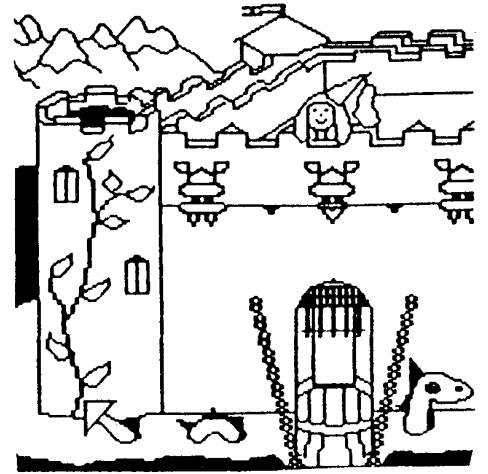


the forward's today

TANDY Color Computer Magazine



Volume 1, Numbers 10+11

Single \$1.50

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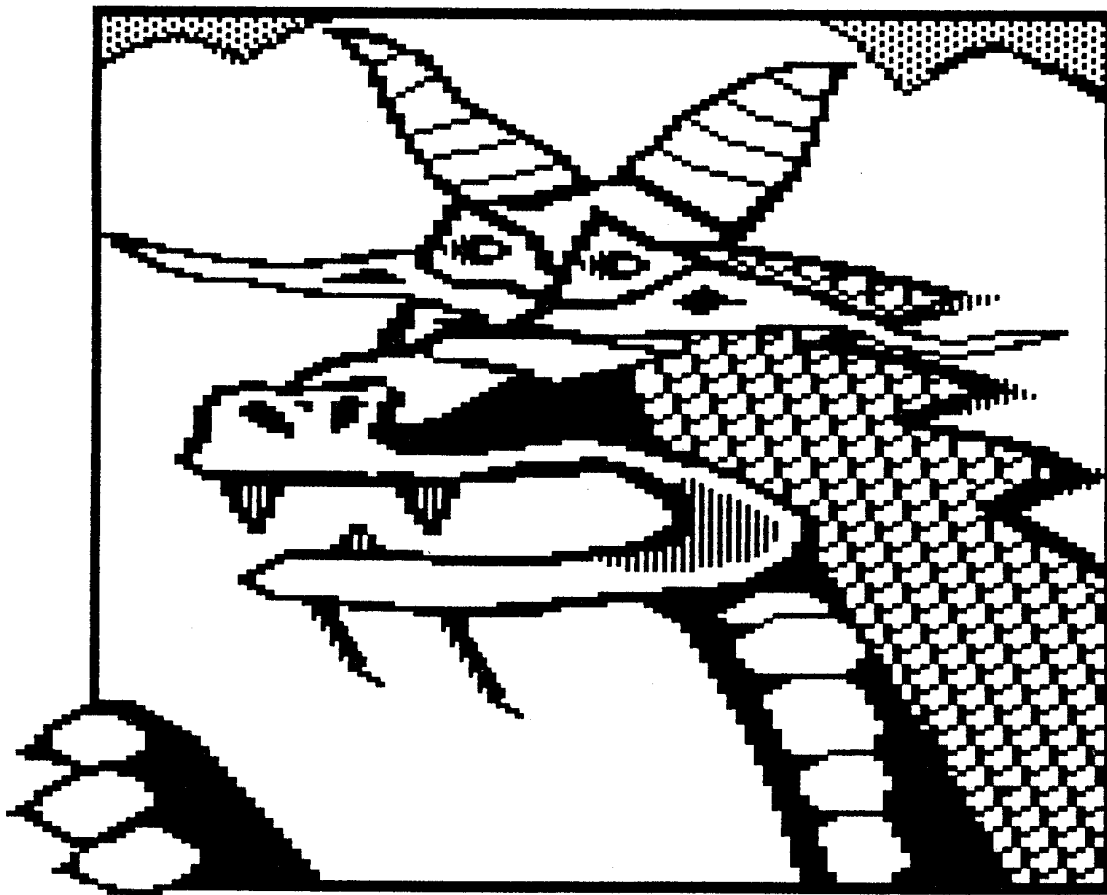


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 * Volume 1, Numbers 10+11 *
 * June & July 1988 *
 * (C)1988 *
 * Edited and Published *
 * By: Bobby Roger Queen *
 * BBS # (704)-434-2629 *
 * *****

"The WIZARD'S CASTLE" is published monthly by Bobby Roger Queen; 1737 Farmville Road; Shelby, NC 28150-9406.

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Rates are as follows : \$10/yr USA, \$20/yr Canada, and \$30/yr for overseas. All funds must be <US>.

The purpose of this magazine is to provide help to every Color Computer user. This magazine will continue to support all the Color Computers (CoCo's).

The submission of questions, penpal ads, scores, post-it-notes, reviews, hints, programs, etc. to be published in this magazine will be highly encouraged. Every thing that is submitted becomes the property of "The WIZARD'S CASTLE". We reserve the right to edit all the materials used, and not to publish materials which we determine to be unsuitable for publication.

We highly encourage submission of programs as well as articles on appropriate subjects. All programs must be well documented so readers can understand how these programs work. We currently do not pay for these programs or articles, but we may start some time in the future. Materials sent in will not be sent back unless proper return postage is included. All programs should be sent in on a disk or tape & any needed comments should be saved as an ASCII file. We prefer programs to be submitted on disk but we'll accept them on tape also.

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 * NOTICE *
 * EFFECTIVE IMMEDIATELY NEW! *

 * DISPLAY AD RATES *
 * *
 * Deadline for ads is the 20th of *
 * the month prior to printing. *
 * *
 * Pages 1Month 6Months 12Months*
 * *
 * 1/4 \$15.00 \$ 75.00 \$150.00 *
 * 1/3 \$20.00 \$100.00 \$200.00 *
 * 1/2 \$25.00 \$125.00 \$250.00 *
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NOTICE:
 Artwork must be camera ready. All rates listed are per page or fraction thereof. Please enclose full payment with each ad copy. Absolutely no X-Rated Ads.



Changes upon changes upon changes! Seems like all I ever talk about is changes. Well for the first time we are having to combine 2 issues into one. I hope this won't happen again, but if articles, & ads don't come in, then I can't get the magazine out. So, get busy out there so this won't happen again. Well we lost a few ads this month but hopefully we can get a few new ones before the next issue. Our list of subscribers is slowly creeping up but I hear the same thing almost every day on the BBS. You are going to have to help me get the word out about our magazine. Every day someone on the BBS calls new & wants to know what "The WIZARD'S CASTLE" is and how they can get a copy. I know that most of you haven't even written me, much less sent me the names of everyone you know who has CoCo's. How about sending those names to me right now while I've got your mind on it. Also, I thought there were a few programmers out there, but I must've been wrong because programs continue to just barely trickle in. You know if you send a program to RAINBOW it might take 3 or 4 months before you see it. Not with us, if you'll mail your program in, it will be in the next available issue. So let's get busy out there. Remember to send those programs, articles, reviews, etc., for this magazine to:

"The WIZARD'S CASTLE"
1737 Farmville Road
Shelby, NC 28150

ANNOUNCING the cover contest was extended until May the 31st but I still haven't received many covers. Some of you are still holding out on me. Don't forget that the first place prize is a copy of 'DESKMATE' for the CoCo 2. I hope everyone is about ready to mail their entries in. Also, our new contest is going to be a one or two liner contest. I know you have been wanting better prizes and now T&D is offering a full 6 months subscription as the grand prize. The deadline is going to be August the 15th so hurry and send it in soon. No matter what you have to send in this area send it to:

--"The WIZARD'S CASTLE"
C/O Cover Contest
1737 Farmville Road
Shelby, NC 28150

This months cover is one of the few covers that has come in so far. It is one of the first of many (I hope) that are already on their way to be entered in this contest. Let's see the mail come pouring in. Oh yes, don't forget to put your 'FULL NAME' on any item sent in to us. Even if you MAIL it in, or whether you UPLOAD it to our BBS (The NEWSROOM). Thanks again, for helping me to continue this growing publication.

Remember one man alone can not put out a publication as 'GREAT' as this one. Thanks again.

--The WIZARD

letters letters



to the editor

This is a column which will include letters written to the Editor which may have to be slightly edited due to space. Other than this the letter will be printed as it appears.

Dear Wizard,

I just received my sample copy of the latest issue of "The Wizard's Castle." I'm happy to say that I was quite surprised at the quality of your magazine. Being an avid devotee to the Color Computer I am always thrilled when someone is able to offer a new product for its fans.

But enough flattery, allow me to introduce myself. I am a twenty year old young man and am well on my way to obtaining a bachelor's degree in electrical engineering and a master's in computer engineering. My system set-up consists of:

- 512K color computer 3
- Tandy disk drive
- CM-8 RGB monitor
- DMP-130 printer
- Tandy 300 baud modem
- and a lot of software.

I have worked and played with computers (mostly our beloved Coco) for over five years. I am experienced in programming in BASIC, FORTRAN, & assembly language. My hobbies include golfing; drag racing; watching MASH, Star Trek, and Late Night with David Letterman; playing D&D; collecting comic books; and, of course, tinkering with my coco.

I noticed in the sample issue that you are quite receptive to reader's input, so in an effort to help your cause I have included 2 reviews for possible submission.

I would sincerely like to subscribe to your magazine but I am unable to at the moment because I'm flat broke!!

But hopefully I will be able to help you in any way I can.

If you'll permit me I would like to offer some (hopefully constructive) criticism. Your reader input sections; i.e. Questions for the Wizard, Pencil-Pals, Letters to the Editor, Post-it Notes, and Doctor CoCo; are somewhat confusing due to their style of split-page printing. Of course this is a personal opinion, but I find it to be more interesting and less confusing if printed in the standard cross-page style.

I totally enjoyed your variety of artwork throughout the 'CASTLE'. I liked all your columns but was particularly glad to see your BBS column and you can't imagine how useful the BBS ID & Password sheet has been.

In closing may I say I love the 'CASTLE' and I send best wishes to the 'WIZARD'.

DOES
THIS NEWS
JUST TICKLE YOUR
EAR?

REMUSIC 1.0 is here!

REMUSIC is a versatile, programmable music synthesis software package requiring only a 16K disk-based CoCo(32K recommended). Enter musical data as BASIC program REM statements -- no graphic interface is used.

Once loaded, REMUSIC keeps a low profile as you roll merrily along in BASIC. Here are a few of REMUSIC's powerful features:

- *Four independent voice tracks
- *Definable and dynamically assignable tone waves and amplitude envelopes, allowing such effects as decay, vibrato, and tremolo
- *Music plays through TV or monitor speaker
- *Nestable multiple music repeats with the option of different endings
- *Key signature and two different transposition modes
- *Ability to mathematically link repeat iterations with such functions as transposition, octave, tempo, waveform assignment and subordinate repeats and endings
- *Ability to convert music to independent machine-language programs for use in your own programs
- *Since music source files are actually BASIC programs, they can be edited and merged as other BASIC programs can.

