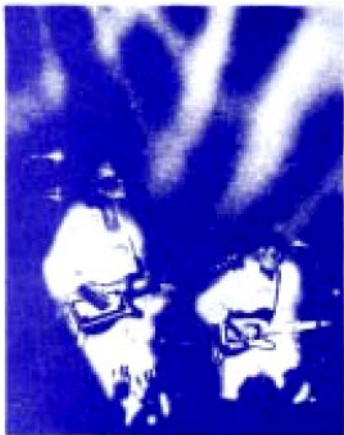


If any manufacturing defect becomes apparent within 30 days of purchase, the defective cassette will be replaced free of charge. Please return your tape with a letter specifying what is wrong with it.

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6655 Highland Road
Pontiac, MI 48054

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RAINBOW

on tape

Your very own Pot O'Gold
under the Rainbow for

JUNE 1984

June 1984 Rainbow On Tape

Page	Name	CTR-81	CTR-80
	MENU	2-6	4-10
19	PIANO	7-16	11-24
24	TONE ROW	17-22	25-34
28	LAYOUT	23-34	35-50
57	* CLOVER	35-42	51-59
57	* JOPLIN	43-49	60-69
61	WINDOW	50-56	70-77
65	ELECTION	58-61	78-83
67	OVERTURE	62-64	84-86
69	LOCOCOCO	65-70	87-93
77	MUSI1812	71-94	95-119
BONUS	CTRYROAD	95-103	120-128
89	DOODLER	104-106	129-131
94	BASEBALL	108-150	172-171
108	SCRNQUIZ	151-157	133-177
110	QUIZMAKR	158-165	178-183
121	NUMBERS	166-169	184-186
130	VOTRAX	170-172	187-189
132	CLASSICS	173-186	190-199
142	BANDY1	187-197	200-208
144	BANDY2	198-209	209-216
160	CONNECT4	210-215	217-220
164	GUITAR	216-242	221-238
176	TYPESET	243-250	239-243
181	CHORDS	251-265	244-252
185	MUSIC	266-276	253-258
206	WALPAPER	277-280	259-261

* Machine Language Program

Check the accompanying articles in **RAINBOW** on using each program. These programs may not run on your system. Please check each program in the magazine for system requirements.

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The RAINBOW
on tape

Your very own Pot O'Gold
under the Rainbow for

NOVEMBER 1984

November 1984 Rainbow On Tape

Page	Name	CCR-81	CTR-80
NOV	MENU	11— 15	16— 23
023	EZ LIST	16— 19	24— 28
031	MSGCENTR	20— 26	30— 38
037	ROADRACE	27— 33	39— 48
045	PATCH	34— 38	49— 54
048	INITMEMB	39— 40	55— 57
048	EDITOR	41— 42	58— 59
048	SYSOP2	43— 47	60— 65
052	CC TALK	48— 51	67— 70
059	CCTLOAD	52— 58	71— 79
085	WORDGAME	59— 63	80— 85
092	JNKFOOD1	64— 72	86— 95
094	JNKFOOD2	73— 80	96—104
095	JNKFOOD3	81— 88	105—113
099	JNKFOOD4	89— 95	114—120
101	HANDLER	97—127	122—150
117	CLOADMOD	128—130	151—152
132	PERSAVE	131—139	154—161
144	DOSSTART	140—143	162—164
147	CWC5V10	144—157	165—176
147	CWC5V11	158—171	177—187
148	DATESET	172—176	188—191
169	JINFILE	177—197	192—206
179	FOOTBALL	199—229	207—226
247	DATABASE	230—242	228—235
256	GUIDE	243—247	236—238
273	*DEADRECK	248—275	239—255

* Machine Language Program

Check the accompanying articles in **RAINBOW** on using each program. These programs may not run on your system. Please check each program in the magazine for system requirements.

Special Note: When using *CWC5V10* or *CWC5V11*, *LIST* the program and follow the instructions given at the beginning of the listing.

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The **RAINBOW**
on tape

Your very own Pot O'Gold
under the Rainbow for

FEBRUARY 1985

February 1985 Rainbow On Tape

Page	Name	CCR-81	CTR-80	Page	Name	CCR-81	CTR-80
FEB	MENU	12-20	19-30	134	DISPLAY3	127-128	150-151
036	PENGUIN	22-31	33-45	134	DISPLAY4	130-131	152-155
045	WEFAX	33-42	48-59	135	DISPLAY5	134-136	156-158
065	COMP SHOF	44-48	61-67	135	DISPLAY6	138-140	160-162
070	SPACRACE	50-62	69-84	135	DISPLAY7	142-144	163-165
077	CUPID	64-76	86-99	144	COCOPADD	146-150	166-170
105	BS OCG	78-91	102-115	161	MERGE	153-155	173-174
109	DRIVER	94-95	118-120	165	COCOMON	157-166	176-183
112	*SCREEN51	97-100	122-124	175	DSKMERGE	168-172	184-189
116	*FIND	102-103	127-128	240	SENTENCE	175-178	190-192
*22	MATH LAB	105-118	130-141	240	BONUS	180-184	194-197
133	DISPLAY1	120-121	144-145	246	BAZAAR	186-198	198-207
134	DISPLAY2	123-125	146-148	281	*BIN TREE	201-215	209-219

*Machine Language Program

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Special Note: To exit from the RAINBOW ON TAPE MENU, press the (up arrow) key. You may have to press it several times until the screen clears. After using any machine language program (including some BASIC programs), turn your computer off and back on or type *POKE 113,0:EXEC 40999* to clear it before loading another program.

RAINBOW On Tape
P.O. Box 506
Waterford, MI 48095

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the RAINBOW[®]
on tape

Your very own Pot O' Gold
under the Rainbow for

OCTOBER 1985

October 1985 Rainbow On Tape

Page	Name	CCR-81	CTR-80	Page	Name	CCR-81	CTR-80
OCT	MENU	9-17	14-27	073	PUZLMAKR	113-124	137-147
018	LINEDRAW	19-21	29-32	085	RADIALS	126-129	149-152
019	SPEAK2ME	23-27	34-39	085	DANCE	131-133	154-156
019	CHARLIE	29-30	41-45	088	64KDRVR	135-141	158-162
020	KROMICO	32-36	47-52	088	*SOUND	143-145	164-165
021	HANOI	38-41	54-58	118	FISH	147-148	167-168
021	RCIRCSIN	43-45	60-63	109	*F	150-152	170-172
024	BALL	47-50	65-69	BONUS	*FLARGE	154-162	174-180
028	ELEVATOR	52-55	71-75	128	SNDSTORY	164-172	182-187
031	BYTECODR	57-64	77-87	134	COCOCAD	174-202	189-209
038	NONINER	66-70	89-92	148	CADPRINT	204-209	211-214
046	PUNQUIZ	72-76	95-100	151	REMOVREM	211-214	216-218
060	ANIMATE	78-86	102-111	164	HEART	216-234	220-231
060	DEMO	88-92	113-116	168	HELPDRAW	236-245	233-237
067	ZONX	94-111	118-135	176	MESSAGE	247-250	239-241
				182	NMBRBMPR	252-260	243-246

*Machine language program

Check the accompanying articles in RAINBOW magazine for instructions on loading and using these programs. (The corresponding page number is noted for your convenience.)

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(While many program listings from THE RAINBOW may be slightly modified and typed in for use on Dragon and MC-10 computers, RAINBOW ON TAPE will not run on these machines.)

RAINBOW On Tape
The Falsoft Building
P.O. Box 385
Prospect, KY 40059

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RAINBOW®
on tape

Your very own Pot O' Gold
under the Rainbow for

FEBRUARY 1986

February 1986 Rainbow On Tape

Page	Name	CTR-80	CCR-81 and 82
FEB	MENU	8-25	5-16
020	VALPRINT	27-36	18-23
023	VALNAME	38-43	25-28
028	PIXFILES	45-56	30-38
032	CRASHPRF	58-64	40-44
037	DISKMENU	66-71	46-50
039	DEBUG	73-79	52-56
041	MEMDUMP	81-83	58-60
045	*CRUN	85-86	62-63
046	INSTALL	88-90	64-66
046	TAPEDIR	92-96	68-71
056	CLOCKBAS	98-100	73-74
056	*CLOCK	102-103	76-77
060	BUBBLWAR	105-110	79-83
067	*MEMDIAG	112-114	85-87
096	FILESRCH	116-124	89-97
102	LOADER	126-129	99-102
103	CADPRINT	131-133	104-106
108	RESTORE	135-136	108-109
117	ROBOCISE	138-144	111-117
135	WHO AM I	146-149	119-123
146	TIN EAR	151-153	125-127
147	KOLAROLA	155-157	129-131
150	SUBTRACT	159-166	133-141
162	SUPERCLS	168-172	143-148
166	SOUND 2	174-178	150-155
167	SOUNDGEN	179-181	157-159
172	XREF	183-190	161-170
182	COMMANDO	191-204	172-188

*Machine language program

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RAINBOW

OCTOBER
1986

THE COLOR COMPUTER MONTHLY MAGAZINE

ON
DISK

RAINBOW

The Color Computer Monthly Magazine

ON DISK

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.

Some issues of **RAINBOW ON DISK** may be partially formatted under Disk BASIC on the back side as well as the front. You should check both sides of the disk using Disk BASIC's DTR command for this occurrence.

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.

If you are running OS-9, you will find a READ.ME.FIRST file in the root directory. You should LIST this file to your screen or printer for information about the structure of the OS-9 side of the disk.

The Disk BASIC side of the disk is 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.

Many of these programs require special loading instructions and other information necessary to the proper functioning of the program.

ZOOM1.BAS is the actual ZOOM program. ZOOM2.BAS, ZOOM3.BAS and ZOOM4.BAS are modifications. Therefore, they are saved in ASCII on the **RAINBOW ON DISK**. Because of this, you may just MERGE them with ZOOM1.BAS in memory and run them.

For complete instructions regarding each of the files on **RAINBOW ON DISK**, refer to the October 1986 edition of **RAINBOW** magazine.

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

October 1986

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The disk is specially formatted and contains both BASIC and OS-9 operating system programs.

This edition of **RAINBOW ON DISK** includes:

Bombs Away, a graphics game to take you back to the days of Patton.

Halloween Adventure, a ghoulish combination of graphics, treats and plenty of trickery.

Tunnel and Wheel, two programs using PALETTE to create graphics on the Color Computer 3.

Graphic Alterations, use ZOOM to shift, reduce, stretch and enlarge your graphics.

Portraits in BASIC, DRAWFACE allows you to create portraits. Great for the kids, but grown-ups will like it, too.

CoCoDraw, a full-blown graphics editor, complete with pull-down menus.

BASIC Training, simple but effective string manipulations.

Double Whammy, another roll of the dice could win it for you, but should you take the chance?

Graphics Quickies, four good BASIC shorts. *The Talking Pumpkin*, *Colors of the Spectrum*, *The Boogie Box* and *Space Attack* are sure to get you going.

Odd Man Out, an educational program teaching the concept of difference.

Education Notes, a BASIC review of adjectives.

The CoCo Scaler, a program to fine tune those graphics images.

Wishing Well, an interesting use of graphics and arcade concepts to teach mathematics.

File Extension Changer, quickly alter your extensions for reloading of graphics files into different graphics editors.

The "flip" side of this month's **RAINBOW ON DISK** includes the files for Dale Puckett's KISSable OS-9. Among these files are a horizontal graphing program and a cursor positioner for the Disto 80-column card.

RAINBOW ON DISK

October 1986

SERIAL #

001922



RAINBOW

THE COLOR COMPUTER MONTHLY MAGAZINE



ON
DISK



RAINBOW

November
1986

THE COLOR COMPUTER MONTHLY MAGAZINE

ON
DISK



RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions For Use

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Some issues of **RAINBOW ON DISK** may be partially formatted under Disk BASIC on the back side as well as the front. You should check both sides of the disk using Disk BASIC's DIR command for this occurrence.

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.

If you are running OS-9, you will find a read.me.first file in the root directory. You should list this file to your screen or printer for information about the structure of the OS-9 side of the disk.

The Disk BASIC side of the disk is 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.

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Many of these programs require special loading instructions and other information necessary to the proper functioning of the program.

The modifications for CoCocad and CoCoflow, CoCoMOD1, CoCoMOD2 and CoCoMOD3, are saved on this disk in ASCII format. This is to facilitate use of the Disk BASIC MERGE command to combine the modifications with the main programs. Just load in the file you want to modify, type MERGE"filename" and press ENTER. Then save the modified version to disk.

For complete instructions regarding each of the files on **RAINBOW ON DISK**, refer to the November 1986 edition of **RAINBOW** magazine.

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

November 1986

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Treasure Quest Search for gold, but watch out for the traps!

Pizza Party Invite your holiday guests to pick their favorite toppings.

RTTY Transmit and receive text in the Ham bands.

BASIC Training Two programs show you what LEFT\$, RIGHT\$ and MID\$ are all about.

Raiders Dock with the alien ships to recover stolen supplies.

Shorten Use this utility to allow the *Banner* program from the May 1986 RAINBOW to run on a disk system. Also included is the *Banner* program with patches already made.

Wishing Well Learn equivalent liquid measures. Do you know how many quarts are in a gallon?

Remot232 Use a terminal to control your CoCo from a distance.

Funwords Play with words using this educational game.

SMH Add a message editor to your CoBBS system.

Term3 It's a brand-spanking-new terminal program just for your Color Computer 3.

LWRSEEDIT Add Lo-Res graphics to your bulletin board system.

McCheckers Play checkers with a friend over the phone!

Keycad/Keyflow Use these modifications to add arrow-key control to CoCocad and CoCoflow.

Getput Use these routines for speedier GETs and PUTs in graphics programs.

The "flip" side of this month's **RAINBOW ON DISK** includes:

Rainbow Clock A series of modules create a running graphics clock in OS-9 Level II's windowing environment.

The Sieve of Eratosthenes This is a benchmark commonly used to test relative computer speeds.

KISSable OS-9 Included are *sysgo*, and two *cls* modules all written in assembly language.

RAINBOW ON DISK

November 1986

SERIAL #

003847



RAINBOW

THE COLOR COMPUTER MONTHLY MAGAZINE



ON
DISK



RAINBOW

December
1986

THE COLOR COMPUTER MONTHLY MAGAZINE

ON
DISK

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions For Use

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If you are running OS-9, you will find a `read.me.first` file in the root directory. You should `list` this file to your screen or printer for information about the structure of the OS-9 side of the disk.

The Disk BASIC side of the disk is 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.

Many of these programs require special loading instructions and other information necessary to the proper functioning of the program.

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

December 1986

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This edition of RAINBOW ON DISK includes:

Greeting A CoCo greeting card in Hi-Res graphics.

Mortar Eliminate the oncoming enemy tank division before it can establish a strategic stronghold.

Hebrew Writer Use your CoCo and ML-92 printer to write notes to your friends in Hebrew.

Deck the Halls Liven up the holiday spirit with four-voice music from your Color Computer.

Cardshop Create usable Christmas cards with your CoCo and a printer.

Winter A selection of Hi-Res scenes with accompanying music.

Solitaire A Hi-Res version of the seven-column card game.

BASIC Training Learn how to format text presentations on your Color Computer.

Education Notes Steve Blyn shows how to convert binary to decimal with the *Binary* quiz program.

Labeler Print out disk labels which include the disk's directory.

Holiday Hearth Warm up to this CoCo program which combines music and graphics for the holiday.

Trimtree Decorate your tree with a little help from your Color Computer.

Up on the Rooftop Help Santa fly his yearly mission.

Wishing Well Fred Scerbo gives us a holiday present of an alterable arcade game.

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

KISSable OS-9 Included are the new commands `del`, `dname`, `exit` and `time`.

OS-9 Spooler Enjoy working with your CoCo while it prints as a background task.

RAINBOW ON DISK

DECEMBER 1986

SERIAL #

007350



RAINBOW

THE COLOR COMPUTER MONTHLY MAGAZINE

ON
DISK



October 1987

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:

Horror Have a frightfully good time with this Halloween-oriented quiz.

Screen Scroller Use this technique by Bill Bernico to scroll those graphics out of the way.

The Queens Quarrel Can you place eight queens on a chess board so none can kill another?

CoCo 3 Screen Dump Three screen dump routines to produce excellent copies of your CoCo 3 Mode 1 and 3 graphics.

Electrifying Graphics Learn how to make those pictures move.

Graphics Transfer Move your graphics files from disk to tape and vice-versa.

Desktop Publisher Finally, a desktop publishing system for your CoCo. Works on the CoCo 1, 2 or 3!

Novices Niche A paletteful of graphics quickies . . . and then some!

Education Notes Win big on the gridiron and learn at the same time with *Blitz Quiz*.

CoCoDraw Update The complete CoCoDraw system with a new and improved joystick handling routine.

Initially 3-D This short routine allows 3-D initials on the Hi-Res screen.

CoCo Talks Back Let your CoCo, along with a Speech/Sound Pak, help you debug those long listings.

Animation Film Festival Discover the power of multi-screen animation on your CoCo's Lo-Res screen.

Family Tree Part II The final listings for this CoCo 3-based genealogy program.

Wishing Well See if your language skills [is, are, were, be] current with *Conjugate Instructor*.

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

Compressed Files Unpress, by Peter Dibble, allows you to decompress files after using last month's *Compress* utility.

KISSable OS-9 Dale Puckett offers *KISSDraw2*, a continuation of his coverage of graphics on the CoCo 3 under OS-9 Level II.

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This month's RAINBOW ON DISK is formatted in such a way that programs for Disk BASIC are on both sides of the disk. The flip side of the disk has been "partitioned" and does hold six Disk BASIC files. You may copy these files to another disk manually or back up the entire flip side of the disk.

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.

Since this month's RAINBOW ON DISK offers BASIC09 programs, the SOURCE directory will be the only one found on the disk. There is no CMDS directory on this month's RAINBOW ON DISK. To use this month's programs, first boot OS-9 and execute BASIC09. Then, use the chd command to make the RAINBOW ON DISK SOURCE directory your current data directory and load the programs into the BASIC09 workspace.

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 October 1987 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Page	Filename	Disk BASIC Files	
OCT	MENU	Page	Filename
022	HORROR		
027	SCROLL	OCT	MENU
029	QUEENS	145	FAMILY
032	SCRNDMP	156	CHART
036	SCRNDMPS	160	VERBTEST
038	LP78DMPS		
039	TESTSCRN		
046	ENERGY		
050	GRAFTRAN		
063	DESKTOPL		
068	DESKTOPH		
072	GENFONT1		
075	GENFONT2		
078	FUNFACE		
079	MARTIAN		
080	COCOART	164	Unpress
081	MIRORPIX	177	KISSDraw2
082	P178&GL		
082	WINDCHIL		
083	FOOTBALL		
095	CCBLITZ		
099	MENUGEN		
099	COCODRAW		
103	3DLETTER		
107	READPROG		
118	ANIMATE		
124	PICTBOOK		

OS-9 Files

read.me.first

SOURCE

Page	Filename
164	Unpress
177	KISSDraw2

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April 1988

RAINBOW

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Child Protect Speed up medical attention when you are away from your child with this customized authorization form.

Recipe Filer Use this friendly database to organize those family recipes.

Financial Conversions A tool box to help manage your finances.

Home Inventory This program helps keep track of all those household valuables.

Color Correspondent A mini word processor for your letter-writing needs.

Auto Maintenance Keep track of maintenance schedules for up to five vehicles.

Education Notes Preview the presidential election with this poll program from Steve Blyn.

Novices Niche Five fun and helpful quickies to get you started.

Kingmaker Promote your candidate to kingship as master of the guild.

Easy As Pie Here's a little help for BASIC programmers in the form of a utility program.

Budget Master Let the *Home Financial Analyst* help organize income and expenses.

Color Mixer This CoCo 3 utility from H. Allen Curtis helps choose colors for your next BASIC creation.

Wishing Well CoCo 3 "fixes" for Wishing Well favorites from the past.

Barden's Buffer Discover the world of Hershey characters with *Hershey Utility* and *Hershey Font Driver*.

