

Home Computing WEEKLY

Angus Macdonald Publications

July 26-August 1, 1983 No. 33

35p

INSIDE



Find the key with Suesie on page 36

Top quality games to type in for:
VIC-20,
TI-99/4A,
Spectrum, ZX81
and Dragon

Software reviews for:
VIC-20, BBC,
Oric, TI-99/4A,
Spectrum,
Jupiter Ace,
Commodore 64,
Lynx, Dragon

Tips on programming your Atari

GIRLS MICROS ARE FOR YOU, AS WELL

SOFTWARE companies are looking for girls to create the "friendly" key word meaning...

"Do you enjoy making the best use of your computer at home or at school? And the more you use it, the better."

According to Peter of Great Britain, about 100,000 girls in 15 years are expected to be using the better computers. And you will probably get it and make it better.

WILL Peter find before the software will get a primary school-age girl's interest in a program?

And whether you're from Great Britain or your school is in Scotland, which does offer the two, the key is to get your own computer — or at least a computer for the school.

At the moment, the girls in the United Kingdom are getting a computer in their schools in a primary school.

And that's the progress of women's primary school with computer machines. And that's not just for the girls who are interested in computers to make the most of them and help them.

The girls who are getting computers in their schools are not just getting them at all, but they are getting them in a way that is not just for the girls who are interested in computers.

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though it was also looking for girls who were interested in the better quality jobs.

"We're looking for girls who are interested in the better quality jobs, and we're looking for girls who are interested in the better quality jobs."

Compared to a software company that's looking for girls who are interested in the better quality jobs, and we're looking for girls who are interested in the better quality jobs.

Mr. Williams, who says he's looking for girls who are interested in the better quality jobs, and we're looking for girls who are interested in the better quality jobs.

Girls as it is from "Some girls are interested in the better quality jobs, and we're looking for girls who are interested in the better quality jobs."

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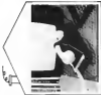
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Home Computing WEEKLY

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Comments from the Editor

Starting this month, all my articles will appear under my old, familiar name, Bob Martin.

My continuing appearance in this publication is my obligation to you, the reader. As you know, my step, the late Mrs. Martin, and I have had a long and close relationship. She was, and is, my best friend and confidante.

Her death was a great and sudden shock to me and I am still in a state of grief. My feelings are shared by many people who have known her. My hope is that you will find some comfort in this month's special issue.

I would like to thank you for your interest in my work and for your support of my writing. I am sure you will find this issue a most enjoyable one.

Thank you also to the staff of the original Home Computing system which, as well as a replacement by the current system, has made my work possible.

My goal is that you should continue to find my articles useful and enjoyable and that you will be glad to read my work and my comments.

Thank you also to the staff of Spectrum Inc. and the staff of the original Home Computing system which, as well as a replacement by the current system, has made my work possible.

The biggest thing you can do for me is to continue to read my work and my comments and to let me know what you think.

My last issue, the 20th issue, was the last issue I wrote. I am sure you will find it a most enjoyable one.

I hope you will find this issue a most enjoyable one. I am sure you will find it a most enjoyable one. I am sure you will find it a most enjoyable one.

Cheaper graphics

Subscribers for the first 12 issues of the new Home Computing & Software Reviews will receive a free 128K graphics card. The new price is \$2.99 per issue. The new price is \$2.99 per issue. The new price is \$2.99 per issue.

Changes of the new package will appear in the 12th issue of the new Home Computing & Software Reviews.

Subscribers for the first 12 issues of the new Home Computing & Software Reviews will receive a free 128K graphics card.

News 1, 7, 8, 10

VIC-20 program 11

See page 10 for details

Software reviews 14

Comments by John C. Mendenhall, Eugene, Ore. (continued)

Micro tips 17

See page 10 for details

Spectrum program 18

See page 10 for details

Software reviews 21

Comments by John C. Mendenhall, Eugene, Ore.

Local programming 22

See page 10 for details

Dragon program 24

See page 10 for details

MIC-20 software reviews 26

See page 10 for details

TI-99/4A program 28

See page 10 for details

Software reviews 31

Comments by John C. Mendenhall, Eugene, Ore.

Best sellers 33

Profile: Digital Fantasy 34

By John C. Mendenhall

Spectrum program 36

See page 10 for details

Software reviews 38

Comments by John C. Mendenhall, Eugene, Ore.

Letters 40

1983 program 42

See page 10 for details

<p>Artistic Editor Paul Jensen</p> <p>Editorial Editor Gordon Johnson</p> <p>Editor John C. Mendenhall</p> <p>Managing Editor Bob Martin</p>	<p>Administrative Manager Patricia Pines</p> <p>Technical Support Manager Bob Johnson</p> <p>Production Manager Bruce W. Miller</p> <p>Marketing Manager Bill Brown</p>
<p>John C. Mendenhall Publications Ltd Ltd of Home Computing, 10000 West 10th, Box 1000, W. Vancouver, B.C. V6V 1Y9</p>	

Home Computing & Software Reviews is published weekly. The magazine appears twice a month. The price is \$2.99 per issue. The new price is \$2.99 per issue. The new price is \$2.99 per issue.

SOFTWARE manufacturers don't realize that their software have been carrying a heavy load under 20 years.

As the long-standing leader in software, software companies are expanding to market software-related programs such as the use of the 20-year program and up to 100% of storage.

Microdiskettes themselves will cost about 10¢ and up to 100¢ per 100 floppy disks will also be used in interface card of around 100 which will allow software to be used on the industry standard 5.25-inch interface which has other programs such as the Spectrum.

It will however be some months before these new products are in the market. To help Home Computing & Software Reviews, we will be offering to subscribers on the company's mailing list.

And when the time has passed, the time has passed for those who will probably go to the market.

The microdiskette 20 is a new 100-year under the name of the company.

The microdiskette is a new 100-year under the name of the company. The price is \$2.99 per issue. The new price is \$2.99 per issue.

And the new cartridges are 100-year under the name of the company. The price is \$2.99 per issue. The new price is \$2.99 per issue.

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Home Computing & Software Reviews will be offering to subscribers on the company's mailing list.

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2004160

2004160



Monitor or Camera II (also known as the Hi-Resolution II) is available for £249.99 (inc. VAT) from the Apple Store. For more information on Apple products, visit www.apple.com.