Package includes program diskette, sample music files, and documentation.

Send check or money order for \$25.00* to:

CODIS ENTERPRISES
2301-C CENTRAL DR., STE. 684
BEDFORD, TX 76021

*Texas residents add \$1.75 sales tax.



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Since the benefits of REMUSIC 1.0 must be heard to be appreciated, CODIS ENTERPRISES offers a diskette containing a sampling of the quality of music of which REMUSIC is capable. Best of all, it requires no additional hardware. To receive this audition, send \$2.00 to CODIS ENTERPRISES for the demo disk and a coupon entitling you to a two-dollar discount on REMUSIC 1.0.

Name _____ Mail to: _____

Address _____

City _____ State _____ Zip _____

Mail to: CODIS ENTERPRISES
2301-C CENTRAL DR.
STE. 684
BEDFORD, TX 76021

Please send me the REMUSIC demo disk for \$2.00*.
 REMUSIC 1.0 for \$25.00*.

Enclosed is a check or money order for \$_____.

*Texas residents add 7% sales tax.

WC



questions

for



"The Wizard"

Here is where you can consult the 'WIZARD' on any and all problems you might have if he can't help you he will be honest and tell you so. But who knows he may be the one who can solve that big problem that has been bothering you for ages.

Dear Readers,

Due to the slack amount of mail we have not received any questions for the WIZARD. Maybe you can think up some good ones for next month. Until then this is the WIZARD saying 'TALK AT YA LBER'.

Signed,
The WIZARD

! Programs!

New!! CC3 PAK

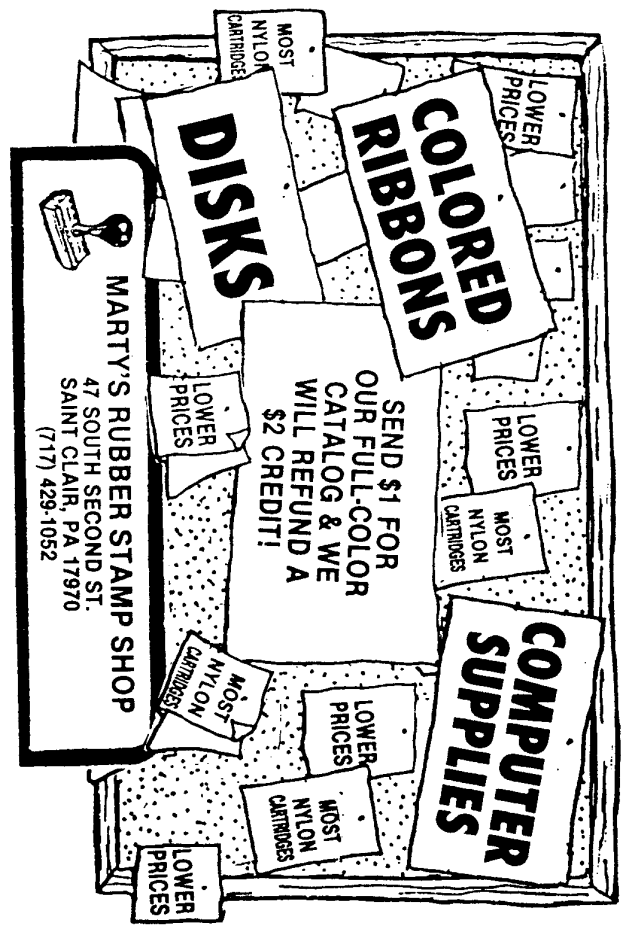
Get 50 hot new CoCo 3 files on disk for only \$6.00. Contains graphics editors, games, animations, ROM fixes, ST and MGE pictures, and more.

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- * COMPREHENSIVE ANALYSIS
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- * USE FOR ROOM ADDITIONS
- * INSTRUCTIONS INCLUDED IN SOFTWARE

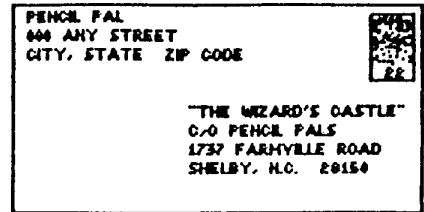
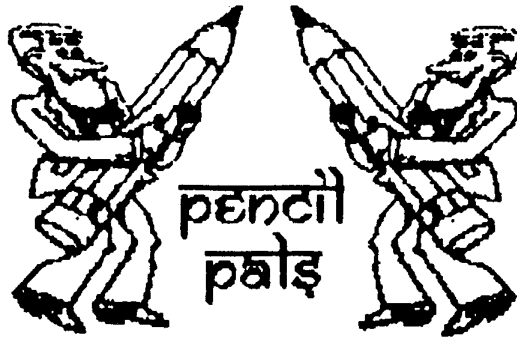
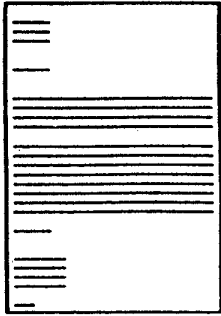
FEATURES:

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- * EASY TO USE, SELF PROMPTING
- * PROFESSIONAL RESULTS AT A LOW COST, SAVE \$\$\$!

- * HARDCOPY/EXAMINE PROGRAM INCLUDED
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- * FOR THE "D.I.Y." (DO IT YOUR-SELF) ADDICT
- * FOR THE PROFESSIONAL OR NOVICE

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(919)-882-6255



This is for readers from all over the world to write to other CoCo Nuts from all over. Feel free to write to anyone listed on this page. They may want to trade ideas, programs or may just want someone to write to.

My name is Jarrett Feeman. I own a CoCo 2, 2 joysticks, cassette recorder and lots of tapes. I'm looking for a Pen-Pal who likes adventure games.

--Jarrett Feeman
115 Mountville Drive
Lebanon, PA 17042

My name is Remon Samy Ebrahim. I live in EGYPT and I'm looking to find some Pen-Pals. I have a lot of programs. I just lost my best penpal and I'm looking for another. Please Write!!!!

--Remon Samy Ebrahim
8 Aziz Fahmy Street
Tanta, EGYPT

My name is Andrew Cooper and I'm looking for Pen-Pals anywhere in the U.S.A. I have a 64K CoCo 2, disk drive and lots of software.

--Andrew Cooper
311 Fern Drive
Atco, NJ 08004

My name is 'QUICKSILVER'. I live in Monroe, Va. I have a 64K CoCo 2, with disk drive and cassette. I am interested in all areas of programming, games, utilities, assembly language programming, & disk operation. All letters will receive a response.

--QUICKSILVER
Route 1 Box 69
Monroe, VA 24574

What do computers eat?
A BIT here, a BIT there!

--Bob Mart

My name is Roderick Clark and I'd like to have some 'pen-pals' from anywhere who has a CoCo 3. I have a CoCo 3, DCM-3 modem, FD501 disk drive and several games etc., for the CoCo 3! Please Write me!!!

--Roderick Clark
15215 Chase Ridge
Missouri City, TX
77489

My name is John Lentz. I have a CoCo 3 - 512K, two disk drives, a Magnavox BCM 515 monitor, multi-pak W/O PAL, DMP-105 printer, and an Avatex 2400 modem. I'm wanting to trade programs, ideas, or talk about anything. Please write me. All letters will be answered.

--John Lentz
5100 W13421 Loomis Dr
Muskego, WI 53150

My name is Brad Bansner. Do you like graphics?? I also have lots of games, etc.....

--Brad Bansner
2006 Apple Place
Wyomissing, PA 19610

My nickname is the Miner 49er. I have a CoCo2, a disk drive, a DMP-130 printer and lots of programs. I would like to have Pen-Pals to exchange programs and ideas.

--The Miner 49er
C/O Lance Frady
UNCC
208 Hawthorn
Charlotte, NC 28223

More PENCIL-PALS

Here are more readers from all over the world who want other CoCo Nuts from all over to write to them. Remember, feel free to write to anyone listed here. They may want to trade ideas, programs, or they may just want someone to write to.

Hi, my name is Dave Howe. I have a CoCo2, CoCo3, 6 disk drives, a printer, monitor, and modems. I would love to have Pen-Pals from all over the world to trade with. I am 20 years old and run a BBS. If you would like to write or to call my BBS. Then go for it!

--Dave Howe
94 Wilkes Street
Brantford, Ontario
Canada N3T 4W1
BBS # 1-519-753-3499
300/1200 baud 24 hrs

My name is Ariel Bensimon. I have a CoCo2, CoCo3, and a disk drive. I will be happy to exchange with anyone who wants. Please help me I just recently got my disk drive and there's not much help available here in ISRAEL. Any help you can be will be greatly appreciated. Sincerely yours, Ariel.

--Ariel Bensimon
Emek Hefer 98/6
Natanya, 42220
ISRAEL

My name is Joseph(Joey) Vaughan. I have a 64K ECB Color Computer II, cassette recorder, RS Speech Sound Pak, an Orchestra 90 Pak, Modem, and lots of programs and ideas to exchange with other readers.

--Joey Vaughan
Route 2 Box 130
Bronson, TX 75930

My name is Danny Mote. I have a 64K CoCo2, 2 drives, Super Voice, EARS, RS232 Pak, Modem, DMP-105 printer and hundreds of programs. I am interested in exchanging any ideas or programs, and especially educational programs, or programs that use Super Voice or EARS.

--Danny Mote
Route 2 Box 2782
Demorest, GA 30535

Hi, my name is Ian Boisvert. I am 14 years old. I have a 128K CoCo 3, 1 disk drive, and a DMP-105 printer. If anyone wants to trade programs or just talk, you can write to me.

--Ian Boisvert
Box 259
Burstall, Saskatewan
Canada S0K 0K0

My name is Nila Grose. I have an MC-10 computer, a IP10 printer, a disk drive, a DMP-105 printer, a multi-pak, a cassette recorder, a Tandy 2000, a monochrome monitor, and a DWP-230 printer. I am trying to find some Pen-Pals who are interested in exchanging ideas & programs with.

--Nila D. Grose
R.D. #1 Box 173A
Manheim, PA 17545

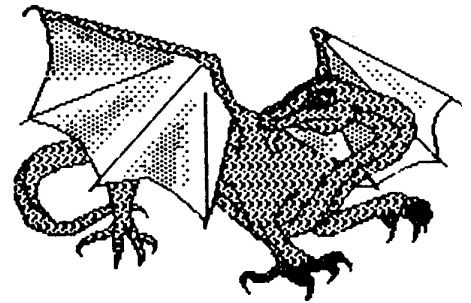
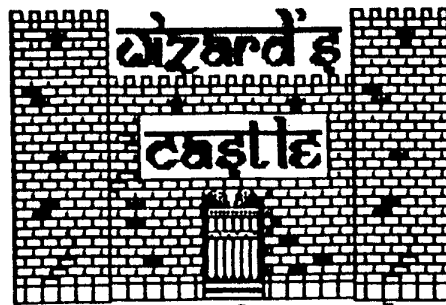
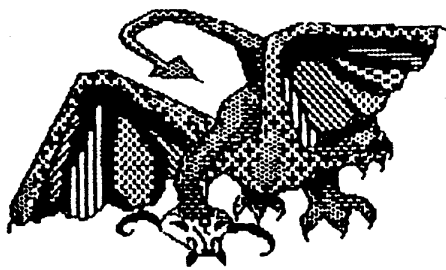
My name is Jim Ambrose. I live in Florida and it seems that nobody owns any CoCos down here! I need a Pen-Pal. I own a CoCo2&3, 4 drives, printer, and have lots and lots of software!!