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

KISSable OS-9 Finally, a driver/descriptor pair for the WordPak RS.



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Instructions for Use

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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 April 1988 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

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Page	Filename	Page	Filename
APR	MENU	126	MENU
025	MED FORM	126	COLORMIX
032	RECIPES	148	#BLOOD
036	FINANCE	148	#HEART
044	INVNTORY	148	#DRIVE2
049	LETRRITR	148	#COCOKEYS
060	MAIN	148	#SPELLKEY
068	EXPNS	148	COPIER
069	REM	179	FONTUTIL
070	ELECTION	184	HFDRIIVER
072	BRU	189	EXAMPLE
073	ENCRYPT		
074	SHOOTEM		
074	CALENDAR		
075	QUILT		
088	KINGBOOT		
090	KING		
101	UTILITY1	167	wpdrv.dr
116	BUDGET	168	wp.dd
120	REPORT	169	wecho.dd

OS-9 Files	
Page	Filename
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	CMDS
167	wpdrv.dr
168	wp.dd
169	wecho.dd
	SOURCE
166	CO80.patch
167	wpdrv.src
168	wp.src
169	wecho.src

Indicates "Wishing Well" fix files; see Page 146.

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This edition of RAINBOW ON DISK includes:

Strata Revisit the past with this fast-paced, arcade-style "pong" spinoff.

One Good Turn A two-player strategy game to really flip you out.

Ye Olde Font See how easy it is to use different fonts in your own creations.

CoCo 3 Color Dump Use this complete package to send colorful CoCo 3 graphics to the CGP-220 Inkjet printer.

Sign In Please Let CoCo sign it for you; a great way to personalize your work.

PMODE Polychrome Send those PMODE3 and 4 screens to the CGP-220 efficiently.

Wishing Well Jump into the jumble and try to decode these sentence puzzles.

Education Notes Study Nyms, a review of synonyms, homonyms and antonyms.

Novices Niche A fine collection of shorties for beginners and advanced users alike.

Printing in Two Columns Make eye-catching newsletters with this two-column formatter.

In and Out With Boole Test your abilities with binary addition, subtraction and multiplication.

LLISTing Formatter Let *BestList* show its stuff the next time you need a hard copy.

Poster Printer Print those garage sale (and many other) signs with this BASIC program designed for the DMP-130.

Alternate Fonts for PMODE4 Use any of the many new CoCo 3 fonts on the PMODE4 screen. Works with CoCo 1, 2 and 3!

Barden's Buffer Take a venture into the world of palindromes and anagrams.

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

KISSable OS-9 Use *Defsdemo* to define window data types and *Cmdgen* to generate OS-9 modules that execute existing programs.

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This edition of RAINBOW ON DISK includes:

Playin' the Blues Mellow out with the sounds of CoCo after a hard day.

College Costs Prepare a financial plan for when your children enter college.

CoCo 3 Auto-Boot With *Auto3* tell your CoCo 3 to lie quietly while you are gone and "wake up" just before you return.

CoCo Goes Country Discover the sounds of Nashville with *Rockytop*.

Color Composer A music "processor" to help you create and edit your own masterpieces.

Print That Tune Print a custom PLAY statement for the songs entered.

Graphing Great Guitars A real collector's item for guitar buffs from Bill Bernico.

Tank Command Defend your forces in this fast-paced, arcade-style action game.

Novices Niche More than a handful of goodies to start computing on the right key.

Education Notes How well do you know THE RAINBOW? Find out with *Magparts* by Steve Blyn.

Blast From the Past A jukebox of ragtime selections for your enjoyment.

SuperPlay Warm up and smooth out the sound offered by CoCo's PLAY command.

Exercise Your Drives Discover the workings of a disk system by putting the floppy controller through its paces.

Chord Producer Learn those chords and their piano keyboard placement with *Chords*.

Wishing Well Take aim on direct and indirect objects with Fred Scerbo's *Sentence*.

CoCo 3 Potpourri Several mods and patches to enhance your CoCo 3 computing.

Color Catalyst Customize BASIC to suit your personal taste by changing commands, messages and more.

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

Help Is on the Way A BASIC09 utility from Stephen B. Goldberg to allow the addition of help information for Level I, Version 2.00's *he1p* command.

KISSable OS-9 Learn about C/BASIC09 data structures for *Multi-Vue* with *MVShell*. Also, use *Skipmuf*, a PASCAL program, to calculate the radio frequencies you can use to reach any point on Earth at a particular time.



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June
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Front Side		Back Side	
Page	Filename	Page	Filename
JUN 024	MENU	JUN	MENU
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032	COLLEGE	161	TUNNLMOD
038	AUTO3	171	RAM
046	ROCKYTOP	171	CATALYST
053	SONGWRTR	176	DISK.BAS
057	PRINTUNE	176	CATLYST3
064	GUITARS	177	DISK.3
071	BLITZ1	177	LCPATCH2
076	BLITZ2	177	LCPATCH3
078	BLITZ3		
079	PITCHER		
079	99BEERS		
079	EXPLORE2		
079	THECAVE		
080	MUSICPRO		
081	LOTTO48	014	Helpmate
082	COLLECT	180	MVShell
082	ASCIIREF	183	Skipmuf
086	MAGPARTS		
096	JUKEBOX		
105	SUPRPLAY		
108	WAVEDIT		
111	FDCAID		
141	CHORDS		
155	SENTENCE		

OS-9 Files

read.me.first

SOURCE

014 Helpmate
180 MVShell
183 Skipmuf

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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:

Seawar Try your hand at sinking the hidden battleships.

It's Your Move Chess moves the strategy from the game board to the CoCo's screen.

File Compare Check those disks for duplicates with this file comparison utility.

Bingo An old favorite with some added bells and whistles.

Child's Play Use the luck of the die to assemble your bug before your opponent.

Italics-105 Create an italics font for your Radio Shack DMP-105 printer.

Tut's Tomb Finish the battle with parts 2 and 3 of this fast-paced arcade game.

Novices Niche Here are five quickies to get you going.

Education Notes Learn to add up costs with this newspaper subscriber list.

The "Hit" List Keep track of the body count in role-playing games such as T.A.G.

Wishing Well Learn to recognize opposites with this graphics-based teacher.

ML-Data A routine to convert a machine language program into BASIC data statements.

Little Graphics Library Learn to use programming constructs in machine language graphics routines.

ML Made BASIC Part 2 of this beginner/intermediate machine language series.

Working Together Two programs presented by Don Hutchison help ease tape file transfers from Delphi.

Barden's Buffer Find out which areas of your BASIC programs need help in becoming more efficient. An excellent way to "clean up" your act.

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

KISSable OS-9 Add *WindInt* functions to BASIC09 with *Gfx3*.

RAINBOW

ON DISK

August
1988

August 1988

RAINBOW

The Color Computer Monthly Magazine

ON DISK

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.

This month's RAINBOW ON DISK is formatted in such a way that programs for Disk BASIC are on both sides of the disk. The flip side of the disk has been "partitioned" and does hold 13 Disk BASIC files. You may copy these files to another disk manually or back up the entire flip side of the disk.

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.

Since this month's RAINBOW ON DISK offers BASIC09 programs, the SOURCE directory will be the only one found on the disk. There is no CMDS directory on this month's RAINBOW ON DISK. To use this month's programs, first boot OS-9 and execute BASIC09. Then, use the chd command to make the RAINBOW ON DISK SOURCE directory your current data directory and load the programs into the BASIC09 workspace.

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 August 1988 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Page	Filename	Disk BASIC Files	
		Page	Filename
	MENU		MENU
024	SEAWAR		MENU
032	CHESS	106	*PROG1
037	*FILECOMP	106	*PROG2
040	BINGOTLK	107	*PROG3
045	BUGGIE	107	*PROG4
052	ITALICS	140	FINANBAS
060	2PART1	140	*FINANBIN
064	2PART2	159	TAPCNV
068	3PART1	160	BASFIX
073	3PART2	178	PRNTLINE
060	*TUT1	178	LINETABL
060	*TUT2	178	ANALYZE
060	*TUT3	179	TIMEFIND
076	IMMORTAL		OS-9 Files
077	JOZAP	read.me.first	
078	EZSHOOT		SOURCE
078	FLIGHT		
079	MEMORY	Page	Filename
080	NEWSCOST	187	Gfx3
088	KILLER		
094	OPOSITE1		
101	MLDATA		

* Indicates a machine language program.

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The Color Computer Monthly Magazine

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This edition of RAINBOW ON DISK includes:

Used Cars Make the used car choice easier with a little assistance from CoCo.
Mass Disk Formatter Increase your productivity with this utility to help cut down on the "housekeeping."

The Big Bad Wolf CoCo 3 teams up with a popular tale to put a new twist in learning the ABCs.

Seating Chart Teachers, keep track of seating assignments.

Long Division A unique math drill that instructs the student each step of the way.

States and Capitals Help students remember their geography lessons using this CoCo 3 game as a tool.

Clue Me In A one-word Charades game for people of all ages.

Novices Niche A grab bag of goodies for your software collection.

Wishing Well Match opposites with this Concentration-like game.

ML Made BASIC Get into "the dumps" with this homebrew screen print routine.

Desktop Publisher Reprise Add word processor input and several other features to this system by H. Allen Curtis.

On VCR Time Calculate remaining recording time on that collection of half-filled video tapes.

Education Notes Learn cross-referencing skills with this short program from Steve Blyn.



RAINBOW

ON DISK

September
1988

September 1988
RAINBOW
The Color Computer Monthly Magazine
ON DISK

Instructions for Use

This disk is a "floppy," formatted under Disk Extended BASIC. Unlike previous RAINBOW ON DISKS, this month's issue of THE RAINBOW and RAINBOW ON DISK do not contain any OS-9 programs.

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 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.

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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 September 1988 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Page	Filename	Page	Filename
SEP	MENU	076	CIDER
020	USED CARS	076	ASCII3
030	FORMATTR	093	MATCH
036	BADWOLF	099	DUMPBAS
046	SEATCHRT	100	*DUMPBIN
054	DIVISION	106	GENMENU
061	STATES	107	PATCHWPL
067	CLUEFILE	110	PATCHWPH
068	CLUEWORD	112	CONVERTL
070	WORLD	114	CONVERTH
071	ADDBLOKS	116	MONROE
071	ROMANMRL	124	VIDTIME
072	FLEXQUIZ	124	LEASTQ
074	PAYASO	136	REFERNCE

* Indicates a machine language program.

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RAINBOW

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This edition of RAINBOW ON DISK includes:

Roommate A program to help roommates organize expenses in a fair, precise manner.

Super Stamper Two new PMODE graphics commands for zoom, stretch and rotate effects.

Font Master Replace the CoCo 3's built-in HPRINT font with one of your design.

ML Made BASIC Delve into the world of machine language graphics.

New Colors Add more colors to HSCREEN4 by combining the colors you already have.

Keyboard Power Add single-key control and function keys to your CoCo.

Novices Niche Five quickies to teach, taunt and delight you.

Wishing Well *Opposite Concepts* and *Match Game of Opposites* revamped with more data.

Warped Animation Create whirlpools and waves with *Gravitational Grid*.

Barden's Buffer Continue the trek to assembly language with a little help from Bill Barden.

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

KISSable OS-9 Use *FMenu* to find what's on those disks when you need it most. Also, updates for *MVShell* and *Gfx3*. Finally, use *DiskFix* and *FormatFix* from Steve Goldberg to take full advantage of those double-sided drives.

RAINBOW

ON DISK

October
1988

October 1988
RAINBOW
The Color Computer Monthly Magazine
ON DISK

Instructions for Use

This disk is a "floppy," 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.

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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.

Since this month's RAINBOW ON DISK offers BASIC09 programs, the SOURCE directory will be the only one found on the disk. There is no CMDS directory on this month's RAINBOW ON DISK. To use this month's programs, first boot OS-9 and execute BASIC09. Then, use the `chd` command to make the RAINBOW ON DISK SOURCE directory your current data directory and load the programs into the BASIC09 workspace.

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.

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Front Side		Back Side	
Page	Filename	OS-9 Files	
OCT	MENU	<code>read.me.first</code>	
016	ROOMMATE	SOURCE	
032	SUPRSTMP	Page	Filename
036	STMPDEMO	152	FMenu
042	FONTMSTR	156	Mod1
042	*CURSFONT	156	Mod2
042	*BOLDFONT	157	DiskFix
050	*PAGER	157	FormatFix
052	NUCOLORS		
054	DEMO		
075	*KEYPOWER		
086	SPOOK		
087	EYECATCH		
087	COPYPIX		
088	COCOPLUS		
089	SLOTS		
091	OPOSITE2		
091	MATCH2		
104	GRAVGRID		
142	*PONGBIN		
142	PONGBAS		

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RAINBOW

ON DISK

November
1988

RAINBOW

The Color Computer Monthly Magazine

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This edition of RAINBOW ON DISK includes:

A CoBBS Update These modified COBBS/SYS and USER/SYS files allow CoBBS to be compatible with the CoCo 3.

Education Notes Exercise your reading comprehension and retention.

Stock Market Take your chances on Wall Street with this high-level game for the CoCo 1, 2 or 3.

Election '88 Keep track of the upcoming election results as they are announced. See if your predictions and wishes come true.

ML Made BASIC Learn to access single PMODE points using machine language.

Novices Niche Six quickies to whet your computing appetite.

Add Xmodem to CoBBS Use these routines to let your CoBBS system upload and download via the Xmodem protocol.

U.S. Presidents Add a little presidential history to your list of U.S. trivia.

A Remote Update Use this updated terminal driver, and make your CoCo 3 quite a host.

Wishing Well Continue the trek into the world of matches and opposites with *Pictures*, by Fred Scerbo.

Barden's Buffer A sort is a sort, of course, of course . . . Now you can learn how and where to use them.

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

KISSable OS-9 More routines for *Multi-View* users, as well as *Strip*, a utility from Stephen Goldberg to help conserve disk space.

DECB

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OS-9

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RAINBOW

ON DISK

December
1988

December 1988

RAINBOW

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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 December 1988 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Disk BASIC Files		Disk BASIC Files	
Page	Filename	Page	Filename
DEC	MENU	DEC	MENU
024	TREEPUZZ	089	YULELOG
030	HIPMAS	090	TURKISH
038	SOLTAIR3	090	CARDLIST
046	ROMRAM	091	LOCKOUT
046	SETHelp	092	NEWSREEL
047	SPELLER	092	CARDTRIK
049	TAKETEST	093	KEYBOARD
058	*PROS	101	DISKOFF#3
060	PROS1	102	ALARM
072	PROS2	105	BASLINE
077	SCR1N	105	*BINLINE
084	SCRN2	109	*SCRNSAVE
088	MAKEPROS	113	SINGCARD
		118	SCRLDEMO
		120	FASTSCL
		152	BRAINSTM
		170	PENTPUZL

* Indicates a machine language program.

OS-9 Files

read.me.first

CMDS

Page	Filename
160	Dmode

SOURCE

Page	Filename
160	Dmode
163	MakeDmode
184	Xcodes.CC3

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

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This edition of RAINBOW ON DISK includes:

The Flip Side Join the world of publishing — print six-page pamphlets using one sheet of paper.

Building Blocks Create colorful patchwork pictures using the CoCo 1, 2 or 3.

Piecharts Spice up your next presentation with this CoCo 3 application.

Novices Niche An extra-large assortment of shorties to start the year off right.

RGB Demonstration Discover how the CoCo 3 mixes red, green and blue to form its 64-color palette.

Education Notes Learn to convert between inches, feet and yards.

Wishing Well Make comparisons easy with this study of analogies.

Programming Contest Winner Here is the winning entry in Bill Bernico's "add-on" programming contest.

ML Made BASIC Part Seven shows how to create circles and arcs easily, using assembly language.

Secret Codes Fulfill your clandestine desires with this cipher program.

RAM Disk Utilize all of your CoCo 3's memory by building a RAM disk in the upper 64K.

Barden's Buffer Enter the world of communications with this Morse code tutor from Bill Barden.



RAINBOW

ON DISK

January
1989

January 1989
RAINBOW
The Color Computer Monthly Magazine
ON DISK

Instructions for Use

Since there are no OS-9 programs published in THE RAINBOW this month, this disk is a single-sided "floppy," formatted under Disk Extended BASIC.

Before you run any of the programs on RAINBOW ON DISK, you should first use the Disk BASICBACKUP command to make a backup of this 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 is 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 (Out of Memory) 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.

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 1989 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience).

Page	Filename	Page	Filename
JAN	MENU	62	WORDCNT
24	BOOKLET	63	DOWNHILL
30	BLOCKS3	63	COCOPONG
31	BLOCKS2	64	TELE-DIR
28	*SAMPLE1	67	RGBDEMO
28	*SAMPLE2	72	CONVERT
46	PIECHART	81	ANALOGY
58	MANDO	88	RINGBELL
59	BALLDEMO	91	*CIRCLES
60	TAFFYBAL	92	*ARCS
60	DOODLER3	105	CIPHER
61	PSYCHO	112	RAMDISK
61	PRGGUIZ	113	COPY
62	CLS255	150	MORSE

* Indicates a machine language program.

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

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The disk is specially formatted and contains both BASIC and OS-9 operating system programs.

This edition of RAINBOW ON DISK includes:

Tangled Tiles See if you can unscramble the four-tiered puzzle in the challenging game of *Blue Void*.

Database Routines Here are four tutorial examples from the first part of our series on building your own database.

A Toad's Life Hop the light fantastic and see if you can keep your toad alive.

One Touch Calculator Here's a joystick/puff switch-controlled calculator designed especially for the disabled.

Hands-Free ROM and RAM versions of the driver software for Dennis Weide's home control system.

The Patch Continues Use this patch with *Super Patched EDTASM+* to allow 80-columns on the CoCo 3.

Wishing Well Use *Count On Me* to teach fundamental math skills to new students.

Novices Niche Eight quick and easy shorties to get you started.

ML Made BASIC Let *Shifts* help you learn about your CoCo's multiplication tables.

Education Notes Steve Blyn offers a tachistoscope to help sharpen memorization skills.

Daily Planner Use this program to organize your busy schedule.

House Hunting Make smart decisions by checking it all out before you buy that new dream house.

Barden's Buffer Discover the life of the common worm (and also how your CoCo draws) with *Worm Driver* from Bill Barden.

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

Set Date Use this handy utility to enter the system date in MM/DD/YY format.

KISSable OS-9 Dale Puckett's offerings this month include *Charter* and *Translate*. Use these with the *ScratchPad* program from *The Complete Rainbow Guide to OS-9 Level II* to print out your notes.

February
1989

RAINBOW
ON DISK

RAINBOW

The Color Computer Monthly Magazine

ON DISK

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The disk is specially formatted and contains both BASIC and OS-9 operating system programs.

This edition of RAINBOW ON DISK includes:

Education Notes Share feelings about your favorite pet using *PetStory*, a fun language arts program.

ML Made BASIC Start experimenting with musical creations written in machine language.

Teed Off Take a break with this fun, and sometimes frustrating, golf game for CoCo 1, 2 and 3.

Novices Niche Seven shorties ranging from entertaining routines to utilities.

Wishing Well *QLator*, a CoCo calculator with "keypad" from Fred Scerbo.

Database Design This second part in the database tutorial series covers data arrangement and the secrets to using the disk for storage files.

CoCo Desktop Create your own high-powered application with this Disk BASIC window environment skeleton.

BASICally Speaking A core routine for slot-machine programming for the CoCo 3.

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

KISSable OS-9 *TrakSat*, a satellite tracking program for Hams and non-Hams alike. Also, this month gives us *Echo*, a modified echo command from Steve Goldberg. This utility now allows options for clearing the screen, embedded linefeeds and more.

