RAINBOW
The Color Computer Monthly Magazine
ON DISK

June 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:

Note Writer 2 x 40 An enhanced version of *Note Writer* that allows you to print an 80-column letter with two side-by-side, 40-column screens.
Hi-Res Art Pie A fun program that draws a pie on the screen to demonstrate artifact colors on HSCREEN4.
Car Quest A spin-off of the license plate game that prints a checklist with all 50 states.
Slot Machine Let Las Vegas comes to you with your very own slot machine.
BASIC+ A revolutionary evolution to CoCo 3 BASIC that provides reset protection, additional commands such as REPEAT/UNTIL, SWAP and WAIT, and wildcards that can be used with DIR.
Ultralace, the Second Loop The *Ultralace* saga continues with the Designer menu and printer dump creators.
Barden's Buffer Use this short machine-language program to sort the 32-column screen.
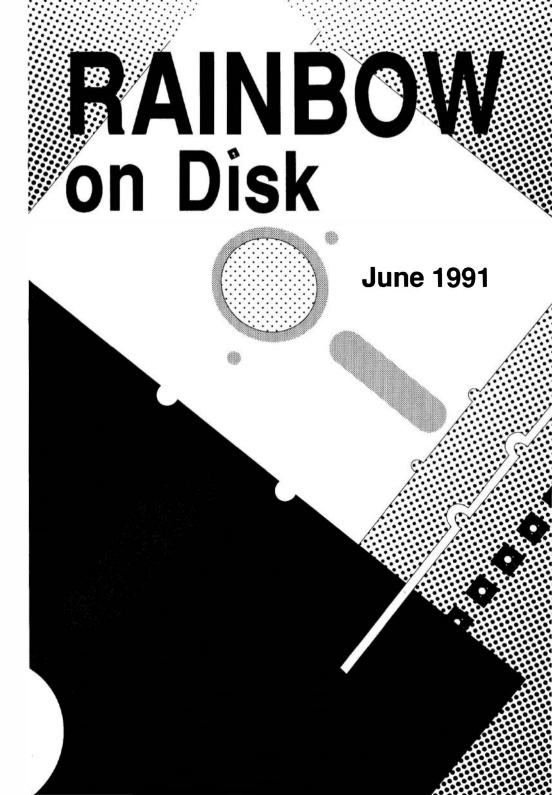**Make or Break** Have you ever wanted to have more than the Joneses? Well now's your chance with this money-strategy game for up to four players.
The Assembly Line Create your own word-search puzzles where words are hidden in a large grid surrounded by random letters. The words can be positioned horizontally, vertically, diagonally, forward or backward.

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

BreakPoint Sample programs to demonstrate writing graphics functions in the C language.
OS-9 Assembly Language Several routines that demonstrate writing assembly-language programs and interfacing assembly-language programs with BASIC09.

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

Front Side
Disk BASIC Files

Page	Filename
JUN	MENU
016	NOTE2X40
018	HIRESPIE
020	CARQUEST
020	SLOT
035	MKDAT
036	MKMOD
036	@ RESET
036	@ FIXES
036	@ ERROR
036	@ CMDS
037	@ UTIL
038	@ DISK
038	@ COPY
038	@ DIR
038	CONFIG
039	# SAMPLE
039	TPL
039	UNLOAD
054	GENDMENU
056	GENSTR
056	GENMLT
057	GENMLE
062	SORTDRV
062	* SORT
062	+ SORT
065	SCREEN51
066	MAKEBRAK
077	WORDPUZL
077	* WDPUZZLE
077	+ WDPUZZLE

Back Side
OS-9 Files
read.me.first
CMDS Directory

Page	Filename
045	demo
049	IntAdd
050	ParamDump

SOURCE Directory

Page	Filename
029	BColor.c
029	Bar.c
029	BoldSw.c
029	BoldSw1.c
029	Reverse.c
030	GPLoad.c
030	GPLoad1.c
045	first.a
045	second.a
045	demo.a
046	AsciiConv.a
048	RegisterDump.a
049	AddInteger.a
050	ParamDump.a
050	Tester.b09
050	ParamTest.b09

+ Assembly-language source
* Machine-language program
# This file must be saved on the BASIC+ disk in ASCII format as SAMPLE.CFG.
@ These files must be saved on the BASIC+ disk in ASCII format with an extension of .DAT. The assembly-language source is also included on disk for these files with the exception of RESET.ASM, which appears on next month's disk.

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