

micro Adventurer

April 1984 75p



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—*Computer Choice*, Dec 82

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—*Acorn User*, Feb 84

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—*PCW*, 15th Jan 84

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—*HELIX* issue 1.3

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ADVENTURE REVIEWS

"Colossal Adventure... undoubtedly the best Adventure game around. Level 9 Computing have worked wonders to cram all this into 32K... Firstly **Dangerous Adventure**... best but by no means least. This is the best of the lot... a truly massive adventure... you'll have to play it yourselves to believe it."
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—*More Adventures*, Dec 82

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—*Micro-Music*, Feb 84

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Letters

Here and there, a place to turn to for help, your opinions on adventures.

News

Melbourne House releases an adventure-stategy game called Muppy Spikermitt. Britain will host the European Science Fiction Conference scheduled at Exeter in Brighton. Marvel comics are converted to software, a computer-moderated play-by-email game, Siamet, is launched on Prosal and two software houses announce competitions.



New a hobbit's mind works

Neal Martin looks at the use of artificial intelligence in adventure games.

Fun and games with Scott Adams

The father of micro computer games, Scott Adams, tells how his multi-million dollar software business started in the spare room of his modest Florida home in 1975.

New rule for micros

Glen Hatten argues that there is a role for micros in role-playing games and gives examples of what they may be used.

Software Inventory

Reviews of new releases including The Pit and the Gorb for the Spectrum 48K and the BBC B, Wings of War for the Dragon 32 and M.L.L.E. for the Atari.

A salute to wargames

Lawrence Miller looks at some of the more popular board wargames and their transition into software.

Writing a convincing plot

It is one of the first, most important steps for players new to the field of writing adventures. John Fraser offers some research advice.

Adventure File

A comprehensive list of wargames, simulations and adventures.

Your Adventures

Programs from readers this month include a graphic adventure from Jeffrey Tullin which incorporates the scrolling window technique used in The Hobbit.

Adventures Help/Contact

Tony Bridge gives hints for those who wish to read front on Yaldalla — how to find Olan, and The Hobbit, providing another clue on the goblin's disposal and advice on how to escape the gull, Bulbaw, etc.

Competition

There has disappeared where the third Botic ring has been hidden. As well as a share in the treasure you could win a copy of either The Boss or Champions, from Prosal!

CONTENTS

PLAYING an adventure may take you into a brand new world — but it's often been pointed out that the concept itself is far from being new.

In fact, computer adventures have an honourable line of descent from — among others — role-playing games, although D and D fans have been hard to deny the new "brand" of playing. As Glen Hatten shows in this long such article, make little sense. Even ignoring the doors that software adventures can open, micros can play a very useful part in role-playing games. Fantasy games can always be enriched by an element of realism, a point corroborated by John Fraser, who also draws attention to another line of descent — from science fiction.

But it's not enough to have convincing details of an impressive atmosphere, strategy too is important. This is obviously true of war games — yet another honourable ancestor covered here — but is no less so for adventures themselves. In fact the history of gaming must be nearly as long as the history of the human race. As Lawrence Miller explains, war games themselves are directly descended from the planning done by military commanders before going to battle — and a propensity for fighting seems to be one of the more constant themes of history. Long-established board games such as chess are in fact highly formalised war games.

So adventures have an honourable, if mixed, ancestry, plus some very interesting cousins. Along the way there have been some curious mixed marriages as well — as just one example this issue looks at the "union" between Scott Adams, one of the founding fathers of adventures, and the Marvel comic book heroes, Spiderman and the Hulk.

This kind of cross-fertilisation is close to the heart of the European Science Fiction Convention being held this Easter in Brighton. For instance M author Harry Harrison, who is planning software to accompany some of his novels, is expected to be there along with other celebrated writers. Science Fiction films on show include Blade Runner (this is a pale reflection of the book on which it is based, *The Android Dream of Phillip K. Dick*), and the Star Wars and Star Trek sagas. For dedicated adventure fans there is a section dedicated to computer hardware and software. And dungeon masters need not feel neglected for sessions will be held covering science fiction and fantasy role-playing and board-gaming — the only problem with this type of mixed marriage is that the resulting hybridised creatures can become very cumbersome.



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Trust no-one! Tie your friends before they tie you.

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THE UNORTHODOX ENGINEERS: THE PEN AND THE DARK

Adventure game program by Keith Campbell
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Colin Kapp created the classic SF stories about the Unorthodox Engineers - and now you can try to solve the mystery of the indestructible pillar of darkness and the riddle of contra-energy in this mind-bending text adventure game.

Reading Colin's story in this pack should help you. But once you and your micros are locked into the problem, not even Colin could get you out.

By special arrangement with an unspecified alien culture, Mosaic will let you have the story along with the program - so at least you're in with a chance.

Please read the story carefully... because we'd like to release our Spring SF bookcase blockbuster (Larry Harrison's *Stanley Steel Kat*) on micro for the first time!) before you carelessly unleash contra-energy across the universe. Thank you.

Available for the: **Spectrum 48K** (see pages 71-7) **BBC Micro II** (see pages 71-7)



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LETTERS

Send your hints, successes, complaints and compliments to Letters Page, Micro Advertiser, 12-13 Little Newport St, London WC2R 2LD

Education software

YOUR editorial in the February issue presents an interesting idea. However, several people have anticipated you.

For the younger children, Todd's Tale and Dragon's Keep from Sierra On-Line provide an educational introduction to adventure gaming.

For older children the two Spinnaker Troops cases from Spinnaker Software have a variety of educational objectives while being excellent adventure games.

Even the medical student is covered for with Adventures in Herb from Krell Software and Microbe from Synagistic Software, both being medically accurate.

Interested readers can read reviews of these Apple games in the December issue of Windfall and the February issue of Apple User.

Mike Carr,
Sandy Lane,
Cranby Down,
West Sussex.

All that glitters...

UNFORTUNATELY it is all too common these days to buy a program that looks like a packet of gold on the outside and find a pebble inside. I wonder if others have ripped off after having bought software? And does anyone else find that Valthia crashes after having played it for a while? What's the problem?

I am able to give hints on Aris's adventures A and D and The Hobbit if anyone wants to drop me a line.

Meanwhile, can anyone tell me how to get the key and what I do with the lead body in Ship of Doom. It's driving me crazy.

Peter Clements,
47 Althorpe Rd,
Ruislip,
Surrey.

Hobbit harangued

EDITING the final months of 1983 I, like hundreds of thousands, were reading and hearing about the adventures of the year, The Hobbit.

I have been fascinated by adventure games ever since a micro computer came into my home, having enjoyed many hours of fun and frustration while adventuring. Now it happened that a Christmas bonus came my way so I started with £14.95 for a copy of the famous Hobbit adventure.

Some weeks have now passed since that first loading. I don't wish to spoil this adventure for others but it takes only four moves to get out of the Gaffer's Dungeon to the ring; the guidelines I have ever managed to accomplish this feat is 36. Yes 36 attempts, approx. 40 minutes real time to make just four moves, seven times I sit more out of the dungeon a pebble comes and puts me in again and boring time after another.

It seems that because of this one-lapse style of game I am unable to kill the goblins before they catch me. My commands are not entered and the game has decided what it is going to do.

I eventually managed to find Gollum about five or six moves away from the ring but because of the goblins this took about 1½ hours to achieve and on one evening his only aim is to take the ring from me. I was once or twice asked a riddle by Gollum but when I replied he just walked away.

It is with much regret that I conclude this is the most stupid, boring, boring adventure I have ever had the misfortune to play. It is either boring to play, it is either boring to be too clever or it just will not work on my BBC B computer.

I am disappointed with this program because I am sure it must work better on other computers. I hope someone attempting advertising for the first time is not put off for life. I would be interested to learn whether others have experienced similar problems. T. James,
11 Abchurch Ln,
Oxford.

Favourite war game

I REALISE that you are dependent on advertising publicity from the software companies but some of the ads on Disappointment (this year) wasn't quite correct.

Once you have played such side ones, both players have a good knowledge of each other's strategy and weak spots.

I admit I am biased as I am a naval buff. The game is okay but could have been a lot better.

I can recommend Digital Enterprise's Fighter Pilot for

the 48K Spectrum as a good simulation of modern air combat, even if it doesn't have air-to-air missiles nor SAM's. Success by Imagine appears to have a bug that makes it crash every other game. I first thought it was my Spectrum but no, it's the programming.

This game uses joystick, will run suffers from not having any input from a scanner. It's quite like the APS Express Front for the Aris.

I've been running a game of Diplomacy on Proved since October 1983. It's a lot smoother than the personal based form of playing it and a turn can be 60000 and seem to take an hour or two. I've tried all dipping via the players i.e. via Mailbox on Proved.

The problem in the future may be the buying of a change on every Mailbox message. The call connect times are okay and will be better when all local computers can handle the full Mailbox facilities.

Micro Advertiser was a pleasant surprise but it would be convenient if you put your numbers on the cover so I know how many copies I had missed. How do I get back copies?

Frank Jones,
32 Grosvenor Park Drive,
Hastings,
Essex.

THE FIRST issue of this magazine was published in October 1983. You can obtain back copies by writing to the UK address for Micro Advertiser printed on page 8000.

Offer of help

IF FRIENDS and I have finished the following adventures and would gladly help anyone who is stuck. Aris's Planet of Death, Inca Curse (1½ hours) Ship of Doom, Espionage Island, Gollum Apple, Scott Adams - Pirates Cove, Voodoo Castle, The Count, Quakeball Smugglers Cove, Mythology Horror: The Hobbit, Level 9 Adventure Quest (2 hours), Dungeon Adventure (2½) Snowball Snow Clock, A Corner East, Campers' Parlour, Richard.



"I would be ever so grateful if you could possibly recall how you found the goblins key and escaped from the dragon's dungeon!"

NEWS DESK

If you think you're something newsworthy, call 01-437 4343 and let us know

Prisoner party fails in power bid

PRISONER fans should be encouraged by the show of solidarity at the Chesterfield by-election last month.

Scotsmen after comrades rallied together at Chesterfield and requested their support for the Prisoner 1 and not a Number candidate, Chris Hill.

Chris, 18, of Heathrow, formed the party shortly after The Prisoner tv series had finished screening.

By the early hours of the morning of Friday, March 1, Chris had won 17 votes, beating the Rediffusion Sun Newspaper as a Comic candidate by five votes and the Official Actor candidate by one.

Chris, who will begin a physics degree next year, said he formed the party to promote an appreciation of the tv series.

"There was one episode called Free for All, about parliamentary elections, and I thought that standing in this by-election would be a useful way to bring people's attention to the point. The Prisoner was trying to make a point about government and society," Chris said.

In Free for All Number Six is elected as Number Two. The authorities instructed him to do his duties simply with their wishes.

After he was elected to

Science fiction fans plan Easter gathering

BRITAIN will be host for the first time in its science fiction history to the European Science Fiction Conference over the four-day Easter weekend.

British science fiction and fantasy fans annually hold a convention to discuss, buy and sell material related to their hobby.

This year the convention coincides with the European conference, which is held every two years. Organisers expect more than 1,500 people to attend the various conference lectures and seminars that will be held at the Brighton Metropolitan Hotel.

There will be four major genres of human representing the science fiction and fantasy writers fraternity. They will come from the US, UK, France and Czechoslovakia.

The American author, Roger Zelazny, is best known for five novels in the Amber Series as well as Lord of Light.

Christopher Priest is one of the UK's rising leading authors, best known for his books The Space Machine, The Invented World and The Sittmanium. The French writer is Pierre Barillet, whose work is popular both in Europe and in the US. Works of the Czechoslovakian writer, Josef Nesvadba, include a collection of short stories called The Abominable Sacrament.

A spokesman for the conference said that in addition to the genre of the most 150 writers, publishers, agents and illustrators would attend.

A dealers room would be

set up where new and second-hand books, magazines, comics and other SF paraphernalia could be bought and sold. And a video room would show feature and television films.

"There will be two parallel programmes running," the spokesman said. "It will include talks, lectures, discussions, videos and all exhibitions on all facets of European and British science fiction."

Entrance to the convention is free if the ticket is bought before 10am on 11 at the door. The fee includes a hefty 96-page program outlining all the events and listing prominent guests.