RAINBOW

ON DISK

March
1989

March 1989

RAINBOW

The Color Computer Monthly Magazine

ON DISK

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. 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 March 1989 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		
MAR	MENU	<code>read.me.first</code>	
028	PETSTORY		CMDS Directory
032	*MLNOTES	153	<code>echo</code>
060	GOLFER		SOURCE Directory
078	BLINK		Page
079	COCOLEID	138	Filename
079	ASCICALC	139	Satellite.dat
080	5-COLDIR	139	Station.dat
080	ASCSEKCH	153	TrakSat
081	FRACTAL	153	echo.source
082	WILFLOAT		MakeEcho
084	QLATOR		
091	SEPARATE		
091	RITEREAD		
091	TIMER		
092	CREATE		
092	ADDRECRD		
105	DESKTOP		
130	SLOTCORE		

* Indicates a machine language program.

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

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This edition of RAINBOW ON DISK includes:

Lil' Ole Interest Monitor Use this CoCo 3 program to help track interest earnings.

Invoice Innovation This office helper will print customized invoices and shipping labels on demand.

Call Memo Organize the way you take and leave phone messages in your home or office.

BASIC Training Delve into graphics animation with Joseph Kolar's *BigBird*.

ML Made BASIC Discover graphics animation by looking at point rotation in machine language.

Novices Niche Six shorties ranging from business to graphics to help get you started.

Wishing Well Just how does time add up? Find out with *Time Card* by Fred Scerbo.

Education Notes Learn (and teach) how to move around the dictionary.

Color Coordinator Help children develop a sense of color coordination with this CoCo 3 program.

Credit Lines Keep track of credit card transactions and balances for up to ten accounts.

CoCo Tour Add that extra splash to your programs with this colorful border creation utility.

Decisions Let CoCo help you make those tough decisions by organizing and weighing relevant factors.

RAINBOW

ON DISK

April
1989

April 1989

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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 1989 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side Disk BASIC Files

Page	Filename
APR	MENU
022	INTEREST
046	OFFICE
053	CALLMEMO
067	BIGBIRD
075	DEMO
075	DRIVER
076	*ROTATION
079	CC3GRAPH
080	EZLABELS
081	STARVIEW
082	ANIMATOR
082	WHENRAIN
083	BIRDSEED
090	TIMECARD
099	DICTIONARY
102	CRDINATE
105	CREDIT
113	COCOTOUR
114	CCTDEMO
119	AHP

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

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The disk is specially formatted and contains both BASIC and OS-9 operating system programs.

This edition of RAINBOW ON DISK includes:

Text for Graphics Add text to your favorite graphics creations.

Lunar Lander As remote pilot, land a company's expensive cargo at designated lunar sites.

CoCo Derby A day at the CoCo Raceway is as close as your keyboard.

Having a Party? Create invitations for your next gathering in any style you want.

Education Notes Math class will be a breeze after using this fraction tutor.

Font Setter Say goodbye to those CHR\$ code blues. Set DMP-130 fonts simply.

Novices Niche Seven shorties to entertain and help you learn BASIC programming.

ML Made BASIC Part XI explains the details of 3-D rotation.

Printer Spooler No more waiting for your printer to finish.

BASIC Training More pointers for some homegrown animation projects.

Wishing Well Here is a program to familiarize children with the calendar.

Convert Convert those PRINT statements to PRINT#-2 statements.

Desktop High-density printer enhancements for the shoestring desktop publisher.

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

Chown Change ownership of files allowing access for your users.

BASIC09 Tool A system of procedures to show how to use Get/Put buffers for parameter passing between concurrent processes.



RAINBOW

ON DISK

May
1989

May 1989

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

This disk is a "floppy," 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.

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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: CMD5 and SOURCE. It also contains a file, read.me.first, which explains the division of the two directories. The CMD5 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 CMD5 directory, enter `dir cmd5`. 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 CMD5 directory on your system disk with one of the following commands:

One-drive system: `copy /d0/cmd5/ filename /d0/cmd5/ 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/cmd5/ filename /d0/cmd5/ 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 May 1989 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Disk BASIC Files		OS-9 Files	
Page	Filename	Page	Filename
MAY	MENU	read.me.first	
021	GRAFTEXT	CMD5 Directory	
032	LANDERGG		
035	LANDER		
032	*LANDER1		
032	*LANDER2		
043	DERBY		
048	INVITE		
052	INVIFORM		
056	FRACTION		
072	FONTSETR		
074	DUMP132		
075	SOUNDOFF		
075	BEAM3D		
076	HOTCOLD		
076	MATHDRIL		
077	CHORES		
078	NOTECARD		
082	*ROTATE3D		
085	DRIVER		
085	ALTROTAT		
087	SPOOLBAS		
087	*SPOOLBIN		
090	FLIGHTS1		
091	FLIGHTS2		
091	FLIGHTS3		
092	CALENDAR		
098	CONVERT		
104	DRIVERLT		
107	DRIVERLE		
109	LALTER		
109	LALTERD		
109	LALTERE		
109	LALTERDE		

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

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The disk is specially formatted and contains both BASIC and OS-9 operating system programs.

This edition of RAINBOW ON DISK includes:

Electro Dominoes These dominoes never fall accidentally.

Self Portrait A tribute to the CoCo 2.

The CoCo Fortune Teller It's time to gaze into the crystal ball.

Castle Zhagwhar Journey deep into the castle to find and kill the evil wizard.

Now You See It . . . Five optical illusions to display on your CoCo 3 monitor.

CoCo In 3-D Put a new twist in computer graphics.

The CoCo Quiz Master Astound your non-computer friends by making the CoCo a "know it all."

Storm Brew up a rainy day on your CoCo.

EZRun Run BASIC programs by typing just their filenames.

ML Made BASIC Create six voice music.

Education Notes Combine target practice with math skills.

BASIC Training Developing a PRINT @ screen utility program.

Wishing Well Teaching children the days of the week.

Novices Niche Eight shorties to entertain and help you learn BASIC programming.

Economy Printer Buffer Free up your computer while printing.

Fun Stats A program for keeping softball statistics.

Wildcards Enhance the directory command for those hard-to-find disk files.

Barden's Buffer Perplexing puzzles to ponder.

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

PR.B09 A BASIC09 utility for print formatting.

KISSable OS-9 Five utilities to help find files that have become buried in an OS-9 directory.

RAINBOW

ON DISK

June
1989

June 1989

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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This month's RAINBOW ON DISK is formatted in such a way that programs for Disk BASIC are on both sides of the disk. The flip side of the disk has been "partitioned" and does hold 16 Disk BASIC files. You may copy these files to another disk manually or backup the entire flip side of the disk.

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. 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 cms`. 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/cms/ filename /d0/cms/ 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/cms/ filename /d0/cms/ 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 1989 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Disk BASIC Files		Disk BASIC Files	
Page	Filename	Page	Filename
JUNE	MENU	JUNE	MENU
020	DOMINOES	120	GMFLCHK
020	DOMINO.SAM	121	CLRRSTR
024	PORTRAIT	121	COPYFILE
030	FORTUNE	122	*WILDBIN
042	ZHAGWHAR	124	WILDBAS
049	ILLUSION	124	ALLRAM
053	3DGRAPHX	146	PUZZLE1
058	COCOQUIZ	146	PUZZLE2
060	STORM	147	PUZZLE3
065	EZRUN	147	PUZZLE4
068	*6VOICES	147	PUZZLE5
076	MATHSHOT	148	PUZZLE6A
082	BOXCAR1	148	PUZZLE6B
082	BOXCAR2	149	PUZZLE7
087	WEEKDAYS	149	PUZZLE8
089	REACTION		
090	ASTEROID		
090	ELEVATOR		
091	WORDMAKE		
091	DIARY		
092	MMDIR		
092	SNDCTRL		
093	SIMPLDRA		
108	HECONOMY		
114	FUNSTATS		
117	RSTRMKR		
118	RSTRFXR		

OS-9 Files	
Page	Filename
	read.me.first
	SOURCE Directory
136	Pr
154	Find
154	Findit
155	Diskdir
156	Checkdir
157	Dodir

* Indicates a machine language program.

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This edition of RAINBOW ON DISK includes:

Auto Repeat Repeating characters at the push of a button.

?Habla Espanol? Make your CoCo multilingual.

Shopping Spree Dodge moving merchandise and collect coupons in this game of skill.

Tholean Web Neutralize the force fields before the enemy ships strike.

EduSpell Developing a new, talking spelling tutor. Part II: The Dictionary.

Multi-Res Transfer PMODE 3 and 4 graphics to the HSCREEN display.

ML Made BASIC 3-D rotation and a quicker way to draw lines.

Wishing Well Getting the whole picture with a verbal or visual fraction tutor.

Novices Niche Seven shorties to entertain and help you learn BASIC programming.

The Schematic Scoundrel, Revisited User-friendly symbol rotation for schematics.

Barden's Buffer Nine different graphic variances to show a falling object.

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

Syscall Sounds Produce sounds using Syscall to call the SS. Tone system call.

Cls Clearing the OS-9 text screen to one background color.

KISSable OS-9 Tie together the Find utilities from last month to locate lost files.

RAINBOW

ON DISK

July
1989

July 1989

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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. BASIC09 programs will only be offered in source form so they will only be found in the SOURCE directory.

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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 July 1989 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Disk BASIC Files		Disk BASIC Files	
Page	Filename	Page	Filename
JULY	MENU	136	BALL6
022	REPEAT	136	BALL7
032	ESPANOL	136	BALL8
036	SPREE	136	BALL9
044	WEBBAS	050	A through Z (26 files)
046	WEBDAT	050	MAKEDICY
046	*WEB		OS-9 Files
056	ROMRAM		read.me.first
056	TAKETEST		CMDS
056	MAINMENU		
058	SPELLER	Page	Filename
063	PUTWORDS	129	Cls
064	SETHelp		SOURCE Directory
065	MAKEDICY	Page	Filename
068	MULTIRES	126	Sound
068	*MISSION	126	TestSound
082	*BINLINE	129	Cls.asm
083	*BINROTAT	141	Locate
085	BASROTAT	145	Fixgfx
092	FRACTION		
103	BOWLING		
104	STORYWRT		
105	TAXTIP		
106	UPDNLIST		
106	LION		
108	DOGGONE		
108	SLOPEFNL		
124	CADMOD		
135	BALL1		
135	BALL2		
135	BALL3		
135	BALL4		
135	BALL5		

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Key Ahead Allows typing in information or a command while the CoCo is busy doing something else.

Quick Draw Create a library of graphics designs with just two short programs.

The Black Box Solve this puzzle by using a ray gun to uncover the five hidden balls.

The Graphics Corner Part I of III in a series showing ways to create color graphics in BASIC and machine language.

Desktop, Part II High-density printer enhancements for the shoestring desktop publisher.

Time Test A program for timed drills in both multiplication and division.

Education Notes Help your child prepare for standardized testing.

Nickelodeon Turn your CoCo into a juke box and sing along.

BASIC Training Techniques for creating graphics characters.

Wishing Well Let CoCo calculate hours, minutes and seconds for taping purposes or any other time application.

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

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

Kissable OS-9 This month, Dale Pucket presents Robert Moody's *Maxic*, a Multi-View-driven icon editor for OS-9 Level II.

BASIC09 Utilities Use *UStime* to display the date and time in an easy to read format. Use *StripBin* to remove extraneous bytes of information from downloaded files.

The logo for 'RAINBOW ON DISK' is positioned at the top right of the page. It features the word 'RAINBOW' in large, white, sans-serif capital letters inside a black rectangular box. To the right of this box, the words 'ON DISK' are written in smaller, white, sans-serif capital letters. The entire logo is set against a background of thick, diagonal green and black stripes that create a sense of motion and depth.

RAINBOW

ON DISK

August
1989

August 1989

RAINBOW

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ON DISK

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- 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.
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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.

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Front Side Disk BASIC Files

Page	Filename
AUGUST	MENU
018	*KEYSBIN
020	KEYAHEAD
025	QUIKDRAW
025	CORE
027	BLACKBOX
036	COLRDEMO
036	CIRCLE1
036	CIRCLE2
044	DRIVERHT
048	DRIVERHE
052	HALTER
054	HALTERD
054	HALTERE
055	HALTERDE
057	TIMETEST
064	FOLLOW
086	NICKEL-D
102	DIAMOND1
103	DIAMOND2
104	REALTIME
106	WORLD1
107	GRAPH
107	SNOFLAKE
108	FONEFIND
108	RBOWLIST
110	PLAYCONV

* Indicates a machine language program.

Back Side OS-9 Files

read.me.first

CMDS Directory

Page	Filename
122	Maxic
122	icon.maxic

SOURCE Directory

Page	Filename
022	USTime
023	StripBin
125	Maxic
122	AlF.max

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- Coloring Book** Turn your computer into an erasable coloring book.
- Disk Database** The third part in the database tutorial series covers data input routines.
- Bookworm** Smiling faces reward your child's efforts in math.
- Basic+** A new extension to a familiar language.
- Duplicator** Airtight software that shows you how to make BASIC programs virtually crashproof.
- The Graphics Corner** Part II: Scroll the screen with a new approach to PSETing numbers without using coordinates.
- Education Notes** Relate ratio problems to everyday situations.
- Novies Niche** Six shorties to entertain and help you learn BASIC programming.
- Wishing Well** CoCo teaches kids to "Just Say No."
- Kinderfun** Help preschoolers and early elementary students become familiar with colors, letters, numbers and music.

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

- Kissable OS-9 Part I** in a series of tutorials taking you on a step-by-step tour of Maxlc, an icon editor for Multi-View.
- BASIC09 Utilities** Get the most out of your disk storage with text file compression and expansion.

September
1989

RAINBOW
ON DISK

Rainbow on Disk September 1989

BASIC+	MORE BASIC COMMANDS; ALSO BSORT	SEP 1989	38
BOOKWORM	DEVELOP PROBLEM-SOLVING SKILLS	SEP 1989	32
CHANGE	COUNTING CHANGE	SEP 1989	64
COLRBOOK	GRAPHICS FUN	SEP 1989	12
COMPRESS	TEXT FILE COMPRESSION; ALSO EXPAND	SEP 1989	112
CREATE	DISK DATABASE; ALSO DATAB	SEP 1989	20
DUPLICAT	PROGRAMMING UTILITY	SEP 1989	44
GROLIST	CREATE GROCERY LIST	SEP 1989	62
KINDERFUN	EDUCATION FOR THE YOUNG	SEP 1989	84
MAXLC	MODULAR PROGRAMMING TECHNIQUES	SEP 1989	114
MINDMSTR	GAME	SEP 1989	62
NODRUGS	GRAPHICS	SEP 1989	66
SCOPE	KALEIDOSCOPE	SEP 1989	63
SCRLDEMO	GRAPHICS UTILITY; ALSO SCROLL ETC	SEP 1989	48
SONGRITR	MUSIC	SEP 1989	60
STARDEF	GAME	SEP 1989	60

OS-9

SEP89	91/08/25 22:29	A0
read.me.first	89/07/21 00:02	12C
CMDS	91/08/25 22:28	60
icon.maxic	89/06/11 20:37	90
SOURCE	91/08/25 22:28	180
Compress	89/06/17 19:51	3A8
Expand	89/06/17 19:51	2D3
MaxIc	89/07/21 00:30	100F
main	89/07/21 00:30	D1D
menup	89/07/21 00:31	260
setbuf	89/07/21 00:31	BD0
clearbuf	89/07/21 00:31	1EA
FILES	89/07/21 00:31	5EC
showdir	89/07/21 00:31	4DB
AIF.mic	09/04/09 21:10	31

RAINBOW

The Color Computer Monthly Magazine

ON DISK

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The disk is specially formatted and contains both BASIC and OS-9 operating system programs. This edition of RAINBOW ON DISK includes:

Tricky Graphics Create graphics invisibly, animate letters and enjoy a game of *Letter Carrier*.

Graphics Programmer Speed up the process of converting artwork into BASIC code.

Super Quiz Use this program to create your own study guides.

Wishing Well Updating and rewriting programs can be a rewarding experience.

Educational Notes Enhance those boring spelling lessons with *Codeword*, a shifty word drill tutor.

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

Desktop, Part III Lessons on saving half-screens for the shoestring desktop publisher.

The Graphics Corner Part III of three in a series showing ways to create color graphics in BASIC and machine language.

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

BASIC09 Utilities Have more information at your fingertips with this utility for updating files.

Kissable OS-9 This month Dale Pucket further explains Robert Moody's *MaxIc*, a *Multi-View*-driven icon editor for OS-9 Level II.

RAINBOW

ON DISK

October
1989

October 1989

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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.

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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.

Since this month's RAINBOW ON DISK offers BASIC09 programs, the SOURCE directory will be the only one found on the disk. There is no CMDS directory on this month's RAINBOW ON DISK. To use this month's programs, first boot OS-9 and execute BASIC09. Then use the chd command to make the RAINBOW ON DISK SOURCE directory your current data directory and load the programs into the BASIC09 workspace.

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 systemmaster 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

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 October 1989 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side Disk BASIC Files

Page	Filename
OCTOBER	MENU
022	CARRIER
030	GRAPHPRO
038	DEMO
043	SUPRQUIZ
048	METEOR3
052	CODEWORD
058	MARYNOTE
059	MINICAD
060	SPRAYCAN
061	FRACTMTN
061	JULIASET
062	TIMESHT
064	DHPATCH
064	HTPATCH
065	HEPATCH
068	NEWCOMER
080	NEIGHBR1
080	NEIGHBR2
080	* NEIGHBOR
081	NEIGHBAS

Back Side OS-9 Files read.me.first

SOURCE Directory

Page	Filename
072	Touch
077	Touch.hlp
090	RSDir
091	Display
112	tandy
113	dirfiles
115	getans
116	writefile
117	getname
118	getdir
118	mouser
118	loadicon
119	winset
120	getfile
120	getkey

* Indicates a machine language program.

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November 1989

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The Color Computer Monthly Magazine

ON DISK

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This edition of RAINBOW ON DISK includes:

Code Master Let your CoCo teach you Morse code or increase your code proficiency.

Educational Notes Get a grasp of the odds while exercising the laws of probability.

Patchwork A utility for snooping around and changing bits and bytes on your disks.

Novices Niche Five shorties to entertain and help you learn BASIC programming.

Wishing Well Give an old program a face lift with innovative renovations with *Siege2*.

Caption Create captivating captions for home photo albums and other applications.

Checkers Champ Spend an evening out on the tiles playing checkers.

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

Amortize Keep an eye on principal payments down the road.

Kissable OS-9 Part three in the tutorial series exploring the *Maxic* icon editor.



RAINBOW

ON DISK

November
1989

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RAINBOW

The Color Computer Monthly Magazine

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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.

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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.

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- 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 November 1989 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	
NOVEMBER	MENU	SOURCE Directory	
016	CODEMSTR	Page	Filename
024	PROBABLE	020	amortize
027	BLASTER	114	geticon
039	FIGDRW	116	saveicon
040	NOSMOKE	117	readicon
040	AUTOMILE	118	showicon
042	HRGCOM	118	writeicon
042	BINGO	120	editor
054	SIEGE2	121	updatbuf
058	CAPTION	121	errmsg
086	CHECKERS	121	loadbar

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

December 1989

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Winter Magic - Let *Magic* turn your CoCo 3 display into a winter wonderland.

Snowman Blues - Enjoy the heart-melting story of Frosty the Snowman.

Peg Me - Test your I-Q with this peg positioning game.

Education Notes - 'Tis the season for rhyme and reason with *Poetry*.

The Quest - Search for the wonderous energy star in this a-mazing adventure.

Basic Training - Stretch your programming muscles with CoCo.

Personal Secretary - Write your personal CoCo Yellow Pages.

Wishing Well - Here's a tutorial for teaching your child to identify upper- and lowercase letters.

Turn of the Screw - RAM Disk, Part III. The final steps for testing and using your new RAM Disk.

Barden's Buffer - Study the innerworkings of gambling programs: random and pseudo-random numbers.

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

Multi-View Applications - An icon editor to expedite getting those applications up and running in the *Multi-View* environment.

BreakPoint - Greg Law presents Steve Goldberg's *su*, a utility providing a much easier and faster method logging in under a different user ID.

Flipper09 - Capture your opponents pieces in this strategic board game.

Printing the Unprintable - Using arguments to keep it clean while listing binary files to the screen.