--James P. Ambrose
4603 Bayshore Drive
Apartment F-1
Naples, FL 33962

My nickname is 'Brother Bill'. I own a 64K CoCo2, and a Tandy 1000, 4 disk drives, a Star NX-10 and a 132 column Daisy Wheel printer. I am mainly looking for utilities but I have LOTS of games also. I would love to hear from pen-pals from all over. Please WRITE!!

--William A. Young
703 Cherry Lane
Shelby, NC 28150

Wanted: Small jokes or riddles to fill up these little holes.



scoreboard

Come on REAL CoCoNuts, show us your stuff. This is a place for your top scores. We will accept as many as we have room for each month. So pull your favorite's out of the 'moth-balls' and give us your best. No fair using doctored copies of games. Try to beat the HIGH scores this month and next month you may be the 'BIG CHEESE'. Send your initials in also.

F-16 ASSAULT	65,300	REX	SHOCK TROOPER	38,714	QIK
F-16 ASSAULT	56,500	SAC	SHOCK TROOPER	37,000	BLW
F-16 ASSAULT	48,835	JJW	SHOCK TROOPER	24,375	AIR
F-16 ASSAULT	31,460	DLP			
			DEVIIOUS	343,050	REX
SPACE WAR	6,300	QIK	DEATH TRAP	68,322	WIZ
ROLLER CONTROLLER	123,650	WIZ	DEATH TRAP	57,666	WIZ
POOYAN	61,200	WIZ	DOWNLAND	65,140	WIZ
POOYAN	59,800	QIK	DOWNLAND	38,280	QIK
CRAZY PAINTER	8,950	WIZ	COLOR CAR ACTION	14,221	EDJ
LE-MANS 78 LEVEL 11 TRACK 2	JIM		COLOR CAR ACTION	9,565	BRI
			COLOR CAR ACTION	6,433	WIZ
FOODWAR	48,315	WIZ	JUNIOR'S REVENGE	17,700	WIZ
RADIO BALL	891,900	QIK	BUZZARD BAIT	213,850	DLP
RADIO BALL	720,050	WIZ	SPEED RACER	65,010	DLP
DECATHLON	10,106	DLP	KUNG FU DUDE	62,000	JPA
DECATHLON	9,216	JWW	GAUNTELET	1,224,190	JJW
DECATHLON	8,706	WIZ	GAUNTELET	1,094,280	DLP
DECATHLON	7,926	DER	ARENA OF DEATH	62,710	WIZ
VARLOC	1,968	DLP	ARENA OF DEATH	52,695	WIZ
VARLOC	1,850	QIK	DOUBLEBACK	56,200	WIZ
ZAXXON	112,000	N?S	DOUBLEBACK	36,000	A?A
ZAXXON	91,800	D?S	DOUBLEBACK	33,010	QIK
ZAXXON	69,300	DOG	BALLOON	3,700	QIK
ZAXXON	28,900	QIK	DESERT PATROL	313,600	GRW
DESERT RIDER	72,311	DLP	DESERT PATROL	105,250	GRW
DESERT RIDER	20,411	QIK	GOLDRUNNER I	348,300	JFB
BREWMASTER	26,150	DLP	GOLDRUNNER II	428,150	JFB
BREWMASTER	13,125	JWW	LUNCHTIME	57,200	QIK
LUNAR ROVER	22,400	QIK			
SHAMUS	13,650	QIK			
DRACONIAN	19,820	QIK			

More of Wizard's Castle Scoreboard

Here are even more of the Scoreboard listings. Come on CoCoNuts I want to see your all time best scores. Lets see if we can't fill up both of these pages before the next issue comes out.

MR. DIG	1,217,400	SAC	STELLAR LIFELINE	19,560	D?S
MR. DIG	1,000,669	SAC	STELLAR LIFELINE	2,500	WIZ
MARBLE MAZE	34,040	JJW	CLOWNS&BALLOONS	27,100	WIZ
MARBLE MAZE	34,040	QIK	CLOWNS&BALLOONS	22,900	D?S
MARBLE MAZE	32,490	D?S			
CATCH 'EM	59,277	JWW	OUTHOUSE	32,750	RWR
			OUTHOUSE	32,482	WIZ
STRONG HOLD	193,440	WIZ	CRYSTAL CASTLES	532,808	WIZ
STRONG HOLD	180,520	CEQ	CRYSTAL CASTLES	112,873	QIK
PAPER ROUTE	160,200	WIZ	BEAM RIDER	49,710	QIK
PAPER ROUTE	124,950	DLP	BEAM RIDER	42,110	WIZ
PAPER ROUTE	64,900	QIK	PEGASUS	56,100	JJW
SAILOR MAN	501,300	DLP	PYRAMIX	51,120	WIZ
SAILOR MAN	366,200	JJW	PYRAMIX	50,790	EDJ
SAILOR MAN	99,800	DOG	PYRAMIX	47,950	WIZ
KNOCKOUT	141,780	WIZ	PYRAMIX	42,810	WIZ
KNOCKOUT	109,750	REX	PYRAMIX	39,510	EDJ
KNOCKOUT	79,590	EDJ	PYRAMIX	38,720	WIZ
GOLD FINDER	51,125	DOG	BIRDS	123,750	WIZ
GOLD FINDER	49,225	QIK			
GOLD FINDER	22,850	EDJ			
WARP 3D	17,590	WIZ			
POLTERGEIST	1,695	JBF			
7 CARD STUD	2,571	JBF			
DOODLE BUGGY	48,370	SAC			
FLIPPY THE SEAL	21,815	DLP			
FLIPPY THE SEAL	11,625	DOG			
CANYON CLIMBER	33,400	QIK			
MEGA-BUG	4,637	QIK			
MUDPIES	113,000	DLP			
MUDPIES	23,600	GRW			
DEMON ATTACK	16,320	D?S			
PROTECTORS	80,850	DOG			
PROTECTORS	37,575	JOA			
ELIMINATOR	3,710	JOM			

Remember no scores will be listed for a *DOCTORED COPY*



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For Your CoCo 1, 2, & 3

(Reviewed in Oct. 87 RAINBOW) Makes programming sensational-looking graphics as easy as moving a joystick! Converts precision drawings into "DRAW" commands which can be stand-alone BASIC programs or merged into other programs. Also includes "DEMO" and "PAINT" programs. Requires a spring-centered joystick or touch-pad. 32k ECB tape or disk \$14.95

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Just answer the prompts & type your message; "EZ WRITER" will put it into perfect letter form and send it to your DMP or DWP. Professional-quality, single-page letters every time! Do one letter or multiple copies for "personalized" mailings. Saves letters and mailing lists. Even does labels. Menu-driven. Undoubtedly the EZ-est letter writing system available! Free sample on request! 32k ECB tape or disk \$19.95

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FOUR superior educational "games": "RACEWAY", "GO TO THE TOP" (multiplication tables drill), "WORD PROBLEMS", & "PYRAMID". Covers addition, subtraction, multiplication, & division. Different levels of difficulty. Exciting graphics & sounds. EZ and fun! 32k ECB tape or disk \$19.95

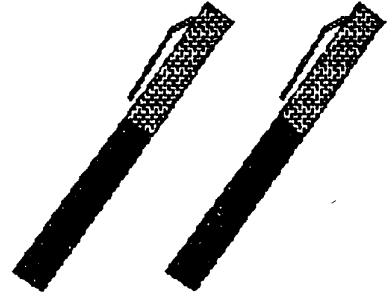
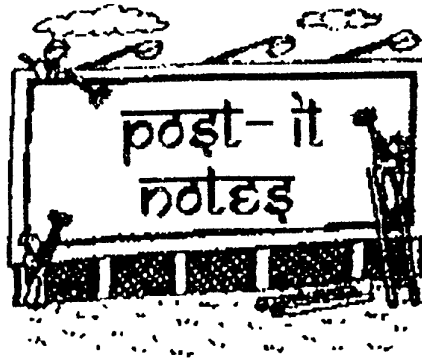
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whatever you want
to say just write
it on a convenient
post-it note.



This is where you can write a note to a fellow reader or just make a brief comment about something. You can use this area like you would use a bulletin board. Put a note about a new 'BBS' or comment on someone's program. Or just write a little note to someone else. It will be up to you to see that this area of the newsletter stays full. So "REACH OUT" and write a note today.

Readers,

Brother Bill wants to find a program that prints sideways. If you have one & can, please send a copy to me at:

--Bill Young
703 Cherry Lane
Shelby, NC 28150

Readers,

I have a number of Rom packs for the CoCo & a plastic storage box to keep them in. If bought new worth \$600. I'm willing to sell them for the best offer. I am also willing to trade for some good hardware for the CoCo. Like a 300/1200 baud modem, an RS-232 pak, disk drive, hard drive, or a DISTO controller or Ram Disk.

--John D. Cleveland
P.O. Box 735
Lunenburg, Nova Scotia
CANADA BOJ 2C0

Editor,

Please let your readers know about the Codis CoCo Symphony, a club that is intended to provide extra support for buyers of the Codis Enterprise program REMUSIC 1.0. Members can write & exchange musical arrangements and various tips for REMUSIC, and receive the newsletter, "THE REMUSIC REVUE". Anyone interested should write to me at the address below:

--William C. Garretson
828 Gregory Avenue
Bedford, TX 76021

ps. You can get a copy of REMUSIC from Codis Enterprises, 2301-C Cntrl Drive, Ste. 684, Bedford Texas 76021. See the ad on page 5 of the last issue.

All Science Fiction Enthusiasts,

The Star Trade science fiction software library has gotten a new address. Anyone who has written any science fiction programs they want to share with others, or any one interested in obtaining some great SF programs write to:

--Star Trade
3502 Swafford Street
Arlington, TX 76015

Readers,

I was interested to see a letter from someone in South Carolina in the APRIL issue. I'm extending an invitation to that person and to everybody else in, "The WIZARD'S CASTLE", to get in touch with the ISLANDER BBS at 803-559-9473. We would like to hear from some CoCo users from across the country. We have lots of good downloads available. See ya later.

--The SOURCE

Even more Post-It notes

Here are even more notes that were posted this month. Thanks to you we are really keeping this section full and growing. Remember, now "REACH OUT" and write a note today.