Doors at the Brighton Metropolitan Hotel open to SF fans on Friday April 20 and close on Monday April 23.



Chris Hill



Josef Nesvadba



Roger Zelazny

Cabling adventures?

THE BRITISH Telecom sponsored Comstar project will incorporate adventure, arcade and educational software in its programming service.

The Comstar project was developed by Cable Incentive Services, a division of British Telecom, as a value-added service for cable television companies.

Comstar allows the cable television companies the chance to add to their programming service by offering cablecasting households the opportunity to use a continuously updated library of

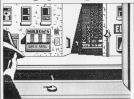
adventure, educational and arcade games.

Microsoft 800, the computer-oriented videodata and tele-software service, will be the supplier for the Comstar project.

A spokesman for Microsoft said that although it was early days for the project it was expected to get off the ground in late spring.

For £200 a month a cable subscriber will receive a Spectrum 800, a modem, a joystick and a choice of 20 games, which British Telecom, the cable company, will update

Mugsy brings 'comic' relief to screen



MUGSY, an adventure-drama based on a gangster, is the latest offering from Melbourne House.

The player assumes the role of Mugsy, the godfather of a gang of Chicago thieves and hitmen.

The gang is the toughest in Chicago and as Mugsy you have to control its members, organize hitmen, weapons and protection rackets.

You must continually keep one eye over your shoulder because hitmen from other gangs are out to get you. One slipup could mean a short cut and perhaps the end of

Melbourne House describes Mugsy as an interactive computer comic strip. Commands are given in a Caper-style slang and the character replies are presented on the screen inside a bulletin.

Melbourne House hopes that Mugsy will be on sale some time this month. It was written by The Hobbes creator, Phillip Mitchell, Alfred Milgrom, and Clive Barrett.

Initially Mugsy will be available to the Spectrum, and then the Commodore 64. It will sell for \$6.95.

Computer prize offered

THE FIRST four people to solve The Winds of Magsy, from Carroll Software, will win a Flair 64K computer.

Carroll launched the competition, which also offers a Philips colour TV to each of the 20 runners-up, with the release of Magsy on March

17. The adventure concludes a series of three games, which is set in a mythical third continent. It was produced by Yukawa Design and Black Crystal.

Magsy is priced at £12.50, which includes the two manuals and the program.

Players can enter the competition by filling in the form contained in the small manual and sending it to Carroll. The company then post back the player's code number.

"To win a computer someone has to destroy Magsy for all time," a spokesman said.

Marvel characters enter new age

THE MARVEL series for adventure fans from the LEB International Trade Show held at the Heathrow Press Hotel, in February was the release next month of The Hulk from Adventure International.

The company's founder, Scott Adams, flew from Florida, in the US, to attend the last two days of the show.

Publishing the latest launchings of AI software based on the Marvel comic strip characters, were Spiderman and The Hulk, at various show stands.

The Hulk will be launched on May 1 simultaneously in the US, Canada, Australia, France, Germany and the UK. Other Marvel characters to be seen found on computer software packages include Spiderman, the Fantastic Four and Captain America.

Other companies planning new releases are Beyond, with Lords of Midnight for the Spectrum 486.

Starnet goes on trial

STARNET, the first computer moderated play-by-mail game on Prosal, has started with about 25 players on its trial run.

Starnet writer, Mike Singleton, said the game, now being played full-time, is designed for up to 1,000 players.

"Players will use a special response page especially designed for Starnet. Then we will process the responses into our computer system."

It had attracted 23 for its

one-week trial period in early March and members are expected soon to reach 700.

Players must belong to Microsoft and need a medium plus dedicated software to gain access to the parent system, Prosal.

Starnet players put their orders into Prosal and use it for accessing information about the state of the galaxy, the consequences of their moves and those of other players.

A Starnet team is 30 pieces;

Team needs manager

ON A new simulation for the Commodore 64 you play the manager of a football club.

It is your job to organise the best possible team, make a money into the transfer market, sign an another club and send the team out to do

their best each Saturday.

For successful clubs the rewards are a place in the league championship, the FA Cup and the European Cup.

But you'll also have to risk relegation or dismantle a big-money side.

VCR to be won

INCENTIVE Software Ltd have launched a competition to find Britain's best adventure.

The prize will be a £40 video camera recorder.

The object of the competition is to complete a sentence, which is divided into three

parts. A section of the sentence revealed successively in each part of the Kit Trip.

The first person to complete the sentence, which is possible only if 100% is scored in each game, wins the VCR.

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How a hobbit's mind works

OWNERS OF *The Hobbit* or the excellent *Valhalla* will face what a difference even rudimentary artificial intelligence routines make to an adventure.

These two games score to be a generation beyond the majority of adventures and, judging by their popularity, represent the direction that adventures are likely to go in the near future.

They are third because of their first-class graphics and of the degree of non-random variation which is built into the games.

The Hobbit just would not be the same if being old Thorin did not sit down occasionally to grum about gold or if Gandalf did not take it into his head to wander off at crucial moments.

However the behaviour of these characters at times seems capricious. They may love to you and die what you want or ignore you. Just like real people, of course, but nevertheless it often seems random.

Personae

In *Valhalla*, on the other hand, though characters do wander in and out, they interact in a reasonably believable way.

Not only that but they do so without any intervention from the player. In fact you can play *Valhalla* without ever meeting your own character, you just sit back and let the other characters get on with it.

In both games you cannot solve the problems without help from the characters, but it is not just a question of finding the right pair of words to make them respond. You must behave properly, speak in forms in a suitable form, or persuade them to act. In *The Hobbit* much of this speech can be done in a language pretty close to English.

All of this involves artificial intelligence of one kind or another. Adventures have always had a close link with AI because much of the early development on mainframes were by psychologists and linguists trying to simulate human behaviour.

AI is mainly concerned with investigating the nature of human intelligence (and other behaviour) by discovering what would be involved in making a machine behave in a similar way.

There is no need to debate whether the resultant machines/programs are actually intelligent or not. All we need to believe is that the programs are something like some aspect of human intelligence.

For example, a great deal of academic work has been devoted to writing programs which play excellent chess. This is not because people wanted chess computers but because it was thought that getting a program to play chess well would show how a human being played the game.

It was assumed that chess was one of the

Noel Williams examines the advantages of artificial intelligence in adventure games

most complex of human intellectual activities, a great deal would be learned about human intelligence.

But life has been learned about human intelligence from chess programs, though a great deal has been learned about computers, the nature of chess, systems design and writing programs.

The result has been chess programs that are consistently as good as the best club players and worse which occasionally beat these masters.

Similar successes have been made with other abstract games. Programmers have examined the structure of the game, examined the human behaviour that goes with it (such as decision making and problem solving) and written programs that do the same job.

If you think about it for a little while you'll see that an adventure game can be designed in exactly the same way, but from a slightly different point of view.

Essentially, an adventure game is a simulation of certain kinds of human behaviour. It is a simulation which tries to create a more or less believable world which, though it may be surreal, contains many of the rules of normal human behaviour.



Adventures usually use English as the input and output language. They involve solving problems and making decisions, conflict and other kinds of interaction with creatures, and they may have creatures with their own personalities.

Most of the AI in adventures is to do with the use of language or the treatment of personality. The better the AI in such a game the clearer input and output should be to read English, the less random the output, the more creatures behave realistically, the more convincing they are to player's actions, the more they can act independently of the player and the more varied the game will be.

AI in games is thus an attempt to get an interesting balance between the total randomness of some sleepers-and-dragons-type adventures and the somewhat nature of some of the fixed-structured text adventures.

Events in the adventure should not be

purely random or fixed. They should depend in a logical and realistic way on the actions of the player.

For there to be as close as possible to their real capabilities the program has to respond intelligently to complex input and the characters must behave intelligently.

How is this done? To answer this completely would take a book or two, but the broad outlines are simple. Let's take language first.

The language in an adventure is probably the most important aspect after the structure of the game. Players like programs with large vocabularies, sensitivity to different kinds of input and with imaginative and interesting output.

Even the programming point of view there are three broad problems. One is devising an input routine which can analyse English accurately and send control to appropriate routines. The second is storing a great deal of text and being able to access it quickly. And the third is being able to create output which is interestingly related to the input.

The second problem, that of storage and access, is not strictly speaking the concern of AI, but you'll find that on micro, almost every time a program comes along that involves AI in some form data compaction, memory-saving and storage methods become important considerations.

This is one reason why the Spectrum has been in the forefront of adventure development rather than, say, the BBC. It has more RAM available to the user so more text can be stored and more flexible processing routines can be created.

As mass storage becomes cheaper with Sinclair's microdrive and the reduction in disk drive prices there will probably be an increase in games like the famous *Zork* which use disk storage to compensate for lack of RAM. As these are produced there will be a corresponding increase in the flexibility of text routines and the AI built into them.

Flexible routines

In the next few months we will probably also see 16 bit machines within the price range of the average micro user, such as the recently announced Sinclair QL. As such machines will probably have at least 128K RAM as standard they will also cause an interesting series of developments in intelligent games.

For the present we are limited to 48K or less. The AI that goes into games is likely to remain somewhat primitive. The principles of much interesting AI are well understood but micros generally do not have the capacity to make them work implementing.

For example, strength is known about language for parsers (programs that decide the structure of an input sentence) to exist which can interpret about 85% of English sentences. No more the boring LOOK SWORDED on DRINK BOTTLE, but the system that does this at IBM uses over 7000 or more 16 bit macros are unlikely to match it. But the principles built into this system can be adapted to make much more flexible input routines available for micros.



For example normal text input consists of a verb plus a noun. The verb is an action the player wishes to carry out and the noun is the thing that he wants to act upon. HIT GOBLIN is an example.

There are a whole class of normal acts which it is very difficult to describe in this way, those in which some kind of instrument is used to carry out the action, such as HIT GOBLIN WITH ROCK. If you have a language system that recognizes with as meaning use the second object mentioned to act on the first object you have not only created a much more useful input system but you have extended the vocabulary of the program without adding any words to it.

Every noun is potentially two words rather than one — it means something which can be acted on and something that can be used to act on another noun. So HIT SWORDED WITH BOTTLE and HIT BOTTLE WITH SWORDED can have different results. By adding one more input rule to your program you have doubled the intelligence of the program.

There are a large number of such rules, some of which are more useful than others. In all cases a little word, such as with acts as a signal that what follows it is to be treated in a special way.

In a similar way one can make output routines which create sentences rather than simply printing literal strings. Instead of printing the same message every time the player discovers a new object (you find an X), control can be passed to Create Output routine which uses more complex rules of grammar to put together a different description.

Alternatively the routine can create its output in a way that depends on the current status of the player. For example if his lamp has just been lit it might say "You see about 20 brightly shining jewels, glimmering with different colored lights," but if the lamp was about to go out the same vocabulary could be used to say "A colored light glimmers about you."

For both text input and output the principle is:

- Discover a rule of grammar.
- Encode that rule as a routine.
- Flag all words which can be used by that rule.
- Write routines which are called by the flags and other program variables accordingly.

In other words a parser is a piece of program encoding some of the grammar of English in such a way that other program variables can be altered if that rule is used. The precise alteration of the variables will depend on the words which are used when that routine is called.

For example the rule 'with' means second verb normal — with means bottle has sword, implies that bottle and sword must have corresponding variables that signify breakability.

So to have meaningful but creative text we need to look-up tables of the relevant qualities of each of the possible nouns. If, for example, each noun has a code for how easy it is to break, another for how heavy it is to bear, another for how heavy it is, another for how bulky it is and another for whether it can be used as a container or not, a sentence such as "Drop the javel on the barrel and catch the beer in the vase, then pour the beer on the burning carpet" can be decoded in a sensible way.

Microprose

Of course this series of events could be found in one of the current generation of adventures, but if it was it would either be the only correct solution to the problem, or it would not work at all.

With some degree of intelligence in a program different solutions can be found for the same problem. For example, "Carry barrel on carpet and drop it" or "Block vase on javel then open barrel with sword and carry carpet to pool of beer" might all be possible solutions, and all could be decided by the same routine, not by a different routine for each command in each situation.

This shows how intelligence can also be given to characters in adventures. Just as the player is essentially a file consisting of a set of variables (either the objects he or she currently has or the current status of his strength, durability) so we can set up files or arrays which represent each character in the adventure.