December
1989

RAINBOW
ON DISK

RAINBOW

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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.

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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename	Page	Filename
DECEMBER	MENU		read.me.first
014	*SNOW		CMDS Directory
014	*BACKGRND	040	edic
014	MAGIC	089	su
020	FROSTY	106	Flipper09
028	COCO-Q	121	read.b
032	POETRY	122	read.c
047	THEQUEST		SOURCE Directory
054	FLASHES		
054	DRILL1	Page	Filename
055	DRILL2	040	edic
056	COCOMEMO	089	su.c
061	UPLOCASE	106	Flipper09
064	GENTEST	121	read.b
066	GENDRIVE	122	read.c
120	RANDOM		
120	SLOTS		

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ON DISK

January 1990

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Saving Variables Protect variables from the whims of BASIC while you're in Edit mode.

Key Edit A keyboard supercharger that helps make the CoCo user-proof.

Novices Niche Nine shorties to entertain and help you learn BASIC programming.

Wishing Well Use *Primary Math Driller* to quiz children in both addition and subtraction.

The Frustrator Watch out for the deadly skulls while trying to outmaneuver CoCo in this strategic board game.

The Mandelbrot Bug Let your computer explore uncharted landscapes in Mandelbrot's world of fractals.

Designing Icons Three utilities to let you create original full 16-color icons.

BASIC Training Achieve in-place animation in your graphics designs by quickly substituting images in eight or twelve locations.

Stationery Station A simple program that creates personalized stationery on a DMP-105.

Gravity An educational game that provides practice and simulation in one of the most fundamental concepts of Newtonian physics.

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

Calendar CoCo will help you organize your life with reminders of important dates stored in a calendar.

BreakPoint Here is a utility to locate lost disks painlessly.

Label A utility to print a label or two that remains available like any OS-9 command.



RAINBOW ON DISK

January
1990

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One-drive system: `copy/d0/cmds/ filename/d0/cmds/ filename-s`

Front Side Disk BASIC Files	
Page	Filename
JANUARY	MENU
014	VARKEEP
028	KEYEDIT
030	WHATDAY
031	COPY
032	BOXMENU
032	MOON
034	CONVERT
036	RAINBOW
037	MEMOMAKE
038	SMASH
039	QGRASS
043	DRILLER3
073	FRUSTRAT
080	MANDEL
083	DESIGNER
086	CREATSET
086	ICONGRAB
089	LISTING1
090	LISTING2
090	LISTING3
108	STATION
114	GRAVITY

Back Side OS-9 Files	
calendar file	
CMDS Directory	
Page	Filename
046	calendar
053	curr_cal
055	createfile_cal
110	label

SOURCE Directory	
Page	Filename
046	calendar
053	curr_cal
055	createfile_cal
056	vol
110	label.c

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

February 1990

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This edition of RAINBOW ON DISK includes:

From Fractures to Fractions Perform mathematical calculations on fractions and reduce them to their lowest form.

The Total Figure A spreadsheet program written in assembly language for smooth operation and speed.

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

Barden's Buffer A project for interfacing thermometers and other input devices with the Hi-Res Joystick Interface.

A New Fangled Maze Solve the mysterious maze within the allotted number of moves, but don't lose count.

BASIC Training Rotate images in quadrants to achieve spectacular results.

Wishing Well Use *Music 101* to quiz children in musical notation.

Bank & Budget Maintain your checkbook and track your cash flow.

From Screen to Printed Page Print the 32-, 40- and 80-column text screens to the printer with a single keystroke.

Concentrate Find the matching cards and test your memory skills.

Education Notes Score points in a game of basketball by solving mathematical problems.

Darkroom Build a simple interface for an enlarger with an automatic exposure timer.

Guitar 3 Strum along with the CoCo as you browse through the chords shown on the screen.

Medic 3 Keep track of all those medical bills the easy way.

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

Verify Achieve faster disk operations by disabling the verify option.

BreakPoint Learn about dissecting the command line with a sample directory utility.

February
1990

RAINBOW
ON DISK

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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How Do I Get to the OS-9 Programs?

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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.

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Page	Filename		
FEBRUARY MENU		read.me.first	
012	FRACTION	CMDS Directory	
030	COCOCALC	Page	Filename
034	LOADER	056	vfy
035	MARQUEE3	123	udir
036	MCP	SOURCE Directory	
036	HBUFF	Page	Filename
037	ESCAPE	056	vfy.c
038	LISTER	123	udir.c
040	JOURNAL		
049	READHI		
050	MAZEWAY		
054	AOPTION		
062	MUSIC101		
076	CHECK1		
079	CHECK2		
084	PRT		
085	* PRTASM		
090	CCTRATE		
095	BASKET		
098	DARKROOM		
112	GUITAR3		
118	MEDIC3		

* Indicates a machine language program.

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The Color Computer Monthly Magazine

ON DISK

March 1990

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Wishing Well Watch This helps children learn to tell time on two-handed and digital clocks.

Worm Invaders Protect your city from the space worms in this Hi-Res action game.

Digital Logic Analyzer A hardware project for testing complicated circuit designs.

Barden's Buffer Turn your CoCo into an oscilloscope and plot electrical signals.

CoCoClean Clean your disks of the scattered garbage remaining after file kills.

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

BASIC Training Rotate designs around a central point by manipulating the DRAW strings.

Moon Mapper Track the orbits of the Galilean satellites of Jupiter.

A Perfect Star A quick lesson in trigonometry and Color Computer graphics.

Educational Notes Learn the Canadian provinces and capitols while playing a game of one-on-one basketball.

Samurai A multi-level dungeon game pitting you against the Swordmaster.

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

Do The Split A program that chunks down text for your word processor.

BreakPoint An assembly language utility allowing you to alter the process priority for faster or slower execution.

Carte Blanche Now you can build menus on BASIC09 programs.



RAINBOW

The Color Computer Monthly Magazine

ON DISK

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

Front Side Disk BASIC Files		Back Side OS-9 Files	
		read.me.first	
		CMDS Directory	
Page	Filename	Page	Filename
MARCH	MENU	086	split
012	WATCH	098	nice
020	WORMINVD		
032	TESTIF		
046	SCOPE		
055	COCOCLN		
060	LOCASE		
061	ATTR		
061	HCAT		
062	CATS		
062	INNKEEP		
063	MORTGAGE		
080	DIAMONDS		
084	GALISAT2		
085	GALISAT3		
094	TRIG1		
094	TRIG2		
112	BASKETBL		
114	SAMURAI		
		SOURCE Directory	
		Page	Filename
		086	split.asm
		089	makesplit
		098	nice.asm
		119	Carte_Blanche
		122	bldmenu
		123	test

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The Color Computer Monthly Magazine

ON DISK

April 1990

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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.

RAINBOW

ON DISK

April
1990

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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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Disk Database The fourth part in the database tutorial series explains how to use the system on a regular basis.

Scaling Mt. Mandelbrot A way to speed up routines in ROM using complex math.

Wishing Well A graphics program that helps music students learn to read the Bass Clef.

Booklet Plus Create 14-page booklets — new routines for a growing program.

Mind Stimulator Breaking the code of this guessing game will require patience and logic.

CoCo Typewriter Turn your computer and printer into a word processor.

Barden's Buffer How you can use the CoCo 3's expanded memory for storing and retrieving high-resolution screens and BASIC data.

Education Notes Learn how to cook with metric measures.

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

BreakPoint Review the segment lists stored in the OS-9 file descriptors — learn about directory structure from the ground up.

Larry's Labeler Create labels listing the directory contents of OS-9 disks.

RAINBOW

ON DISK

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1990

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- 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:

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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 May 1990 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		
MAY	MENU	read.me.first	
014	DATAB	CMDS Directory	
022	SCALE1	Page	Filename
024	*SCALEMAN	032	files
024	+SCALEMAN	SOURCE Directory	
028	SCALEDRV	031	files.b09 *
036	MUSIC103	032	files.c
039	FIXER	048	dlabel
036	MUSIC104		
040	PATBOOK		
040	BKLTPLUS		
051	MINDSTIM		
059	COLRTYPE		
086	MANAGER		
086	SAMPLE		
088	METRIC		

+ Indicates an assembly language source file.

* Indicates a machine language program.

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

June 1990

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This edition of RAINBOW ON DISK includes:

Vegas at Your Fingertips Hit the slot machines in 'Vegas with this nifty simulation for the CoCo 3, without losing all your marbles or your money.

Education Notes Tailored to meet the needs of intermediate school students, this program finds consecutive numbers that add up to a particular sum.

Wishing Well What comes between E and G? Learn the letter sequence of the alphabet with this friendly quiz.

Back From the Dead Examine and modify any sector on disk with this disk editor.

Novices Niche Three shorties to help your youngster learn letters and numbers, give your CoCo 3 a super POKE command, and solve quadratic equations.

CoCo Jumble Which of you has the largest vocabulary and imagination? Use this enjoyable scrambled-word game for your CoCo 1, 2 or 3 and challenge your friends to find out.

BASIC Training Use AOPTION1 and AOPTION2 and follow along with Joseph Kolar as he wraps up the DRAW tutorial.

The Assembly Line Use MODIFY, a machine language program to rotate, reduce, enlarge and copy PMODE graphics pictures.

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

Type Does Windows Use `type`, a short program to change the window type and colors of the current window.

BreakPoint Learn how to scale the directory tree with this `pwd` work-alike.



RAINBOW

The Color Computer Monthly Magazine

ON DISK

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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.

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Front Side Disk BASIC Files		Back Side OS-9 Files	
		read.me.first	
		CMDS Directory	
Page	Filename	Page	Filename
JUNE	MENU	036	type
014	SLOTS	046	pwdir
018	CONSEC		
023	BETWEEN		
033	DISKEDT		
048	QUADRATC		
048	LETRSNUM		
049	SUPRPOKE		
052	JUMBLE2		
052	JUMBLE1		
056	AOPTION1		
057	AOPTION2		
086	+ MODIFY		
086	* MODIFY		
089	DOMODIFY		
		SOURCE Directory	
		Page	Filename
		036	type.c
		046	pwdir.c

+ indicates a machine language source file

* indicates a machine language program

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

July 1990

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Handy Labeler Use this utility to create and print pin-feed mailing labels.

Barden's Buffer Find the solutions to eight perplexing problems with this puzzle potpourri.

Just Between Terminals Become a data processing chip and take on the responsibility of transporting data between computers, but watch out for the negative charges!

Do-It-Yourself Database Print reports and search for records with the final listing in the database series.

Wishing Well Challenge your friends to a game of *EZ-Thello*.

Education Notes Search the world over and learn to take the right directions with this educational tool.

Knight's Errant Swap the black and white knights in as few moves as possible in this challenging puzzle.

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

For Your Eyes Only Protect the security of your single-user system with password protection.

Kissable OS-9 Complete the *MVFinance* application with two update routines and loanprocs.

RAINBOW ON DISK

July
1990

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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.

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- 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.
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The system will prompt you to alternately place the source disk (RAINBOW ON DISK) or the destination disk (system disk) in Drive 0.

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

Front Side Disk BASIC Files		Back Side OS-9 Files	
		read.me.first	
		CMDS Directory	
Page	Filename	Page	Filename
JULY	MENU	033	log
014	LABEL		
025	COINTOSS		
025	MAKEBUCK		
025	EASYASPI		
025	HACKER		
025	CANNON		
025	MEETING		
025	SHUFFLE		
025	SUMDIGIT		
028	DATATRAN		
039	RETRV		
054	EZTHELLO		
086	MAP		
091	KNIGHT		
		SOURCE Directory	
		Page	Filename
		033	log.asm
		048	Update1
		049	Update2
		050	loanprocs
		048	MVFinance

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The Color Computer Monthly Magazine

ON DISK

August 1990

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Cracking Nautical Code Use this program to learn the meanings of each of the flags used aboard ships.

Wishing Well Challenge the computer to a game of *EZ-Thello*.

Frustration Extinguisher Let this program "pretty-print" your BASIC listings into an easily readable form.

Spiral Watch as the computer transforms itself into a spiral maker.

Doublewide Print two double-screen PMODE screens side-by-side.

The Assembly Line Transform your computer into an endless spiral generator.

CoCo 3 Joystick A simple program for colorful doodling with a joystick.

Who Dunit? Solve this murder mystery before you run out of time.

Line Copy Use this program to make a copy of any line in your program.

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

GIME CART* IRQs Apply these patches for proper IRQ handling under OS-9 Level II.

Life Without Line Numbers Print your name on the screen as you learn how fun BASIC09 really is.

BreakPoint Use these routines to get your process and user ID, the current time, and the device name of the screen you are using.

RAINBOW

ON DISK

August
1990

RAINBOW

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ON DISK

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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename	Page	Filename
AUGUST	MENU		read.me.first
011	CODEFLAG		CMDS Directory
030	EZTHELO2	025	FilePatch
036	* LISTER		SOURCE Directory
036	+ LISTER	025	FilePatch
036	LISTER1	026	Clock50.ptc
042	SPIRAL	026	Clock60.ptc
045	* DBLWIDE	026	init.ptc
045	+ DBLWIDE	065	PrintName
046	DWIDEBAS	066	PrintName1
046	CREATE	066	PrintName2
053	SPIRO1	074	GetID
054	SPIRO2	074	GetTime
055	* SPIRO	074	DeviceName
055	+ SPIRO		
059	JOYSTK3		
068	DETECTO		
070	LCOPY		

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Plot a Lot Graph almost any mathematical equation on the Hi-Res graphics screen.

Banzai! Challenge the CoCo or a friend to a round of Karate in the Belto Tournament.

Air Raid Fly your high-tech, bi-directional plane through the enemy's anti-aircraft missiles, but don't get hit.

Barden's Buffer Use this program to gather input from a remote keypad.

Wishing Well Use this educational program to teach your children mathematical skills involving money.

Education Notes Learn about famous Black Americans and how they helped form this great melting pot.

The Assembly Line Watch as a group of cells simulate the process of life and death.

Color Ball Play a game of pinball with a paddle instead of flippers for an unusual twist.

Addition Practice your addition skills under the challenge of the clock.

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

BreakPoint Use these six shorties to develop skills with BASIC09's file I/O commands.

KISSable OS-9 Track your students' grades (or your own) with this handy gradebook.

TSMail A powerful mail-merge utility for creating fancy and personalized form letters.

September
1990

RAINBOW

The Color Computer Monthly Magazine

ON DISK

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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.
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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.

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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename	Page	Filename
SEP	MENU	read.me.first	
012	GRAPH	CMDS Directory	
020	KARATE	040	GradeBook
031	RAID	083	TSMail
035	KEYPAD	SOURCE Directory	
037	MATHGEN3	Page	Filename
046	AMERICAN	030	Print_Test
049	EATING1	030	Input_Test
050	+ EATING2	030	Write_Test
050	* EATING2	030	Read_Test
051	EATING3	030	Put_Test
059	COLRBALL	030	Get_Test
093	ADDITION	040	GradeBook
		083	TSMail

- + indicates an assembly-language source file
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RAINBOW

The Color Computer Monthly Magazine

ON DISK

October 1990

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Spectra 3 Create your own graphics masterpieces with this amazing graphics editor.

Wishing Well Learn the relationships of numbers by selecting a number that goes between a set of given numbers.

Dice Use this routine to draw and roll a pair of computer-generated dice.

Hi-Res Input Editor Use this routine to allow graphics-screen input and backspacing.

Descriptive Error Messages Help your CoCo 3 generate error messages that a human being can understand.

The Assembly Line Teach your computer to read and modify BASIC programs.

Turn of the Screw The software end of the EPROM programmer.

Last Line Recall A utility to recall the last line entered effortlessly with only one keystroke.

All the Knight Moves Determine your Chess IQ by solving the Knight's Errant puzzle in as few moves as possible.

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

BreakPoint Six shorties to help you grasp the fundamentals of Disk I/O in BASIC09.

Getting the Picture With OS-9 A graphics viewer for VEF format graphics files.

kissable OS-9 Three shell scripts and two BASIC09 procedures to help you learn how to manipulate graphics images with OS-9.

RAINBOW

ON DISK

October
1990

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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.

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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 October 1990 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		
OCT	MENU		read.me.first
014	MAKESPEC		SOURCE Directory
020	SPECTRA	Page	Filename
025	+ SPECTRA3	032	Open_Test
025	* SPECTRA3	032	Create_Test
035	BETWEEN2	032	Delete_Test
037	DICE	032	Create_File
037	INPUT3	032	Read_File
051	ERRMSG	032	Records
056	+ INPUT	046	VEF
056	* INPUT	061	Objects.scr
057	INPUTBAS	062	GetPutDemo.scr
064	MAKEPROM	062	GetPutDemo.b09
087	LASTLINE	062	Calendar.scr
093	CHESSIQ		

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RAINBOW
The Color Computer Monthly Magazine
ON DISK

November 1990

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This edition of RAINBOW ON DISK includes:

Stevedores! A BASIC version of a popular Russian game but disguised in a new scenario.

Your Age in Days This intriguing program calculates any person's age in the number of days since he or she was born.

The Assembly Line Jump aboard the Turing bus.

Adding Machine A tape-printing adding machine that sends running totals to both the printer and the screen.

CoCos and Laser Jets Print hi-res graphics worksheets on your LaserJet-compatible printer.

Pop-Up Menus A subroutine that centers, allows for a heading, and takes the menu choices from data statements.

Education Notes Presents a calendar for the month of November, 1990, and asks several questions concerning dates and weeks.

Music Catalog A program that gives collectors an easily accessible way to keep track of their music collection.

Laser Cycles An action-video game with color graphics and sound that works on all Color Computers.

Wishing Well A program designed to help students recognize the appearance of our 50 states.

Peeking at 135 A program that can be substituted for an `INKEY$` command in programs where you do not want to pause the action while the program waits for a keypress.

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

Displaying Picture Files Two programs to demonstrate the process of run-length decoding techniques.

RAINBOW on Disk

**November
1990**

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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.

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- 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 cmsd`. 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/cmsd/filename /d0/cmsd/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.

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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename		
NOVEMBER	MENU		read.me.first
011	STEVEDOR		CMDS Directory
026	AGEDAYS	Page	Filename
034	TURING1	025	FilePatch
034	TURING2		SOURCE Directory
034	* TURING	Page	Filename
034	+ TURING	050	GetLine.b09
034	* 4CTURING	051	GetPacket.b09
034	+ 4CTURING		
036	ADD		
044	CCGRAPH		
044	\$ MSGGRAPH		
052	POPUP		
055	CALENDAR		
056	MUSIC		
060	LASER		
066	STATES		
075	PEEK135		

* Indicates machine-language program

+ Indicates assembly-language source

\$ Indicates GW-BASIC program for MS-DOS

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

December 1990

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This edition of RAINBOW ON DISK includes:

CoCo Home Video Use *CoCoShow* (provided courtesy of Colorware) to view video scenes created by the authors.

Wormy A classic computer game in which you steer the worm around the screen to eat the food.

Wishing Well A concentration-type game in which you match the 50 states.

Better Letters A word game similar to a popular board game with just a few differences in scoring.

Huck Bucks Use this program to create your own play money.

Barden's Buffer Puzzle contest winners.

Hot Gold The traditional game of hot/cold comes to the CoCo.

CoCo TV A set of programs to help you start your own TV series with a little help from your friend.

Angles on the CoCo An educational program that offers an introduction to trigonometry.