DEATH OF A CoCo

(or for lack of a dollar...)

One of my Pen-Pals sent me a package several weeks ago full of public domain programs and one item called a ShareWare.

The title was "MusicBox", and upon running it, I was greeted with the following message:.

Feel free to distribute copies of this to all of your friends. If you would like a manual describing the operation, send \$15 to:

Lester Hands
1236 Avenue A #A
Seaside, Oregon 97138

I complied, and received a disk crammed full of entertaining tunes and a document file outlining the operational commands for MusicBox. Also included was a letter explaining that a printed manual was unavailable due to the dismal response to the project.

Obviously, Lester spent countless hours perfecting this utility, & also obvious is no one else had the common decency to even say thank you to this individual.

Lester, like dozens of other ShareWare authors, is not anticipating an income that will allow early retirement from just one project, but perhaps if every person in possession of a copy of this program were to send, even anonymously, 1 single dollar to him, then he probably would be interested in pursuing future projects. As it stands now, he would not be unjustified in feeling unappreciated, if not totally ripped off, knowing that his program has criss-crossed the continent, and he has only had a response from one user.

You see, this is how creative genius is stamped out, and why many micro computers, like the TI-99/4A, have become obsolete.

First, the inexpensive software sources, such as the software authors offering ShareWare items, give up because of minimal or no support, the user base dries up, and the logical next step is obsolescence.

Let's not lose our multi-talented CoCo and these brilliant programmers.

Show your support!!!

--John "Million" Beck



Here is where all you amateur programmers get to "SHOW US YOUR STUFF" . The 'MAIN' requirement for this section is that the program not be too extremely long. Also the program needs to be sent in on disk. Have fun and SHOW OFF!

CLOCK

```

10 REM COPYRIGHT (C) T&D SOFTWARE 120 CLS:EXEC SA:NEW
E 1984 130 DATA 26,80,190,1,13,18,18,18
20 CLS:PRINTTAB(4)"the color com ,48,141,0,6,191,1,13,28,175,57,1
puter clock":PRINT 66,141
30 PRINT" THIS PROGRAM WILL PLAC 140 DATA 0,154,76,167,141,0,149,
E A MACH- INE LANGUAGE PROGRAM I 129,60,38,92,111,141,0,141,166,1
N MEMORY WHICH WILL PROVIDE A 2 41,0,138,76
4-HOUR REAL TIME CLOCK IN THE 150 DATA 167,141,0,133,129,60,38
UPPER RIGHT PART OF THE SCRE ,38,111,141,0,125,166,141,0,122,
EN." 76,167,141,0
40 PRINT:PRINTTAB(11)"working.." 160 DATA 117,129,60,38,21,111,14
50 IF PEEK(116)=&H7F THENCLEAR50 1,0,109,166,141,0,106,76,167,141
0,32499:SA=32500:LA=&H7FAA:HR=&H 0,101,129,24
7FA7:MN=&H7FA6:RA=&H7F70 ELSECLE 170 DATA 38,4,111,141,0,93,16,15
AR500,16199:SA=16200:LA=16382:HR 8,136,142,4,24,159,136,166,141,0
=&H3FFB:MN=&H3FFA:RA=&H3FC4 ,81,141,26
60 FORI=SA TO LA:READD:POKEI,D:N 180 DATA 134,58,141,63,166,141,0
EXT:POKERA,PEEK(&H10D):POKERA+1, ,70,141,16,134,58,141,53,166,141
PEEK(&H10E) ,0,59,141,6
65 PRINT@454,"HIT ANY KEY TO CON 190 DATA 16,159,136,126,255,255,
T." 111,141,0,50,111,141,0,47,128,10
66 I$=INKEY$:IF I$=""THEN 66 ,43,6,108,141
70 CLS:INPUT"hour";H:IFH<0 OR H> 200 DATA 0,38,32,246,139,10,167,
23 THEN70 141,0,31,166,141,0,26,139,48,141
80 CLS:INPUT"minute";M:IFM<0 OR ,9,166,141
M>59 THEN80 210 DATA 0,19,139,48,141,1,57,52
90 POKEHR,H:POKEMN,M ,32,173,159,160,2,53,32,57,0,0,0
100 CLS:PRINT"HIT [enter] TO STA ,0
RT CLOCK" 220 DATA 0,0,42
110 IFINKEY$<>CHR$(13) THEN110

```

We would like to thank T&D for the submission of this program, and for the prize they donated to our next contest!!

CLOVER (CoCo 3)

```

1 REM CLOVER U1.0 115 Y=40*COS(A1)*A+96
2 REM BY ERIC STRINGER 120 HCIRCLE(X,Y),10,W,1:HPAINT(X
3 POKE65497,0 ,Y),W,W:W=W+1
5 HSCREEN 2 125 IF W>15 THEN W=1
10 HCLS 0:PALETTE 0,0 130 PALETTE W,(RND(16)*4)-1
15 PI=3.1415 135 NEXT
20 W=1 140 FOR Q=1 TO 15:PALETTE Q,(RND
100 FOR A1=0 TO 2*PI STEP .01 (16)*4)-1:NEXT Q
105 A=2*COS(A1*4) 145 GOTO 140
110 X=50*SIN(A1)*A+160 1000 GOTO 1000

```

EVEN MORE PROGRAMS

Here are even more programs you amateur programmers have sent to "SHOW US YOUR STUFF". SHOW OFF!

DISKCOPY

```

1 CLS:PRINT@107,"DISKCOPY":PRINT
@142,"BY":PRINT@295,"STEVEN MCRO
BERTS"
2 PRINT@448,"HIT ANY KEY":EXEC44
539
10 CLS:PRINT@33,"INSERT SOURCE D
ISKETTE AND HIT <ENTER>." :EXEC4
4539
20 DIR:LINE INPUT"FILENAME TO CO
PY?          (FNAME/EXT)";F
$
30 COPY F$
40 CLS
50 PRINT"FILES ON DESTINATION DI
SK:" :DIR:PRINT"          FREE GRA
NS:"FREE(O)
60 PRINT:PRINT"HIT <ENTER> TO CO
NTINUE          HIT <E> TO END"
70 N$=INKEY$:IF N$=""THEN 70
80 IF N$="E" THEN END
90 GOTO 10

```

QIX SIMULATOR (CoCo 3)

```

1 REM QIX SIMULATOR V1.0
2 REM BY ERIC STRINGER
5 HSCREEN 3
10 HCLSO
15 PALETTE 0,0:PALETTE 1,64:PALE
TTE 2,32
16 DIM X2(20),Y2(20),X3(20),Y3(2
0)
20 X=0:X1=60:Y=60:Y1=0:P1=1:P2=9
25 A=2:B=2:C=2:D=2
100 HCOLOR 1,0:HLINE(X,Y)-(X1,Y1
),PSET
115 X=X+A:Y=Y+B:X1=X1+C:Y1=Y1+D
116 IF RND(100)=10 THEN A=-SGN(A
)*2:C=-SGN(C)*2
117 IF RND(100)=20 THEN B=-SGN(B
)*2:D=-SGN(D)*2
120 IF X>638 THEN A=-A ELSE IF X
<2 THEN A=ABS(A)
125 IF Y>190 THEN B=-B ELSE IF Y
<2 THEN B=ABS(B)
130 IF X1>638 THEN C=-C ELSE IF
X1<2 THEN C=ABS(C)
135 IF Y1>190 THEN D=-D ELSE IF
Y1<2 THEN D=ABS(D)
140 X2(P1)=X:Y2(P1)=Y:X3(P1)=X1:
Y3(P1)=Y1
145 IF P1=16 THEN P1=1 ELSE P1=P
1+1
146 IF P1>9 OR SB=1 THEN SB=1 EL
SE GOTO100
147 IF P2>15 THEN P2=1 ELSE P2=P
2+1
150 HLINE(X2(P2),Y2(P2))-(X3(P2)
,Y3(P2)),PRESET
155 GOTO 100

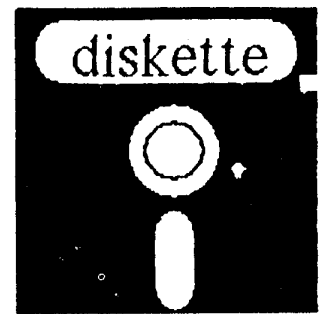
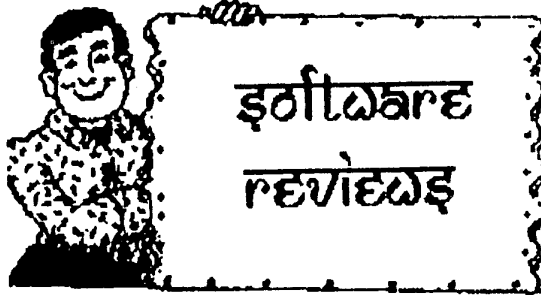
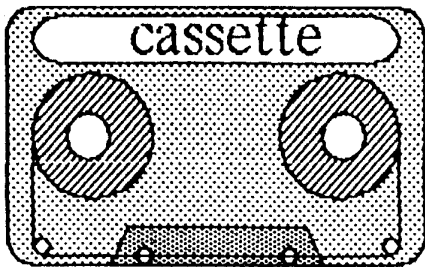
```

TSSB Music for REMUSIC owners

```

2 CLEAR200,&H4800:IFPEEK(&HE00)+
PEEK(4096)+PEEK(&H1800)<>86THENP
RINT"REMUSIC 1.0 MUST FIRST BE L
OADED- GET IT FROM CODIS ENTERPR
ISES,2301-C CENTRAL DR., STE. 68
4, BEDFORD, TX 76021. PRICE:
$25.":END
3 POKE&HFF40,0:DEFUSR=&HE00:PCLE
AR4:D$=USR("E")
5 REMVWD1S56,38,49)WD2(127,127,1
14L253,0,100R)WD3S32,32,0,32,0,0
,0,32)WD4S33,100)
7 REMKU3;
10 REMWP4KSG>Q2L80D.03B/4GB0DGXB
./A//GC-C#DXD/D/B.A/GFXE./F//GGD
03BG<OB./B//B05CDDXC/OB/AB05CCXC
OB.A/GFXE./F//GC-C#DXDGGG/F/EEEA
BB#BAG4GFX8DDGX.AB05CDXXOGABX.B#
4AGXX
20 REMV2>Q2L80D.03B/4GGABXD#./D
#//E03GGAXOC/C/G.D/DDXD./C//C-DD
03BG<OG./G//GAABXA/G/GGAGFAG.F/E
ED#C#./D#//E03BGF"E4FOCD/C/C-CD
CCDC8EDEE-4DDXD/C/C-.8DGA4BXE/E-
/D.8GGF1D
30 REMV3>Q203RGGFEXF./A//BEEFXA/
F/OD.C/03BAXA./A//DBRX.<OD./D//D
EF/03OFF8GBXODGXREREREG4EDRD.C/03
BABB./B//B8EDBB-4AXRDDC-GGG#G8GG
#AA#4B#B#XRD.8FGC4GXOC/C#/DGD1C-
40 REMV4WP3KL-12>Q2038D.02B/4GDB
EBO3C-EBADADGDBDADBGD02BG<RX.03B
RD/D/DGXBDXRRCRE4AXRG.D/EE02B03
E./F//G8BAA-G4FXDGDGCEA8ABCC#4D
DXDG.8DGC4GXE/F/G.E/F1G

```



Here are REVIEWS of some of the 'NEWEST' programs and games. These will be wrote by different readers of the magazine each month. If you want to do a review go ahead and write it and send it in. I may edit it for space and might have to change it. Send reviews done with any 'ASCII' word processor. Disks can only be returned only if postage is provided.