Normally such characters are either a set of combat statistics or a sub-routine for a limited kind of behaviour.

Intelligent characters however have additional data modeling their personal tendencies. Having a personality of a particular kind does not usually mean that you always do the same thing, only that you tend to do that thing. So the personality of a character can be represented as a series of probabilities.

Let's set up a typical character, Orville the Orc. How gullible is he? He is likely to be duped 40% of the time. How greedy? Well, he is 85% likely to want the player's

treasure. How lazy? He is unlikely to move from his bed 95% of the time. How friendly? He is neutral to most people, is 30%. How clever? He can only solve 2% of The Habbit.

Now if a player comes along and tries to get past Orville he could offer him treasure and would probably have a 65% chance of success because of Orville's greed. But if he does this he would lose his treasure.

Instead he could offer the worthless brass dandelion and pretend it is The Fabled Ninth Treasury of Moria. There is only a 2% chance that Orville will wonder what is happening; then there is a 40% chance that he will be fooled by the offer; and finally the same 65% chance that he will accept it.

Obviously this is more risky than the first alternative, but if it fails no treasure has been lost.

The decisions for the player here are much more complex and interesting than in a straight-forward "Give me your gold or die" encounter. But we do not have to leave it there. Because we have a flexible language we can build conversation into the exchange.

Suppose that the adventure's vocabulary has a list of adjectives such as marvellous, fantastic, low, excellent, antique, given and battered. Each of these can be held in a table with a value representing its effect on gullibility and greed.

If the player says "This is a marvellous antique" then Orville's gullibility may go up by 10% a his greed by 5%. But if he says "Would you like this battered dandelion?" it might go down by the same amount.

Similarly for most characters greed would be an adjective indicating the highest possible value but over, not being too fond of them, regard it as a major insult, reducing friendliness by 30%.



You'll remember that Orville's friendliness was only 30% to start with, so if the player tries "Seeing as it's you the friend I'm prepared to part with this fantastic given artefact", though Orville's gullibility increases so does his rage.

By combining tables for languages with tables for objects and monsters, each table consisting of interactive variables, we can build up a complex set of interactions with an adventure plot.

Neil Williams is author of "Demos and wile games for the Spectrum" and "Intelligence games for the Spectrum", both published by McGraw-Hill UK. □

Scott Adams: the fun and games man

Carmel Anderson talks to the father of micro adventure games, Scott Adams

SCOTT ADAMS' romance with computers began at 17 in a high school math class.

Ahead of its time for the 1960s, his school invested in an IBM 602 and enrolled for its mathematics department and for Scott it was the beginning of a life-long romance. "The terminal virtually became mine," he remembers. "I fell in love with it and from then on I knew exactly what I wanted to do — work with computers."

His school days with computers were spent playing games on the IBM — thoughts and crosses and learning how to write games, unwittingly writing the code for things to come. Step two in building a multi-million dollar computer games empire for Scott was enrolling on a computer science degree at the Florida Institute of Technology, which he completed in 1976. By 1979 he had started Adventure International in the spare bedrooms of his Florida home.

After graduation, Scott went to work for Stenoburg-Carlson making computerized telephone calls. An exciting job for a computer games buff you might think, but there was nothing in his mind. At Stenoburg Scott got to play with mainframe computers in his spare time. It was here that he first played *Adventures by Creatures and Woods*.

He was so impressed he wanted his friends to see it, but they were not permitted to enter the Stenoburg offices. So Scott wrote an adventure for the TRS 80 Model I.

He called it *Adventureland* and it is believed to be the first adventure written for a microcomputer. "It took about a week to get something workable," Scott said, "and a year to get it to what it is today."

Adventureland received an enthusiastic reception. Several offers were made to buy the game.

This is

when the idea first struck that micro games could become a profitable sideline and Adventure International was conceived.

The company was originally called Saco Software. Through it Scott and his wife, Alexis, would sell programs on computer from a computer store in addition to producing *Adventureland* cassettes, which were sold to friends or by mail order. "Adventure International virtually started when I sold my first games," Scott said. "Saco lasted about four months and I think we made about \$85."

Scott bought his first computer, a Sphero in 1977. It was the second microcomputer ever produced. And it seems fitting that the owner of one of the oldest software manufacturing firms in the world became one of the first Sphero users. "It came in a kit and I had to assemble it," Scott said. "It had 4K memory and cost \$650, which I thought was a bargain because nothing else was available then."

What now is a multi-million-dollar business began at home with Scott and



Scott Adams — as friendly as ever with Spheros

Alexis producing small quantities of *Adventureland* cassettes. After a year dealers showed an interest in the business.

The first *Adventureland* cassettes were crudely packaged. They were bare of packaging and labels and were accompanied only by simple, typed instructions. The dealers wishing to sell the game urged Scott and Alexis to improve its presentation.

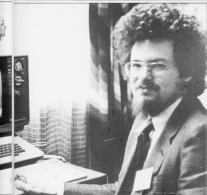
"They told us it was a great game and that they wanted to sell it, but said we needed packaging," Scott recalled. "We said, 'It's a great game, why do we need packaging?' The company replied: 'Thank us, you need packaging!'"

"Our first packages were plastic bags that were made to fit baby bottles. They were sold in the quantities we needed and were just the right size for the cassettes. We folded a business card over the top of the bag, stapled it together and sent it to the dealers. And it did improve the sales."

In the years between 1978 and the present, the success of Adventure International has meant six moves, one a year, into a variety of dwellings from the humble to the bizarre. The most original building was a prehistoric dome.

"It seemed like an interesting thing to do. State of the art technology to state of the art building," Scott said. The dome, which less than two years ago could





and the Hulk being just some taken in under the Adventure International umbrella

accommodate the entire company, now houses only the production facilities. The rest of the business is situated in 11,000 square feet of office space in a Florida residential area.

Alan Adams runs the business side of Adventure International. According to Scott she has had a tremendous say in the direction of the company. Her influence is apparent in games design, too, having written most of *Ninjabo Castle* and co-written *Mystery Fun House*.

Scott still writes most of the Adventure International games. His second and third adventures were written in 1979. One of the 15 under his name Scott says that his favorite is usually the one he has just finished writing.

Writing games

"I enjoy both arcade and adventure games," he said. "Normally I don't play other people's adventures. I don't want to subconsciously steal their ideas. I used to play *Space Invaders* and *Pacman* when they first came out. I thought they'd both be winners. I used to like playing football so I guess it follows on from that. I seem to have the same taste as the general public."

While in England for the LET Show, held at the Heathrow Plaza Hotel in February, Scott had a chance to try some of the micros popular in Britain. They

included the Spectrum 48K. "Impressed by the price", the Commodore, "took to me" and a short session on the BBC.

When writing an adventure Scott first decides on a theme within a certain fiction or fantasy context, such as magic, ghost towns, desert or outer space. He then chooses which elements go into the adventure's environment and designs puzzles "to make it interesting".

Contradicting the advice given by UK experts on building adventure writers, Scott doesn't draw a map of his fantasy land from which to work. He keeps all his ideas in his head until he writes them on the micro.

Scott has developed an aid to game writing known as an adventure creator language which he "uses for writing games the same way other people use Basic". It's not for sale.

As a game is being written and on completion play-testers try it out. The adventure then is either revised or approved. Adventure International uses the same system of evaluation for its freelance titles submitted.

A software review board picks the games. Their criteria are originality and suitability of the product for a mass market. "We look for games that are leading rather than following," Scott said.

He sees the future of Adventure International set firmly but not solely in games production. The company advertises 150 products in its catalogue. The programs range in price from £7.95, for an adventure, to \$795 for an IBM integrated business package (available in the US).

His next project is the release of the Marvel comic series on software. The first game to hit the shops will be *The Hulk*, which will be launched simultaneously, on May 1, in the US, Canada, Australia, West Germany and the UK.

Adventure International have been given the exclusive rights for 15 years to all the Marvel characters and Scott obviously is excited about it. "It's perfect timing," he said. "Marvel comics have been known all over the world for years and so to tie in with the life of an adventure program."

Video disks

The company also produces a strategy game for beginners called *War* and a series of three run-playing games called *Maze* and *Magic*.

The popular adventure series has found its way into the classrooms as well as the lounge. *Prince Adventure* has been used in elementary schools to teach children logic. *Secret Mission* was given to a management group of college students to solve. They had to buy resources such as computer time and hire consultants to work through the problems.

Scott believes that a player should expect to get about one to three months' worth of entertainment out of a game. "The minimum time someone should solve a game is one weekend," he said. "It's unusual but it does happen."

"The rule of thumb we use for price fixing is to compare a game to an equivalent form of entertainment, such as a film. Someone should expect to get a fair bit of playing out of a game for the price."

Scott thinks the next step in micro gaming could be towards video disks, but technology again is the restraining factor. "It won't take off until they can be produced cheaply." As with other aspects of micro computer gaming, imagination and technology are the only limits. □



New role for micros

Greg Hinton describes how micro computers can add realism to role-playing games

AS READERS of this are probably aware, a role-playing adventure game is essentially interactive.

It relies on the way in which each player responds to action by the other players. As a direct result, a high degree of realism is achieved in both the atmosphere of the game and the detail of play.

There are many different types of game, and in each case the action can be of the hack-and-slash or subtle-tiddler variety or, more commonly, a mixture of the two.

The appeal of the game probably lies in the blend of a realistic amount of randomness and a set of defined rules. But it is the essential concept of a moderator or dungeon master, who acts as a referee, which undoubtedly gives the game its appeal.

Then, of course, there is the art of table-top game aids, such as lead figures, floor plans, scorebooks and copies of spells, which will fire a player's imagination.

With all this in mind, what does it do to try to use a micro in the playing of RPG's?

Impartial mind

Present day home computers are now powerful enough, either in speed or capacity, to carry out the complex adventures with sufficient realism. The result tends to be at best a game which barely captures the imagination and at worst a repetitive, unrealistic dialogue between one player and a machine, carried on as kindergarten English.

This serves only to frustrate a player used to a more realistic game. The biggest drawback here is the loss of the dungeon master who provides an inventive but impartial human mind as moderator of the game.

Basically, the micro can either be used as the complete adventure module in itself or as a game aid such as automatic dice or an electronic scorebook. But to use the micro this way is a waste of its potential.

The solution is to combine the best features of table-top RPGing, their realism and ability, to tax the players' imaginations, and the merits of micro's speed, accuracy and ability to generate random responses.

As a first step, forget the bells, such as sounds and fancy graphics. Let us examine whether a straight text-based system can be designed for use as a game aid rather than a game substitute.

As a vehicle for our thinking, we will consider a medieval Lord of the Rings game, although the principles I will set out

are just as valid for space, gnostics or other adventure games.

There are several distinct stages in any RPG, which can be summarised as follows:

- Creating the character, choosing names, deciding on their various attributes (strength, intelligence), spells, initial value of cash-on-hand, purchase of armour, weapons and equipment.

- Gathering together with other players at an agreed starting point after absorbing background information and various rumours that will provide an incentive to start the adventure.

- Journeying from the start to a defined background or region (suggested by the pointers and clues) where the specified action is to unfold, be it searching for treasure, locating a hostage or killing an evil being.

- The specified action on the defined background; some see this as the main part of the game, which is merely an episode in the larger and more continuous game of life.

- The return, following victory or defeat, which may be another complete adventure in itself.

- Once back at home, the business of stock-taking takes place, including sharing out the treasure, disposing of goods (found or made), paying-off hired assistants, repairing a damaged kit, curing wounds, recovering spells — the list is virtually endless.

Of course many experienced DM's will blend the final point with the first two or skillfully take the job never done, and point you are in the middle of another quest before you can get your breath back from the last one.

In this respect, as in many others, the human moderator or DM is an essential factor in achieving an absorbing and realistic game.

At this point, the task seems daunting, but don't despair. The micro-computer has a part to play. The secret is to look for jobs which can be isolated and given to it so that it saves its keep without reducing the spontaneous and interactive aspects of the game.

Character generation

Here are some suggestions for independent jobs that can be parcelled out at each stage of the game.

The generation of characters exploits the micro's best attributes. This produces personalities for an adventure which have at random. It automatically rejects any weak characters which fall short of a minimum criterion of usefulness, grades the rest (higher, off, short) and assigns bonus attributes such as extra protection from being hit due to high dexterity.