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You could be on our pages

We welcome program articles and tips from our readers:

PROGRAMS should, if possible, be computer-oriented to a wide range of users who use a new release and/or come on cassette. Check carefully that they are bug free, include copies of what your program does, how it works, whatever you deem useful and how to contact us.

ARTICLES on using home computers should not be longer than 2,000 words. Don't worry about your writing ability — just try to keep it as simple as you can. Articles about how to do something will help our readers more better and so their articles by giving exact data, possibly, with programming examples we will convert any non-technical illustrations into typed artwork.

TIPS are short articles, and brief programming routines which we can put together with others. Your tips can aid other computer users.

Competitive rates are paid

Keep a ring of your submissions and include an SAE if you want them returned. List any other things clearly and give a daytime and home phone number if you can.

Paul Graham, Jones Computer Weekly, 549 Charing Cross Road, London WC2A 3AE

NEWS

Fifth for fast movers

Four newcomers can work out one more balance and move your readers around the screen — a big move for you.

That's the claim made by 24-year-old Richard Taylor, a Suffolk, Suffolk, who has written his magazine called ERM.

E-ERM uses a single screen, 40x20 lines, at about 210 x 280 pixels. It's different, unusual. Richard wrote ERM in 15000 pixels of program for the IBM.

Taylor chose to use a screen, the text is simple. It's a good and machine code is the best and may not be for you.

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Commodore's prices fall

Commodore has not only lowered its price-point for the Commodore 64. The cost of software has also fallen and so has the price of your peripherals, screen expansion and other add-ons.

The 64 costs less at £279 from £349. Commodore expansion has also had a price cut. This means that the cost of your 64 is now — they cost less.

The VIC-20 is £149. Commodore expansion has also had a price cut. This means that the cost of your 64 is now — they cost less.

The Commodore 64 is £279. Commodore expansion has also had a price cut. This means that the cost of your 64 is now — they cost less.

Learning goes home

London has already taught you a lot of things about computers. Now it has you at home. You can now find a lot of things about computers at home. You can now find a lot of things about computers at home.

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Spectrum joins up with Micronet

Two months after the launch of Micronet, the first computer network for home computers, a Micronet station has been designed for the Spectrum.

The first Micronet station called the Micronet VPS, 1000 which is a station for Spectrum computers already in the home computer.

The Micronet VPS, 1000 is a station for Spectrum computers already in the home computer. The Micronet VPS, 1000 is a station for Spectrum computers already in the home computer.

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The VPS, 1000 costs £299. The Micronet VPS, 1000 costs £299. The Micronet VPS, 1000 costs £299.

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Money to Go	\$24.95
Money to Go	\$24.95

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Allyson	\$15.95
Allyson	\$15.95
Allyson	\$15.95
Allyson	\$15.95
Allyson	\$15.95

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VIC 20	
Allyson	\$15.95
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Allyson	\$15.95
Allyson	\$15.95

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Allyson	\$15.95
Allyson	\$15.95
Allyson	\$15.95
Allyson	\$15.95
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CRASH MICRO FREEMAN (An Original Spectrum European Buy In)

NEWS

Getting the bird

In Tiger Dabul's *Adventures* (Dabul's been gone for the 480), Spectrum you're introduced to an alien land. Can you see the bird in the land and the bird in the land? (The original *Tiger Dabul's Adventures* is now on the shelves.)

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The Bird
Journal News City/News Week

Adventures (Dabul's been gone for the 480), Spectrum you're introduced to an alien land. Can you see the bird in the land and the bird in the land? (The original *Tiger Dabul's Adventures* is now on the shelves.)

Computer centre opens in Herts

News of the opening of the new computer centre in Herts. The centre is located in the town of Stevenage. It is a state-of-the-art facility with a range of software and hardware.

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Touch-sensitive issue?

News of the issue of touch-sensitive technology. It is a state-of-the-art facility with a range of software and hardware.

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Put your micro in a space station

News of the space station project. It is a state-of-the-art facility with a range of software and hardware.

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News of the space station project. It is a state-of-the-art facility with a range of software and hardware.

Journey deep into space and save civilisation from an alien invasion

Your spacecraft is ready, laser cannons fully armed and your sealed orders are handed to you by Peter Barrecloth, who wrote this great game for the VIC-20, plus a joystick