Review of Spectrum Project's TW-80 patch.

As you very well know, Telewriter 64 has become the "Word Processor" standard by which all others are judged. When the CoCo 3 came along I was aware there were some software incompatibilities with some software packages, but I wasn't sure which ones worked and which didn't. I tried a few games, a few utilities, a few graphic programs & my favorite word processor. I was shocked when Telewriter 64 didn't work! What was I to do? I couldn't use VIP Writer (I hated it). So I called some "CoCo friends" to see if they had any suggestions and one said to call a BBS in Canada and download a patch he saw while on this BBS.

I called & downloaded it. With great anticipation I logged off & went to basic to patch TW64 and revive an old friend... Well, the patch did not work. At this point I started looking through The RAINBOW trying to find a commercial patch program. I found a few, but I decided to go with "TW-80".

The patch was \$39.95 plus s/h. I called the long distance num. expecting to place the order COD, as I usually do, but got a recording saying "for your convenience, send a check or money-order" and that they were not taking phone or COD orders anymore. This wasn't what I wanted to hear, and on top of that paying for a long distance call. So I got a money-order, (additional expense), and sent it off and six days later I finally got the patch!

After reading the manual I did as it instructed, got my original Telewriter 64 disk and a blank formatted disk to put the new version on. I first did a directory of the TW-80 disk and found that it already had the original TW64 files on it and I didn't need my old disk.

Next, I ran "patcher" and a few seconds later it was done. The manual then said to run the configure program and setup the program with my defaults like number of drives, default data drive, printer baud rate, characters per line, screen fore/background colors etc...

Now we were at the moment of truth, RUN "BOOT"... It worked! There was the main menu on an 80 column screen! What a relief!

The program offers many new features as well as the good ol' TW64 functions I was used to. In addition to the standard features of TW64, it has easy access to disk files with on-screen file names that are selected using the arrow keys. The disk I/O menu gives you the handy option of formatting a disk so when you run out of space you don't have to hunt down free grants! One thing I don't like with the disk functions is

Even More Software Reviews

Here is the continuation of this months Software Reviews.

that it only recognizes the 35 track/68 gran format, and single sided drives, and considering I use 40 track/78 gran format, and double sided drives, I had to find out the hard way when TW-80 erased the last part of one of my disks. Another interesting feature TW-80 has is two ram drives available to 512K users which let you store many files in ram for fast access as well as the ability to exit the program and when you return your files are still there. The files stay resident in ram if you do NOT use a program that uses the extra ram.

The editor works very much the same as TW64 did but, of course, you get 80 x 24 column screen and a buffer of 45K. TW-80 uses the last 8 scan lines of the CoCo 3's screen for a, status line of cursor location, insert/overstrike mode, wordwrap, current file, and free buffer space. If you have the Hi-Res font modifier you can create your font sets to use with TW-80. From the editor you have many control keys that enable you to toggle key-click, end-of-line markers, text alignment and others. One major fault I've found is that the "Global Search and Replace" locked up with this version (V1.0).

After typing in your document you would go to the format menu to print the text. You have the standard margins, spacing, page numbering, and printer type options. With TW64 you would hit "P" the dump the file to the printer and if you were lucky enough to have a buffer on your printer you could either, type another letter, or even run another program while it printed. TW-80 has, what appears to be, a 32K spooler which allows you to dump, and then edit another text file. I'm assuming the spooler is only 32K because it locked up after sending several 8K files to the spooler.

In summary, if you do some heavy duty word processing I would probably recommend spending a little more and get a package written for the CoCo 3 rather than a patch but, if you are just sending a letter to Grandma or writing home from school then TW-80 should do the trick.

Derk Gates (Reviewer)

RE: Review of ADOS-3, an extended disk operating system.

All of us have been irritated at times because of the limitations of RS Disk Basic. At least I have, and like many of you I've looked at advertisements for many different systems. I finally decided to invest in the price of a phone call to Spectro-Systems in Florida to ask about their highly acclaimed product ADOS-3. I've found that if you want to get something for your computer, talking to the creator of the product has no equal. ADOS-3 is indeed an incredible addition to any disk system. The ADOS-3 disk comes with a number of files on it to help you customize the utility to your own system. The manuals provided are thorough and are easily understood. The enhanced functions include: control key single stroke commands, new commands for neater displays, simple commands like DIRP and CATP for instant printouts of your directory, and enhanced EDIT capabilities. I discovered that I didn't use the DIR command because of the enhanced CAT command. This command will list your directory in two columns for easy reading of full disks. This CAT can also be compactly printed with the CATP command. This creates a two column printout that's just the right size to tape to a disk jacket

Even More Software Reviews

Here is the continuation of this months Software Reviews.

Also printed, is the amount of space FREE both on the screen and on the printer. The reason I described this is because it shows just one of the advanced features of the system. Provided is also a program for configuring ADOS-3 for your own personal system. From specifying the colors of your startup screen and startup message, to the step rate of your drives, the customizing program has it all. ADOS-3 also can support 40 and 80 track drives for you folks out there who are hampered by R.S. Disk Basic. If your worried about compatibility problems, I only found a few, but ALL the problems were solved by using the 'DISABLE' command, conveniently provided for just such a need. This command makes ADOS-3 operate just like Disk Basic. All in all ADOS-3 is a remarkable system that I've found very useful. In fact, after customizing it for my system I sent off to have ADOS-3 EPROMED for my controller. Documentation is provided with ADOS-3 to tell you how this can be done. Personally, I think all the bases have been covered by ADOS-3 for the user to make disk operation easier. For those of you out there looking for a new system, I highly recommend ADOS-3.

Andrew Wiest (Reviewer)

Review of MIKEYTERM VER. 4.7 communications program.

Are you looking for a great Terminal program that you can own without paying megabucks?.

Well, I am writing this review on Mikeyterm 4.7 to help you better understand its features and capabilities, now I am sure most of you have heard of Mikeyterm and alot of you have an earlier version of Mikeyterm. This version has some bugs fixed and has an 80 column driver for the CoCo3. This version can be used with the CoCo1,2,or3 and supports Disk and/or Cassette, does I/O through the serial port, or Parallel through the RS-232 pak, how's that! No need to add any mods to use it on your CoCo/3. Mikeyterm uses X-modem for ERROR FREE file transfer, it is easy to use. This program comes with a configure program, to let, you the user configure it to your likings, you can change cursor colors, have it startup at a selected baud rate, you can set your printers baud rate you can have your screen appear three different ways (green screen with green boarder), (green screen with black boarder), or(black screen with black boarder).

This program is Commercial Quality and can stand up to the best of the commercial programs. You can do a printout from your buffer, I've used it as a word processor also, I recomend this program for the beginner as well as the long time CoCo'ist. The documentation comes on the same disk, and is well written, and formatted, to print the doc's set your right, left, top, and bottom margines all to 0 and start at the top of the page, you will have a neatly done docs catalogue when you are done.

All in all on a scale of 1 to 10 I give this program a 10+. My highest regards go to the Author Mike Ward, and Mr.Hutchinson (for writting the Doc's).

Dennis R. Gray (Reviewer)

DYNAMIC COLOR NEWS (DCN)

Color Computer Magazine

We are now in our fifth year. The purpose of DCN is to provide instruction on Basic and Machine Language Programming, Computer Theory, Operating Techniques, Computer Expansion, Product Reviews, New Products plus provide answers to questions from our subscribers. Included in each issue are Basic and Machine Language programs plus editorials on various computer subjects. Did you know that the joystick port can be used for many hardware applications such as digital voltmeters and thermometers? We showed how to build these in recent issues. We ran a series showing how EPROMS can be used for containing data and programs? Due to popular demand a Ham Radio section is included. DCN is written in a non technical style and is designed to be a learning tool.

Some topics covered are:

- | | |
|-------------------|-----------------------|
| * CoCo 3 | * OS-9 |
| * Graphics | * Uninterrupted power |
| * Vectors | * Stacking Programs |
| * ASCII | * Memory Expansion |
| * Interrupts | * Machine Language |
| * Random Numbers | * Restoring Programs |
| * Ramdisk | * Editing Statements |
| * Data Sorting | * Basic Programming |
| * Memory Map | * Architecture |
| * Word Processing | * CoCo Heat Problem |
| * Morse Code | * Hardware Interface |
| * Joysticks | * Video Reverser |
| * Thermometer | * EPROMS |
| * Page -1 | * Ham Radio |
| * Graphics | * Assembly Language |

Some of the programs are:

- | | |
|------------------------|------------------|
| Electronic Billboard | Fast Food |
| Check Book | Utility |
| Gas Mileage | Sound Generator |
| Character Generator | Grade Book |
| Card Shuffling | Inventory |
| Word Processing | Graphics Draw |
| Alarm Clock | Bank Switching |
| Morse Code | Antenna Design |
| Money Chase (Game) | Graphics zoom |
| Address File with Sort | Terminal Program |
| Star Constellation | Loan Interest |
| Roulette (Game) | Chords (Music) |
| Duelling Cannons | Disk File |
| Program Restore | Lucky Money |
| Terminal Program | Invoice |
| Audio Frequency Gen. | Frequency Meter |

Dynamic Color News Subscriptions are
\$15/year, \$18 Canada, \$30 foreign.
FREE SAMPLE

Dynamic Color News is also available on disk or tape. Included are programs and editorials. Subscriptions \$60/year or 8.95 each USA & Canada.

DYNAMIC ELECTRONICS
P. O. Box 898 (205) 773-2758
Hartselle, AL 35640

MEMORY MANAGER - a complete set of software for managing the second 32K memory bank in 64K computers. Run Basic programs in each bank or use the Ramdisk for program storage. \$19.95 Disk or Tape.

Upgrade CoCo-2 Computers with two 4464 chips to 128K with Memory Manager Software. ME-10A \$49.95

Upgrade 8-chip 4164 type 64K computers to 128K with Memory Manager software. ME-12 \$49.95

512K memory for color computer 3. Includes ramdisk software. \$89.95.

512K board with ramdisk software \$29.95

RAMDISK software for color computer 3. reduced \$15.95.

VIDEO REVERSER- Reduces eye strain by producing bright characters on a dark background. Minor soldering required. Not for color computer 3. \$9.95.