The micro can easily save the words which results in a matrix, or array and it avoids a great deal of the tedium of this preparatory job without losing any of the intense interest in the outcome of each

```

10 LET d = INT(RND*4)
20 IF d = 0 THEN PRINT "In the marketplace?"
30 IF d = 1 THEN PRINT "At the Inn of the Angel's Face?"
40 IF d = 2 THEN PRINT "While loitering about near the docks?"
50 IF d = 3 THEN PRINT "During the morning?"
60 LET d = INT(RND*4)
70 IF d = 0 THEN PRINT "you pick up a scrap of paper which
someone has dropped, and learn that"
80 IF d = 1 THEN PRINT "you overhear two strange men talking. It
seems that"
90 IF d = 2 THEN PRINT "you talk to an old blind beggar. He tells
you that"
100 IF d = 3 THEN PRINT "you meet an old friend. During the
conversation he mentions that"
110 LET d = INT(RND*4)
120 IF d = 0 THEN PRINT "a strange column of smoke was seen over
the Eastern Woods three days ago?"
130 IF d = 1 THEN PRINT "there is a huge troll at the Western bridge.
You must pacify it with a gift of raw meat"
140 IF d = 2 THEN PRINT "Odin Forkbeard has found a big blue gem-
stone, which has strange magic powers"
150 IF d = 3 THEN PRINT "there is a legend that a huge treasure lies
"under the Serpent's Rock" — but no-one knows where that is!"
    
```

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- The need to sleep and eat at intervals.
- The need to eat and drink at intervals (and the penalty in hit points damage if you fail to do so).
- The danger of meeting enemies, obviously greater in some areas of the map than others, but also subject to a certain amount of random chance.

Common items

In any game, the moderator, or DM finds certain parts harder than others to manage. Distributing and bookkeeping after the adventure is one of them. I need to avoid this stage of the game.

In earlier stages, during a melee, for instance, everyone in the party generally working together towards a common aim, such as the defeat of the enemy who was attacking. The actions may have been complex, but at least it had a common theme.

Or, for example, when on a journey the party generally moved as a group — camping, eating, sleeping, exploring and problem-solving all tended to be organised as group activities. In these situations, the DM generally had only one line of thought to pursue, and the game proceeded smoothly.

However, towards the end of a quest the actions can become quite fragmented. For instance, on returning to the base camp a party of five adventurers could find that the cleric was wounded and had

to go to his monastery to ask a cure; the magician had to go off secretly to collect some spells, and collect some ingredients for his magic; the thief had to report to his lieutenant. He also had a big heavy bag of treasure which he was carrying on behalf of the whole party.

The adventurers could also find the fighter staggering under the weight of a pile of weapons and armour plundered from dead enemies. It all has to be converted into money because the others want to share out the profits, or find the dwarf cross and lived. He thought that the thief was going to cheat them all. All he wants is to feed his wife, get his share of the money and go to an inn for a rest and a drink.

In this sort of situation the poor DM faces three distinct problems:

- To make sure that two of the players do not get bored while he is dealing with the fifth player in some lengthy discussion.
- To make sure that the other four players hear nothing at all of what is said to that fifth player at a time when he/she is supposedly acting solo. This game is particularly important: the realism of the game is increased a hundred-fold if the DM can get one player to report back to the others the results of some solo activity. This forces them to do some real acting.
- Making it difficult to do properly, with rewards and treasure being doled out, experience being laid out and players that

for promotion suitably named.

This last point again is easily mis-managed. It is quite unrealistic for the DM to say, "Ah yes, you third-level thief, you are now fourth level." Much better to have the thief tested by his guildmaster and found suitable for some rewards (such as a new set of thieves' tools, a resolute course in climbing sheer walls at the guild's expense).

As a result the guildmaster might find the thief to be an accomplished conjurer and hand him a diploma with a list of new attributes.

At times like this every DM must wish for an assistant so that solo-activity situations can be handled in parallel. Well, it is not too difficult to provide a solution.

I experimented with various approaches, and finally put together a simple program called Return to Thengor, which has been used in games to cater for many of the above possibilities.

Interactive game

The program provides a series of one-player interactive adventures in Thengor, a medieval town which is used as an operations base when adventuring.

Any readers interested in further information about this program should write to the author at: Sunninghill, Middle St, Killybeg, Enniskerry, Warrickshire, including a large SAE. □

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I WAS very sceptical when Pinball thudded through my letters on the principle that in one word you write a good simulation of a pinball machine, an opinion based on various experience of video pool, etc, so I loaded it in expecting the worst.

The tape loaded with no fuss, even with the coin control on my cassette player set low, which was quite impressive as this is usually enough to bring most software to it's knees.

After displaying the usual fancy opening page which listed the rest of the programmes, the program asks you which colour screen you wish to play on.

Take care this choice lightly! It is an irrevocable decision, unless you want to re-load the tape.

Out of a choice of black, green and buff I found that buff was the best eye-strain-free. There comes some more titles, a little burst of unrecognisable music and the game proper emerges as a wonderful pinball machine simulation.

Any pinball simulation has to make a choice between sticking to the playing area (with a real pinball machine, and having a game that only occupies the middle third of the screen, or filling the screen with playing area and paying that the general public will accept squareish pinball machines.

Microdeal have opted for the latter course. The overall size is slightly under square, and the actual playing area is just shaped.

The ball itself moves in a fairly accurate manner, although I found that when moving really fast, the Dragon cannot plot every position that the ball passes through, and it sometimes disappears from view for a short time although not affecting

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MICRODEAL

You are given five balls for each game.

The representation of the obstacles is so-so, but they do throw the ball off in a fairly good simulation. The movement of the ball is quite good, and the whole effect is not too unlike the real thing.

The skill level, which can be changed at the beginning of every game, where different patterns of obstacles has as far as I could tell this was the only change to the game.

Hippers are provided as usual sets of play and are activated by pressing the T key or the fire button on the joystick.

Here we arrive at the only real gripe I have with the whole program. The one key activates both flippers, whereas, as any pinball wizard will tell you independent control of the flippers is essential.

The same key is also used to shoot the ball, making it a real one finger game.

I can't imagine that the difficulties in using these separate keys were insurmountable when the program was written. As it is, the game sometimes leaves you with not a lot to do.

In general, this game of look of machine code is probably the nearest anyone is going to get to an accurate simulation, within the confines of the 512 screen size of the computer.

The game is fairly fast when playing, and I would give Microdeal eight out of 10 for attempting what is, after all, a fairly difficult thing to simulate.

It makes a refreshing change from simulating aliens or snakes advertising, anyway.

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 Spectrum £8K Price £5.00
 Format Cassette Tapes
 Microdeal, 41 Truro Rd,
 St Austell, Cornwall

THIS IS a game with an amusing and intriguing title . . . unfortunately that's about all it has going for it.

Wilf (the short) paired points for easy and reliable loading, but promptly lost them for demanding that I "stop the tape" just way through so it could give me some badly spaced instructions, largely duplicating those on the photocopied sheet which accompanied the tape.

The colourful insect heads "High resolution action graphics", and indeed the potential with figures of Wilf and Elf move smoothly, if extraordinarily slowly, around the screen.

The map though, is built out of low-res block capture either Europe and the empty

stronghold or all continents except Europe.

The first problem is working out which of the mysterious blobs is Europe. Next you manoeuvre your man (Pit), in March, using the cursor keys, to position flags marking your territorial gains, while Wilf, controlled by the computer, does the same.

Contact with the enemy causes loss of ammunition which must be replenished at the home centre, and random events can affect the arena levels too.

Moving onto a green area allows you to call over the sea in a jolly little boat. Apparently sea-battles are possible, but despite playing for several hours none of Wilf's craft attacked me.

The idea is intriguing and the execution is dismal. As well as the graphical shortcomings, control of movement is slow and awkward, you can sail the ship to a landlocked lake, the message sometimes disappear before they can be read and have no relation to the state of play (these lakes can attack you while you are sight outside your own vessel, for example).

The game is boring in the extreme. The computer plays a copy game and despite covering all continents with blue flags and even somehow turning Wilf blue as well I couldn't beat it.

The option to play another human would considerably reduce the interest, but even then I doubt this game would hold many adventures' attention for long.

100

Off to a good start

Adventure Mountains of Air
 Micro Spectrum £8K Price £5.00
 Format Cassette Tapes
 Sappell Interactive Software Ltd, 54 London St, Reading
 WHAT WOULD you do with a crimson ball? My bet is that it's a red herring, but then maybe the golden woods a better idea?

I'm stuck in the middle of the Mountains of Air. I'm desperate to get through to

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because on the other side are two more games in the trilogy allowing me to step the vicious odds from over the mountains by gently but firmly disposing of King Vran Vrandel, leader of the cult of Mad Monks, and the high priestess Delobia.

For a score of 86%, I've been in 48 different places, found 100 percent helpful objects (and another 10 percent which don't seem quite as helpful), fought villagers and arcs (and nearly won but I just can't find the door to the other side).

This is a standard role adventure. It is not the most difficult I've played but it is very well designed. Expert adventurers will probably find it a little too easy, but I've found it has exactly the right blend of tactical and frustration.

The further you go the harder it gets and it took me about 12 hours play to get to half way through.

None of the puzzles have a nice originality, the text is quite humorous and, though there is none of the artificial intelligence of *Valthalla* or *The Hidden* there are some clever little conversation routines.

Ultimately, for the puzzle-type adventure there is also a combat option allowing you to fight almost every creature you meet. This is not, however, a very good idea.

The combat system is heavily weighted against the player and runs up energy very rapidly. And even if you win you'll probably find that you've killed the only solution to the next problem.

The game is well designed with no bugs that I could discover. Help messages generally die, if you think about them long enough, and there are several nice touches which make play just that bit more interesting, such as the use defined graphics identifying some objects, the number of different error messages, the cleverness of some clues and the SAVE function.

All in all an excellent introduction for novice adventurers, a challenge for those with some experience, and a pleasant couple of evenings fun the next.

So get started. You could win a video cassette recorder if you complete the trilogy. **85**

Swapping dragons for Germans

Adventure Wings of War: Nine Dragons II Price 7.95

Format Cassette **Supplier** Salamander Software, 17 Norfolk Rd, Brighton, Sussex.

IF YOU'RE fed up with staggering around dungeons, battling with mythical creatures and playing endless adventures that all seem like a certain large cave game, then this is just what you need.

Written by the author of *Franklin's Tomb*, *Wings of War* is a text adventure in which you play the role of Lt Roger Wilson, parachuted into occupied France.

The aim of the game is to penetrate a German occupied chateau with the purpose of finding some blueprints and a prototype bomb, then you have to make your escape.

The first thing you notice is the neat screen layout. I don't know if this is typical of all Salamander in general or just this game, but it wouldn't hurt a lot of games if they took a tip from this. You get five columns/80 rows, all marked with their purposes: location, obvious state, inventory, status and communication — no need to type in an event book.

After a couple of false starts I eventually got into the chateau, but not before I'd spent ages trying to lay my hands on a pass because no pass no entry, so this was essential. Once inside I found a bewildering array (see two paragraphs) of obvious glass boxes, frog, scrap aluminium, candles. I wasn't go on, but suffice to say that getting the glass and the bomb isn't easy, and will keep most games entertained for some time.

While a novice adventurer will be able to tackle this, an experienced adventurer will find much to amuse him in the chateau. Devilish traps, devious coil herrings and the



atmospheric background make the game clip along at a really good pace, making it a pleasure to play.

At the end — assuming you get that far — there is the promise of a sequel, which is appealing. I enjoyed this game, the combination of good screen layout, witty colloquial messages and action enough to satisfy the mad jaded of adventure's palate, will keep most gamers entertained for some time.

If you fancy a dangerous undercover mission in enemy occupied territory, try this game, and if you don't then buy it anyway. **85**

A maze to whet your appetite

Adventure Fishy Business

Micro Dragon 32, BBC B, and Cbc-1 Price £9.95

Format Cassette **Supplier** Salamander Software, 17 Norfolk Rd, Brighton.

FISHY Business is the third of a trilogy of adventures, the other two being *Franklin's Tomb* and *Lost in Space*, and all three feature Dan Diamond, who is a Salamander equivalent of Humphrey Bogart.