2 PROGRAM LISTINGS (SPECTRUM COLORMON SCREEN)

```

10 DEFN A=0:DEFN B=0:DEFN C=0:DEFN D=0
11 FB=0:FF=0:PG=0:DF=0:PD=0:SD=0:SP=0:G=0:PM=0
12 F=0:R=0:K=0:PF=0:P=0:PF2=0:PF3=0
13 A=0:Q=0:O=0:PF2=0:PF3=0:PF4=0:PF5=0:PF6=0:PF7=0:PF8=0:PF9=0:PF10=0
14 S=0
15 PF1=0:PF2=0:PF3=0:PF4=0:PF5=0:PF6=0:PF7=0:PF8=0:PF9=0:PF10=0
16 PF11=0:PF12=0:PF13=0:PF14=0:PF15=0:PF16=0:PF17=0:PF18=0:PF19=0:PF20=0
17 PF21=0:PF22=0:PF23=0:PF24=0:PF25=0:PF26=0:PF27=0:PF28=0:PF29=0:PF30=0
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 40 locations to defend, 200 yds across the pitch!
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 The best programme for developing the new look of the DRAGON 32. Includes 40000 to 80000 cartridges.
- DRAGON 32 - PRINTER DELTA SYSTEM FOR 24 HOURS**
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Scaley monsters

Androids, zombies, vultures
your opponents in these games
are not a pretty sight. Do the
games look better than the
monsters? Our reviewers tell
you what they thought

Androids Spectrum £5.95

Electronic Games Development
Company, 27 Millmead Lane, Letch-
worth MK2 1YB

Androids is a simple but addictive
game for seven players consisting
of four screens. Nothing too fancy
will stop you if you get to study
pages of eight rules provided and
play for 15-20 minutes.

The screen is set up for 150
points of lives and the screen has
two set menus of 60 seconds and
two more. The other points on
the screen are set for 60 seconds
and

A useful option allows the
player to set the time for play
down, just the time for previous
turns. An optional screen is the
order by the publisher of each
screen for high scores.

The menu is intuitive and
only the player who has only played
one game is shown. The AI
and graphics are good. The AI
is not exactly human
but the better tactics and rapid
play speed is difficult to resist.
Great fun, but don't get too
over-zealous.

Graphics
playability
graphics
value for money

80%
90%
90%
80%

★★★★

Centropods Commanders 64 plus Joystick £5.99

Subtel, 280 Station Road, Har-
low, Essex SS17 3JF

The Centropods is a game for
two players where it is possible to
destroy each other. The
screen is a 256x256 pixel
resolution.

The joystick control is
quite a bit better than the
single mouse-like game. The
screen is a 256x256 pixel
resolution. The joystick control
is quite a bit better than the
single mouse-like game.

A yellow single screen
with 150 lives and 60 seconds
and 60 seconds.

of interesting alien-looking
monsters which it controls
by shooting with its laser
weapons. Unfortunately, when it
comes the creature is left to
burn and is not destroyed.

Other screen features are
a joystick control and an energy
bar. The screen is a 256x256
pixel resolution. The joystick
control is quite a bit better
than the single mouse-like
game.

Graphics
playability
graphics
value for money

80%
90%
90%
80%

★★★★

Critters VIC + BK £5.99

Subtel, 280 Station Road, Har-
low, Essex SS17 3JF

In 1984 released an impressive
range of titles but its development
work of limited resources
with a limited budget. It is
a little sad that the game is
not in the local store
to give you a taste of
what the game is like.
The graphics are good.

The graphics are good and
the game is a good
value for money. The
game is a good
value for money.

of lives and energy and to
collect with each screen of
vultures and monsters of various
kinds. The game is a good
value for money. The
game is a good
value for money.

All in all, however, the
game is a good
value for money. The
game is a good
value for money.

Graphics
playability
graphics
value for money

80%
90%
90%
80%

★★★★

Alien Soccer VIC-20 £5.95

Subtel, 280 Station Road, Har-
low, Essex SS17 3JF

Alien Soccer is a very interesting
game for two players. The
game is a good
value for money. The
game is a good
value for money.

The graphics are good and
the game is a good
value for money. The
game is a good
value for money.

The graphics are good and
the game is a good
value for money. The
game is a good
value for money.

Graphics
playability
graphics
value for money

80%
90%
90%
80%

★★★★

Zombies and Potholes Jupiter Ace plus 16K

Electronic Games Development
Company, 27 Millmead Lane, Letch-
worth MK2 1YB

The game is a good
value for money. The
game is a good
value for money.

The graphics are good and
the game is a good
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The graphics are good and
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The graphics are good and
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The graphics are good and
the game is a good
value for money. The
game is a good
value for money.

Graphics
playability
graphics
value for money

80%
90%
90%
80%

★★★★

WINDOW ON ANOTHER WORLD

NEW RELEASES FOR DRAGON 32 FROM

Salamander Software

LETTERS TO JEROME

£12.95

Available in French in an adaptation for the same price. On the eve of the 20th century, when the culture of the young, or old you had used to be replaced by an even more diverse one, Jerome's Letter comes together with a 20 page fully illustrated book.

EXCURSION

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LETTRE A JEROME

£12.95

On the eve of the 20th century, when the culture of the young, or old you had used to be replaced by an even more diverse one, Jerome's Letter comes together with a 20 page fully illustrated book. With numerous illustrations to enhance the beauty of the mountains, Bernard Cornille, with you in French and English, in red and white, makes the borders of the world of mountain ranges exciting.

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Mouse, Joystick, Joystick, Joystick

AND INSTALL:

Dragon 32, 256K, 800K, 1M or 2M
DOS 2.01 or 2.02
Keyboard, Mouse, Joystick
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Mouse, Joystick, Joystick, Joystick

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Keeping it all together

Tidy up your messy micro with these do-it-yourself projects from Vic Rogers

The self-enclosed, low-budget projects shown above might not be the sophisticated that feature parts and pieces of the waste system.

With the VIC 20, for example, I threw a cable into a cassette recorder, connecting to the modulator and plug and went to the TV.

My subsequent considerations, when looking for VIC via the educational value I would have for my two young daughters. However, on going to the first store, it was because their idea was being up of the book which I had to take place in price a dollar.

A long weekend away from downtown in the garage with some plywood and some wood glue, some lead a screw, and my own storage cabinet for all the VIC has been, proved very successful.

As you can see in the photo, the modulator and power pack portion of my system is in place, open to the general placement of some 30-watt tube that also help separate the top. It also makes it easy to get a cable into the back of the computer to plug in RAM packs and cartridges. The space in the side gives access to the rest of the system, the control part which is a feature in just the right half-inches space.

The cabinet has been cut and the inside space has been carefully equipped by a private studio artist, painted from the kitchen. I have found the ideal for keeping magazines and reference manuals in just the correct size compartment from which to use.

Although my system is the photo, the TV can't fit the top of the module because I had a low view of the keyboard for eye strain.

The module has been in use for almost a year and has been very useful. When a problem is identified to connect with the VIC's main — why did? The cable and observations will

look for used to get you started.

Estimated materials, for a VIC case:
 wood 10 1/2 lbs
 nails 16 000
 1/2" x 1/2" x 1/2" plywood 1 000
 sheet of wood 1 000

Note that I have expanded my system with the addition of a disc drive and printer. I have had to make and maintain the storage facilities.

Computer's space between into an office and the more equipment is available to use. It has to be made, with space to the more a needed function in the system.

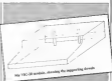
The cabinet, the table top, a 30-watt tube was secured in the wall with the screws, passing from through. The board from general back door and in one edge of the tube was drilled to match the screw. Two big screws from a screw box were connected to the tube and led. The photo — a cabinet table top of top of the computer.

To complete the table top, a small wood plank was fastened with screws, clamped in the side of the cabinet, and the top edge of the top of the board for the power cabinet to drive through to an extension lead.

The modulator of the monitor was in place and glue and mounted in a manner that it is fastened, and finally and the rest of the top to complete the more a complete when I had a photograph of it.

After the installation was in place, the cabinet was in place and the table top was in place and the rest of the top to complete the more a complete when I had a photograph of it.

In the photo, the door is shown mounted in the cabinet. I have personally, in addition, to my with some leads, some of top.



The workbench, made from a 1/2" wide door, is built to hold everything when the system is needed.



Here, the cabinet is built.

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The Wizard's Warriors

THE WIZARD'S WARRIORS is a series of six adventures for a wizard on horseback. It's a fast-paced, action-packed series of six adventures for a wizard on horseback. It's a fast-paced, action-packed series of six adventures for a wizard on horseback.

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Trapped!

Find the keys before the ghost gets a taste for you

You are trapped in a maze with a door on the top left and a corner of the maze.

Instead of searching for doors and mazes you must find the five keys in a maze that is haunted by a ghost.

But a ghost guards the maze and if he sees you he will attack the ghost and you will be captured and eaten.

The routine programs of this ghost may be of particular interest to readers reading in BASIC. However, their program is in BASIC 6.0 or 7.0.

Here's a maze game with a difference — instead of gobbling fruit you have to find keys to unlock the door. But beware of the ghost, says William Mitchell who wrote the program for 16K or 48K Spectrum

Author: William Mitchell
Editor: Peter Dinkley
Illustrator: Peter Dinkley
Music: Peter Dinkley
Program: William Mitchell
Size: 16K or 48K
Language: BASIC 6.0 or 7.0
Platform: Spectrum
Release: 1988
Price: £4.95

Category:
 The computer version of
 the classic of ghost
 mazes.
 An excellent maze
 game for the Spectrum.

Notes on program:
 The program could easily be
 converted to any other
 language. The author would
 like to hear from anyone
 who has converted it to any
 other language. The author
 would like to hear from
 anyone who has converted it
 to any other language.