MEMORY SAVER - Battery backup prevents loss of programs due to power failures. For all models \$39.95

Dyterm-Terminal Program \$9.95
Disasm-Decimal 6809 Assembler \$9.95

DYPRINT - Print large signs or banners using standard print \$19.95

COLOR COMPUTER 2 KITS - Build your own 64K color computer 2. Sockets for all integrated circuits and a complete book of step by step instructions. \$59.95.

CC-TERM 2 - A dual thermometer that displays temperature in both Centigrade and Fahrenheit. 2 \$19.95.

HR-1- A collection of 3 programs that allows Morse code practice, antenna design, and DX lookup program. \$11.95

MORSE TERMINAL - When used with an interface this program converts your color computer into a Morse Terminal. Instructions are included for building an interface with off the shelf parts. \$12.95

HAM LOG -Keeps a record of contacts. \$9.95

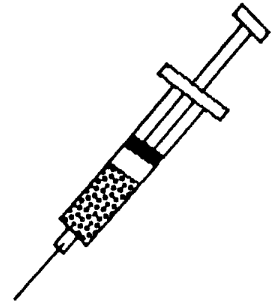
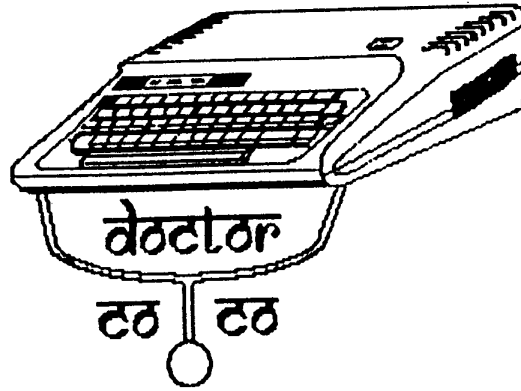
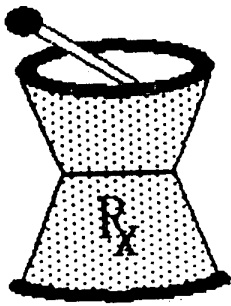
HAM RTTY - Uses cassette port. Requires simple interface. \$8.95

PUBLIC DOMAIN PROGRAMS - Call or write for free list. \$4.95 each

All programs are color computer 3 compatible unless indicated. Please specify tape or disk software.

Checks, VISA or MC, Add \$3 shipping.

DYNAMIC ELECTRONICS
BOX 898 (205) 773-2758
HARTSELLE, AL 35640



Here is a column dedicated to technical questions you may have concerning the electronics of the CoCo and its accessories. Your host is the always-in-demand man, Dr. CoCo!

Dear Dr. CoCo,

I need help! My daughter accidentally pulled the disk controller out of the computer while it was still on. What could it have done, and am I going to need a whole new disk controller? Thanks for any help you can give.

Signed,
Blown away in NC

Dear Blown Away,

There are several things that could've happened. The worst case would be a defective WD-1773 chip, if you have one of the latest controllers. There are a few capacitors across some of the data lines that could've shorted. It would be best to check these with a multimeter. If you just have a blank green screen then you probably have a line shorted. I've seen a couple of chips do this most notably one of the 7416N chips, but any of them could do it. These are a few of the things that could have happened and possible cures.

Signed
Dr. CoCo

Dear Dr. CoCo,

I'm having a problem with my Old RS controller. I was working on a CoCo 3 program & stepped out for about 20 mins. When I came back the drives started acting strange. They'd sometimes save part of a file, or trash a disk completely. I didn't have the high speed poke on so that could not be it. Also it won't boot OS-9 anymore. I thought it was the cable, so I built a new one; still the same. It's not a constant thing but it worries me. Any suggestions as to what I can do? I live in Europe so there is no going down to the local Shack to get it fixed. THANKS

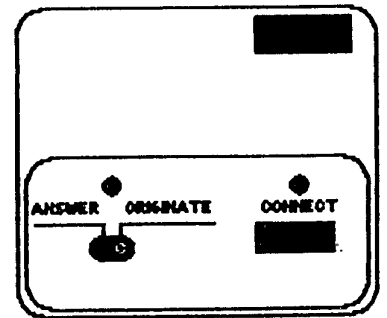
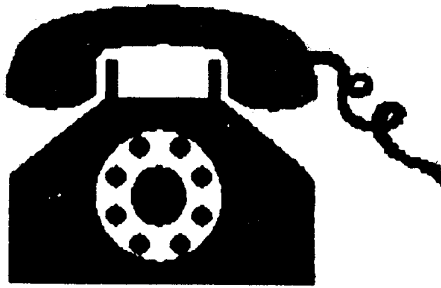
Signed,
Problems Overseas

Dear Problems,

Since you didn't say whether or not you are using a modified DOS. I'm going to assume you are not. You didn't say how old your controller is. Ok, is it just one drive that's doing it or are both doing it? If it's just one you may have a drive that's getting ready to go down. If it's both then you are probably on the right track suspecting the controller. You could have an intermittent WD-1773. You could pull the chip and clean it's socket, if it's socketed. Do all the others the same way. Sometimes, carbon tends to build up in the socket's pins. Be careful, & take care to observe the rules of static when doing this. Wear cotton clothing, avoid carpet, and ground yourself. The WD-1773 may need replacing. Check the controller after doing the above steps. Check for cold solder joints on the PC board. If you feel uncomfortable doing it have an electronics man do it for you. If these don't work let me know.

Signed, Dr. CoCo

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This is the column where you can learn about the latest happenings on "The WIZARD'S CASTLE" BBS's. You'll learn about uploads, downloads, news, & new functions on the BBB's. This column is written by Dr CoCo.

"The Wizard's Castle BBS" Sysop - Dr Coco #(704)937-7736

"The Newsroom BBS" Sysop - The Wizard #(704)434-2629

Greetings fellow modem'ers! Dr.Coco here! This month, I've decided to combine the two BBS reports because we have a major announcement. We've finally changed software. Both boards are now running TUBBS V2.4 software, written by Brian Stretch.

As you enter the boards, you will automatically notice some changes.

First, I'm sorry to say that your old log in codes won't work. Please log in as a new user. We have your old information on file & we'll upgrade your access to a level comparable to the old board.

There are many new areas to go to. Please check them all out. Then go to the Voting Booth. There you will find questions to vote on. A few will pertain to changes we plan for the boards. Please vote and let us know your opinion.

Anywhere in the board, if something is moving too fast for you, hit (P) for pause or (S) to stop. This will help a lot when files are listing.

And don't forget our Online Game called Galactic Conflict. You are the skipper of a fleet of vessels in deep space. Your mission is to colonize uncharted planets, establish bases, transport cargo, and let no one stand in your way. You play the game against up to 39 other players. Just wait until the first time you declare war against someone, or God Forbid the first time someone else declares war on you. For a copy of the Rules send \$1 and a self addressed stamped long envelope to: RULES; C/O "The WIZARD'S CASTLE".

In the near future, we will be adding hard drives to the boards. That way, we can build a library of Public Domain software for all the CoCo-Nuts out there.

Right now, both boards are 300/1200 baud, 8/N/1 and online 24 hrs a day for your enjoyment. Please participate. Our goal is to link all of our subscribers together so they can swap ideas and comments. If you have any comments about the boards, please leave us a note online, or mail it to BBS Updates; C/O The Wizard's Castle. I personally look forward to hearing from you.



This is the section dedicated to building and upgrading the computer we all have grown to love. Dr. CoCo is your host. Any suggestions for this article may be sent to Dr. CoCo C/O The Wizard's Castle.

Hello again folks! Dr. CoCo here! This month we are going to finish putting our hard drive system together.

By now, you should have everything you need to complete the system and get it operating. Let's review what we purchased:

- 1) A Burke & Burke hard disk controller
- 2) A hard drive
- 3) A hard drive case and power supply
- 4) Cables (if they didn't come with your hard drive)
- 5) A Western Digital 1002-WX1 or equivalent hard disk controller
- 6) Hyper I/O (Optional, use if you want to access hard drive from basic)

Ok, let's get started. First, let's install the WD controller in the Burke & Burke controller. You'll have to remove the mounting bracket that's supplied with the WD controller. Be careful! Avoid static! Ground yourself, wear cotton clothing, and avoid carpet.

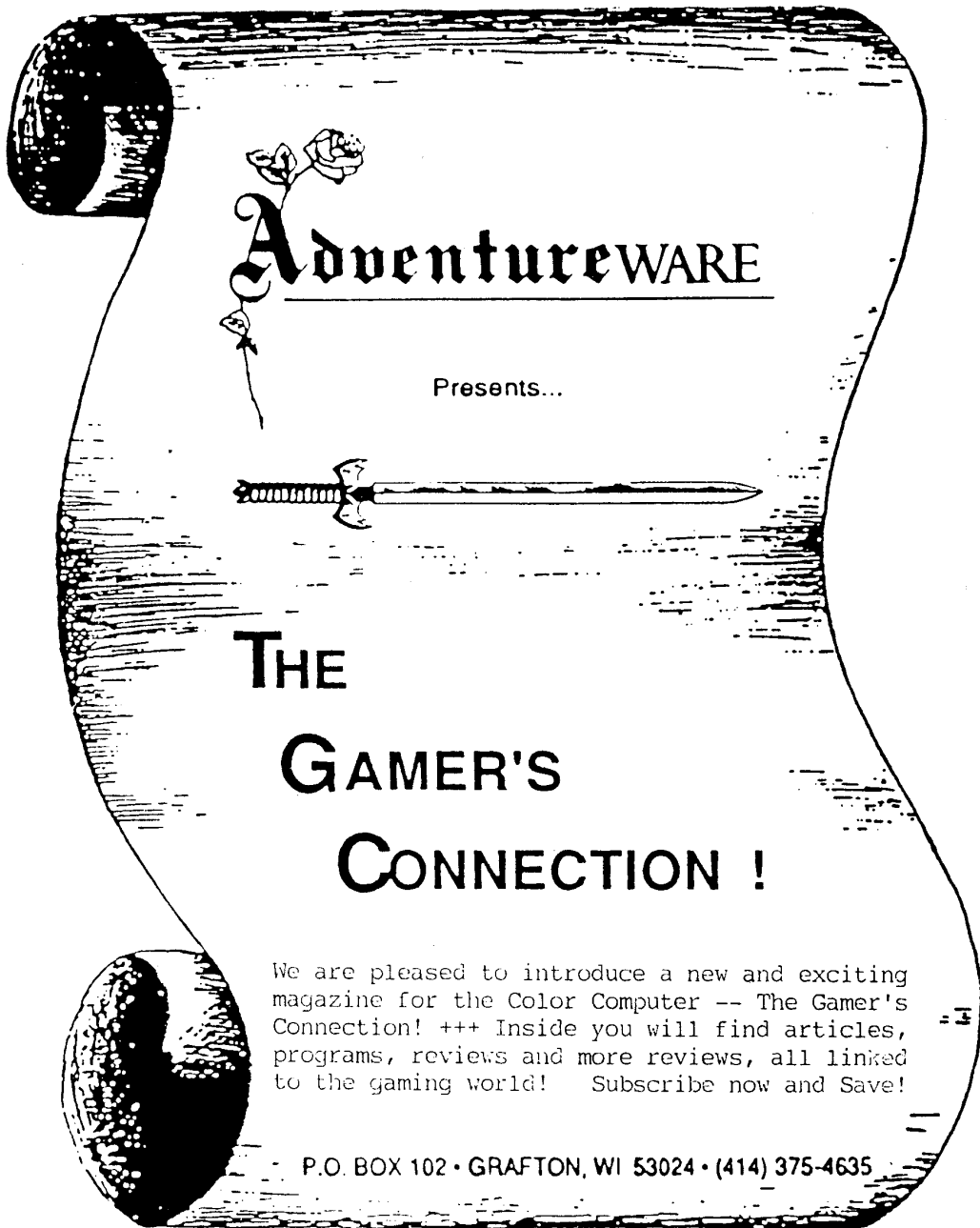
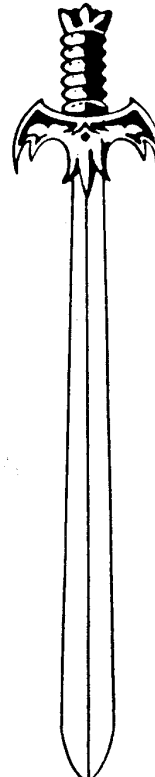
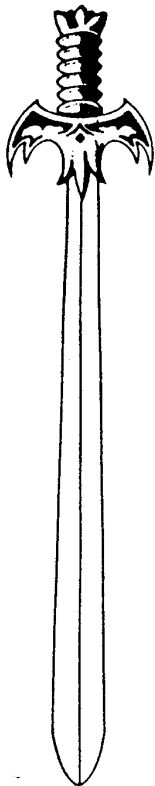
Now, remove the top cover from the B&B controller with the allen wrench supplied with the controller. There are a couple of spacers you need to save when you remove the cover. They will secure the WD controller when you install it in the housing.