The program is self-running display loaded machine code. Salamander saves you overhead on their display leader page, unlike for example *Murderball*, whose opening pages would die justice to a *Buffy* *Review*.

This is quite a long program, all of 306, of machine code. I didn't know you could get that much into a *Dragon 32*, but then Salamander never did flinch from the impossible.

After the opening page the text adventure unfolds on a formatted screen. What this means is that the screen is split into three independent sections. The top left section gives an account of what you



can see. The top right section gives a list of what you are carrying. The bottom five lines are used for input and computer response. This is quite a brilliant idea. It saves you typing LOOK and INVENTORY all the time.

The input is noun and verb, and also has a game verb facility, which saves you having to type in the first 30 commands which you die.

As for the game, you wake up having just crashed your spacecraft on a desert island. The object is to find out who has set you free, why, and then solve the problem. The first two objectives are easy. The third I haven't lived

through to manage yet.

A word of warning; this game contains the mouse, evens, most infuriating three-D underwater maze I have ever been lost in. What makes it worse is that there is no HELP facility. You can swim round and round for ever and when you resurface you are in the same place. There is a way out, but it is difficult to find. Obviously designed by a sailor, this is not for the faint hearted.

The rest of the game is not outstandingly spectacular, but it is certainly worth playing. There is a preoccupation for coil herrings and blue lippers, the meaning of which only becomes obvious towards the end.

There are a fair few useless objects, too. Since you are only allowed to carry six objects at a time, you have to plan what you carry well. There are some passages, magic words, and an awful lot of layout to die.

As text adventures go, this one is quite good. It has some real bits and some dead bits, and Humphrey Bogart would have lived every minute. **85**

Backing down a one-way street

Adventure Urban Upriser
Atari Spectrum 49K Price
 £6.50 **Format** Cassette

Supplier Richard Mayhew
 Software, John House, 21-25
 Elmfield Lane, Chippingham,
 N. ARTHURTON is the sort of
 town where there is only one
 road in, and it's a one way
 street.

Ignoring this potent metaphor
 trap you have stumbled into
 the unpleasant town of
 Northlope, from which you
 find it difficult to leave.
 So at 8 am, when the streets
 are deserted you decide to
 make a break and escape.

This third generation
 adventure game with pretty
 graphics is well constructed
 and concise. Obviously a lot
 of thought has gone into the
 planning stage. The streets in
 Northlope are given
 important names such as
 Anticipation Road.

The game is easy to map on
 squared paper since you leave
 the house, but do not let this
 fool you into thinking that
 the adventure is easy. Far
 from it, I have yet to escape
 from Northlope although I
 know how I am going to do
 it.

The game has several quirks,
 one of the most interesting of
 which is that the time given by
 the program does not appear
 to follow the standard clock
 system as three successive days
 of the speaking clock give,
 there is a variable phrase
 around the times of 1:45,
 4:42 and 1:04 respectively. I
 found this every time I played
 the game.

One of the more con-
 ventional points of the game is
 the graphic representation of
 the location you are at. Every
 location is illustrated even if
 some of the drawings are com-

plexing and the borders change
 colour to match the picture.
 These remain in the graphic
 window at the top of the
 screen for the duration of
 your stay.

If you presuppose that the
 game was written in machine
 code it carries then the
 reaction times are slow and
 the look routine is tedious
 at best.

The program, however,
 does allow you to enter up to
 30 characters for your
 command. Commands can be
 stringed by the use of the
 continuation and but not &

Most of the commands can
 be supplied to one letter and
 an object often does not have
 to be specified in the take
 command. The vocabulary
 appears to be limited, even
 Get is not recognised. Take
 must be used.

I recommend Urban



Upriser with reservation.
 The house can not be approached
 by some people and the
 scenario is not pleasant.

Now I must return to the
 one street, past my friend
 Sandra reminds this is a cheat
 and try to find a way out of
 the police station without
 going to the hospital. **BT**

Pool from all angles

Simulation Eight Ball Where
Dragon 32 Price Of Format
Cassette Supplier Microdeal,
 41 Droon Rd, St Austell,
 Cornwall.

THIS is an attempt to
 reproduce pool, a game
 which is gaining popularity in
 this country.

It comes from Amicus
 Software, the people behind
 Pitfall.

Eight Ball, in my opinion,
 is a great improvement on
 Pitfall. The pool simulation
 is an excellent game that is well
 written and should make a
 good part of any owner's
 collection.

The game starts easy, with
 the odd, low-scoring table, to
 give you the chance of
 colours black, ball or green.
 As is very often the case, black
 is a good colour here as
 definition is low in the other
 modes. Full marks to Microdeal
 though, as the next
 feature on this game lets you
 reconfigure the colour, a
 feature I have not found on
 any of their other games,
 most of which simply
 perform a valid reset on

depression of the reset
 button.

The game begins with player
 one placing the ball in the
 eight-point square of the table
 to break. Having positioned
 the ball he or she must then
 select angle, spin and force.

The entire game is played
 with the joystick, you select
 the angle by moving a cue
 around the outside of the cueball
 until it is in the correct
 position.

The button is pressed and
 you position a spot on a
 larger ball at the top of the
 screen to determine the spin.
 The player then presses and
 holds the joystick button for
 a length of time proportional
 to the force he wishes to
 apply to the ball (from cue to
 foot).

Although the movement



is somewhat complicated, it is
 far easier to master and offers
 a smooth, flowing game.

The program is easy to learn
 faults. There is no score, just
 a winner and a loser. There is
 no graphics reveal of the pot
 order and the backspin
 appears to have a variable
 effect.

The balls move fast,
 smoothly and correctly. This
 is no mean feat when the
 maths involved is considered.
 First, the angles from the
 cueball have to be calculated
 using the second law of
 reflection. Second, the balls
 must transfer velocity to each
 other in elastic collision.
 Third, spin must be taken into
 account and must be trans-
 ferred from ball to ball. All
 the maths must be done using
 addition, subtraction and
 multiplication of integers
 between 0 and 65536.

The sound is adequate if
 not particularly inspiring, but
 the feeling of satisfaction
 when you swing back into the
 perfect position for the eight
 ball is very gratifying.

To fans of pool and video
 pool I recommend this game
 wholeheartedly. To anyone
 else I would suggest you try it
 at your local computer shop
 to see if it is your type of
 game. You might find that it is
 just what you have been
 looking for. **BT**

Light cast on Dark secret

Adventure The Pen and the
Dark Where BBC Disk,
Spectrum 49K Price 16.95
Format Cassette **Supplier**
 Microdeal, 41 Droon Lane,
 Chubberton, Devon.

"YOU"VE read the book —
 now play the game!"

Like The Hobbit before it,
 this game is closely based on a
 previously written tale.

The tale is science-fiction,
 which is included in the
 booklet that accompanies the
 cassette. The story is The Pen
 and the Dark by Colin Kapp.
 It is one of a series featuring
 the Northlander Engineers.

The game instructions
 advise the player to read the
 first few pages of the story
 which sets the scene and
 reveals the object of the
 adventure. The remainder of
 the plot should only be read
 when the player is stuck.

The player assumes the
 identity of Eric Van Noyce,
 head of a team known as the
 Northlander Engineers.

You are not the lack of
 solving the mystery surround-
 ing the appearance on the
 planet. Price of a strange De



◀ Dark hole phenomenon known as the Dark.

All previous attempts to destroy the Dark have been foisted by the Pys, the surrounding mist, Diving shades that dull the mind and body of all who approach.

As you would imagine, the Underdark Engineers find a very unorthodox solution to the corpse, which is why the same has been supplied with the game as a hint to help I doubt if anyone would arrive at the correct solution.

As the instructions point out, however, knowing the solution is only part of the problem. You must find the component required and faithfully reconstruct the machine, which in itself has many problems.

The game is coloured-text only and uses the GEM DRUM text format of commands.

Overall the text has a nice feel to it probably because it has been lifted from the book. It contains many amusing replies, such as: "To carry more you would need a supermanlike trolley complete with railbed motor."

To ensure that the player follows in the footsteps of the story the program will only permit certain objects to be obtained when the correct sequence of the storyline is followed. This means that unless you SAVE the game state you cannot take short-cuts when you replay the game at a later date.

I enjoyed playing this, an unusual adventure, which has some nice touches. It should be said, however, that a quick glance at the program, which is written in Basic, reveals some very unsophisticated programming. This probably accounts for the limited number of locations contained within. A short game which, while it's fun, does not deserve its high price tag. **NR**

Joy of breaking a M.U.L.E. in

Adventure M.U.L.E. Micro Atari Price £79.95 Format Atari only Supplier Electronic Arts, 2751 Campus Drive, Irvine, California, USA. ZIP ... IBM ... Int-2-range ... App# ... OS, Cap#, we've cleared this sector of alien men who shall we do about their headquarter planet?"

Who, we develop it, of course.

Mule, according to the manual, is a game of exploration and resource development on another planet.

Electronic Arts is a relatively young company. They are among my favourite producers of software.

Not only are the games excellent, but they lavish care and attention on the smallest detail of their packaging and Mule is typical, the disk coming in a colourful sleeve.

The manual, too, is beautifully produced and takes the player gently through all the rules and regulations of the game.

You choose a character, there are eight to choose from, among them the Sphered, the Leggin and my favourite, the Blomard. This is Mule's handiapping system — the Flapper, for instance, gets a lot more money, and a big move time, and is a good choice for beginners, while the more experienced Mule can try the Humardist.

Having chosen a character the player is treated to a screen containing the status summary of everybody participating, with the characters marching on to the accompaniment of some of the

catchiest music heard on an Atari.

They take their place in the rank order prevailing at the time, and the summary shows the amount of money, land and goods owned by each character.

Land? That's right — after the Summary screen, you'll see the spaceship dropping you off, and then a large square starts moving from left to right over the playing area.

This is a plan view of a part of the planet, with a river running from top to bottom of the screen, and a few mountain ranges scattered about. When the square is over the plot of land you want to start developing, press the button on your joystick, and that plot becomes yours. Of course other players may want it too, so be quick. The plots are highlighted in the colour of the player's owning them.

Improving tactical skills

Wargame War 70 Allow Spectrum 48K Price £8.95 Format Cassette Supplier Class Computer Simulations Ltd, 24 Langens Way, London.

MR MUG want an introduction to computer wargaming here it is. War 70 is not a game against the computer but against another player.

That is both its strength and its weakness. It is a good history because it means no complex logic is needed to control the computer's decisions, moves and strategy, thus leaving a fair amount of memory free, which other games have to use.

Again, this is the fact that you do not really need a computer to play. Much better games of the same kind can be played between two players using conventional boardgame or figure game rules.

However, I would recommend this game to anyone wanting to learn the basics of wargaming, with or without a micro computer. It contains both a strategic campaign game and a tactical battlefield game.

A great deal of the game has had to be formalised to fit it into the available space (all armies are initially the same size and composition, most



units cannot cross hills, initial formations in battle are arbitrary and so on), but even so it gives a first-class flavour of both the nature of campaign and battle games.

You control up to two armies each, each army being a maximum of 70 men. These groups are matched across a stylised geographical map showing the sites of the two opposing countries and the routes between them.

Each turn you may reorganise groups or move up to four groups. Actually you can move one group four times if you wish, which is a peculiar quirk of the program because it allows a 'forced march' of extraordinary proportions. When one of your

groups contacts an opposing group, a battle results and display is transferred to the tactical map.

The tactical map shows a random arrangement of trees, hills and buildings, together with the units of the opposing armies. Commands are given to each army alternately a unit at a time, with all the standard commands allowed.

One feature I particularly liked was that you could give a unit orders it could act on in successive moves, or you could change the orders each move. This allows other realistic wargames in the Wargames Research Group style, or more free-flowing battles of the 'be shot at me so I'm shooting at him' type.

All calculations are handled by the computer but experienced wargamers will find the combat system a little absurd. Nevertheless it produces an entertaining game, which is the main purpose of a program like this.

One feature I definitely did not like was the obvious built-in bias against players with the usual MR. Somehow the program always chooses the wrong player to be kind to. It can't be anything to do with my strategy... **NR**

On your turn, you must decide what to produce: maintainers are best for mining, land near the river is best for food production, while the land is best for every production.

