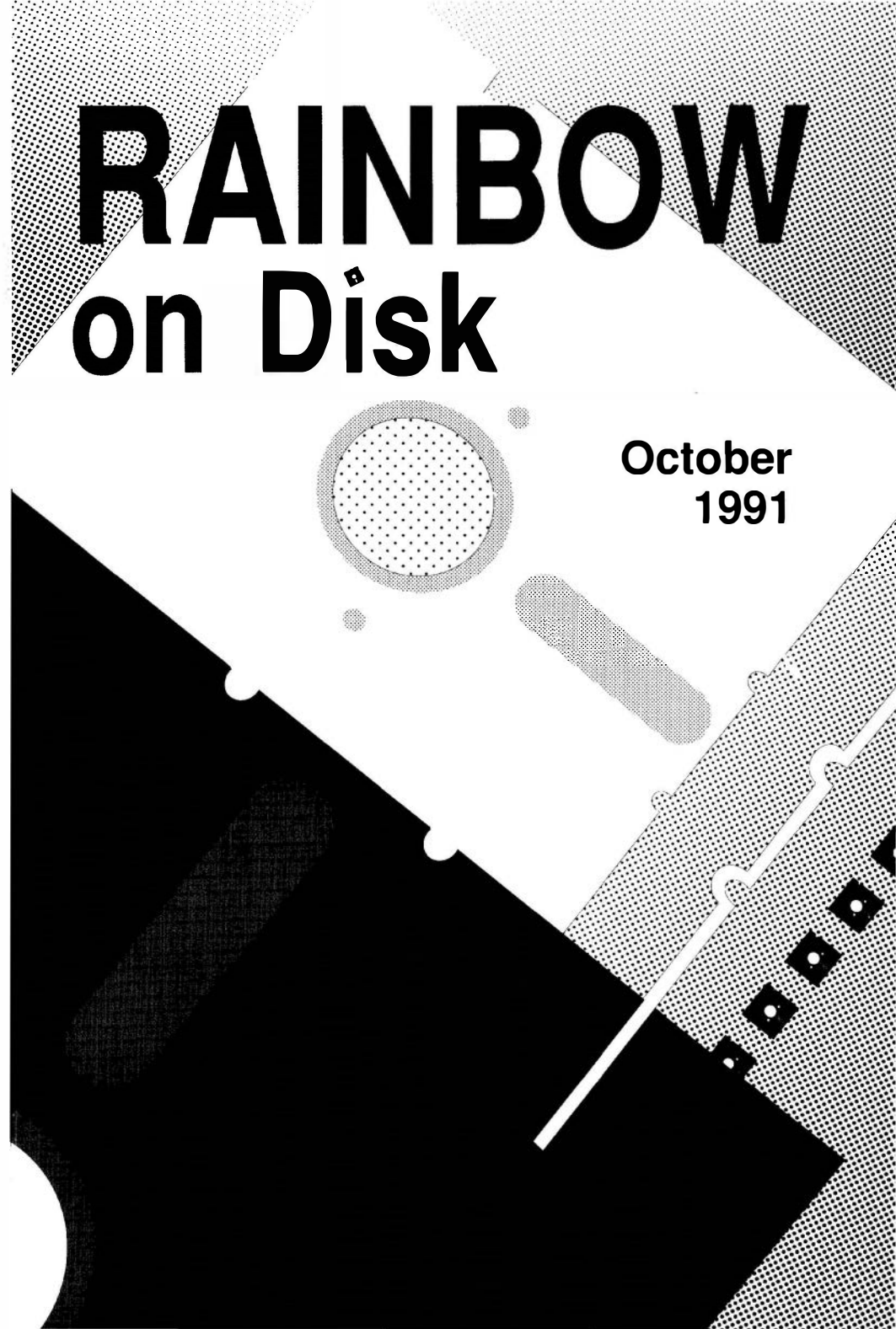

The OS-9 "flip" side of this month's RAINBOW ON DISK includes:

Making the Move Use Bob Santy's *RSDOS* utility to transfer files between Disk BASIC and OS-9 disks.

Easy Display An enhanced OS-9 `display` command that accepts decimals.

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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 October 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
OCT	MENU		**CMDS Directory**
019	+EPROM	**Page**	**Filename**
026	PYRAMID2	048	Display
036	CABLETV		**SOURCE Directory**
037	CLRDUDLR	**Page**	**Filename**
038	VOCABLRY	048	Display.asm *
040	INDIANS	050	MakeDisplay.b09
045	WAVES1		
046	WAVES2		
046	* WAVES		
046	+WAVES		
060	NOTETUTR		

* Machine-language program
+ Assembly-language source

The files for rsdos, as discussed in Tim Kientzle's article "Making the Move," are provided on RAINBOW ON DISK courtesy of Bob Santy. List the RSDOS.doc file in the RSDOS/DOC directory to learn more about this shareware file-transfer utility.

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