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

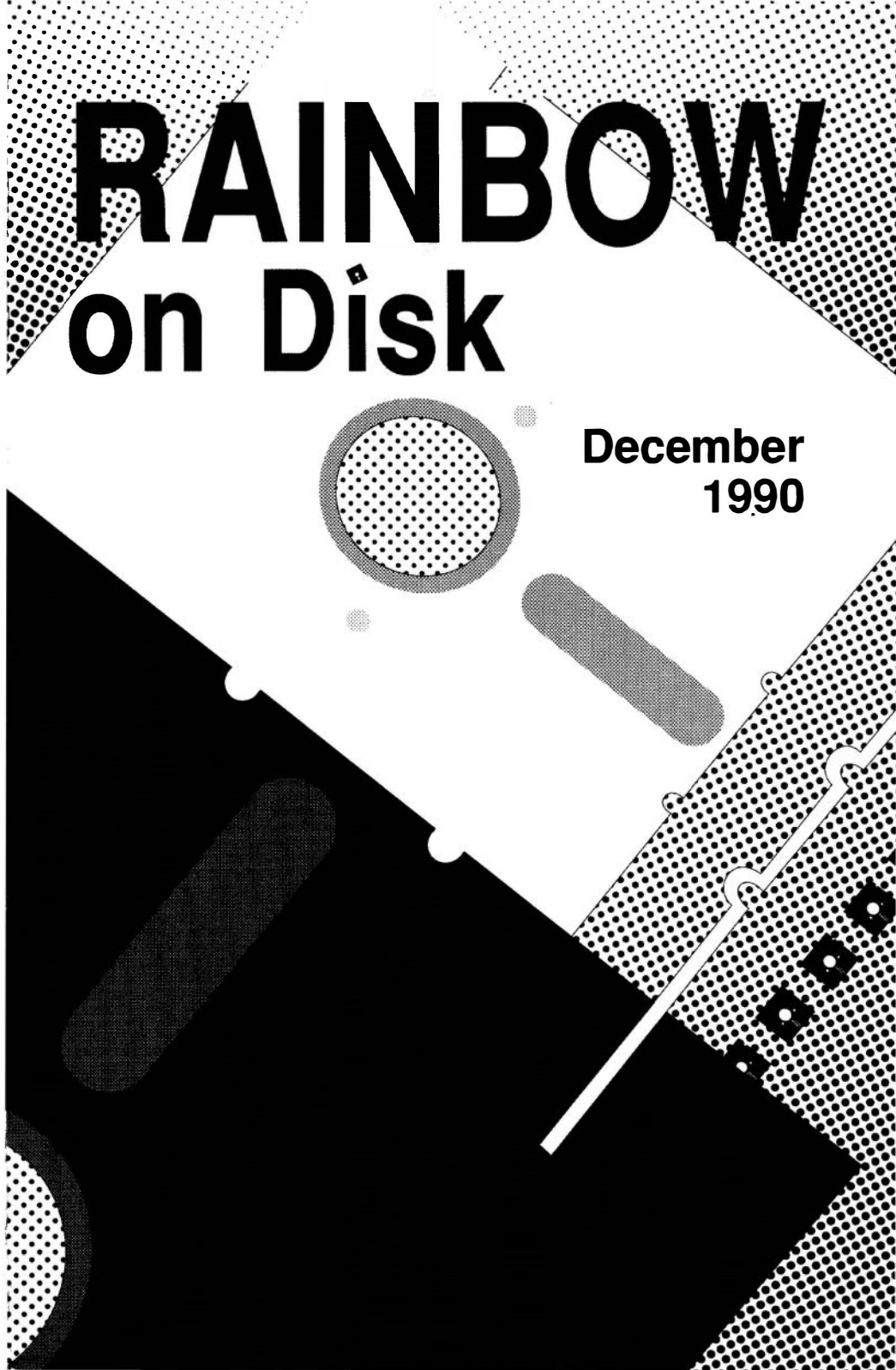
Displaying Picture Files Two programs to demonstrate data compression techniques.

Ring the Alarm A utility to examine and set alarms using the F\$Alarm system call.

RAINBOW

on Disk

December
1990



RAINBOW

The Color Computer Monthly Magazine

ON DISK

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- 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.
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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename		
DEC	MENU		read.me.first
010	+ COCOSHOW	Page	SOURCE Directory
010	* SAVESEQ	036	Filename
010	* ARIZONA	038	SetBuffer.b09
010	* CAR	041	VEF.b09
010	* HALLOWEEN	056	alarm.b09
010	* IDEAS		SumDigits.b09
020	WORMY		
029	MATCH50		
047	ADD-ON		
050	HUCKBUCK		
056	CARDPUZL		
057	DRAWCARD		
057	HOTGOLD		
064	HEADER		
065	CREDGEN		
066	TELEPRMT		
066	SCRIPTO		
067	WHOSONLN		
073	COCOTRIG		

+ CoCoShow program provided courtesy of Colorware.

Just enter RUN"COCOSHOW" to execute.

* Data files used by CoCoShow

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The Color Computer Monthly Magazine

ON DISK

January 1991

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This edition of RAINBOW ON DISK includes:

Disk Master 3 Seven menu-driven utilities allowing you to take control of your disk system on a CoCo 3.

Border Color Change A simple utility that allows you to greatly enhance your CoCo 3 screen displays.

Education Notes This month's program reviews the life-skill math problem of buying multiples of stamps and postcards at a post office.

Wishing Well This program concentrates on the relationship between different fractional parts and uses graphics to demonstrate the concept.

Coloring Draws overlapping boxes and circles on the screen that you can color and paint.

Directory Alphabetizer Arranges all filenames in a disk directory in alphabetical order.

In the Name of Equality A mathematical game similar to *Scrabble*.

Fishing for the Right Words Fishbowl encourages you to let your creative juices flow by creating a poem from 12 randomly generated words.

Pie Plotter Allows CoCo 3 users to draw multi-color pie graphs from raw data.

Directory Lister Sends the directory listing of a disk to the printer.

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

Weights & Measures Allows you to quickly convert from one type of measurement to another.

BreakPoint Three sample programs to demonstrate the principles of opening, creating and determining the existence of files.

Append A multi-function utility that can be used as a replacement for both `build` and `merge`.

Module Buster A utility that breaks down files of merged modules.

RAINBOW on Disk

January
1991

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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.
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- 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 January 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	
JAN	MENU	CMDS Directory	
012	CONFIG	Page	Filename
012	BOOT	052	test_1
014	* EDIT.SYS	054	test_2
016	* LIST.SYS	054	test_3
018	* TEST.SYS	068	Append
020	* TRAK.SYS	SOURCE Directory	
021	* COPY.SYS	Page	Filename
022	* KILL.SYS	030	Measure.b09
022	* SORT.SYS	052	test_1.c
024	BORDER	054	test_2.c
024	+ BORDERA	054	test_3.c
035	MAIL	068	Append.asm
040	VISFRAC2	071	Make_Append.b09
044	COLORING	094	Bust.b09
055	DIRALPHA		
062	EQUALITY		
064	FISHBOWL		
084	PIECHART		
086	DIRLIST		

+ Assembly Language Source

* These files are not stand-alone — they are designed to be run with the *Disk Master 3* system. Also, they must have a .SYS extension.

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

February 1991

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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.

RAINBOW on Disk

February
1991

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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.

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

- * Machine Language Program
- + Assembly Language Source

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RAINBOW
The Color Computer Monthly Magazine
ON DISK

March 1991

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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.

RAINBOW on Disk

**March
1991**



RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename		<code>read.me.first</code>
MAR	MENU	CMDS Directory	
009	CREDITS	Page	Filename
011	BLAKJACK	029	sort
018	COCODL	SOURCE Directory	
020	VISFRAC4	Page	Filename
043	OHMS-LAW	029	sort.asm
052	WARP1	030	MakeSort.b09
052	WARP2	073	auto.b09
054	+WARP		
054	* WARP		
057	CRAPS		
078	HSCR4EXP		

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

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

April 1991

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This edition of RAINBOW ON DISK includes:

Resounding CoCo Use CoCo 3 graphics to create music with this remake of *Music+*.

Easy Come, Easy Go A fun card game inspired by the game *Card Guppies*.

Music Test A program designed to help budding musicians learn the lines and spaces on the treble and bass staves.

Barden's Buffer Let *EZ Assembler*, a screen-oriented mini-assembler for the CoCo 3, help you decide if machine-language programming is for you.

Tic-Tac A computerized version of the classic game *Tic-Tac-Toe*.

Freedom A graphics demo that creates a snake of lines that moves randomly around the screen, much like that in the arcade game *Qix*.

Wishing Well Fred Scerbo offers a program that helps familiarize users with checkbook skills.

Music Grid Creates an effect similar to the musical tones and flashing colored lights seen in *Close Encounters of the Third Kind*.

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

BreakPoint Greg Law gives us a handy utility that creates multiple directories and subdirectories in one pass.

Menu System A custom, no-fuss, no-hassle menuing system for Level II.

RAINBOW on Disk

April
1991



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ON DISK

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APR	MENU		CMDS Directory
015	MUSIC3+	Page	Filename
021	EASYGO	029	<code>makedir</code>
031	MUSICTST		SOURCE Directory
032	EZASM	Page	Filename
050	TIC-TAC	029	<code>makedir.c</code>
053	FREEDOM	039	<code>ms.b09</code>
058	LIFESKL7		SYS Directory
060	MUSCGRID	Page	Filename
		45	<code>main.mnu</code>

Note: You must enter `POKE25,14:POKE3584,0:NEW` before loading MUSIC3+.

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RAINBOW
The Color Computer Monthly Magazine
ON DISK

May 1991

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The disk is specially formatted and contains both BASIC and OS-9 operating system programs.

This edition of RAINBOW ON DISK includes:

Ultralace Here are the first three files for *Ultralace*, the ultimate shoestring desktop publisher, by H. Allen Curtis.

KnightShift A two-player, strategy game in which the king who traps the other king on the grid wins.

Barden's Buffer A sample program that demonstrates how to use the *EZ Assembler* for your own assembly-language projects.

Doc Reader A CoCo 3 program that lets you view and print text files quickly and easily.

Compound Interest A short, useful program that calculates compound interest in annual, semi-annual, monthly or daily periods.

The Assembly Line Create your own world with three different animals -- a play on the game of *Life*.

Pyramid An "easy-to-play" solitaire game. But watch out -- it's easy to get addicted to this one.

Space Kamikaze A shoot-'em-up arcade game where the object is to destroy as many enemy kamikaze spacecraft as possible.

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

OS-9 File Viewer A program that allows you to use the up and down arrow keys to scroll forward and backward through ASCII text files.

RAINBOW on Disk

**May
1991**



RAINBOW

The Color Computer Monthly Magazine

ON DISK

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 `DOM 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: `CMD5` and `SOURCE`. It also contains a file, `read.me.first`, which explains the division of the two directories. The `CMD5` directory contains executable programs and the `SOURCE` directory contains the `ASCI` 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 `CMD5` directory, enter `dir cmd5`. 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 `CMD5` directory on your system disk with one of the following commands:

One-drive system: `copy /d0/cmd5/filename /d0/cmd5/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/cmd5/filename /d0/cmd5/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 May 1991 edition of RAINBOW magazine. (The corresponding page number is noted for your convenience.)

Front Side		Back Side	
Disk BASIC Files		OS-9 Files	
Page	Filename		
MAY	MENU		<code>read.me.first</code>
012	GENFMENU	SOURCE Directory	
013	GENFONTI	Page	Filename
014	GENFONTN	009	<code>scrolf.b09</code>
017	KNIGHT		
040	+ CLRSCN		
040	* CLRSCN		
040	CLRSCNDR		
050	READD0C		
055	COMP-INT		
057	PREDATOR		
057	+ PREDATOR		
057	* PREDATOR		
079	PYRAMID		
080	SPACE		

+ Assembly-language source

* Machine-language program

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

June 1991

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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 come 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.

RAINBOW on Disk

June 1991



RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

This disk is a "floppy," 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	
Page	Filename
read.me.first	
CMDS Directory	
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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RAINBOW

The Color Computer Monthly Magazine

ON DISK

July 1991

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This edition of RAINBOW ON DISK includes:

House *House Inventory* provides a means through which you can maintain a complete inventory of your household items. Items can be listed by room, year of purchase, and original cost. The program calculates a probable cost for each item and tallies the inventory by room. Finally, it lists total cost and replacement cost for the entire house.

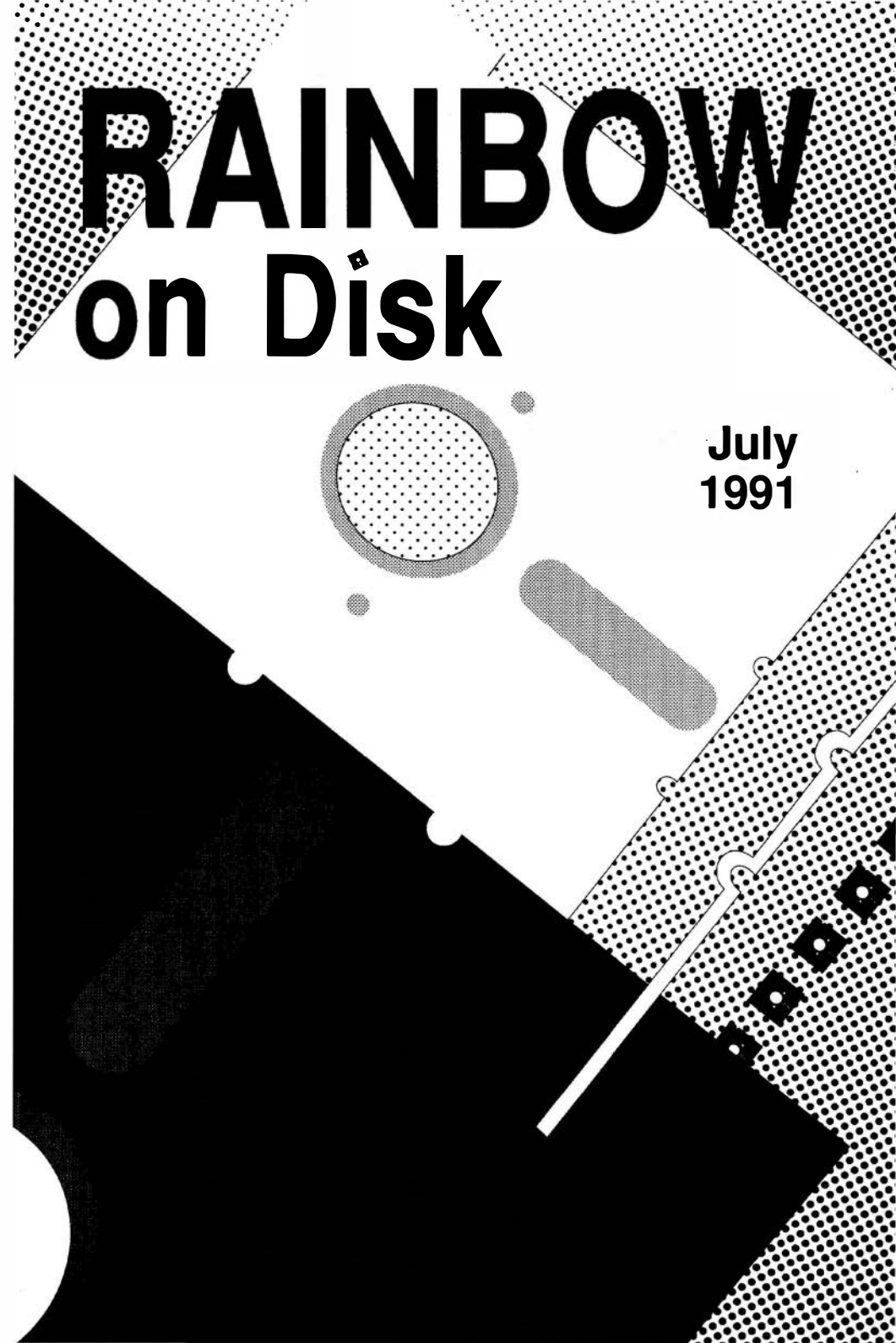
The Assembly Line Watch the balls fall as you read along in your study of probability and statistics.

Ultralace Another chapter in the *Ultralace* saga presents the completed versions of the main *Ultralace* program for both Tandy and Epson-compatible printers.

Superdice Welcome to *Superdice*, a takeoff on a very popular dice game. If you're tired of blasting alien spacecraft or frying creepy-crawleys squirming across your video screen, you need this change-of-pace game.

RAINBOW on Disk

July
1991



RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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

Front Side Disk BASIC Files

Page	Filename
JUL	MENU
015	HOUSEINV
031	PUCHINK1
031	PUCHINK2
031	* PUCHINKO
031	+ PUCHINKO
036	ULT
036	ULE
042	SUPRDICE
XXX	% RESET

+ Assembly-language source

* Machine-language program

% Assembly-language source code for RESET from the June 1991 issue.

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RAINBOW

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August 1991

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This edition of RAINBOW ON DISK includes:

Font Magician Add the IBM extended character set to the CoCo 3's graphics.
Text and Graphics With `PIXTEXT4`, you can place text directly on a `PMODE 4` screen.

Palette Control *Palette 40/80* allows you to change the foreground and background colors of the CoCo 3's 40- or 80-column screen to any of the 64 available colors.

Text-Screen Dump *TextDump* is a useful utility that allows you to dump 32-, 40- and 80-column screens from BASIC any time you need a hardcopy of the text on the current screen.

Tax Tables This program prints a six-column sales-tax chart for the percentage rate you choose.

Megatank Your mission is to save your home planet from alien invasion. But to accomplish your mission, you must battle five different waves of aliens — choppers, blades, bats, saucers and fireballs.

The Assembly Line An assembly-language technique for enlarging graphics images.

Ultralace: The Epson Version The ultimate shoestring desktop publisher for the CoCo 3.

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

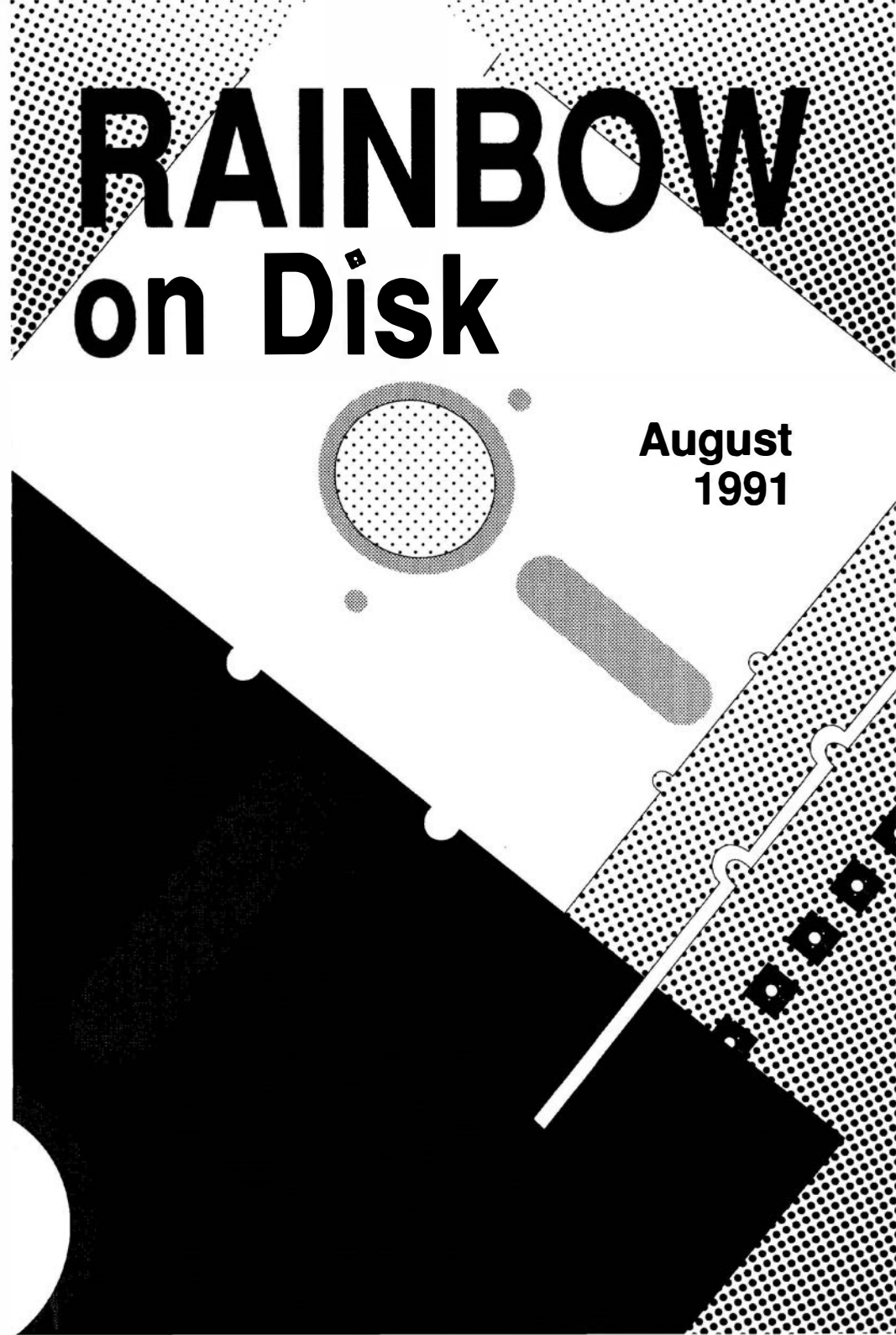
BreakPoint Sample programs to demonstrate writing system calls in C.