Bravailing the river, an arena center, is the town. This is where supplies must be brought, and where you pick up your Mule (you have to pay for it, of course). This, as you might know, is a Multiple Use Labour Element, and should be confined from the score containing the relevant supplies for the sort of production you have decided on.

Having qualified your Mule you must then lead it into your own land and install it there where it begins producing.

If you have time left you can go back for another Mule, or make a quick gambling trip to the bar in town.

You can even, if you catch sight of it, go hunting the mythical swamps, who will give you much money to free him (he is a bit stupid, when he opens the door of his cage in the mountain, a bell rings, and you'll see a little light for an instant).

Random events will also figure during this sequence, throwing at you such things as acid rain and plagues.

Once all the players have taken their production turns, the plots go through the production phase.

Then to the auction, which is where the players make good use of all the goods produced. Although the computer plays a mean game, the auction is where human opponents will really make the game special. Depending on how much of each good you have (and some are survival needs, meaning that you will need to buy them if you are low on that particular item), you can become a buyer or seller in each of the three auctions, one for each good.

The computer will sell and buy goods in the players, the amount available depending on how much maintainers has gone on in previous rounds.

After declaring your intention to be either buyer or seller, all characters can start to fix the buying and selling prices. The seller, of course,

will try to keep the price high, while the buyers will be keeping the price as low as possible.

The auction is carried out as a separate scene, with the characters staged on either side.

The players move up or down the screen, the leading one on each side fixing the price.

When the players meet again, the final price is set, and trading begins.

This can become a tenuous free-for-all, with buyers and sellers trying to keep apart,

with the occasional trading.

After all trading has been completed, the status summary is shown again (with that wonderful music), and then it's back to the playing area to develop more land.

When I've described it the beginner's game. There is also the standard game, in which land may be auctioned off by the score (another opportunity for a resource for minutes and with less Mules to use. There also is the tournament game, in which Cyrtus, a precious element, makes an appearance. This

may be found by luck, or by paying the Assay office in town to check a sample from the plot in which you are interested. In the tournament game, a certain amount of collusion can be instigated by the players, to keep another player from profiting too much.

Atari software has the highest prior tag of any, and almost always is not worth the asking price. Any program from Electronic Arts is more than worth it, however, and MULE is among the best to be found on the market. **BB**

Dragon reputation rings true

Adventure: The Ring of Darkness
Miles Spectrum
48K, Price: \$29.95 Former
Cassette Tappeler Wintersoft,
1000 Lakes Park Rd, Escondido,
California

ALTHOUGH Wintersoft is a relative newcomer to the computer field, it has made quite a name for itself with Ring of Darkness for the Dragon series.

It has now been enlarged and modified for the Spectrum market, and includes a fairly comprehensive instruction booklet though no cassette inserts.

The Ring is a role-playing adventure — you create your own character and his affairs, your progress in the game. There is a separate character generation program for this which is simple and easy to use.

After choosing a name for your character you are given 40 points to distribute between the attributes: intelligence, strength, and agility.

You then select character type: elf, dwarf, or human, and choose a suitable skill, either thief, warrior, or wizard. The program then displays all the character attributes, giving you a chance to change anything you don't like.

The game takes place on a high-resolution map showing rivers, forests, and mountains, towns and mazes, which are represented by circles. My character appeared in the middle of the screen and I went on.

The map scrolled in the direction of movement and although the program has a



lot of fonts, the response was fairly fast.

After only a couple of moves, I was attacked by bandits who appeared from nowhere. As well as leather armor and a dagger, I had some magic coppers so I tried casting a spell.

The computer told me that I could only use spells in dungeons, and while reading the combat instructions, I was beaten to a pulp.

You get attacked about every fourth move, which can become annoying after a while, though it was vital for gaining gold and experience points.

Enemies vary from bandits, which are quite easily dealt with if you read the instructions properly first to hidden archers, who are almost impossible to hit. Sometimes you can run away from attackers although when they will try to block your path.

On entering a town, Bordenes, the land map disappeared and was replaced by a high-resolution map of the town. There was a pub, a magic shop, a smithy and armourer and the palace, with cells beside it.

Guards stood at every corner and a tower ran about the town yelling "I've got the key."

In the next game, I visited another town, Pass Hill, where, and was disappointed to find that it was the same as Bordenes.

Ignoring the jester this time it hours quickly don't felt seem like the palace to have a chat with the king. After offering my services, he gave me a quest to complete: "Go forth and kill a Jelly Cube. Return when the quest is done."

After searching the countryside like a Jelly Cube, I gave up and soon afterwards came across the Maze of Mirrors. This had to be loaded from tape, annoying but to be expected since it is just fantastic and mine, the three-D maze. Complete with high-resolution colorings, ladders, and ropes, and with a fast response, it was too much for this adventurer, who has his way quite quickly.

A lot of hard work has obviously gone into producing this program. The map is very large — 80,000 moves according to the blurb, and there is a large variety of objects, weapons, spells and places to explore (it would spoil the game to give any more away).

For the role-playing enthusiast, it is quite good value. **BB**

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IN THE MAKING!

Wargame market

THE HISTORY of gaming covers as long a span as the history of the human race.

Whenever there has been any time with any leisure time, the innate competitiveness of people comes to the fore whether it be a sport or something less active and designed to stretch the mind.

Leaving aside the physical computers will only simulate the idea of sport, not the effort spent from wrist and finger strains we are left with the games of the mind.

They range from the simplest gambling games to the most complex abstract games including an apparent new comer — wargames.

Morality issues

This type of gaming is really one of the oldest in that it represents a direct diversion from the planning done by military commanders before going to battle just as chess and allied games are no more than extremely formalized, artistic wargames.

At this point there is usually a division concerning the morality of playing games based on warfare, death and destruction. This type of argument is normally raised by people who have no knowledge of the subject or the degree of involvement by participants.

Most wargamers are strongly anti-war because of their use of wargames, which gives them a degree of understanding of the effects of warfare rarely exceeded by anyone outside the military. This is without acknowledging the importance of military history and its effects on history in general.

Board wargaming in its present form probably dates from Charles Roberts' game Tactics, produced in 1953 on an amateur basis. It was recently re-released by Avalon Hill Inc as a celebration of 30 years of board wargaming.

In the succeeding years the number of companies involved in the field has grown from the original Avalon Hill set up in 1958 by Charles Roberts no far too many to list. The hobby has increased in popularity ignoring the even more successful offshoot of role-play gaming.

New needs old

At the same time the nature of board wargaming has undergone a number of changes. One of the most important is an increase in complexity led to the increasing demand, from long-term wargamers who want improvements in the accuracy of the games as simulations, and a wider range of subjects covered.

It is at this point that the new needs the old and our new computers, the micro-computer, comes to the wargamer's assistance. It is excellent at marshalling large amounts of data and correlating tabular information.

The first games such as Tactics involved a primarily abstract battle using less than 100 counters and a few pages of rules that were easy to learn. The games were more concerned with the use of combat units in



Laurence Miller traces the history of board wargames

different situations rather than precise simulations of historical battles or future conflicts.

Since then wargames which have been released involve 40 or 50 square feet of maps, several thousand counters and a hundred or more pages of rules, charts and examples of play.

From the early games, which required maybe a couple of hours to play, to those modern, which require hundreds of hours, there are many points in between. The advent of computerized wargames covers the spectrum of wargaming, including some features which are difficult to simulate with board games.

In addition to games wholly played on a computer, there are also a range of hybrids available in which the computer is used as a controlling or assisting aid to playing a board game. This is very useful

when using a computer with very limited graphics capability or for a game requiring extremely complex and memory hungry play information.

Just as in the field of board wargaming, the first computer wargames were of an abstract nature rather than concerning a particular battle, being designed rather to give the player experience at sharing combat units in typical battle conditions.

Unfortunately, there is one major difference between board and computer wargaming. Anyone could attempt to use any boardgame, but with computers it is only possible to use games that are designed to run on the particular machine you own.

Furthermore, it takes a little more than calling a game a wargame before it actually is a wargame in the true meaning of the word. Many games being produced for

leaders saluted



and examines their transition onto software

microcomputers are calling arcade, simulation games by this name just because they include tanks or aeroplanes.

A true wargame may be played in real-time (that is usually simplistic), such as *Legionnaire* by Chris Crawford. This can be completed again by the necessity for decision-making time required to deal with the strategic and tactical elements involved.

For economic reasons the first serious computer wargames originated in the United States, just like their antecedent boardgame relations. And in the same way one company, Strategic Simulations Inc, dominated the field but, unlike the boardgame field, it has yet to wield a major influence in this country because of the difference in the machines that control the respective national markets.

In the US the principal personal machine

was the Apple which, due to cost, failed to gain a serious foothold as a home computer in the UK where the popular machines are the Spectrum, Commodore 64, Atari and BBC B.

SII now has a wide range of titles, from introductions to extremely complex. They cover an area of historical and possible future conflicts, from *Napoleonics* through to *American Civil War*, *World War II*, age of sail to modern naval and modern ground warfare as well as a range of SF and fantasy battles.

These games, although predominantly available in the Apple, are now being produced for the Atari and Commodore 64 machines as well as a few titles for the TRS-80 and IBM PC.

Currently there are no other serious wargames available that match the quality of the best that SII produce although

there are now a number of other companies producing wargames of a reasonable quality that are worth buying especially if your machine isn't covered by this company.

Other companies involved in wargame manufacture include the original board wargames, Avalon Hill, a subsidiary of which has produced a number of interesting titles ranging from the fascinating *Legionnaire*, produced by Chris Crawford, through to *Paris in Danger* (Napoleonics), *TAC* and *Close Assault* (both WWII).

Easy to choose

Although these games have a superb wargaming base, Avalon Hill still have to smooth off the rough edges on their computer games.

Other US companies, such as *Broderbund*, *Epyx* and *Datamost*, are producing interesting wargames for the Apple and Atari's well worth looking at if you own these machines.

Coming home to the UK the choices are far fewer for anyone interested in serious wargaming as there are few companies operating in this area.

One of the originals is *Mulliner*, whose wargames originated on TRS-80 computers and are now being made available on the BBC micro.

The only other major producer is a company called *Ludibrium* who currently produce the best wargames available for the Spectrum with versions available for BBC and Dragon machines.

Their early efforts stained the meaning of the word wargames but their latest offerings are more sophisticated with games, such as *Johnny Reb*, gaining popular support by providing an interesting game with a reasonable grasp of *American Civil War* tactics.

Another rising star is *Red Shift* who have adapted one of *Games Workshop's* popular board game, *Apocalypse*, to BBC and Spectrum computers. It retains its original strategic flavour and the tactical options are enhanced by making good use of the computer's number-crunching abilities as well as providing a large number of alternative scenarios.

There are also a number of games being produced to high standards by individuals but because major retailers, chain store outlets are leaning on high quality packaging, these games are unlikely to be easily obtained except by direct mail orders.

Bright future

The future of computer wargaming is wide open proving increasingly popular with computer owners, who live of sophisticated games and require more sophisticated ways of filling their leisure time.

Currently the production of quality wargames is limited by hard economic reality in that writing a competent conflict simulation requires a wide range of skills and knowledge than in arcade games. This is combined with a greater investment of

time but with a far smaller market available to purchase such programs.

Originally in the US this type of consumers came from the dedicated amateur programmer underwriting to see if it was possible to produce wargames on current microcomputers.

Due to the larger number of wargames in the US quantities since the percentage of population is about the same as in the UK, such efforts found a ready market and led to the formation of companies such as SSI. In the UK the available purchase for such simulations means it is far more difficult to gain a reasonable return for such effort.

This trend is changing and there is no reason why very sophisticated game programs cannot be produced for popular machines such as the Spectrum, provided the will to do it can be found.

The immediate situation in the UK means that if wargaming is a major reason for purchasing a microcomputer then the machines worth considering, in order of range of games (and quality) are Apple, Atari, Commodore 64 and Spectrum.

For most purchasers the Apple is still too expensive for home users and the range of titles available is rapidly being approached by those for the Atari, which must be the best UK purchase for wargaming both in range of titles and quality.