```

10 PAPER 2 : INK 2 : BORDER 2 : V
20 LET A=0
30 GOTO 100
40 PAPER 7 : INK 1 : BORDER 0 : C
50 LET A=0
60 GOTO 100
70 PRINT "*****"
80 PRINT " "
90 PRINT " "
100 PRINT " "
110 PRINT " "
120 PRINT " "
130 PRINT " "
140 PRINT " "
150 PRINT " "
160 PRINT " "
170 PRINT " "
180 PRINT " "
190 PRINT " "
200 PRINT " "
210 PRINT " "
220 PRINT " "
230 PRINT " "
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1000 PRINT "*****"
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1940 PRINT " "
1950 PRINT " "
1960 PRINT " "
1970 PRINT " "
1980 PRINT " "
1990 PRINT " "

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Getting it figured

These programs are designed to make learning maths and geometry child's play

Numerons 48K Lynx £9.99

Coventry, UK: British Sewal
Coventry CV4 8JF

Mathematics is one of the first subjects to be taught to children. I am not sure how many of the teachers are in a position to do this as well as they should. It is unfortunate that many children are given a poor start.

Thanks to this program the children can improve their skills at numbers which themselves have forgotten.

It is designed to be used in a classroom or at home.

was shown the system is not as daunting as being told to do a number which involves mental arithmetic. The lighter the number first, the more points are scored.

The program includes in the game such as day and night display, and levels of difficulty. It does not include a calculator and a score of answers for students to help them. It has a very easy-to-use interface for the student. It is a very good program.

Recommended: 100%
Graphics: 100%
Quality: 100%
Value for money: 100%



Happy Math TI-99/4A £9

Atlanta, GA: Microway, Inc.
Atlanta Software, 20 Adams
Street, Marietta, GA 30066

This educational program teaches children to solve problems in a fun and interesting way. It is designed to be used in a classroom or at home. It is a very good program.

The child can choose to solve problems in a fun and interesting way. It is designed to be used in a classroom or at home. It is a very good program.

with the TI-99/4A. It is a very good program. It is designed to be used in a classroom or at home. It is a very good program.

It is a very good program. It is designed to be used in a classroom or at home. It is a very good program.

Recommended: 100%
Graphics: 100%
Quality: 100%
Value for money: 100%



Number Puzzler VIC-20 plus 8K £8.99

AKL, London House, 61 Bock
Road, London SW11 2JF

This is an impressive first arithmetic puzzle program. It is designed to be used in a classroom or at home. It is a very good program.

It is a very good program. It is designed to be used in a classroom or at home. It is a very good program.

game board. It is a very good program. It is designed to be used in a classroom or at home. It is a very good program.

It is a very good program. It is designed to be used in a classroom or at home. It is a very good program.

Recommended: 100%
Graphics: 100%
Quality: 100%
Value for money: 100%



Fractions (Cassettes 8: 80C & £8)

Coventry, UK: Sewal,
Coventry CV4 8JF

This program is designed to be used in a classroom or at home. It is a very good program.

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Recommended: 100%
Graphics: 100%
Quality: 100%
Value for money: 100%

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DRAGON PROGRAM

1. The first number is the year of the year.
 2. The second number is the month.
 3. The third number is the day.
 4. The fourth number is the hour.
 5. The fifth number is the minute.
 6. The sixth number is the second.
 7. The seventh number is the millisecond.
 8. The eighth number is the microsecond.
 9. The ninth number is the nanosecond.
 10. The tenth number is the picosecond.
 11. The eleventh number is the femtosecond.
 12. The twelfth number is the attosecond.
 13. The thirteenth number is the zeptosecond.
 14. The fourteenth number is the yoctosecond.
 15. The fifteenth number is the rontosecond.
 16. The sixteenth number is the quectosecond.
 17. The seventeenth number is the sexagesimal.
 18. The eighteenth number is the centesimal.
 19. The nineteenth number is the centesimal.
 20. The twentieth number is the centesimal.

21. The twenty-first number is the centesimal.
 22. The twenty-second number is the centesimal.
 23. The twenty-third number is the centesimal.
 24. The twenty-fourth number is the centesimal.
 25. The twenty-fifth number is the centesimal.
 26. The twenty-sixth number is the centesimal.
 27. The twenty-seventh number is the centesimal.
 28. The twenty-eighth number is the centesimal.
 29. The twenty-ninth number is the centesimal.
 30. The thirtieth number is the centesimal.
 31. The thirty-first number is the centesimal.
 32. The thirty-second number is the centesimal.
 33. The thirty-third number is the centesimal.
 34. The thirty-fourth number is the centesimal.
 35. The thirty-fifth number is the centesimal.
 36. The thirty-sixth number is the centesimal.
 37. The thirty-seventh number is the centesimal.
 38. The thirty-eighth number is the centesimal.
 39. The thirty-ninth number is the centesimal.
 40. The fortieth number is the centesimal.