Interrupted Again A software technique that eliminates the cartridge-interrupt problem.

OS-9 Hotline Use Tim Kientzle's *View 4.3* to view pictures from several graphics formats including GIF, VEF, CM3 and MGE.

RAINBOW on Disk

August
1991



RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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- 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 August 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		<code>read.me.first</code>
AUG	MENU		CMDS Directory
010	MKFONT	Page	Filename
013	LOADER	038	<code>view</code>
022	PIXTEXT4		SOURCE Directory
023	PAL40-80	Page	Filename
023	TEXTDUMP	019	<code>Get_ID.c</code>
024	TAXTABLE	019	<code>test_Get_ID.c</code>
034	MEGATANK	019	<code>getpid.c</code>
042	ENLARGE1	019	<code>getuid.c</code>
042	ENLARGE2	019	<code>GBikMp.c</code>
043	* ENLARGE	020	<code>GModDr.c</code>
043	+ ENLARGE	020	<code>test_GModDr.c</code>
057	ULE	020	<code>CpyMem.c</code>
057	ULT	021	<code>moddir.c</code>
		028	<code>FilePatch.b09</code>
		029	<code>irqpoll.asm</code>
		029	<code>clock60.ptc</code>

+ Assembly-language source

* Machine-language program

View 4.3 is provided on RAINBOW ON DISK courtesy of Tim Kientzle. List the `readme.txt` file in the VIEW directory to learn more about this shareware graphics viewer.

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

September 1991

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This edition of RAINBOW ON DISK includes:

Let CoCo Do the Grading *Test Grader* uses BASIC string functions to make short work of grading multiple-choice tests.

The Assembly Line Look on as objects are transformed using a process known as affine transformation.

Turn of the Screw Use these two programs to set and read Tony DiStefano's real-time clock. Also allows you to integrate the date and time into your BASIC programs.

Name That Country A BASIC program that tests your skills as you learn to identify 192 countries around the world. Uses CoCo 3 graphics.

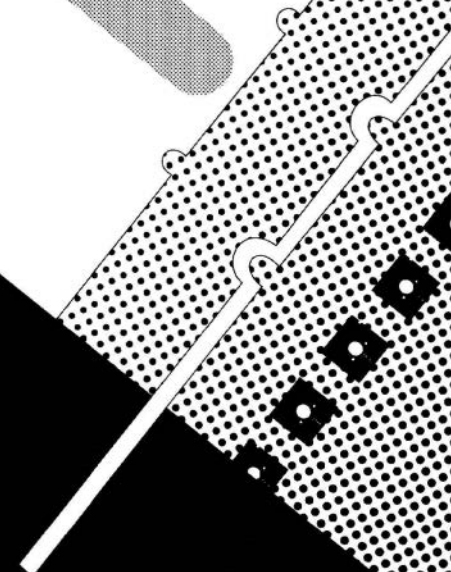
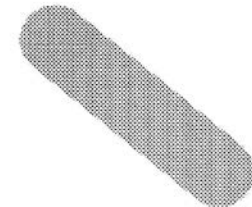
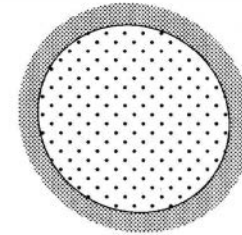
The OS-9 "flip" side of this month's RAINBOW ON DISK includes:

Addressed to You An easy-to-use address label maker for BASIC09.

OS-9 Hotline Use this short program to put your CoCo 2B into true-lowercase mode with OS-9 Level I.

RAINBOW on Disk

September
1991



RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename	read.me.first	
SEP	MENU	CMDS Directory	
016	MCTEST	Page	Filename
021	AFFCOMP	050	tlcase
021	AFFINE1	SOURCE Directory	
021	AFFINE2	Page	Filename
022	* AFFINE	046	AdrLabel.b09
022	+ AFFINE	050	tlcase.b09
042	SETM	050	tlcase.asm
044	CLKGEN		
059	COUNTRY		

+ Assembly-language source

* Machine-language program

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

October 1991

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This edition of RAINBOW ON DISK includes:

Turn of the Screw Learn as you burn with the assembly-language source code for Tony DiStefano's EPROM programmer.

Pyramid 2 A fun-to-play version of Pyramid solitaire for the CoCo 1 and 2.

Cable TV Create your own listing of the local cable-TV channels to tape to the back of your TV's remote control.

A Color Doodler Draw lines of any length, at any angle, and in any of 15 different colors, anywhere on the screen.

Vocabulary Aid Use this hands-on approach to learn correct word spellings and definitions.

Indians A graphics/music program that plays the song "Ten Little Indians."

The Assembly Line Drop a pebble and watch the waves.

Music Tutor Use this teaching utility to learn notes on the musical staff and the keys on an organ.

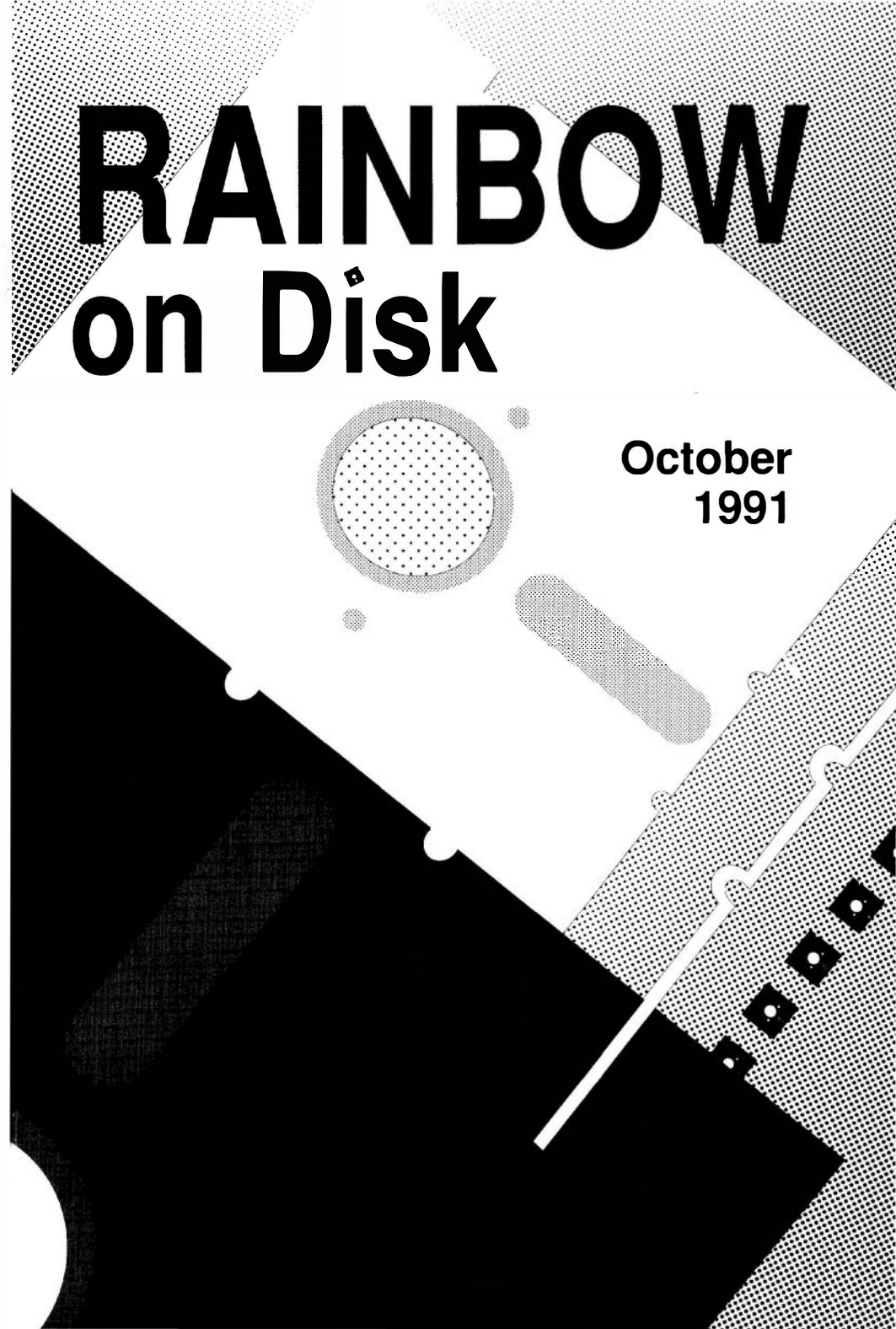
The OS-9 "flip" side of this month's RAINBOW ON DISK includes:

Making the Move Use Bob Santy's *RSDOS* utility to transfer files between Disk BASIC and OS-9 disks.

Easy Display An enhanced OS-9 `display` command that accepts decimals.

RAINBOW on Disk

October
1991



RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename	<code>read.me.first</code>	
OCT	MENU	CMDS Directory	
019	+ EPROM	Page	Filename
026	PYRAMID2	048	Display
036	CABLETV	SOURCE Directory	
037	CLRDUDLR	Page	Filename
038	VOCABLRY	048	Display.asm*
040	INDIANS	050	MakeDisplay.b09
045	WAVES1	The files for <code>rsdos</code> , as discussed in Tim Kientzle's article "Making the Move," are provided on RAINBOW ON DISK courtesy of Bob Santy. List the <code>rsdos.doc</code> file in the <code>RSDOS/DOC</code> directory to learn more about this shareware file-transfer utility.	
046	WAVES2		
046	* WAVES		
046	+ WAVES		
060	NOTETUTR		
* Machine-language program			
+ Assembly-language source			

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The Color Computer Monthly Magazine

ON DISK

November 1991

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This edition of RAINBOW ON DISK includes:

The Assembly Line *Life* is a classic computer game; nobody wins, nobody loses — it's just fun to watch.

File Finder A program that gives you a quick and easy method of determining whether or not a file is on disk.

Echo Remember those electronic games that tested your ability to repeat sequences of lights and sounds? *Echo* reproduces all the excitement (and frustration) on the CoCo.

CoCo-Dot A fun and entertaining game for children of all ages. Simply connect the dots to draw a picture.

Tape-to-Tape ML A handy utility for copying machine-language files from one tape to another.

Egg Timer A CoCo 3 program that can be used to time any one-, two- or three-minute game or other imprecise event.

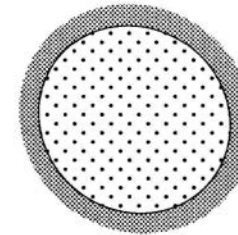
Badge Master Let the CoCo keep track of awards earned by members of your organization.

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

Communicating with OS-9 Share the fun of going online with *SuperComm 2.1a*, a Level II terminal program provided here with the permission of Dave Philipsen.

RAINBOW on Disk

November
1991



RAINBOW

The Color Computer Monthly Magazine

ON DISK

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Front Side		Back Side	
Disk BASIC Files		OS-9 Files	
Page	Filename		
NOV	MENU	022	read.me.first
020	LIFEDRVR		SuperComm
020	* LIFE		
020	+LIFE		
027	FILEFNDR		
027	ECHO		
028	COCODOT		
029	COPYML		
029	EGGTIMER		
047	BADGE		

CMDS Directory	
Page	Filename
022	SuperComm

SuperComm 2.1a is provided here with the permission of Dave Philippen. List the `SuperComm.doc` file in the root directory to learn more about this shareware terminal program for OS-9 Level II.

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

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ON DISK

December 1991

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This edition of RAINBOW ON DISK includes:

Press Continue Make the ordinary a little more exciting; use this subroutine to add pizzazz to screen pauses.

File Size Don't believe Disk BASIC's little lie — let *File Size* calculate the exact size of your files.

PMODE 4 Snapshot Save selected portions of PMODE 4 graphics images to tape or disk.

Improved Directory IDIR modifies the CoCo 3 directory listing so it includes the total number of files on the disk as well as the number of granules occupied.

Peggy A challenging one-player game for the CoCo 3. Test your wit and skill!

Palette Tints *Tintpal* displays groups of similar colors, making it easier to decide which shade you want to use in your graphics creations.

Sound Generator Build new sounds and sound effects with the Color Computer. You can even add your creations to BASIC programs.

Pirate's Treasure Search the world for hidden treasure with this text-based adventure game.

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

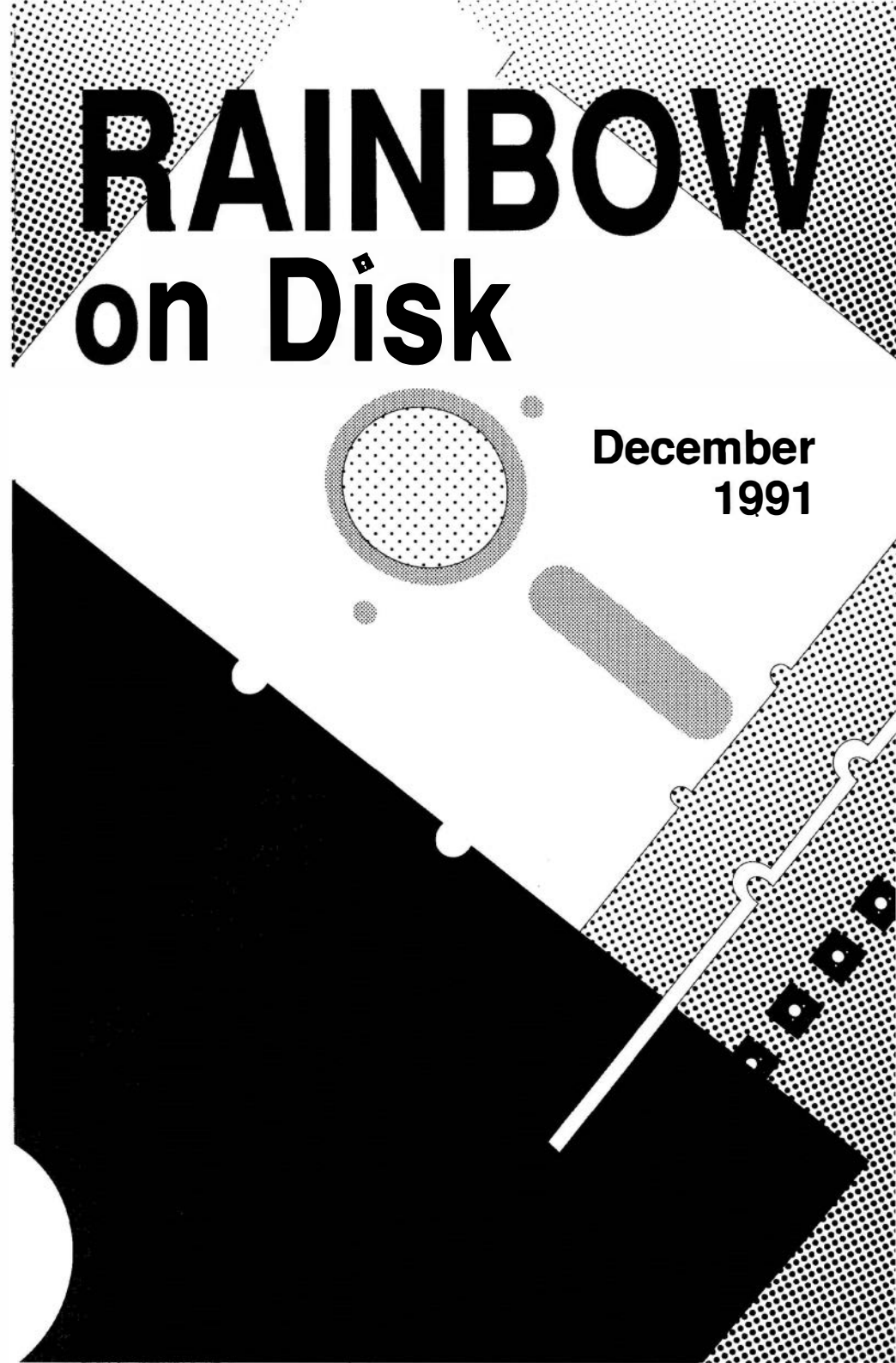
Spicy Dice Take the OS-9 road to the glamour, glitter and gamble of Las Vegas with this simple dice game for Level II.

BreakPoint Use the *Procedure Generator* to turn those executable binary programs into BASIC09 programs that use data statements to re-create the original file.

RAINBOW

on Disk

December
1991



RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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.

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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.
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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 December 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
DEC	MENU	
020	PRESCONT	
020	FILESIZE	
021	PM4PTSCR	
021	IDIR	
022	PEGGITY	
025	TINTPAL	
030	SOUNDGEN	
047	DEMON	
		SOURCE Directory
		Page
		Filename
		015
		Dice_Game.b09
		040
		ProcGen.b09

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

January 1992

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The disk is specially formatted and contains both BASIC and OS-9 operating system programs.

This edition of RAINBOW ON DISK includes:

The Game of Mill Experiment with artificial intelligence and the CoCo with this centuries-old game.

Directory Helper This BASIC utility helps you copy or delete groups of disk files in one move.

Christmas Home A graphics program that brings you home for the holidays.

Poke Text A tutorial/program that shows you how to put text characters directly onto the screen.

Disk Table Print disk-granule-allocation reference tables in decimal and Hex.

DeSpace The easy way to make your programs more efficient by taking unnecessary spaces out of them.

Screen Selector Adjust the CoCo 3's screen colors and cursor parameters on the fly.

Check Disk A Disk-BASIC version of the MS-DOS CHKDSK command.

Photo Database Keep track of camera settings for your negatives — a must for photographers.

By the Numbers A subroutine that converts whole numbers to their written equivalents.

The Compressor *TC*, a shareware file-archive/compression program by John Lauro. Versions for all CoCos are included.

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

Archiver Use `unTC` to decompress Disk BASIC archive files. Also included is *Ar*, Version 1.3, a popular OS-9 file-archive/compression utility written by Carl Krieder.

The Separator Use `Sep`, a BASIC09 utility, to break merged executable files into their component modules.

RAINBOW

on Disk

January
1992

RAINBOW

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ON DISK

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Front Side Disk BASIC Files		Back Side OS-9 Files
Page	Filename	read.me.first
JAN	MENU	ar.man
021	MILLDRV	sep.hlp
021	* MILL	
021	+ MILL	
027	DIRECT	
039	XMASHOME	
039	POKETEXT	
040	DISKTABL	
040	DESPACE	
040	SCREEN	
041	CHKDSK	
042	CAMERA	
042	NUMBERS	
010	* TC12	
010	* TC3	
010	* TC31	
010	# TC12	
010	# TC3	
010	# TC31	

CMDS Directory	
Page	Filename
11	UnTC
10	ar

SOURCE Directory	
Page	Filename
011	UnTC.c
034	sep.b09

- * Machine-language program
- + Assembly-language source file
- # ASCII documentation file

Special thanks to John Lauro, author of *TC*, and Carl Krieder, author of *ar*, for their permission to put these file-archive/compression programs on this month's RAINBOW ON DISK. And remember, please register shareware you use.

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The Color Computer Monthly Magazine
ON DISK

February 1992

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This edition of RAINBOW ON DISK includes:

Versabase A CoCo 3 information-filing system that uses modules to meet many different database needs. Included on this disk are complete filing programs for video tapes, addresses, compact discs, photos and medical records.