Now, gently insert the WD controller in the slot of the B&B controller. Replace the top cover & the inserts. Now, install your cables. Replace the top cover. Take care not to pinch the cables.

Now, we install the hard drive in its case. It will mount just about like you would a standard disk drive. Be sure to use the correct size machine screws when installing the drive in the mounting brackets. Be sure and mount the drive right side up. I've already heard of cases of folks who mounted the drive upside down and couldn't get it to operate. They almost ruined their hard drive, so please be careful. The papers sent with your hard drive will show you which side is up.

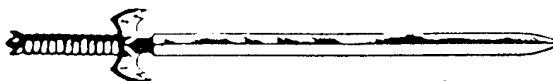
Plug the power and the data cables up to the drive now. Replace the cover of the drive case after you check all connections. Plug the drive controller in slot 3 of your multi-pak. If you're using Hyper I/O, you write your device descriptors and install it in Hyper I/O. If you're using OS-9, set up your descriptor file for the hard drive.

Turn it on and start enjoying the benefits of your own Hard Drive!



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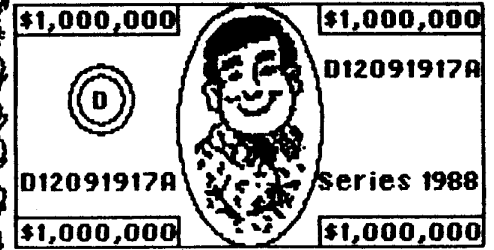
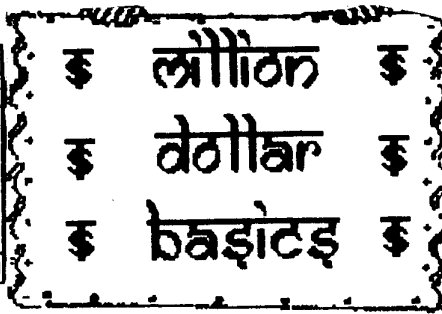
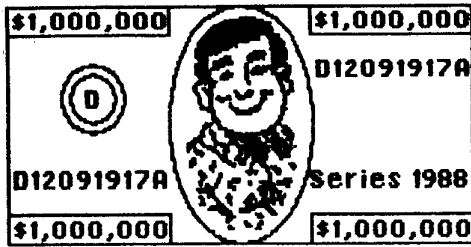
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Grafton, WI 53024



All of you who wanted a Basic column now have got it. Please send all your questions, comments and problems relating to Basic programming to: John 'Million' Beck; C/O "The WIZARD'S CASTLE"; 1737 Farmville Road; Shelby, NC 28150. And now here's JOHN!

Here we are again. Another issue of Wizard's Castle, and JMB has received no mail for this column. Type in this one liner:

```
10 POKE 140,255:EXEC 43345:EXEC 44539:GOTO 10
```

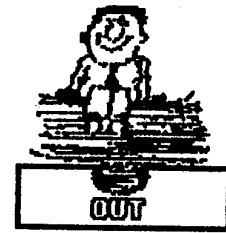
For those of you who have even the slightest doubt, or confusion about the effects of this one liner, I suggest you pick up a pen and paper, and ask me about it after experimenting with different values in place of the 255, (use 1 to 255 only).

The following is a short game that you should have no problems typing in at one sitting, or understanding the mechanics of. This column depends on your supportive letters and continued comments.

Now, here's UFO....

```
1 ' A IRS-80 Original By John Million Beck UFO ABC's
2 GOSUB 28:GOTO 4
3 GOTO 3
4 X=0:G=16:M=0:LM=0:H=0:CLS:PRINT@333,CHR$(142)STRING$(2,140)CHR$(141);
5 PRINT@364,STRING$(3,238)STRING$(3,237);
6 PRINT@395,STRING$(8,175);:PRINT@416,STRING$(32,223);
7 GOSUB 8:GOSUB 11:IF X<>10 THEN 7 ELSE 21
8 PRINT@448," HITS+++","H," MISSES---"M
9 IF LM>0 THEN PRINT@0,"YOU'VE BEEN HIT !!":PLAY"T13;L13;05;BAGFEDC;04;BAGFEDC;03;BAGFEDC;02;BAGFEDC;01;BAGFEDC":PRINT@0,STRING$(30,143);
10 LM=0:RETURN
11 FF=RND(4)+1:FOR IH=1 TO 350*FF:NEXT IH:AS=CHR$(RND(26)+64)
12 PRINT@G,A$;
13 PRINT@G+32,CHR$(143);
14 IF G>27 THEN PRINT@G-32,CHR$( );
15 SOUND RND(202),3
16 G=G+32:IF G>352 THEN LM=LM+1:GOTO 22
17 C$=INKEY$:IF C$<>A$ THEN 12
18 PRINT@334,STRING$(2,204);:PLA
```

```
Y"T61;L61;03;CEGB;04;AGFD":PRINT@333,CHR$(142)STRING$(2,140)CHR$(141);
19 PRINT@G-32,CHR$(143);
20 X=X+1:G=RND(9)+9:H=H+1:SOUND 200,3:PRINT@G,CHR$(143);:RETURN
21 GOSUB 8:SOUND 220,7:GOSUB 25:GOTO 3
22 M=M+1:X=X+1:SOUND RND(200),5:PRINT@G,CHR$(RND(122)+128);
23 PRINT@G-32,CHR$(223);:G=RND(7)+10:RETURN
24 G=RND(9)+9:IF X<>10 THEN RETURN ELSE 21
25 PRINT@0,STRING$(3,191)" PRACTICE MAKES PERFECT..."STRING$(3,191);
26 PRINT@32,STRING$(32,191);
27 RETURN
28 CLS:PRINT:PRINT:PRINT"IN THIS GAME, YOU MUST SHOOT DOWN AN ALIEN'S MISSILES BEFORE THEY DESTROY YOUR SPACE STATION."
29 PRINT:PRINT"THE LETTERS THAT APPEAR ON THE INCOMING MISSILES ARE THE LETTERS YOU MUST PRESS TO DESTROY THEM .":PRINT
30 PRINT"PRESS ANY KEY TO START":PRINT
31 C$=INKEY$:IF C$="-" THEN 31
32 RETURN
```

All of you who wanted a Column for OS-9 now you've got it. Please send all your questions, comments and problems relating to OS-9 programming to: John D. Cleveland; C/O "The WIZARD'S CASTLE"; 1737 Farmville Road; Shelby, NC 28150. And now here's JOHN!

A Beginners Guide To OS-9

This I hope to be a monthly column dealing with the OS-9 operating system for the Tandy Color Computer. Anyone that would like to give input may contact me by mail at the address above. All questions will be answered in "The WIZARD'S CASTLE" each month.

What is OS-9 you may ask, OS-9 is an operating system for the Color Computer. It's much like the RS Dos that comes with the disk controller you buy for your CoCo. However unlike RS Dos, OS-9 allows you to customize your operating system.

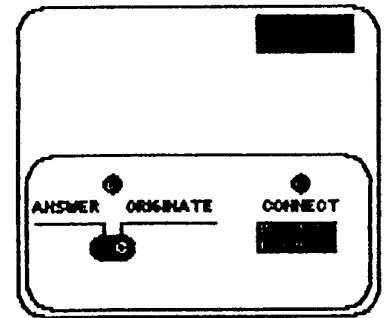
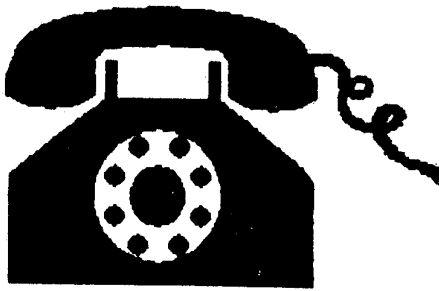
Before we go any further we must realize that OS-9 is NOT a language like Assembly, or Basic but just an operating system. The programming languages we can use with OS-9 must be loaded in separately. These are languages like Pascal, C, and Basic OS for example.

Since I like most of the readers of "The WIZARD'S CASTLE", am only just beginning to use OS-9 I do not say I am an expert. I will be using OS-9 level 2 for most of these articles but most can be used on the Level 1 also. The main difference that I have seen is that Level 2 uses the windows, and can use the extra memory and commands of the CoCo 3 where Level 1 does not have these capabilities.

Anyone may send me any help you can it will benefit us all. Please fully explain the information you may send. Also, any programs must be submitted on disk, with the program and source files. If you wish the disk returned please don't forget to send return postage.

I hope that this column will be of some benefit to all new and old OS-9 users alike. Remember it's going to be up to you to come up with some things to fill up this column each and every month. Don't let me down. Until next month this is John D. Cleveland wishing you good computing.

bbs updates



Here are some working BBS's as of date of inclusion. Please send information on working BBS's in your area. Send the name, phone number, baud rate, hours open, and any other notes about them. ENJOY! I'm sure the phone company will. They'll "REACH OUT" for your wallet. I know from experience. I won't be responsible for wrong numbers or dumb callers.

