

January 1988

RAINBOW

The Color Computer Monthly Magazine

ON DISK

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:

Urchins Venture into the land of the blackboard erasers, sea urchins and letters of the alphabet.

BASIC for Beginners The second part in the series covering the BASIC language.

Clowns Make a face! Put together all 120 combinations.

Education Notes Use *Fastfood* to learn/teach the principles of estimating expenses.

Usetown Annex Here's your chance to be the city planner. Can you satisfy the needs of the community within the budget?

Novices Niche Fourteen quickies running the spectrum from music to blankets.

Wishing Well Learn to avoid sentence fragments with this offering from Fred Scerbo.

BASIC Training Create a smidgen of this and that using personal perspective.

Appointment Calendar Print your own personal yearly schedule with *Calendar*.

Job Description Let this management program help your company minimize personnel costs by creating job descriptions.

Tax Information Prepare for Uncle Sam this time around.

Doctor ASCII Patch will alter *Disk EDTASM+* for operation on the CoCo 3 in 80 columns.

Barden's Buffer Delve into the world of the disk with *Diskdump*, *Diskdir* and William Barden as guides.

The OS-9 files on the "flip" side of this month's RAINBOW ON DISK include:

KISSable OS-9 The complete set of routines for *KISSDraw*, a drawing program for the CoCo 3 under Level II by Dale Puckett

Screen Save/Dump The finishing touches allow loading compressed graphics files under Level II.

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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. You are able to back up the OS-9 formatted side of the disk under Disk BASIC. 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. 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/cmcs/ filename /d0/cmcs/ 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/cmcs/ filename /d0/cmcs/ 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 January 1988 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Page	Filename	OS-9 Files	
JAN	MENU	read.me.first	
036	URCHIN		
040	GOSUB	CMDS	
040	COCOCALC	Page	Filename
174	SOLUTION	177	RLExpnd
045	CLOWNS	SOURCE	
054	FASTFOOD		
060	USETOWN	161	PipeIt
072	MUS1	162	KISSdMenu
072	MUS2	164	KISSDrawFill
073	LINEDRAW	166	SetUpMouse
073	AIRPLANE	166	WhichTool
074	PLAID	169	DoEvent
074	PUZZLE	170	KISSDrawBox
076	HITME	171	KISSDrawLine
078	COLORMIX	172	KISSDrawCircle
078	SMOOTHY	173	KISSDrawEllipse
080	COLRTEST	174	KISSDrawBar
080	BIRTHDAY	175	KISSFreehand
082	TYPER	NL	KISSDrawPut
082	PAYMENTS	NL	GetKISSMouse
084	COCOSAVR	NL	SavePix
091	SENTENCE	NL	LoadPix
098	ODDSENDS	NL	PreviewPix
098	ZIGZAG	NL	ErasePix
102	CALENDAR	NL	HandleMenu
108	JOB DESC	NL	KISSDrawArc
121	TAX	NL	KISSHandleText
121	TAXINFO	177	GetImage
128	*REVFIELD	178	UnPress
155	SETUP	178	PutBuffer
186	PATCH	178	MakPipe2
187	DISKDUMP		
	DISKDIR		

* Indicates a machine language program.

NL indicates that the program is not listed in the magazine.

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