The Assembly Line *Zig-Zag* lets you create repeating patterns and teaches you aspects of assembly language at the same time.

Logic Puzzler Test your logic skills with this easy-to-use logic puzzle creator.

Sine Lines 3 A CoCo 3 remake of an older CoCo "random-graphics" program.

CoCo Hangman A, b, c and you're out — but maybe not — with this CoCo 3 version of the popular children's game.

Pre-fab Arkitekt Use four basic building blocks to "design" your own structures.

Pop-Up Menus Learn how to use pop-up menus in your own BASIC programs.

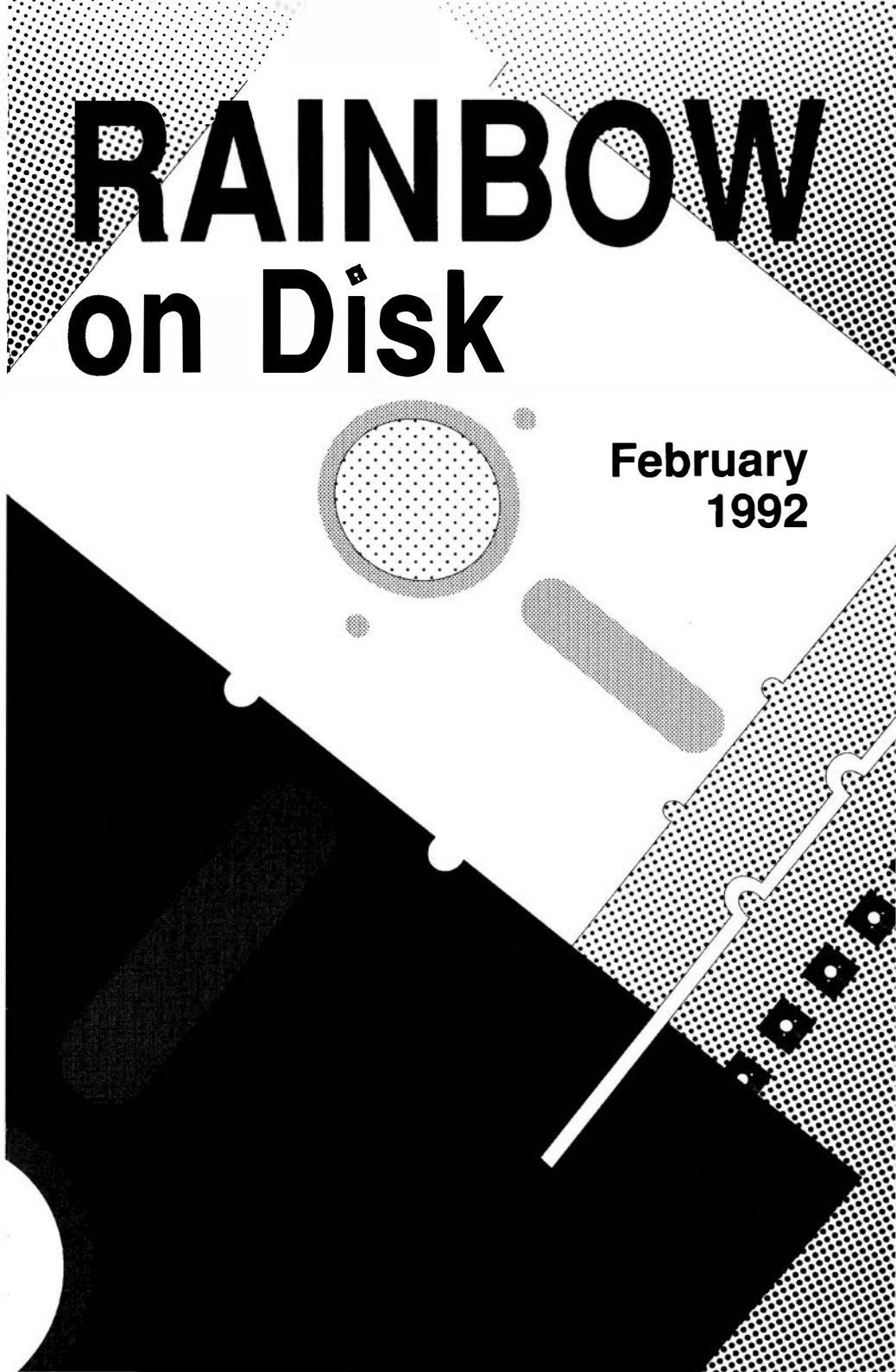
Serial Communications DANTERM is the software portion of a system that helps you achieve reliable host operation through the Coco 3's serial port.

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

BreakPoint This new version of Greg Law's `makeDir` command automatically puts new directory names in uppercase.

RAINBOW on Disk

**February
1992**



RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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Front Side Disk BASIC Files

Page	Filename
JAN	MENU
012	VCRDATA
014	ADDRESS
015	COMPACT
016	PHOTOS
016	MEDICINE
021	ZIGZAGDR
021	* ZIGZAG
021	+ ZIGZAG
024	LOGIC
032	SINLINE3
032	COCOHANG
034	ARKITEKT
035	POPUPMEN
038	* DANTERM
038	+ DANTERM
040	DANTERMB

Back Side OS-9 Files

read.me.first

CMDS Directory

Page	Filename
018	makedir

SOURCE Directory

Page	Filename
018	makedir.c

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

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ON DISK

March 1992

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Word Finder Use the CoCo 3 to find difficult words in word-search puzzles.

Boot BASIC With DOS Now you can enter the simple DOS command to boot BASIC programs. This two-program package sets it up for you.

Recipe Filer II This "full-screen" recipe editor for the CoCo 3 helps you organize your delectable delights.

The Wizard Play this checkers-like game and protect your castle from the powerful wizard.

Master List A feature-packed filing system that tracks personal addresses — or modify it for other tasks. You can add records, edit, sort, search and more. Requires at least 64K and one disk drive.

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

File Finder Locate lost files on floppy disk or hard drive with this spiffy utility by Stephen Goldberg.

RAINBOW on Disk

**March
1992**



RAINBOW

The Color Computer Monthly Magazine

ON DISK

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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename		
MAR	MENU		read.me.first
006	WORDFIND		
010	AUTOBOOT		
010	BOOTDATA		
014	RECIPE2		
015	WIZARD		
024	MLDATA		
025	BOOT		
025	MLIST		
		CMDS Directory	
		Page	Filename
		028	Find
		SOURCE Directory	
		Page	Filename
		028	Find.asm

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

April 1992

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This edition of RAINBOW ON DISK includes:

EW Spider Encourage younger users with graphics and music in this "rainy day" children's favorite.

Variable Stars This short CoCo 3 program draws stars with a variable number of points.

EZ Disassembler A complement to Bill Barden's EZASM, EZDASM can be used to disassemble machine-language programs in memory.

Directory Shortcut A demo program showing how easy it is to achieve multi-column directories with the CoCo 3.

Program Launcher Get started the easy way — this stand-alone program provides a menu from which you can execute other disk-based BASIC programs.

Patriot Command Enjoy hot desert warfare with this arcade-style game in which you command the missiles.

Sideways Printer Spreadsheet too wide to print on standard paper? No problem. Use *Sideways* to turn it on end. Works with any ASCII text file.

Test Your Luck Though it should be called "Test Your Reflexes." Try to win the big bucks as the CoCo 3 flashes messages onscreen.

Gone Fishin' This graphics quickie for the CoCo 3 shows you some real computer anim(al)ation.

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

Salvage Rather than carry out the trash, let the CoCo help you clean up the mess. *Salvage* is designed to copy files that reside on damaged disk sectors, allowing you to recover most of the original file.

RAINBOW

on Disk

April
1992

RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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.

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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.

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The following is not intended as a course in OS-9. It merely states how to get to 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.
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The system will prompt you to alternately place the source disk (RAINBOW ON DISK) or the destination disk (system disk) in Drive 0.

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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.

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Front Side Disk BASIC Files		Back Side OS-9 Files
Page	Filename	read.me.first
APR	MENU	
004	EWSPIDER	
008	VARISTAR	CMDS Directory
008	EZDASM	Page Filename
008	* EZDASM	018 salvage
010	SHORTCUT	
017	LAUNCHER	SOURCE Directory
020	PATRIOT	Page Filename
024	SIDEWAYS	018 salvage.asm
025	BITTEST	018 makesalvage.b09
025	* BITTEST	
025	TESTLUCK	
027	FISHIN	

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RAINBOW
The Color Computer Monthly Magazine
ON DISK

May 1992

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This edition of RAINBOW ON DISK includes:

AutoGray A CoCo 3 HSCREEN dump that supports printing eleven different gray levels.

PMODE Screen Dumps Fast machine-language programs that dump PMODE images to Tandy and IBM/Epson printers.

Swap Around A CoCo 3 game to challenge your critical thinking skills; written by George and Ellen Aftamonow.

Ultralace Update & Upgrade An ASCII "merge" file with fixes and upgrades for *Ultralace* by H. Allen Curtis. Also included is a program that enables you to use your own artwork in *Ultralace* publications.

Season Racer Race through the four seasons in your own Formula One Color Computer 3.

Disk Identification A program that gives you all the nitty gritty info about the files on your disks.

Title Screens Use this demo for ideas when designing title screens for your programming creations.

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

Vname Change disk volume names on the fly; written by Stephen Goldberg.

Transliterate Three versions of a program that changes characters in OS-9 disk files; written by Greg Law and discussed in "BreakPoint."



RAINBOW on Disk

**May
1992**

RAINBOW

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ON DISK

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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename	Page	Filename
MAY	MENU		read.me.first
004	AUTOGRAY		
012	* TANDUMP		
012	+ TANDUMP		
014	* IBMDUMP		
014	+ IBMDUMP		
015	TANDUMPB		
015	IBMDUMPB		
017	SWAP		
020	ALTUL		
020	ARTWORK		
028	SRACER		
029	ID		
030	TITLES		
		CMDS Directory	
		Page	Filename
		006	Vname
		022	trs
		022	trb
		023	tr
		SOURCE Directory	
		Page	Filename
		006	Vname.asm
		007	Makevname.b09
		022	trs.c
		022	trb.c
		023	tr.c

* Machine-language program
+ Assembly-language source code

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The Color Computer Monthly Magazine
ON DISK

June 1992

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This edition of RAINBOW ON DISK includes:

Card-Player's Sort A demo program that shows a handy technique for sorting data.

Star Grabber This two-player arcade game is sure to cause more than a few spats — all in fun, of course!

Around the World A music/graphics demo that's really out of this world.

PRINT@ Converter Use this utility to change PRINT@ statements to LOCATE statements for the CoCo 3 Hi-Res screens.

Matchmaker Need to match people in pairs? Let *Matchmaker* handle the task for you.

CLS Routines Machine-language modifications for the CLS command in the CoCo 3. You can scroll, stack and fade text from the screen.

Beat the Bomb Say you're good at word-scramble games? We hope you don't get too big of a "bang" out of this one.

Bar Graph Printer Print simple bar graphs quickly and easily with this short program.

Screen Expander Use this ML graphics utility to expand the Hi-Res screens on the CoCo 3 to 320 (or 640) by 192 pixels and 40 (or 80) by 27 lines of text.

CoCo Purchase Orders *CoCoPO* takes some of the hassle out of ordering by mail, giving you a neat record of your order.

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

Pretty Tired of adding spaces to your OS-9 assembly-language listings to clean them up? *Pretty*, by Stephen Goldberg, will columnarize them for you.

RAINBOW on Disk

June
1992

RAINBOW

The Color Computer Monthly Magazine

ON DISK

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JUN	MENU		
006	CARDSORT		
011	STARGRAB		
012	INORBIT		
015	CONVERT		
016	MATCHMAK		
018	* SNAKE		
018	+ SNAKE		
018	* STACKER		
018	+ STACKER		
018	* FADER		
018	+ FADER		
022	BEATBOMB		
024	BARGRAPH		
024	* EXPANDER		
024	+ EXPANDER		
030	COCOPO		
		CMD5 Directory	
		Page	Filename
		008	Pretty
		SOURCE Directory	
		Page	Filename
		008	Pretty.asm
		009	Makepretty.b09
		* Machine-language program	
		+ Assembly-language source code	

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July 1992

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Base Converter A CoCo 3 program that makes easy work of converting numbers between decimal, hexadecimal and binary.

File Peeker Discover what's in your disk files with this handy utility.

Intersection A game of skill in which you try to locate the intersection of two lines. Sounds easy, doesn't it?

128K Backup Copy disks on single-drive systems with fewer swaps. A machine-language utility for the CoCo 3.

Electronic File Cabinet Designed to help you track personal or small business inventories, this program works on any 16K Extended CoCo.

Disk Master Become the master of your disk system with this professional-looking CoCo 3 utility.

Number Crunch Beat the clock as you try to gobble up as many numbers as possible.

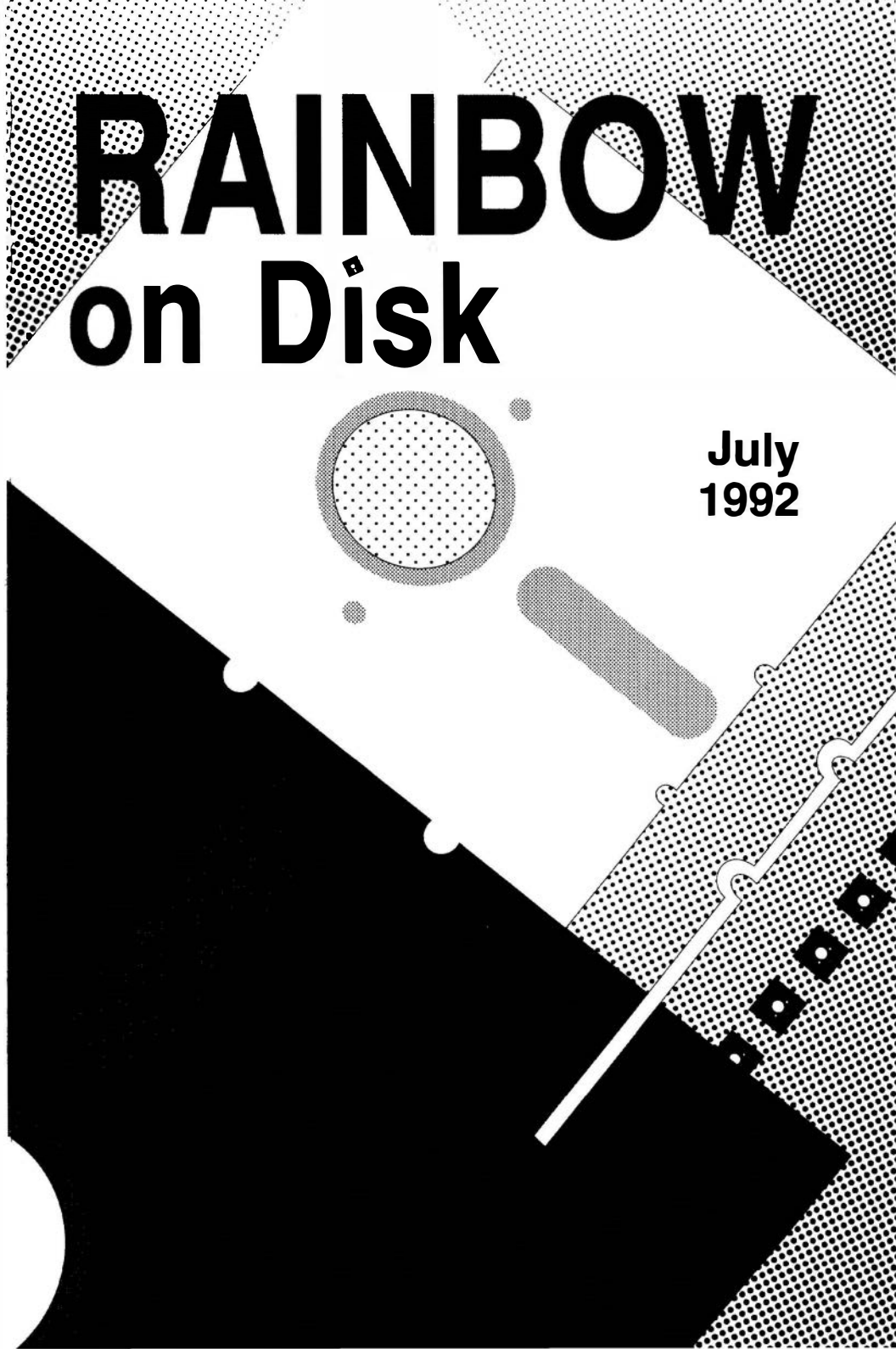
The OS-9 "flip" side of this month's RAINBOW ON DISK includes:

Rep Repeat OS-9 commands the easy way with this utility by Stephen Goldberg. Allows repeated action on multiple files and supports input redirection.

Skip a Line A handy utility for double-space printing of OS-9 text files and BASIC09 listings.

RAINBOW on Disk

July
1992



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JUL	MENU		read.me.first
004	CONVERT		
004	FILEPEEK		
006	INTRSECT		
010	BACKUP		
014	ECABINET		
020	DMASTER		
023	STRDMOD3		
024	NCRUNCH		
		CMDS Directory	
		Page	Filename
		012	Rep
		SOURCE Directory	
		Page	Filename
		012	Rep.asm
		013	MakeRep.b09
		022	skip.b09

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The Color Computer Monthly Magazine
ON DISK

August 1992

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The disk is specially formatted and contains both BASIC and OS-9 operating system programs.

This edition of RAINBOW ON DISK includes:

Grocery Shopping Let the CoCo help you track your home grocery inventory and create shopping lists for your trips to the store.

Easy Forms Need to build a custom form? This CoCo 3 program, designed for use with Tandy DMP printers, can help.

Quickie Editor Write short reminders and make note-taking simple with this CoCo 3 program.

Key Frames Discover the world of computer animation with this demo program — it works with any CoCo with at least 16K and Extended BASIC.

CoCo 3 Artifacts If you want to see 256 apparent colors on one screen, artifacting using the techniques in COLOR256 may be for you.

Disk Sorter Get your disk files in order with this handy utility.

Animation Show These programs use screen flipping on PMODE screens to show how you can create animated sequences.

The Right Location Use PRINTAT, a programmers tool, to help determine just where you want messages appearing onscreen.

