

RAINBOW

The Color Computer Monthly Magazine
ON DISK

February 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:

Home Budget Analyst 4.0 CoCo lets you record and maintain your personal budget, estimate income and expenses for future budgeting periods, view future account balances, and more.

Neat Labels A program to retain a list of addresses in data lines and print any or all of them on 4½-by-1½ fanfold labels.

Jumpman A BASIC game that uses intricate techniques to move objects and scroll the screen.

Loans Quickly determine monthly payments and interest on loans or mortgages.

The Assembly Line An educational program that draws Mandelbrot and Julia sets.

Bank Account A simple program to help balance your checkbook in the manner suggested on most bank statements.

Wishing Well CoCo helps students become more familiar with decimal versions of fractions.

Quick Directory Sorter A machine-language program to sort your directories quickly and easily.

Bond Calculator Calculates the current yield and yield to maturity for bonds.

Timer A simple countdown timer/stop-watch program.

Solid Foundation in Chemistry A program that aids in the learning of chemistry basics.

Darts A game allowing you to play the Tactics and 501 versions of darts.

Weights on Other Planets Discover what you'd weigh on the sun, moon, or any of the planets in our solar system.

Body Mass A simple program that calculates your body mass and indicates whether you are underweight, at optimal weight, are overweight, or are obese.

Note Writer A short program for writing quick notes and memos without loading a word processor.

Automatic Error Entry A short routine that causes BASIC to automatically enter Edit mode when an error is encountered.

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

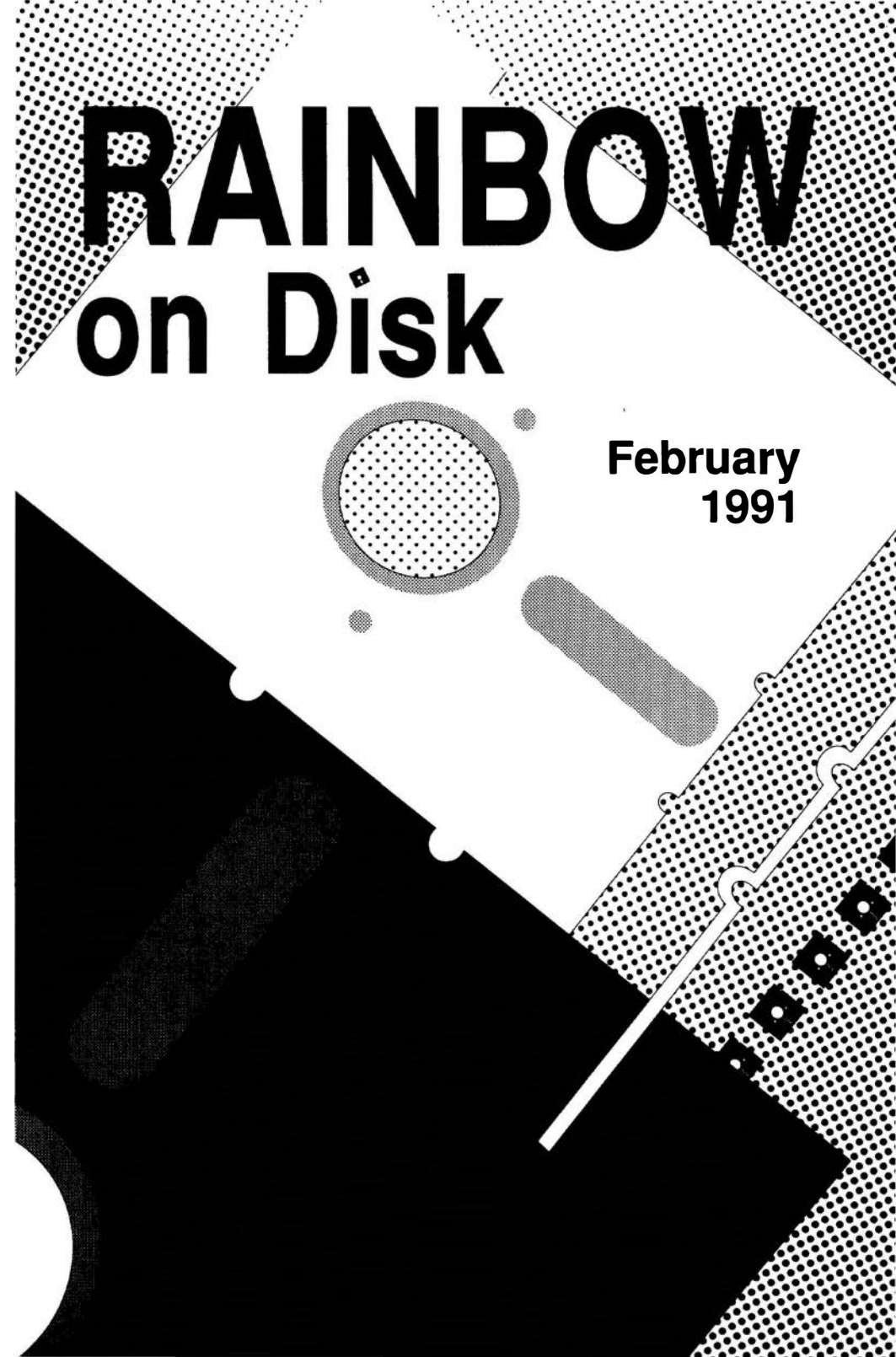
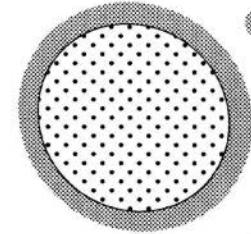
BreakPoint A simple program to help you experiment with low-level data input from various devices.

Appreciatin' Depreciation A program to help calculate yearly depreciation on equipment.

A Tree Grows in OS-9 Displays the names of all the files on a disk, with graphics depicting the directory tree on a text screen.

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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 February 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		
FEB	MENU		read.me.first
014	BUDGET	CMDS Directory	
024	LABELS	Page	Filename
029	JUMPMAN	023	read_test
029	LOANS	050	Depreciate
032	MANDEL1	063	Tree
032	MANDEL2	SOURCE Directory	
034	* MANDEL	Page	Filename
034	+ MANDEL	023	read_test.c
038	BANK	047	Depreciate.b09
040	VISFRAC3	050	Depreciate.c
054	DIRSORT	063	Tree.asm
058	BONDCALC	065	MakeTree.b09
060	TIMER		
066	CHETUTOR		
085	DARTS		
090	WEIGHTS		
091	BODYMASS		
092	NOTERITE		
092	AUTOERR		

- * Machine Language Program
- + Assembly Language Source

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