

RAINBOW

The Color Computer Monthly Magazine

ON DISK

April 1990

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:

Icarus Help Icarus through three levels of penguin perils in this CoCo 3 arcade game.

Calculator Turn CoCo into a printing calculator.

The Golden Retriever A free form program to let you create unique databases.

Barden's Buffer Take your files for a spin with this rotary file organizer.

Novices Niche Six shorties to entertain and help you learn programming.

Form Maker A program for creating forms on IBM-compatible printers.

Bar Graph A 3D bar graph program for charting numeric information.

Digital Logic Analyzer (Part II) Here is the software required to use your new logic analyzer.

Education Notes Fun with phonics.

BASIC Training The continuing saga of string manipulation to produce amazing graphics.

The File Handler Add some spice to your file handling with a wildcard copy command.

Price Check Markups and discounts are made easy with this number juggling routine.

Wishing Well A graphics program that helps new music students learn to read music.

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

Volume Profit Analysis Marketing analysis utility to help determine break-even point.

BreakPoint Tutorial explaining differences between the rma assembler and the standard assembler. How to convert files to the rma assembler.

Kissable OS-9 Using new gfx2 routines to recreate an older finance program.

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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 a ?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 April 1990 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side Disk BASIC Files

Page	Filename		
APR	MENU	108	+COPYASM
014	PENGUIN	108	*COPYASM
018	DEMO	109	COPY
022	CALCULAT	109	ALLRAM
026	COLRBASE	116	MARKUP
032	CONFIG	118	MUSIC102
040	R*L*D*X		
048	WATER		
048	SPIDERS		
049	AGENDA		
050	CHASE		
050	BIRD		
051	FALLING		
065	FORMAKER		
068	3DGRAPH		
080	ANALYZER		
082	+ZEROPUF		
082	+MOVESRAM		
084	FACTOR		
084	TESTBAS		
084	+TESTBIN		
085	VOWELS		
088	WINDMILL		

Back Side OS-9 Files

read.me.first

CMDS DIRECTORY

Page	Filename
044	cost
114	nice
SOURCE DIRECTORY	
044	cost.pas
052	MVFinance
114	nice.a

+ Indicates an assembly language source file.
* Indicates a machine language program.

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