RAINBOW

The Color Computer Monthly Magazine ON DISK

March 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:

Credits Use this routine in your own program to create a scrolling list of credits. **Blackjack** Prepare yourself for the excitement of high-speed card playing and the loss of money (unless you're lucky).

CoCo Data Logger CoCoDL allows you to monitor practically anything that turns on and off more than a few times per minute, or most anything that can be connected to the joystick port.

Visualizing Fractions 4 The latest version of Visualizing Fractions offers the next logical step in the progression — the representation of fractions as percentages.

Ohm's Law A handy tool for both textbook studies and the workbench for calculating resistance, current flow, voltage and power in electronic circuits. **The Assembly Line** Warp those pictures by moving some of the points to

slightly different locations, twisting and warping the overall image.

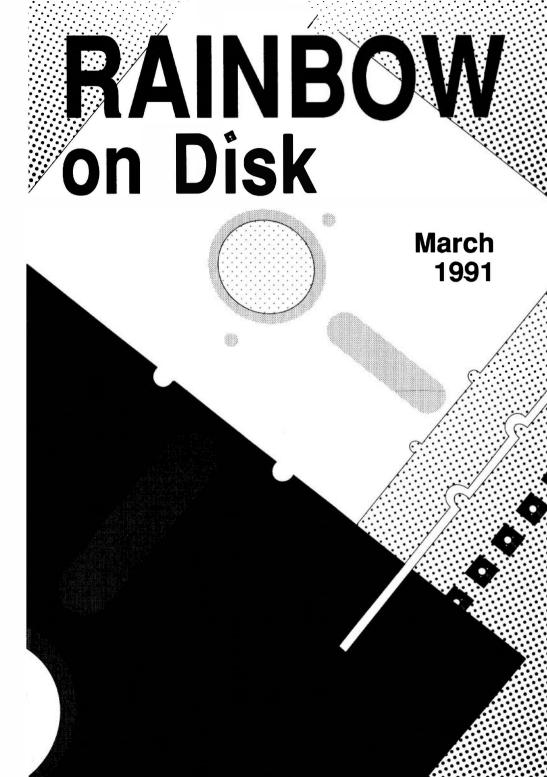
Craps A computer game based on the dice game of the same name. But instead of rolling the dice yourself, the computer rolls the dice for you.

Graphics Experiments A program to help teach you graphics programming in HSCREEN graphics modes.

The OS-9 "flip" side of this month's rainbow on disk includes:

Sort An in-memory sort program that is used to sort items found on single lines in a text file.

BreakPoint A utility that formats a specified number of disks automatically so you don't have to manually run format repeatedly.



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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-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. BASICO9 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 ${\tt chd/d0}$ 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 ${\tt chd/d1}$ 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 RAINBOWON 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 March 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	
MAR	MENU	CMDS Directory	
009	CREDITS	Page	Filename
011	BLAKJACK	029	sort
018	COCODL		
020	VISFRAC4	SOURCE Directory	
043	OHMS-LAW	Page	Filename
052	WARP1	029	sort.asm
052	WARP2	030	MakeSort.b09
054	+WARP	073	auto.b09
054	* WARP		
057	CRAPS		
078	HSCR4EXP		

- * Machine-language program
- + Assembly-language source

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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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