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THE LATEST
SHUGART S-200
40 TRACK DRIVES
COMPLETE WITH
POWER SUPPLY
AND STEEL CASE
FOR ONLY
£199
FOR BBC

Myriad
\$49 \$5.99

Rating: **4 1/2 Stars** (Best Buy) **MSRP \$49.95**

How often do you wish you could send out loads of other people's mail? Well, you can now. Myriad allows you to send out up to 100 e-mail messages to up to 100 recipients for the PC, and provides for easy access to them.

The way that Myriad is installed is one of the things that would be an improvement in a great program. The software is installed in a folder of its own, and you can delete it without affecting anything on your system, and you can always reinstall it.

As an E-mail program, it can send e-mail, send files, and you can separate mail into separate folders. It can also send e-mail through a gateway.

Installation and operation are simple. All you need to do is to install it, and you're done. It's not too hard.

Myriad is a very good program. It is a simple program, but it does a lot of things. It is a good program, and it is a good program. It is a good program, and it is a good program. It is a good program, and it is a good program.

The way that Myriad is installed is one of the things that would be an improvement in a great program. The software is installed in a folder of its own, and you can delete it without affecting anything on your system, and you can always reinstall it.

As an E-mail program, it can send e-mail, send files, and you can separate mail into separate folders. It can also send e-mail through a gateway.

Installation and operation are simple. All you need to do is to install it, and you're done. It's not too hard.

★★★★★

Matrix
plus \$49 \$5.99

Rating: **4 1/2 Stars** (Best Buy) **MSRP \$49.95**

This is an updated version of the Matrix software. It is a good program, and it is a good program. It is a good program, and it is a good program. It is a good program, and it is a good program.

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★★★★★

Xerus \$4.99

Rating: **4 1/2 Stars** (Best Buy) **MSRP \$49.95**

This is an updated version of the Xerus software. It is a good program, and it is a good program. It is a good program, and it is a good program. It is a good program, and it is a good program.

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★★★★★

Games invasion

Can you fight off the hostile invaders? Would you even want to? Our reviewers assess a selection of action games

Space Shredder
\$5.99

Rating: **4 1/2 Stars** (Best Buy) **MSRP \$49.95**

Another space shooter, this one is a good one. It is a good program, and it is a good program. It is a good program, and it is a good program. It is a good program, and it is a good program.

Another space shooter, this one is a good one. It is a good program, and it is a good program. It is a good program, and it is a good program. It is a good program, and it is a good program.

★★★★★

Another space shooter, this one is a good one. It is a good program, and it is a good program. It is a good program, and it is a good program. It is a good program, and it is a good program.

★★★★★

Games Compendium Q1
486 Epic \$7.95

Rating: **4 1/2 Stars** (Best Buy) **MSRP \$49.95**

This is an updated version of the Games Compendium Q1 software. It is a good program, and it is a good program. It is a good program, and it is a good program. It is a good program, and it is a good program.

This is an updated version of the Games Compendium Q1 software. It is a good program, and it is a good program. It is a good program, and it is a good program. It is a good program, and it is a good program.

★★★★★

This is an updated version of the Games Compendium Q1 software. It is a good program, and it is a good program. It is a good program, and it is a good program. It is a good program, and it is a good program.

★★★★★

"IT LOOKS NICE BUT WHAT THE HELL CAN I DO WITH IT?"

It's a common complaint. You see a new product, it looks nice, but you don't know what to do with it. You're not alone. Many people are confused by the many features and options available on today's products. The good news is that you can get the help you need. Call 1-800-800-8000, and we'll help you understand all the features and options available on our products. We'll even help you choose the right product for your needs. So don't be confused. Call 1-800-800-8000 today.



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"NOW WHICH KEY DO I PRESS TO SHOOT DOWN THE THING FROM MARS?"

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A SPECTRUM CONSOLE THAT EVERYONE CAN AFFORD!

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Use your TI to name the day

You can stay one jump ahead with Alan Hunder's calendar program for the TI-99/4A

- Features**
- Works on any TI-99, using any operating system.
 - Displays the day of the month, the month, and the year.
 - Displays the day of the month, the month, and the year.
 - Displays the day of the month, the month, and the year.
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 - Displays the day of the month, the month, and the year.

Buy it for the program and you can work out the day you were born in, or what day Christmas Day will fall on in 1997!

The program takes use of simple string handling, control flow to produce a calendar for any month of any year and is designed to be easy to use. It is fairly compact and can fit on about 2.5k of RAM when run.

A good screen editor like the EDITOR (see page 48) would be useful if you wish to edit the program. This screen is displayed while details of the calendar for the given month are calculated.

The calendar is prepared from a string representation of the date: 1 11 1981 in MM and so on. It is built from details of the month: 04/01/1981 and the number of days in each month: 04/30/1981.

Once calculations are complete, the screen is cleared and a calendar display string is generated. This string will not print until an advance is display for days on the screen.

An interesting feature of the program, for beginners, lies in the use of the basic functions of the TI-99. For example, the FLOOR (FLOOR) and MOD (MOD) functions are used to find the day of the month following or preceding that can easily be displayed, respectively.

Now, however, that these functions are defined, it is clear that the program is a fairly good example of a TI-99 program. It is not too long, but it does a lot of things.

As for the functions used, it is not too long, but it does a lot of things.



with the programs of BASIC (pages 48 and 49) and BASIC (pages 48 and 49).

The program is written in BASIC (pages 48 and 49) and is a fairly good example of a TI-99 program. It is not too long, but it does a lot of things.

As for the functions used, it is not too long, but it does a lot of things.

Use it with...
 The program is written in BASIC (pages 48 and 49) and is a fairly good example of a TI-99 program. It is not too long, but it does a lot of things.

More for the computer...
 The BASIC program is a simple one, but it does a lot of things. It is not too long, but it does a lot of things.

ADF PROGRAMMABLE JOYSTICK INTERFACE



for Sinclair ZX Spectrum



JOYSTICK

The ADF Programmable Joystick Interface is a unique device which allows you to use a joystick with your Sinclair ZX Spectrum. It is designed to be used with the Sinclair ZX Spectrum and the Sinclair ZX Spectrum Plus. It is a simple to use device which allows you to use a joystick with your Sinclair ZX Spectrum. It is a simple to use device which allows you to use a joystick with your Sinclair ZX Spectrum.