Name	Phone number	Hours open	Baud Rates	Notes

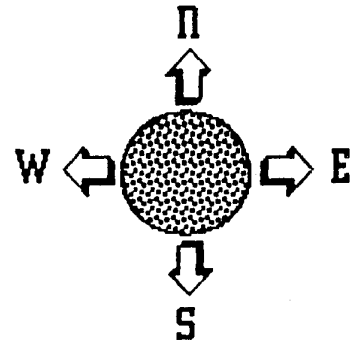
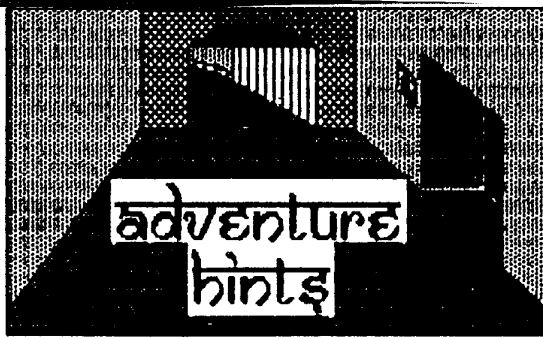
*The WIZARD'S CASTLE	704-937-7736	24 hrs	300/1200	Dr. CoCo *
*The NEWSROOM	704-434-2629	24 hrs	300/1200	10+ MEGS *

Country Club	202-574-8423	24 hrs	unknown	All Types
Jim's Dream	202-581-1422	Mid-7am	unknown	All Types
Nanci	202-475-1973	24 hrs	300	All Types
The Pirate Ship	203-355-9655	24 hrs	300/1200	CoCo Board
The CoCo Connection	206-854-3744	24 hrs	300/1200	Cors Bik SYS
Collector's BBS	215-926-6894	24 hrs	300	
Glass Menagerie	215-376-1819	24 hrs	300/1200	Sysop - Allen
Animal House	301-237-9704	unknown	unknown	
Apex	301-843-5642	24 hrs	3/12/2400	All types
Beast	301-982-9850	unknown	unknown	
Blue Thunder	301-948-4463	unknown	unknown	IBM & Compat.
City of Gold	301-279-9536	unknown	unknown	
Smokey's Den	301-342-0162	unknown	unknown	
Spook Central	301-464-0945	unknown	unknown	
The Shack	301-434-3440	unknown	unknown	All Types
Tin Badge	301-589-2016	24 hrs	300/1200	IBM & Compat.
Underworld	301-345-0344	unknown	unknown	Chatting SYS
Sweet Briar	302-645-5692	unknown	unknown	
The Buck Board	303-425-9283	24 hrs	300/1200	
The Short Line	303-969-9510	24 hrs	300/1200	
G.A.B.B.S.	312-484-1747	24 hrs	3/12/2400	Multi chat
Falcon's Lair	313-429-2150	24 hrs	300/1200	TUBBS headqtr
J&L's CoCo Corner	313-292-4713	24 hrs	3/12/2400	20+ MEGS
Promethius	313-283-8198	24 hrs	300/1200	CoCo & IRS-80
Kathi's Korner	315-458-5115	unknown	300	CoCo Only
GatorBoard BBS	317-482-1079	10pm-8am	300/1200	Mainly CoCo
Shelbyville Colorama	317-392-2769	24 hrs	300/1200	7/E/1

Even More good BBS's

Name	Phone number	Hours open	Baud Rates	Notes
Computer Cellar	319-277-0646	unknown	unknown	CoCo 3
CoBBS	405-737-5580	24 hrs	300/1200	All CoCo
1st SANYO OPUS	412-856-1428	24 hrs	3/12/2400	All Types
CoCo Net	412-744-2335	24 hrs	300/1200	All Computers
GRAFNET	412-469-2255	24 hrs	300/1200	Mainly CoCo
Super 80 BBS	414-327-5334	24 hrs	3/12/2400	IBM & CoCo
The Midnight Express	502-885-4335	24 hrs	300/1200	RLE Graphics
Cat House	513-528-0707	24 hrs	3/12/2400	
CoCo Connection	513-742-1895	24 hrs	3/12/2400	
CoCoNut	513-984-8705	24 hrs	3/12/2400	
Cupids CPU	513-825-8466	24 hrs	300/1200	
Omega	513-671-2049	24 hrs	300/1200	Tom Altum
Pit Stop	513-821-5170	24 hrs	3/12/2400	CoCo 3
The Realm	515-283-0436	24 hrs	300/1200	Rod Newcomb
The Tomb	515-432-7853	24 hrs	300/1200	Steve Kratz
The City Jail	519-753-3499	24 hrs	300/1200	Sysop - Dave
Dream Quest	608-798-3614	6pm-2am	unknown	
J.A.D.E.	608-752-7840	24 hrs	unknown	
Softcom	609-448-8244	unknown	300/1200	
The IAO BBS	609-587-2672	24 hrs	300/1200	All CoCo
The IARDIS BBS	609-448-1361	24 hrs	3/12/2400	
The Lion's Den	617-889-0777	24 hrs	3/12/2400	
Bit Board	701-667-2806	unknown	300/1200	
Franklin County Data	703-365-2018	24 hrs	300	7/E/1 - 8/N/1
TI99	703-631-8772	24 hrs	300	All Types
Pontefex BBS	704-825-6201	24 hrs	300/1200	Ron Millar
The NEWSROOM BBS	704-434-2629	24 hrs	300/1200	10+ MEGS
The WIZARD'S CASTLE	704-937-7736	24 hrs	300/1200	Dr. CoCo
CoBBS	717-394-3654	til 10pm	300/1200	George Felben
Brass Tacks	718-699-2564	mid-5pm	1200	All Computers
Last Chance Garage	718-727-1781	24 hrs	300/1200	Stephen Knell
Micro-Link	718-648-3502	24 hrs	300/1200	All Computers
Darrel's Barrel	803-821-1669	24 hrs	300/1200	EMAIL Freddy
Islander	803-559-9473	24 hrs	3/12/2400	Jim Powers
TandyLand	803-875-2019	24 hrs	300/1200	All Computers
Download Syndrome	813-FOR-128K	24 hrs	300/1200	20+ MEGS
Microblackboard	902-893-8742	24 hrs	300	Has CoCo Sig
Blue Devil's Court	919-223-5857	24 hrs	300/1200	
CoCoNuts BBS	919-425-8242	24 hrs	300/1200	Sysop - Tom
Dungeon BBS	919-726-9737	24 hrs	300/1200	Sysop - Chuck

go north open door get light go down on light go west get key go east go up off light	go west unlock door open door get paper get pencil go south sit down put paper write hints go rest
--	---



Here is where you can help each other to solve those 'PESTY' games that have you lying in bed awake half the night. If you have any 'NAGGING' questions on any games or have any hints for the other readers here is the place they go. Total 'SOLUTIONS' will appear here too from time to time. So GO NORTH, PUSH BUTTON, PLAY GAME, and ENJOY!!

Solutions I'd like to see:

Silverton House, Lansford Mansion
 Scatter Brains, Yellow Submarine

I have written to the author of Yellow Submarine and in the last 18 months have yet to hear about this flawed program. Not even the folks at RAINBOW are willing to help. I guess if I get this much trouble trying for help, I should just pitch the adventure book and disk in the trash. Can anyone out there help?????

Signed,
 John "Million" Beck
 3513 Terrace Dr. #D
 Suitland, MD 20746

Wild West Hints:

Don't forget to hide behind some thing before you shoot someone.

Signed,
 Princess Di

Treasure of the Aztec's Hints:

To burn the hut you must have the flint then do this: RUB FLINT-HELEMENT-LOOK WRECK-GET ROD.

Signed,
 Princess Di

Dungeons of Daggorath Hints:

After you have defeated the Wizard, you must still incant the Wizard's ring before the game's over.

Signed,
 Hawkeye

Dallas Quest Hints:

To Pass the RAT, get poolside SUNSHADES and GIVE them to OWL. GO TO BARN and SET OWL LOOSE. READ TOMBSTONE or get lost in field.

To stop sinking, BRIBE MONKEY with TOBACCO.

Signed,
 Princess Di

White Fire of Eternity Hints:

You must crave something to stick into hole, but don't forget to bring the sap.

You must throw something south or you will blow up.

PULLING the brick will give you something all women like to get but don't forget to wear it.

Signed,
 Princess Di

READERS,

Hints are needed to fill this page up each month. So get busy



"The WIZARD'S CASTLE" is a very special 'TANDY' 'Color Computer' magazine. We devote our entire magazine to the 'CoCo family'. Our articles include columns like: "Wizard's Corner", "Letters to the Editor", "Questions for the Wizard", "Pencil-Pals", "Wizard's Castle Scoreboard", "Word Search", "Post-It-Notes", "Programmers Corner", "Software Reviews", "Hardware Reviews", "Doctor CoCo", "Hardware Modifications", "Adventure Hints", and "BBS Updates". If you have been looking for a smaller more 'PERSONAL' version of a CoCo 'MAG' then we're 'EXACTLY' what you've been looking for. Remember we're exclusively for owners of any of Tandy's Color Computers. We support CoCo's 1, 2, and 3.

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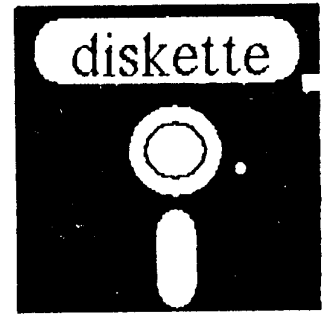
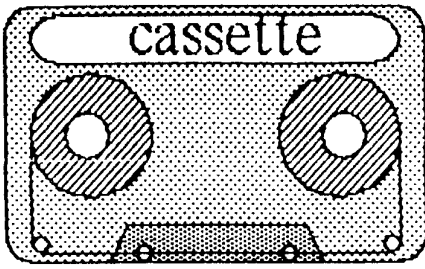
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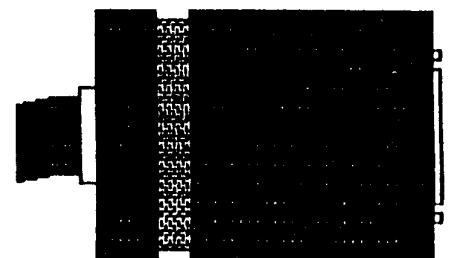
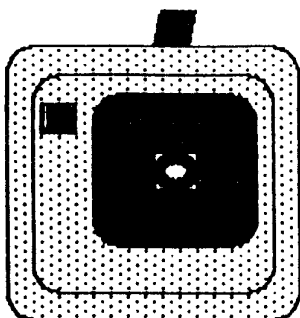
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