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Welcome to another fantastic issue of the world's bestselling Commodore magazine... CONTENTS

10 DISCOVER WHICH GAMES YOU VOTED THE BEST EVER

Did Britain vote best? What do you think? Anyway, discover which games retained the other 10 positions. It's not quite as predictable as you might think.

TOP 50



13 DIARY OF A GAME: 10TH DAN



Over adventures in this exciting martial art we end in sight. But the problem is coming together and the fun and enjoyment in each other will guide. What's a programmer? Don't look up to the number!

34 INTERVIEW: JEROEN TEL, C64 COMPOSER



The name might not be familiar but the music will be. He is responsible for the track in games like Lemmings, South IV, Outrun Europe and Turbo Thrust. By what's a...?

14 THE TOP 20 PG GAMES EVER

Not called by you? Don't look on on the list, okay? It's over. Tell you how you can enter the whole lot for less than the price of the number one game in the Top 10.



10 GAME REVIEW: HEAVENBOUND

Who says they don't make games like that anymore? Show us they are.

Step into a different way to

experience that never felt to be...
Heavenbound



26 GAMEBUSTERS

There's a complete guide to Wilson's Fun Plus line for taking the easy option with games like Adventure Quest World, Demonium, Shik, City Storm, Superman and Superman.



COMMODORE FORMAT

ISSUE 50 • NOVEMBER 1994

SPECIAL FEATURES

13 GAME DIARY: THE MAKING OF 10TH DAN

200 Words continues to be and produce the greatest best hit-up ever seen on the C64.

17 THE ALL-TIME TOP 50 C64 GAMES - VOTED BY YOU

How we vote, how... the details Top 50. And there are quite a few surprises - and stories - in there.

34 INTERVIEW: C64 COMPOSER JEROEN TEL

Meet the man who's the John Williams of the C64 world - if they gave game soundtracks Oscars this man would have a fuckload of OScars statuettes.

GAMES

10 REVIEW: HEAVENBOUND

You've got the stars, but is it worth buying the whole game? This is where you'll find out...

11 REVIEW: CASHMAN COMPILATION

These games at an incredibly low price. But are they cheap and cheerful or cheap and nasty?

12 REVIEW: XXXX

Will this puzzle top adventure from Paradise send you straight to sleep or keep you questing?

14 PG FORMAT

The Top 10 best ever PG88 games.

26 GAMEBUSTERS

More tips, hints, findings and player's guides for the monthly best and gaming magazines.

SERIOUS STUFF

21 TICHIE TIPS

The advice that makes the difference between the perfect machine and what you have - being...

24 CREATING COLOUR

The Colour Rings explain how you can be used to get you have more colours on screen.

17 MEAN MACHINE CODE

First part of our assembly series.

REGULARS

- 5 SHIPPETS
- 6 LETTERS
- 8 BACK ISSUES
- 16 READER ADS

9 ON THE POWERPACK...



Dropzone

DROPZONE

It's at number 18 in our Top 50, and we reckon that it'll be back on the Power Pack a couple of months ago. It would have gone into the top 10. Discover why the committee are...

Setting our...
best version of its...
adventure should...
Dropzone

HEAVENBOUND DEMO

It's up, up and out today with a demo of this excellent fantasy world platformer from Budnix.

GALAXIANS & CHAOS

Two addictive little shooters played from this month.



Chaos



TURN TO PAGE 9 FOR THE FULL COVERTAPE BRIEFING... >

SNIPPETS

News, gossip and other bits of miscellaneous info that didn't really fit neatly into any other part of the magazine...

GLOBULAR GAME

Just out from MSP follows a clever teen-bonding public-interest game called *Globozoo*.

MSP, who were also responsible for *Scoutquest* (reviewed in CF44), claim that the new puzzle has been specially written to take into account all the problems of their previous game, which sat with a slow-warm response.

It involves a kid who has to find his path through various maze-like levels, the trick being that when he needs information, he always follows a trail of set tables about which you'll have to — in other words, if there's a choice between go on left, he will always head opposite.

Add to this the fact that he can only cross each tile in the maze once, and we've got what sounds to be the elements of a classic puzzle.

The game costs £2.99. Main strips payable to Paul Robinson, and send your orders to: MSP Publications, 21 Riverside Road, Milton Keynes, MK11 1BQ. Or you might like to wait for your magazine issues free like to mail an order some kind of useful purpose here — on CD.

IT'S A CRACKER

These days it isn't just professional mag that carry computer software. Fanzines are getting in on the act.

Commodore Cracker is a new 40-page (including CD) home paper and a rather packed coverage called the *Cracker Gazette*. The top feature is *Crack* PG games, plus a couple of letters and messages from the editorial desk.

There's game reviews, PG, reviews, feature bits, letters, news, *Crack* PG, and...

Oh, it's a sounding very familiar...



Oh, what the heck, here's a tip — *Commodore Cracker* is the fan-produced version of *Commodore Funnet*. And if you can't wait for next month's issue (if CD team *Cracker* should fill the gap pretty well).

Issue one costs £1.99 (and that includes the typed and hand-drawn pictures to Brian Turner. Write to: Commodore Cracker, Tame Magazines, 4th West Avenue, Ashby, East Tring, Herts).