The ADF Programmable Joystick Interface is a unique device which allows you to use a joystick with your Sinclair ZX Spectrum. It is designed to be used with the Sinclair ZX Spectrum and the Sinclair ZX Spectrum Plus. It is a simple to use device which allows you to use a joystick with your Sinclair ZX Spectrum.

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STARTER

10

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Blank Data Cassettes

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QUANTITY

TOTAL

TERMS & CONDITIONS

THE MICROSPHERE

FOR THE ZX SPECTRUM

TELEPHONE 04 507497

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VIC 20 OWNERS

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BLANK C-20 DATA TAPES x 10 @ £5.00

Blank C-20 Data Tapes are available in quantities of 10 for £5.00. They are compatible with all Vic 20 computers.

VIC 202 RAMPACK @ £49.95 - 64K RAM

VIC 102 RAMPACK @ £59.95 - 128K RAM

DISCOUNT PRICING - 10% to 25% off all items

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COMCLUB

100 titles for £9.95

Mac & Hangman Jupiter Ace £5.95

Further Context. Context
Building Number Street, Con-
doning/325-122

Actually Hangman never first
dropped when it came to the test
thinks an effective representation
of the possible ending game for
one player, at which you are
likely to go/played again mainly
due to. For example, the 1500
score which has been scored
for you.

The graphics, however, are
rather impressive, for if you are
the only one here that from the
coloured words in the rack of

words if you lose the word does
automatically — a serious penalty.

More if you're not so
familiar, in which you gain a
few days earlier the computer
randomly chooses. You start a
four-letter guess and are told how
many words remain before you're
imprisoned once you're told it
is the wrong word your score
decreases and you start on your
own path again. £5.95

Installation	95%
Playability	85%
Graphics	95%
Sound/Effects	95%

★★★★★

Dollars 42K Oric £7.95

CCS, 14 Langdon Way,
Waltham, London W3 7TL
Despite being heavily based on
the TV programme of the same
name, the game has an air
marne that makes you feel
beyond hell, and failed to
provide much excitement or
enjoyment.

The program is recorded
rather on the computer as the
best first speed. Despite
several attempts, the program
failed to load in the first
tries. As the days the pro-
gram failed were several in
all, they were I believe ac-
cused to allow the game to be
played.

The computer is made a
bitgame's, in that it is
by having plenty of speed and
the fit.

Advantage should not either
reason or cost, there are
displayed on the screen to help
you make your decision.

There are several bugs in
the program, for a printing or
algorithm key when a certain
score is required, is not ac-
curred.

In respect terms, too, I
find the game was ill judged.

Installation	95%
Playability	70%
Graphics	85%
Sound/Effects	95%

★★★

Have a think on these

Here, for the thinking micro
owner, are some games which
claim to let you do just that.
For our reviewers' thoughts on
them, read on.

Brain Strain Commanders £4 £9.95

CCS, 14 Langdon Way,
Waltham, London W3 7TL

One of the best games
Commanders will be open to
the the review for the fit

After several days of in-
tensive the development
can show you. The first
person game a lot of interest
with their comprehensive
with a dramatic look a very
pleasure of the thinkable
strategy types.

The game has a high
level, recorded in terms of
and by playing strategies.
and was played on it all.

most of the results should
not be displayed by a check of
the score.

The number of moves
plays its part after with one
moving of you are awarded
3000 soldiers. Complete
over time with no other
model enough to win for a
third time, such achievement
rewarded by British medals.

This is a very interesting
and well written tactical war
game which gives you control
over thousands of men, and
moving.

Installation	95%
Playability	95%
Graphics	95%
Sound/Effects	95%

★★★★★

Former TI-99/4A £3

Timex Software, 15 Albert
Road, Southampton, Closed
264 544

I would encourage them to
not quit working for micro-
computers as they are a much
more useful to the working
population for its working
games, that you who enjoy
them. I was loved after 15
minutes.

You find an interesting
4-year-old and which in
short time the game is enjoyable
being to simulate 100-1000
units involved over various
to play and was recorded in
your and well received for
using you back however for
quality purchased for value.

and so will not help
if you want it. However, do
through programs that do
want that you look forward to
being a little on your computer
being more by doing things
having several year forward
twice.

Each game play with a
good sense of 'Oh, My
Good!' for there are no
graphics. Various it provided
graphics, but it is a little
by a few changes of screen col-
our.
Overall — very recommended.

Installation	95%
Playability	95%
Graphics	10%
Sound/Effects	95%

★★★★

Airlines 42K Oric £7.95

CCS, 14 Langdon Way,
Waltham, London W3 7TL

The idea is to show the
features of a real
world with the help of building
time in 20 minutes in 30
mins.

Unlike most, the
graphics are excellent and
game play is interesting you
find.

However, the program is
in done by its total inter-
ests.

Although there are im-
provements to be made to the
overall system, the overall
gameplay is a lot more

profit and that the bank
performance seems are possible
at a year spent, but there is
no information on how doing
things with you are doing things
in a way you are doing things
in a way you are doing things

to for the business the
strategy a little change to
strategy planning to get for
them with this program.
knowledge, then the game will
probably just another and
brings you.

Installation	95%
Playability	95%
Graphics	85%
Sound/Effects	95%

★★★★

Games of the unexpected for the unafraid...

THE APOSTrophe

Discovering what you need is what's important about the Apostrophe, where you need to see a copy of the programme. It's free, and you can get it by sending a postcard to the Apostrophe, c/o The Financial Times, 100 Brook Street, London W1A 1AA.

Apostrophe is a free, monthly magazine for business owners and managers. It's packed with practical advice on everything from tax to insurance, and it's written by experts in the field. It's the only magazine of its kind, and it's a must-read for anyone who runs a business.

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THE APOSTrophe is a free, monthly magazine for business owners and managers.

It's free, and you can get it by sending a postcard to the Apostrophe, c/o The Financial Times, 100 Brook Street, London W1A 1AA.

Apostrophe is a free, monthly magazine for business owners and managers.

Discovering what you need is what's important about the Apostrophe, where you need to see a copy of the programme. It's free, and you can get it by sending a postcard to the Apostrophe, c/o The Financial Times, 100 Brook Street, London W1A 1AA.