The Commodore 64 is beginning to have an increasing range of US titles made available and also has the superb graphics

capabilities necessary, but it must be borne in mind that this machine as well as the Apple and Atari require at least one disk drive to access the best of the software.

Finally, the Spectrum offers the best choice of homegrown wargames for the least expenditure.

All this does rather beg the question why would anyone want to play wargames with a computer.

In real life, even in modern warfare, army commanders are woefully ignorant of the status of individual units on a battlefield. In boardgame simulations the player is usually in a senior command position for marshalling overall control of a conflict, but can see the exact situation of his own units and the opposition.

Changing situation

During the course of a battle the individual commanders would send messages back to Napoleon giving information as to the actual control of units, requesting reinforcements and asking for further orders as well as acting on their own initiative.

At the same time Napoleon would draft further orders in response to these reports and send additional orders on by courier.

All of this takes time, couriers can get lost or killed and, by the time messages have been interchanged over many miles, the situation is still changing.

This has been given the name the fog of war. It is very difficult to simulate using a board game without involving a considerable number of additional players, but it can easily be handled on a computer.

In SSI's Napoleon's Campaigns 1815 and 1815 you are in the position of overall command, replacing either Napoleon at Wellington with an on-screen map showing the positions of your own forces (at least where you are told they are) and the locations of the enemy, as indicated by warning reports.

To move your troops it is necessary to send a message to the corps commanders rather than move a unit directly and, just as in real life, the courier may not get through or the commander may decide to act on his own initiative.

Not only at this level but in many different ways the computer can provide a superior simulation. An example can be found with small unit actions when a number of hours are lost in messages over whether one unit can see another or as to open fire, it is infinite yet the computer can calculate such things precisely without any adjustment or time loss in working it out.

The wargamer already has a number of options available concerning the use of microcomputers as far as direct gaming is concerned, both software where the computer is capable of providing a reasonable opponent and two-player with the computer acting as a generally impartial referee. □



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Writing a convincing plot

John Fraser looks at reference material available for adventure game scribes



ADVENTURE GAMES are often based on futuristic scenarios which originated in science fiction novels, but they do have one major advantage over the printed version: the linear nature of the book imposes unrealistic constraints on the invented world; how the characters respond to events and the sequence of those events cannot be altered however much the reader disagrees with them.

Such limitations are immediately overcome when a story is translated into a mini-adventure and no doubt you have already experienced the enhanced realism that this entails.

Whether or not you have drawn inspiration from science fiction you would be well advised to do a little research in order to ensure that your game is logical and credible.

This point was emphasised in Andrew Pepper's article, *How to write your own adventures*, in the January issue, when he writes that "It is an advantage to know something about the subject you are writing a program about . . . If you have a passion for science fiction then its space adventure might be a good one to start with."

It makes sense to ensure that your scenarios at least look and behave like

spaceflight; that you have not forgotten the heat shield when descending through the atmosphere and so on.

There are a number of ways you can undertake the research such as with the aid of some useful reference books. These will provide answers to some of the many questions you are likely to ask when writing programs.

Reliable guide

Apart from the novels there are several convenient sources from which you can obtain plot summaries and the like. The most valuable of these is *The Encyclopedia of Science Fiction*, edited by Peter Nicholls, which is really the only comprehensive one-volume survey of the field available. It is also the most reasonably priced. For less than the cost of an average adventure tape you have access to almost every conceivable aspect of science fiction: authors, films, books, magazines and much more.

Each entry on an author provides a commentary on his or her major works, together with a listing of their other writings. There is also an extensive system of cross-references, so that novels on any particular theme can easily be located.

A couple of points should be noted

however. Publishing information is limited to title, year of publication and any variant editions. Publishers and the contents of short story collections are excluded, although many stories are mentioned in the commentaries.

A more serious problem is that the text has not been updated since the original hardback edition was published in 1979. Criticism apart, this is a reliable, one-stop guide which is indispensable for anyone who enjoys science fiction and is contemplating writing a space adventure.

There are several other popular publications that you should find in your local library, although generally speaking these have been largely superseded by the Nicholls *Encyclopedia* and are best avoided.

For quick reference there is Mike Ashley's *Who's Who in Horror and Fantasy Fiction* and Brian Ash's *Who's Who in Science Fiction*, which is less reliable in hardback. If the Nicholls book is not available then you could dip into either Brian Ash's *Visual Encyclopedia of Science Fiction* or the *Ceteris Encyclopedia of Science Fiction*, both of which, despite their titles, are not arranged alphabetically and are actually collections of essays with useful appendices.

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One excellent companion to the Nicholls Encyclopedia, although more expensive is Neil Berry's *Anatomy of Wonder* which contains almost 2,000 annotations of science fiction novels grouped within significant periods. Entries are arranged by author and include full publication details, with notes on awards received and so on.

In the related genres of fantasy and horror there are a couple of standard guides, but these too are comparatively expensive. *Fantasy Literature and Horror Literature* are both edited by Marshall B Tymn and are basically annotated listings of books, together with much supplementary information. They respectively cover some 200 and 2,000 titles, including reference books.

Some of you may have seen Gene Wolfe's *The Science Fiction Image* in the bookshops. This large American encyclopedia covers film, television, radio and the theatre, and is profusely illustrated with pages of colour and many black-and-white photographs. Unfortunately, however, as a review in an American science fiction news magazine, *Science Fiction Chronicle*, points out the book contains frequent errors and misleading statements and should be regarded with caution.

A far more reliable guide to films is *The Science Fiction and Fantasy Film Handbook* by Alan Frank. Films are arranged alphabetically and given thorough entries which include cast lists, plot synopses, quotations and more.

As for ensuring that you have got your scientific facts right, there are obviously many books which could be mentioned, but I shall confine myself to a selection of recent titles that are well worth sampling.

Of particular interest to space adventurers will be *The Science in Science Fiction*, again edited by Peter Nicholls. A similar book appeared a few years ago called *The Illustrated Book of Science Fiction Ideas and Dreams* but was somewhat less ambitious. *The Science in Science Fiction* is a rigorous examination of all sorts of themes and gadgets, such as time travel, cyborgs, aliens and artificial intelligence. A bibliography of background reading is also provided and should be valuable to those who occasionally find the book heavy going.

Science fiction

For details on the solar system Mars and the Planets, by Duncan Lunan, provides a planet-by-planet analysis of the solar system's structure and is a mine of information. So too is Kenneth Garland's *Illustrated Encyclopedia of Space Technology* which is an excellent account of the development of the space industry and contains numerous diagrams and colour drawings.

Future war is the subject of David Langford's *War in 2000* which speculates on the future of military technology and should be invaluable for depicting those spaceships and laser weapons.

On the other hand, if you would like to

know how to colonise other planets, *Nova Books: Reconstructing the Earth and Other Planets* can be strongly recommended. James Oberg, mission flight controller at NASA, deals with the science of terraforming, which means altering the planet's conditions to suit humans. The book is very readable and the author makes numerous references to science fiction as well as science fact.

These are just some of the books from which you should be able to find much useful information for your adventures. There are many more, such as author bibliographies, story indexes, even Star Trek technical manuals, the list is endless, but unless you are exceptionally enthusiastic and have few financial worries it would be more sensible to just purchase the Nicholls Encyclopedia and check the rest from the library.

Whatever you decide to do, remember that these gloves coffee-table science, while visually appealing, are not necessarily the most accurate. Check with other sources if you have any doubts.

You should find that a careful reading around the subject before launching into your adventure will be time well spent. Knowing where to find details of spaceships, aliens and the like, eliminates any frustration later on. It also means for the players that suspense in a game will be sustained instead of being shattered by obvious mistakes, such as impossible events occurring within the internal logic of the imaginary world. □



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Designed by Kevin Jones

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addictive

• ZXII Chart
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Middle Earth secrets come to light

Text from Paul Monberg

THIS PROGRAM, for the Spectrum 48K or 1Mk, will translate English sentences into Middle Earth Names and vice-versa.

The program achieves this by codifying the computer's character set, changing the lower-case letters with the names.

Line 10 tells the computer that the new characters set starts at 11745, while line 20 codifies the lower-case characters.

Line 30 copies the entire set above Runtop, which is reset to 11745.

Lines 100 to 400 contain the data for each name. First with the character it replaces, then with 5 numbers for that name.

When the user chooses English to Names, the computer inputs the English in a string. It then proceeds to check through the string, first checking for certain double-letter endings from 1050 to 1085, such as 'ng', and then translates the appearance of the string to lower case. When this is printed, using a different string, line 1120, the lower case are printed as Names.

Names to English works in the opposite way. Each Name is chosen by a code, which represents that Name's position in a string, line 1220.

Double endings are checked by lines 1270 to 1310, whenever the Name's code is changed to the upper case equivalent, line 1360.

The English is set up to 80, which is printed by line 1390. If the user quits the program, then the character set is reset to point at 15815, line 1990.

This program has many uses. One example is to have a spell on a spell written in the Names, which will be translated when a certain object or action has occurred.

Another would be to have a password to open a door written on the door, turning it English to, say, the torch is lit. Finally, it could be used to simply give a program that special quality.