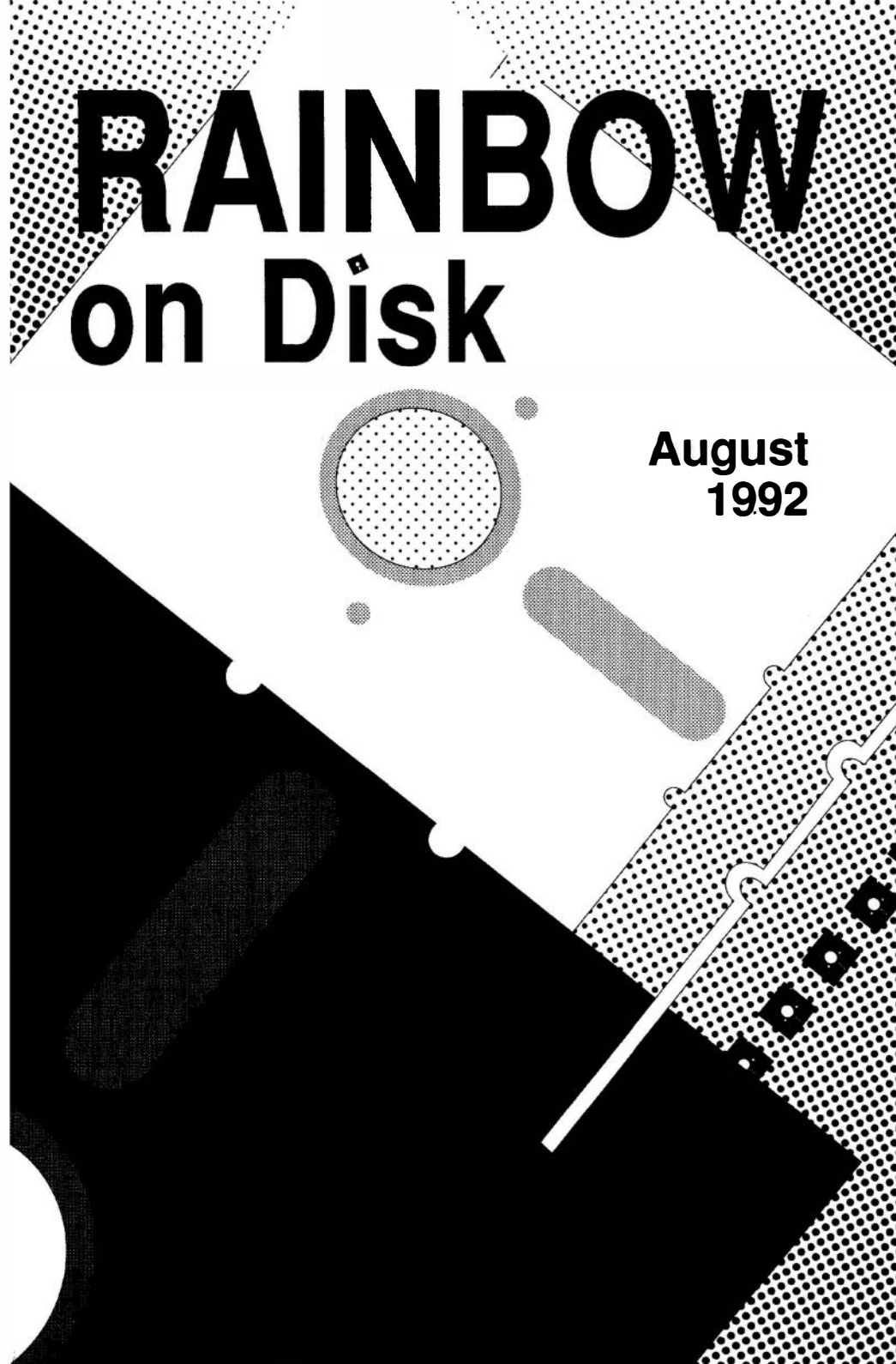
Care Packages *Postal Care* prints warning labels for use on disk and tape packages you plan to send through the mail.

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

Key Frames A demo program in C, showing the effect of using key-frame interpolation for graphics animation.

RAINBOW on Disk

**August
1992**



RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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.

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Front Side Disk BASIC Files

Page	Filename
AUG	MENU
004	GROCERY
008	FORMS
011	ED
013	KEYF
015	COLOR256
020	DISKSORT
022	* ANIM
022	+ ANIM
024	ANIMDRAW
024	ANIMSHOW
024	PRINTAT
025	POSTCARE

Back Side OS-9 Files

read.me.first

CMDS Directory

Page	Filename
013	Keyf

SOURCE Directory

Page	Filename
013	Keyf.c
012	Wind4

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

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ON DISK

September 1992

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This edition of RAINBOW ON DISK includes:

Equation Solver Written by students, for use by students — solves several different forms of algebra equations.

Print Hex Charts Print a handy decimal/hexadecimal conversion chart and place it by your CoCo for quick reference.

Letter Scramble Try to guess the three characters the computer has picked. You've got only 20 guesses, so be careful.

Climb to the Top A unique game by George and Ellen Aftamonow in which you try to rearrange colored playing pieces to score points.

Make Disk Jackets A useful way to keep track of which program is on which disk — create disk jackets with printed directories on them.

Math Driller If you have a need for repetitive fundamental math problems, this program is the way to go.

Roots Determine roots of algebraic equations graphically.

Function Grapher Let your CoCo draw your math functions for you with a little help from this educational program.

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

Count A Unix-like utility for OS-9 that counts lines, words and characters in text files. Written by Stephen Goldberg.

BASIC09 Save Procedure A BASIC09 utility that allows you to save single modules from memory to disk.

RAINBOW on Disk

**September
1992**



RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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.

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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename		
SEP	MENU	read.me.first	
002	EQUATION	CMDS Directory	
004	HEXCHART	Page	Filename
004	SCRAMBLE	006	Count
012	UPTOP	SOURCE Directory	
013	DJACKET	Page	Filename
013	DRILLER	006	Count.asm
018	BASROOMS	009	MakeCount.b09
018	* ROOTS	023	bsave
018	+ ROOTS		
022	GRAPHIT		

* Machine-language program

+ Assembly-language source code

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ON DISK

October 1992

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This edition of RAINBOW ON DISK includes:

BASIC Animator A demonstration program that illustrates smooth and fast animation using BASIC.

Automobile Repair Log Another filing program from the *Versabase* series, *Carlog* helps you stay on the road.

Directory Saver Store disk directories as ASCII files for later perusal using a word processor.

Outerspace Cleanup If you like dodging asteroids while picking up "treasures," *Interplanetary Trash Collector* is for you. It's also useful for garbage-truck drivers who need to practice pothole avoidance.

See What You Delete This little utility alters the `EDIT` command so you can see which characters you are deleting. It also gives you a more versatile `RESTORE` command.

Headers Use these headers at the beginning of the programs you enter from THE RAINBOW and you'll never again forget which issues they appeared in.

ASCII Artist An easy to use "screen" editor that allows you to place ASCII characters in any screen position and print the result. Great for doodling with ASCII characters!

Molecular Mass Chemistry students can use this simple program to determine the total mass of the molecules they study.

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

Directory Sorter A BASIC09 utility for sorting disk directories under OS-9.

BBS9 A full-featured database for keeping track of the online information systems and BBSs you contact. Written in C by Phil Scherer.



RAINBOW on Disk

**October
1992**

RAINBOW

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ON DISK

Instructions for Use

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Front Side Disk BASIC Files

Page	Filename
OCT	MENU
003	ISPIN
006	CARLOG
006	DIRSAVER
010	IPTRASH
012	FIXEDIT
012	HEADER12
012	HEADER3
013	CLIPBORD
016	MOLEMASS

Back Side OS-9 Files

read.me.first

CMDS Directory

Page	Filename
018	bbs9

SOURCE Directory

Page	Filename
004	SortDir.b09
018	bbstop.c
018	bbssearch.c
020	bbsen_del.c
022	bbsdis_ch.c

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This edition of RAINBOW ON DISK includes:

Password Protection "Lock" the CoCo when you must step away for a moment. Without the correct password, others can't use your machine.

Minefield A challenging strategy game in which you use logical thinking to predict where the hidden bombs are located — the shorter the time, the better your score.

XDRAW A quick demo illustrating the use of queues for programming.

CoCo Goes Buggy Create your own computerized bug zapper with this machine-language program by William Nee.

CoCo Phone Book An easy-to-use database for storing phone numbers and addresses for family, friends and business acquaintances.

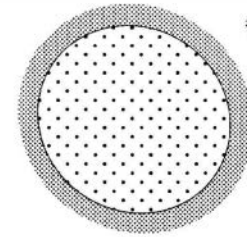
Celsius Converter This simple BASIC program can be used to convert Celsius temperature readings to the Fahrenheit scale and vice versa.

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

Echo A new version of the OS-9 `echo` command, offering improved control of screen output.

RAINBOW on Disk

**November
1992**



RAINBOW

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ON DISK

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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.

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Front Side Disk BASIC Files		Back Side OS-9 Files
Page	Filename	read.me.first
NOV	MENU	
004	* PASSWORD	
004	+ PASSWORD	
004	PASSWORD	
006	MINFIELD	
008	XDRAW	
014	BUGDRIVE	
014	* BUGS	
014	+ BUGS	
016	COCOFONE	
020	CELSIUS	
		CMDS Directory
		Page Filename
		020 echo
		SOURCE Directory
		Page Filename
		020 echo.src
		021 makeecho.b09

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

December 1992

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The disk is specially formatted and contains both BASIC and OS-9 operating system programs.

This edition of RAINBOW ON DISK includes:

Bingo Cards Print your own Bingo cards (four to a page) with this easy-to-use Color Computer program.

Triangulation Discover the world of Chaos, and see how random numbers can be used to generate finite shapes.

Get on Target Target practice in the winter? *Phaser Range* can do it, with a little help from the CoCo.

Grid War Sink a battleship or two with this "board" game for the CoCo 3. You can almost smell the cordite.

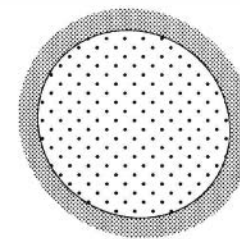
Bytes We often take these little creatures for granted. Now take a look at how they work.

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

Snow Flakes A BASIC09 routine that draws random snowflakes onscreen. Better yet, it can be set up as a screen saver.

RAINBOW on Disk

December
1992



RAINBOW

The Color Computer Monthly Magazine

ON DISK

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?

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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.
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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 December 1992 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
DEC	MENU	
004	BINGOCDR	
006	TRIANGLE	
006	PHASER	
010	GRIDWAR	
016	BYTES	
		SOURCE Directory
		Page Filename
		011 Flake_Maker.b09
		012 Flakes.b09
		012 Makelcon.b09
		012 AIF.fik

Bonus Program: Bill Budenholzer sent us a little present for the Holidays, and we're passing it on to you with his permission. The program requires OS-9 Level II and can be found in the XMASBALL directory on the OS-9 side of this disk. Short operating instructions are provided in the `read.me.file` in the root directory of the disk.

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RAINBOW

The Color Computer Monthly Magazine

ON DISK

January 1993

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The disk is specially formatted and contains both BASIC and OS-9 operating system programs.

This edition of RAINBOW ON DISK includes:

Gopher Smash Prepare for the upcoming lawn season and practice dealing with these pesky little critters.

Prompt Improvement Add a little more usefulness to the OK prompt. This short utility displays the current drive number and amount of free memory.

Compressed HSCREENS CMPSAVE and CMPLOAD let you save and load HSCREEN images to disk in compressed form — a real space saver for those with a lot of graphics images.

Disk Defragmentor Speed file access by rewriting disks so files are stored in consecutive granules.

Darn It A challenging (and sometimes very frustrating) solitaire game for the CoCo 3.

Screen Saver Add this subroutine to your BASIC programs to help prevent the possibility of “burning” your monitor screen.

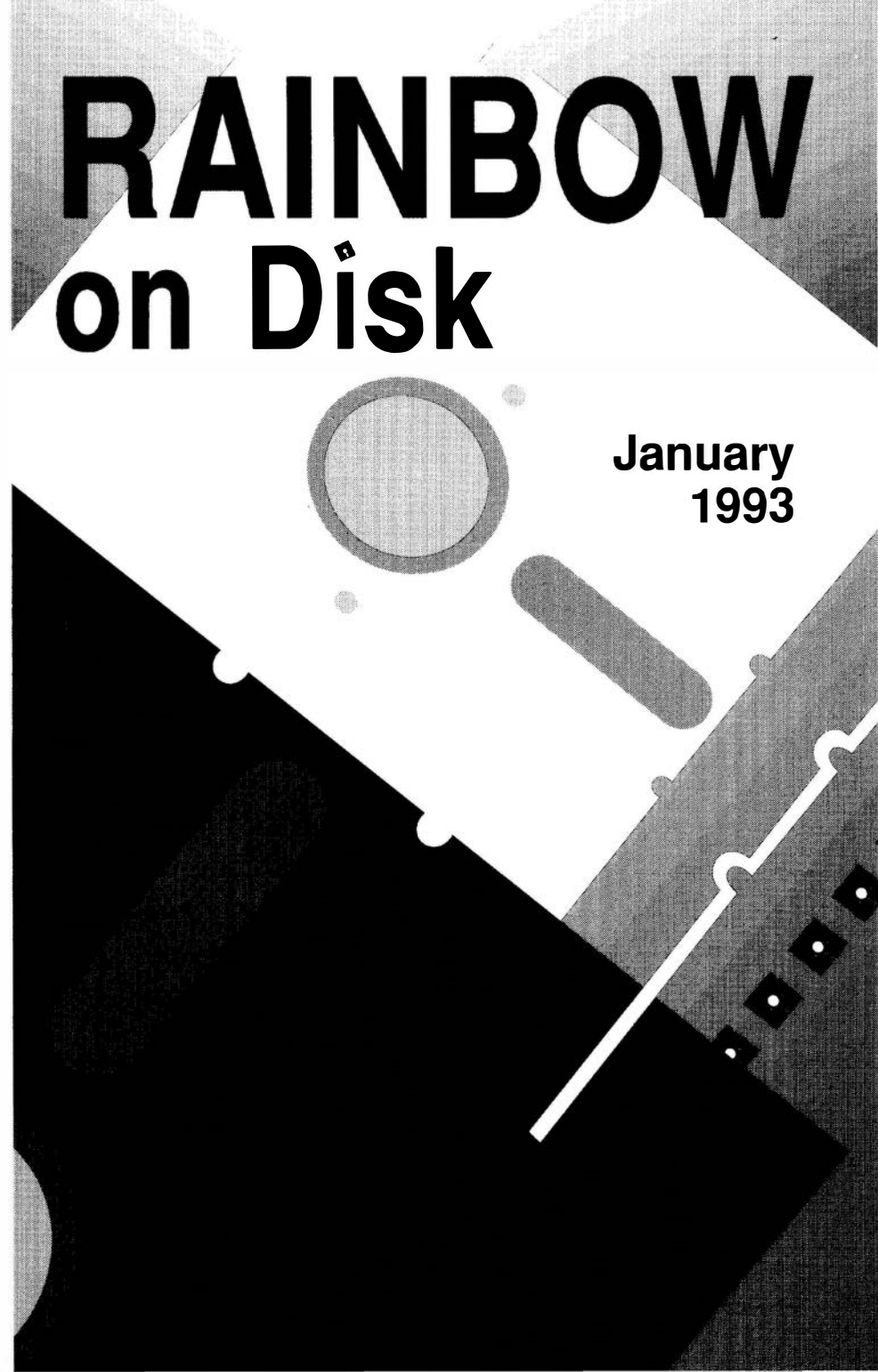
Another CLS Routine NEWCLS gives you a unique way to clear the 32-column screen.

The OS-9 “flip” side of this month’s RAINBOW ON DISK includes:

Sendcode Send control codes to your printer, screen and other OS-9 devices the easy way with this handy utility.

RAINBOW on Disk

January
1993



RAINBOW

The Color Computer Monthly Magazine

ON DISK

Instructions for Use

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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.

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- 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.
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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename	read.me.first	
JAN	MENU		
004	SMASH		
004	PROMPT		
005	CMPSAVE		
005	CMPLOAD		
008	DISKFRAG		
010	DARNIT		
011	SSAVER		
019	NEWCLS		
		CMDS Directory	
		Page	Filename
		17	Sendcode
		SOURCE Directory	
		Page	Filename
		017	Sendcode.c
		017	printer.code
		017	screen.code

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The Color Computer Monthly Magazine

ON DISK

March 1993

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This edition of RAINBOW ON DISK includes:

Joystick Tester Make sure your joysticks are alive and well with this short BASIC program.

Fast GET/PUT Operations *Skipper* shows you how faster GET/PUT operations can really enhance your animation routines.

Alphabet Unscrambler A game that helps young children get a handle on their ABCs.

Old Glory Draw a perfect rendition of the American flag using your CoCo 3 and color monitor.

VEF for Disk BASIC Load and save graphics images using the standardized VEF format — under Disk BASIC.

Go for Twenty-One A quickie game in which you try to score 21 or better by stopping the numbered dial in the right places.

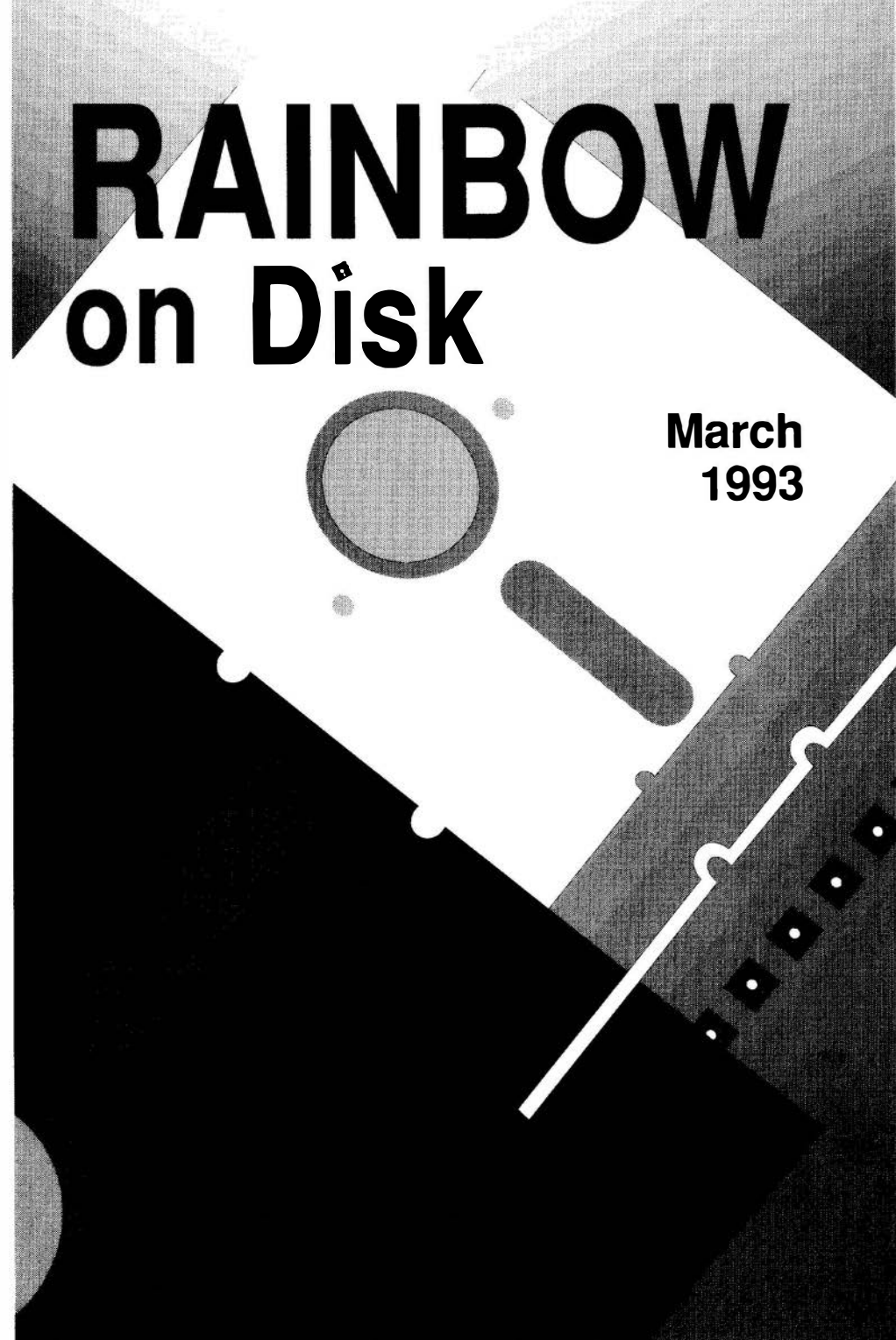
Calendar Check past and future dates with this CoCo 3 program — just enter the month and year and a calendar is displayed.

The OS-9 “flip” side of this month’s RAINBOW ON DISK includes:

Modify Window Descriptors Three simple procedure files for OS-9 Level II show how easy it is to modify windows temporarily or permanently.

RAINBOW on Disk

March
1993



RAINBOW

The Color Computer Monthly Magazine

ON DISK

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Front Side Disk BASIC Files		Back Side OS-9 Files	
Page	Filename		read.me.first
MAR	MENU		
003	JOYTEST	SOURCE	Directory
003	SKIPPER	Page	Filename
008	ALPHABET	006	changew5
009	OLDGLORY	006	changew4
011	VEFIT	006	changew8
012	TWENTY1		
015	CALENDAR		

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