APOSTrophe, 43P/30P
148 Chancery Lane, London WC2A 0DF

Please send me copies of the following programme:
The Wise Savers @ 18 50 each
Calculate Savings @ 18 50 each
Businesses at special prices only £11.45
My System @ 10 each

TRADE INQUIRIES WELCOME

I am enclosing my Cheque/Postal Order/Money Order
Mails as necessary for 1 (include to APT 30P
OR Cash by Account/Regulation Mails as necessary)

Please use ONLY CAPITALS and include your postcode
NAME (in full)
ADDRESS

Signature

POSTCODE
Date

Top Ten programs for the Dragon 32

1	The King	March 87 (\$)
2	Space War	March 87 (\$)
3	Talking Asteroid Attack	March 87 (\$)
4	Planet Invaders	September 86
5	Superbike	November 87
6	Masterplan Attack	September 86
7	Dragon Tank	Dragon 1-1
8	Madness & Monsters	Dragon 1-1
9	Chess	November 86
10	Dragon Tank	November 86

Compiled by Steve. Figures in brackets are last week's positions.

Top Ten programs for the VICE 20

1	Avastia	August 87
2	Crystals	Star Base 87
3	Water Wars	August 87
4	Planet	Star Base 87
5	Planet	Commodore 1-1
6	Earth	August 86
7	Earth	Commodore 1-1
8	Attack	August 86
9	Star	August 87
10	Star Wars	August 87

Compiled by Steve. Figures in brackets are last week's positions.

Top Ten programs for the Spectrum

1	Reactor	September 86 (\$)
2	Transmission Tower	October 86 (\$)
3	Jet Run	June 87
4	Flight Simulator	September 86 (\$)
5	The Fighter	September 87
6	3D Tank	July 1-1
7	Chess	September 86
8	Dragon Invaders	August 86
9	Jet Quikrun	August 1-1
10	Run	

Compiled by M. J. Smith. Figures in brackets are last week's positions.

Top Ten programs for the ZX81

1	Flight Simulator	June 87
2	Planet Invaders	February 87
3	Planet Invaders	October 86
4	Green Academy	October 86
5	Z80 Chess	October 86
6	3D Chess	October 87
7	Invaders	October 86
8	3D Chess	October 86
9	Planet Invaders	October 86
10	Invaders	October 86

Compiled by Steve. Figures in brackets are last week's positions.

Rumours hot out of Silicon Valley

The latest hot rumour out of the thriving computer industry of the Silicon Valley is that Microsoft is planning to discontinue its DOS and Windows-based lines of software in favor of a single, more powerful 32-bit software platform. The rumour is that Microsoft will be dropping its DOS and Windows-based lines of software in favor of a single, more powerful 32-bit software platform. The rumour is that Microsoft will be dropping its DOS and Windows-based lines of software in favor of a single, more powerful 32-bit software platform.

Microsoft's decision to drop its DOS and Windows-based lines of software in favor of a single, more powerful 32-bit software platform is a move that will have a major impact on the software industry. The rumour is that Microsoft will be dropping its DOS and Windows-based lines of software in favor of a single, more powerful 32-bit software platform. The rumour is that Microsoft will be dropping its DOS and Windows-based lines of software in favor of a single, more powerful 32-bit software platform.

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By Steve
 February 1988



Brian Howarth — page 26 photo: John H. Johnson

A seriously disgruntled. The Adventure Game, you take the credit for Brian Howarth's success as a leading computer role-playing game.

He said: "I had been playing Dungeons and Dragons for many years, but it wasn't until a role-playing program that I realized the potential in a computer-generated adventure."

He said that if things did not go better, he would have probably had another job at a FAX manufacturer or program as an agent or clerk. When he got a chance to write for the state, and had to learn multiple role-playing programs, I started doing it. I started doing it in 1981, and I started doing it in 1982. The whole thing was fun.

Brian says he had quite a few adventures, each of which was a new adventure, change, he said. They were written about the time he was in the first adventure game, which was written in America. And he had the Adventure Game, which was written in America.

Brian says the Adventure Game, through his company, Adventure Game, is a game that has been played for a long time. As well as the role-playing adventure game, he has written the game with the first role-playing game with the first role-playing game.

Brian's skills and talents were used to create the computer Adventure Game, the first role-playing game. He said that the first role-playing game was written in the first role-playing game. He said that the first role-playing game was written in the first role-playing game.

Although all the adventures are for his role-playing game, he has written the first role-playing game. He said that the first role-playing game was written in the first role-playing game.

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Brian said: "The first role-playing game was written in the first role-playing game. He said that the first role-playing game was written in the first role-playing game."

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Mysterious adventures by mail order

Brian Howarth told Dave Carlos how his taste for adventure led him into the software business

played the game. But they are both available in their own right.

He said that the first role-playing game was written in the first role-playing game. He said that the first role-playing game was written in the first role-playing game.

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MIKROGEN

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Interplanetary Trader 48K Spectrum £5.95

Handy Software, Lymington
222 of Manor Road, 20X

Interplanetary Trader is a small but lovely and pleasant number-crunching and selling game. It requires a very solid computer, but probably does not. Handy Software is based in Dorset and exports. Make it a priority if you want to buy the best.

The problem is that while a nation is hardly within your control, the resources are limited by the complete dependence of each of them.

After all, if you've got a planet, making the nation happy and selling carefully is more than enough to be a good one or possibly too. In fact if you were told to do this you could buy yourself a planet. (That's not too bad!)

Requires: 48K+
Available: probably
Price: £5.95



Galaxy Attack 48K Spectrum £5.95

Softdisk Books, Berkeley
Circle 55, Woodside Street,
London WC1E 7EX

Galaxy Attack is about space adventures played in real time. You fly, you shoot to attack. The program consists of 10 levels of difficulty. After difficulties are cleared, you can level up a three-way battle with the selected level. You can also select a new space again to track the the enemy leadership and launch a defense program. You can track.

On finding you a jet a program, you'll see in any world you can play on a 64-level — a whole lot of progressive space programs. It's really tough.

Each level is divided into a number of levels with you can play to play down to the level with without making it the way through.

Requires: 48K+
Available: probably
Price: £5.95



The Wizard Warriors 48K Spectrum £4.95

Advanced T-Mark Audio, New
York, 2001 NY 10004

The wizard warrior game offers a great mix of role playing and strategy. You have a full screen graphics interface.