The program writer should contact the magazine or payment can be arranged. □

```

1 REM MIDDLE EARTH NAME
  TRANSLATOR
2
3
4
5
6
7
8
9
10 CODE 10000.0 : POKE 10000.10
11 POKE 10000.1 : REM RUN THIS
12 DEFNAE TYPING ANY HOME
13
14
15
16 CLEAR 31745 : FOR N=10000 TO
17 10000 : POKE N+10000,REK.N : NEX
18 IS PRINT AT 10,10,"PLEASE USE"
19
20 FOR N=1 TO 26 : POKE 08,LET
21 N+1744+10000 : G=32-32+08 : FOR N=0
22 TO 7 : READ G : POKE 04,N : REK
23 N : G+4 : NEXT N : NEXT
24 POKE 20047,120
25
26
27 REM NAME CODE THE LETTERS
  IN THE FOLLOWING DATA
  ARE IN
28
29
30
31 DATA "a",0,00,00,73,00,00,7
32
33 DATA "b",0,00,00,73,110,70,
34
35 DATA "c",0,04,04,04,00,00,7
36
37 DATA "d",0,00,00,00,73,00,0
38
39 DATA "e",0,00,00,00,73,00,0
40
41 DATA "f",04,00,100,04,104,0
42
43 DATA "g",0,00,24,00,0,00,34
44
45 DATA "h",0,00,100,04,70,100
46 04,70
47
48 DATA "i",0,10,10,10,10,10,1
49
50 DATA "j",0,104,10,10,10,10,
51 10,10,104
52
53 DATA "k",0,04,04,00,104,00,
54
55 DATA "l",0,04,00,00,04,04,0
56
57 DATA "m",0,00,00,00,70,00,0
58
59 DATA "n",0,10,00,40,24,20,1
60
61 DATA "o",0,104,00,04,104,00
62 04,44
63
64 DATA "p",0,00,104,00,04,00,
65 104,00
66
67 DATA "q",0,00,00,00,00,74,0
68
69 DATA "r",0,00,00,70,00,00,0
70
71 DATA "s",0,00,24,20,40,00,0
72
73 DATA "t",0,00,40,70,0,0,0,0
74
75 DATA "v",0,110,70,00,00,00,
76 00,00
77
78 DATA "u",0,00,00,00,00,00,7
79
80 DATA "w",0,40,40,30,40,40,0
81
82 DATA "x",0,70,40,00,0,0,0,0
83
84 DATA "y",0,00,00,70,00,10,0
85 70,70
86
87 DATA "z",0,0,0,0,0,20,40,70
88
89
90 DATA "1",0,70,00,40,0,0,0,0
91
92 DATA "2",0,00,24,00,0,04,0,1
93
94 DATA "3",0,00,40,10,40,10,4
95
96 DATA "4",0,00,00,70,00,70,0
97
98 DATA "5",0,30,00,30,30,00,3
99
100 DATA "6",0,0,0,0,00,0,0,0,0
101
102 DATA "7",0,0,0,0,0,0,0,0,0
103
104 REM TRANSLATOR
105
106
107
108
109
110
111
112
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114
115
116
117
118
119
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1000 GO TO 1000 AND RE= "1"
1010 RE= RE+1:GOTO 1000 AND RE="0"
1020 REM ENGLISH TO RUMES
1030 CLS : PRINT "ENGLISH TO RUMES"
1040 MOZE:GOSUB 2: INPUT "TYPE I"
1050 RE=RE+1:GOTO 1000
1060 IF RE="0" THEN GO TO 1000
1070 LET RE=RE+1
1080 LET RE=RE+1
1090 GO TO 1000
1100 LET RE=RE+1
1110 IF RE="0" THEN LET RE=RE+1 THEN GO TO 1000
1120 IF RE="1" THEN LET RE=RE+1 NEXT N
1130 IF RE="2" THEN LET RE=RE+1 NEXT N
1140 IF RE="3" THEN LET RE=RE+1 NEXT N
1150 IF RE="4" THEN LET RE=RE+1 NEXT N
1160 IF RE="5" THEN LET RE=RE+1 NEXT N
1170 IF RE="6" THEN LET RE=RE+1 NEXT N
1180 IF RE="7" THEN LET RE=RE+1 NEXT N
1190 IF RE="8" THEN LET RE=RE+1 NEXT N
1200 IF RE="9" THEN LET RE=RE+1 NEXT N
1210 IF RE="A" THEN LET RE=RE+1 NEXT N
1220 IF RE="B" THEN LET RE=RE+1 NEXT N
1230 IF RE="C" THEN LET RE=RE+1 NEXT N
1240 IF RE="D" THEN LET RE=RE+1 NEXT N
1250 IF RE="E" THEN LET RE=RE+1 NEXT N
1260 IF RE="F" THEN LET RE=RE+1 NEXT N
1270 IF RE="G" THEN LET RE=RE+1 NEXT N
1280 IF RE="H" THEN LET RE=RE+1 NEXT N
1290 IF RE="I" THEN LET RE=RE+1 NEXT N
1300 IF RE="J" THEN LET RE=RE+1 NEXT N
1310 IF RE="K" THEN LET RE=RE+1 NEXT N
1320 IF RE="L" THEN LET RE=RE+1 NEXT N
1330 IF RE="M" THEN LET RE=RE+1 NEXT N
1340 IF RE="N" THEN LET RE=RE+1 NEXT N
1350 IF RE="O" THEN LET RE=RE+1 NEXT N
1360 IF RE="P" THEN LET RE=RE+1 NEXT N
1370 IF RE="Q" THEN LET RE=RE+1 NEXT N
1380 IF RE="R" THEN LET RE=RE+1 NEXT N
1390 IF RE="S" THEN LET RE=RE+1 NEXT N
1400 IF RE="T" THEN LET RE=RE+1 NEXT N
1410 IF RE="U" THEN LET RE=RE+1 NEXT N
1420 IF RE="V" THEN LET RE=RE+1 NEXT N
1430 IF RE="W" THEN LET RE=RE+1 NEXT N
1440 IF RE="X" THEN LET RE=RE+1 NEXT N
1450 IF RE="Y" THEN LET RE=RE+1 NEXT N
1460 IF RE="Z" THEN LET RE=RE+1 NEXT N
1470 IF RE=" " THEN LET RE=RE+1 NEXT N
1480 IF RE="." THEN LET RE=RE+1 NEXT N
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1930 IF RE=";" THEN LET RE=RE+1 NEXT N
1940 IF RE=";" THEN LET RE=RE+1 NEXT N
1950 IF RE=";" THEN LET RE=RE+1 NEXT N
1960 IF RE=";" THEN LET RE=RE+1 NEXT N
1970 IF RE=";" THEN LET RE=RE+1 NEXT N
1980 IF RE=";" THEN LET RE=RE+1 NEXT N
1990 IF RE=";" THEN LET RE=RE+1 NEXT N
2000 REM RUMES TO ENGLISH

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1000 CLS : PRINT "RUMES TO ENGLISH"
1010 MOZE:GOSUB 2: INPUT "TYPE I"
1020 RE=RE+1:GOTO 1000
1030 LET RE=RE+1
1040 GO TO 1000
1050 LET RE=RE+1
1060 IF RE="0" THEN LET RE=RE+1 THEN GO TO 1000
1070 IF RE="1" THEN LET RE=RE+1 NEXT N
1080 IF RE="2" THEN LET RE=RE+1 NEXT N
1090 IF RE="3" THEN LET RE=RE+1 NEXT N
1100 IF RE="4" THEN LET RE=RE+1 NEXT N
1110 IF RE="5" THEN LET RE=RE+1 NEXT N
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ANOTHER month, another city for help from the Goblins' Dungeon.

This month it is Robert Alsop, from Chelmsford, Derby. First of all Robert ensure that you have a friend with you; you will know this already from the HELP that you're given at this location. Now to this: **RNA/DYOT/WDT/C/HAD/BRR/YNM/JOFP/GRD/WR**

The code here was cited in the March Help column, but so many, many at the second letter and read-off every other letter. When you reach the end, return to the first letter and repeat the process.

Once out of the dungeon, you will find yourself in the dark, winding passages. I hope that the clue will help any of you currently stuck in the Goblins' Dungeon. There is, of course, to be placed in front, another even tougher one last. Best of luck!

Regular readers will have already seen this clue, as we covered the ground in last month's column. I'm not going to mention the Goblins' Dungeon for at least a couple of months.

The Adventure Contact part of this page always has its fair share of Hobbit problems, as follows what must be one of the greatest adventures.

Last month's was so excep-

ADVENTURE HELP

If you need advice or have some to offer write to Terry Bridge, Adventure Help, Micro Adventures, 12/13 Little Newport St, London WC2R 2LD -



tion. One of the problems was regarding the park, hellish eyes. These are not by everyone playing The Hobbit, and have a rather nasty habit of dropping on you, if given the chance, and snapping you to death — very nasty. Last month, David Waudon was asking how to escape them, and said that not even the magic ring would help. That's not strictly true because you certainly need the ring, but this alone will not be enough. Divide this David: **OGND/OPN/ACR/TMTD /WRIC/ELN/STNA/ENI/NGDR/ARDE/ACT/NI**

Darren Cooper wanted to know how to get home from the Dragon's Lair. This is half of the adventure although I'm not going to hazard a guess at the moment as which is the

better half — coming or going, so I won't give anything away here. I hope someone will contact Darren, though this is what the page is all about. Incidentally, I will say that a rather quicker method (which is in my own danger, though) is to allow yourself to be captured by the Wombat!

Staying with the Spectrum, but in Arnie's Place of Death, Paul King asks: "How do I pick up the first on the planet?" Just enter **PICK FLINT or BARK works**.

Bathala is still proving a very popular program. Many letters ask for help in getting started. Most of the problems were around the fact that the player can often complete the second quest, obtaining Fellowship, before the first, obtaining Odir. This is

contrary to the manual, which states that quest must be completed in order. Actually, this is the only occasion so where manual order does not apply.

Let's see if we can give some hints on how to obtain Odir. It's always a good idea to rub as much lead as possible throughout the game, as well as any keys you might come across.

First of all: **DEJJA/TN/EE/PN/SA/AMM/NDHM/NDMM/II/DRAG/AR/B**. You will need to follow the second part of the clue because you will not be strong enough to carry out certain chores later. Now: **DIR/ENR/DA/UN/EAH/NGSAA/DRMT/WH**

If the first part of the clue is not true, you will not be able to do the second part. Once you've done that: **OGAL/OT/UT/TO/ORD/AR/LE/EN/EDD/ODH/EPW/EN/L/HRG/RC/AR/WRCC/ETN/LEED**

You must be prepared to act quickly at this point, otherwise you could easily lose Odir. You'll also need a lot of patience (and all that food) to get through this part of the game. Once you have Odir, other parts of the scenery will be open to you and you can proceed with the adventure. Repeat the notes on page 7 of the manual.

ADVENTURE CONTACT

MICRO Spectrum 48K Adventure The Hobbit Problem How to find the boat; how to get the ring; how to get to Laketown? Name Stephen Wood Address 81 Elmwood Rd, Birkstead, Maresfield, E11 0RD.

MICRO Spectrum 48K Adventure The Hobbit Problem How do you avoid being killed by gats, hellish eyes? Name B Churchill Address 112 Blackstone Rd, Beckenham, Kent.

MICRO Spectrum 48K Adventure The Hobbit Problem How do you get Thain's key; out of the goblin's dungeon and the dragon? Name David Kingdon Address 1 Turren Close, Bentley, Donham, Norfolk, NR20 4BN.

MICRO Spectrum 48K Adventure The Hobbit Problem Is it possible to open the gate-cellar? Name June Rowe Address 40 Hardon Way, Lancaster, Cornwall.

MICRO Commodore 64 Adventure Twin Kingdom Valley Problem With what do you kill the dragon-in the desert king's castle? Name David O'Neill Address 35 Riverside Rd, Cavers or Leicestershire, Leam.

MICRO Vic 20 Adventure Pearly Cove Problem How do you open the chest and how do you get to treasure island? Name Andy Smith Address 39 Devil's Cops, Cresswell, Wymondham.

MICRO Vic 20 Adventure Curse of the Weymouth Problem Can't get past the rambler with the staff but the staff is ready on my side of the river? Name Paul King Address 112 Malpasia Circle, Terry, Aberdeen.

MICRO BBC B Adventure Castle of Eldath Problem How to survive on the boat after the Ring glider ride? Name Graham Francis Address 11 Munningford Close, Wisbech, Cambs.

HAVE YOU BEEN staring at the screen for days, or given up in disgust, stuck in an adventure whose problems seem insurmountable? Adventure Contact may be the answer. This column is designed to put adventures in touch with one another. When you've stumped a fellow adventurer you may be able to help — and you may be able to solve other people's problems. If you are having difficulties with an adventure, fill in this coupon and send it to Adventure Contact, Micro Adventures, 12/13 Little Newport St, London WC2R 2LD. We will publish Adventure Contact entries each month in this special column.

Name

Adventure

Problem

Name

Address

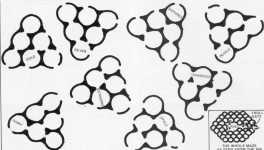
COMPETITION CORNER

Tony Roberts tests your skill — send your answers to Competition Corner, *Mico Adventures*, 12-13 Little Newport St, London WC2R 3LD



The best 20 answers we receive will win a copy of Peaksoft's football management simulation. *Champions* is the name of the game for Dragon 32, BBC B, Electron and Spectrum 48K owners. CBM 64 users have a chance to win the new release *The Boss*. Let us know which machine you own when you send in your entries.

Reward lies at end of maze



ONCE MORE! It is time to risk all that you have gained in the black dungeons working for Titch.

Titch has discovered the whereabouts of the third Basic Ring — the C Ring.

As usual, through her knowledge of the hidden ring is restricted but she has mapped out for you these eight sections of the maze.

You have no other information about the maze other than its general shape.

The maze is guarded by a troll, slating, sitting at the gate. As you sneak in one of the entrances beside the gate, be quick and then chase him.

Can you piece together the fragments of the maze? Clearly they must overlap in some places, apart from the ring you have to get for Titch, you manage to pick up along your quest.

As a tie breaker complete the following sentence in 15 words or less: I want to own a simulation because...

Your entry must arrive by the last working day in April. The winners and solution will be published in the June issue. You may enter only once. Entries will not be acknowledged and we cannot enter into correspondence on the result.

February winners

The winners for the February competition were: Michael Douglas, of Cleveland; E Walsh, of Berkshire; N.C Parker, of Somerset; John Coadwell, of Cambridge; L Gibson, of Lancashire; Keith Cosmides, of Devonshire; D Lindsey, of Newcastle-upon-Tyne; G.J Williamson, of Leicesters; G Lingam, of West Sussex; A Brown, of Ky Austria; J.B Baker, of Dorset; W Perry, of Selwyn; M Parde, of Mansell Hill; P Cuckhara, of Cambridge; Julian Murgatroyd, of Warwickshire; G Gibson, of Lancashire.

The solution 6,1,1,1,3,4. As you can see there are fewer than the 20 prize winners so promised in the last issue. Could it be because the competition is too hard? Tony Roberts assures us not. Oh, could it be that advanced fans need's venture into the land of real competition. Admittedly you only get one life line on the other hand you could win a new game to add to your collection. So let's see what sort of stuff you're made of. Compete against others who share your adventurous nature, and perhaps you'll win a prize. ☐

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