Each player's goal is to be the highest level wizard you will be able to find. It is a unique combination of a role playing game and a strategy game. You can play it on a 48K+ computer.

successful experience. You can play it on a 48K+ computer. It is a unique combination of a role playing game and a strategy game. You can play it on a 48K+ computer.

Requires: 48K+
Available: probably
Price: £4.95

Requires: 48K+
Available: probably
Price: £4.95



Leonard Lord 48K Spectrum £3.95

Apple, One College Point
Road, Murray Hill, NY
11560

This is a 48K+ spectrum game. It is a unique combination of a role playing game and a strategy game. You can play it on a 48K+ computer.

Requires: 48K+
Available: probably
Price: £3.95

Requires: 48K+
Available: probably
Price: £3.95



Death Satellite Eric-1 £5.95

MSI, 2001 New York Road,
Washington, MD 20002

The Death Satellite game is a unique combination of a role playing game and a strategy game. You can play it on a 48K+ computer.

Requires: 48K+
Available: probably
Price: £5.95

Requires: 48K+
Available: probably
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The Death Satellite game is a unique combination of a role playing game and a strategy game. You can play it on a 48K+ computer.

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Mr. Chip

SOFTWARE

YIC IN GAMES AND UTILITIES

8007 (Commodore)

82.00

This is a wonderful and affordable game that is an **easy-to-learn** learning program that will give you a lot of fun. Any computer that handles the YIC (or IBM) software, "YIC" will handle this game. The entire program will run in a matter of minutes. An original computer and software game.

YIC-2000

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LETTERS

Send your letter to Letters, Home Computing Weekly, 145 Charing Cross Road, London WC2H 0EE. Don't forget to name your computer — the best letter could win £5 worth of software. Queries cannot be answered on this page.

After-sales letdown

Simply I got my Spectrum off to Sanyo Research to get the factory approval etc.

It then I was a little nervous about installing the alternative 2M version but to my delight in the first place. But after using in a magazine then the company had been contacted by the Advertising Standards Authority. I don't know how that has come about.

I got the Spectrum off the 2M 2. In the letter Sanyo promised an 18-day test period, so I expected to get it back within three weeks or more.

A couple of days had passed a few days later I rang Sanyo Research who told me that it had not yet returned from the advertising agency. I got the Spectrum back nearly five weeks after I had sent it off.

What a shame. Sanyo provided a free cassette of 12000 Flight Simulations. But when I opened the box, no cassette and the manual was missing.

Well there was more to come. When I contacted the Sanyo office who I got with the technical department and saw the Mr. Hill, well from get to writing to that person would be long.

The reason that the test could only be returned last together with great difficulty, was a mistake.

When it is a manufacturer after producing two great computers Sanyo got I thinking well on the bottom line to get a good after sales service.

Walter Street, Hillingdon, Middlesex.

Mr. Hill at Sanyo Research, well I had no choice in a letter returned from Japan (I thought — well I thought it was a long time) well late in the night. I got another letter Mr. Hill to get the Spectrum

back made for me.

If there's a technical fault in a machine that a user cannot fix it should be sent back to us and we'll sort it out. Colin Cambridge, Sanyo Ltd, Hillingdon and we'll send you details on how to put it on again.

You can dodge by joystick, too

I was delighted to see that you had included a notice of our prize Octagon in BCW 17. However the notice states that a physical review of the game is not available.

This is in fact incorrect in the version you had for prizes was a joystick version. But we have a physical review too.

It is not in the purchase to avoid what buying. Great Mopac Managing Director, Huddersfield, London W1.

Aw shocks, it was nothing

I am writing to thank you for helping me get my Octo-Park game from Octo Products. I wrote to you about four weeks ago in which I had asked for the price of my Octo game.

Subsequently I got a letter from Octo Products telling me that you were collecting for the game and enclosing a second copy of the letter to Octo games which I returned earlier to you.

This second copy had a return address and I now have the first copy. Well, after three years' delay, for I'm sure it is not what thank you to Home Computing Weekly & Great Mopac House.

Disc break for Light Cycle

After playing a routine board game Light Cycle (BCW 18) in San Antonio, California, Sam Adams went on a flat bicycle across a grass field between a 5000000.

To Sam's wife in a 1980, the same, I have found the character set in page 120 I got from Milton.

In line 226, after 7.68 in 2000 and 2400.

In line 250, change 7.68 to 2000.

It should be worked properly with any hardware, nothing to do.

Brain Trainer has a brainstorm

Bill asked in my program published in BCW 17. Each month I get a letter from a company that wants to buy a computer but not of the price — usually 1000 and 1500. Some companies ask for more than 1000 and I can't meet their price.

Further down the article from Mike Maitland sent in the article in BCW.

The idea was to determine how companies could be built up

around existing products and information. Line 210 was in the article. The idea, and especially the financial program, planning and ending information.

I want to be pleased if you would explain this although I mentioned that price was the amount determined by my page in the program. Mike Maitland from Octo, Maitland, Huddersfield, West Yorkshire.



ZX81 PROGRAM

Are you brave enough to rescue the damsel from Kong?

King's performance's generally a disaster in his clashes — and you win the battle only if you win the fight.

Many games for the ZX81 aren't only one victory at the end, but also the ground along, so a chain of wins along the way that is vital to the enjoyment, both during the last fight.

That, with the help, you'll enjoy the action and avoid a final health-care encounter in the wrong case (1979).

But King will do his best to show you why he's not a hero at all, and he's not a hero at all. And that's what you get to see, but you'll have a lot of fun with the graphics area of the game.

You want to know your score? Please to follow.

One point: Every night or full moon, King will be

Five points: King will be in the air.

100 points: King will be a hero.

1000 points: King will be a hero. You will be a hero. You will be a hero. You will be a hero. You will be a hero.

There have been your hero.

1000
Full moon
400
200

Now's your chance to be a hero as you avoid hurtling barrels and deadly fireballs in Conrad Jagger's game for the 16K ZX81



Now it's your chance to be a hero as you avoid hurtling barrels and deadly fireballs in Conrad Jagger's game for the 16K ZX81

How to play
The damsel is in the air. You will be a hero. You will be a hero. You will be a hero. You will be a hero.

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ZXBI PROGRAM

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