DAVE'S OFF

It's farewell to Dave, again, as he leaves *Commodore Funnet* for the astronomical to go-off and deputy edit that games mag we tell you about last month, *Ultimate Future Games*.

In the meantime we'd like to thank *Funnet* for stepping into the gap temporarily until a permanent fix was found. And your tip-off works, in this, a new issue.

RUMOURS & UPDATES

■ The Electric Boys have been in conversation with the BBC, so far. At a recent Computer Trade Show the Boys bumped into a team from Acorn, and managed to convince them that a feature on a computer that produces top-quality games at a fraction of the cost of console software was a really good idea. So you never know, you could see the CB4 on *Living Line* pretty soon, eh?



Could we see Dave on the *Electric Blue* court?

■ Will you be the EE's, as you will no doubt have worked out from the month's coverage above and the review on page 18, have finally started releasing some of the software we've been talking about for the last few months.

Unfortunately, negotiations with CP (being) — the Games company that does most of the software the EE's are interested in — are going a lot slower than expected, but hopefully there should be a few games coming over the next few months, including a loss of the *Chameleon* and *Paul's Stack*.

There is even the possibility that some might turn up the Power Pack (but don't hold your breath).

In the meantime, feel free to knock CP (being) yourself to convince them that releasing this stuff in the UK is a REALLY GOOD DEAL. You can contact them on T 010 111 740000. (Remember to get permission of the people who own the phone lines.)

■ The Electric Boy's very own *Delphinus*, meanwhile, is also making progress.

■ Meanwhile, over to the Jan White/Visuals team, work on *100% Dan* and the very promising-looking professional version *Alan* continues favourably. It looks like *Janet Alan* could be released this side of Christmas, though little *Janet* will mean little *Alan* only year 84 early in 1985. Hopefully we should have a demo of *Janet Alan* on the Power Pack in a couple of

YOU'LL KICK YOURSELF IF YOU MISS IT!

The Future Entertainment show is nearly upon us, so if you haven't decided that you're going to go, then send a few more messages why you really shouldn't miss out on what's going to be the biggest computer event of the year.

It's going to be taking place in the spacious hall of Boreas Court 2 on 26th-28th October. Besides all the stuff we've told you about so far — all the latest software on offer, all the biggest companies exhibiting, lots of hardware for sale, lots of workshops to get involved with — and stuff like that — there's also going to be a special feature by two past games of all computer programming.

Get *Walter* (Editor of *The Mirror*) (Graham) and *Arthur Maclean* (Producer) will be talking about the lack of originality in console games. So you can bet



there's going to be lots of new things about the CB4, and from things we made better when people used computers instead of consoles. That all happens on the Saturday, by the way.

Plus the CD games — including *Simon* and *Dave* — are going to be there on some of the days (don't — don't go on Friday, so you can meet us and tell us exactly what you think of the mag (but please be kind, okay).

So what are you waiting for? Phone 1 0263 4222 now and order your 1000s. They're only £5. If you leave it to the last moment and pay at the door you'll have to fork out £7.

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More intelligent than Carol

Vordeman. More mysterious than the London Underground timetable. More legless than Oliver Reed. It's The Mighty Brain, and once again he's been rummaging through the CF mailbag. Odd.

CHUFFED

Dear TMB,

1 If the Roadwars (Apex) make a Mountain 2, could you suggest to them from me that they include out-of-level questions for every level and include some bonus stages?

2 Oh, and before I forget, I would like to thank the CF crew for printing the three Street Fighter Masters because I completed it thanks to the listing. And I would like to thank the Roadwars for making such a brilliant game in the first place.

3 Master Kombat - I know you're not into it, so

perhaps if it's not coming out on the CD, but why not? I mean, the Sega Master System had it and that's got to be the best on the CD.

4 Why, oh why does it take you get any about. Sir Vordeman say the CD's you get issues, but on the CD Roadwars you don't get any about as a rule. More interesting, I suspect.

5 Unfortunately I'm not a fan of the Roadwars, neither will I be making a Mountain 2 on the CD. It's a shame, but the fans should only have more fun, and you can hardly blame them for their own taste, though. Mastermind!

and turn up in another format, at which point we can all smile broadly and say, "well we had that game when we..."

2 I do have a moral problem with them - if you buy a game surely you want to play it, not just buy it and throw it away? However, you have to admit, it would be a shame if you didn't get to see all those lovely levels. The Roadwars designed just because you can't play the game.

3 The reason why Master Kombat was really so great was on the CD that Dave is to give a fun and cheap thing without paying too much. As far as I know, the CD's a good idea and more to do with the major software companies not having the machines security systems. Anyway, you can bet that CD's got a gorgeous light-gate better than some mainframe console for a few hours worth.

4 It's over to you programming, buddy. TMB

CRISP

Dear Sir (Crisp) - David,

In these very times that there might be a section in the mag on how to program games that would be, how to put your ideas into code and where and how to get sprites and music into a game, we could then place a game together made by youth.

Yr Obedt, Painsborough

And that Jason's Masters 2000 series has come to an end and the last great long has got nothing better to do, so will get his on the way. And I reckon that I should be the star of this game. I had I should be remembered in the. I think that I'm pretty much finished already. TMB

TEMPTED

Dear TMB,

Your mag is the best, even if the coverages are getting worse with every issue.

1 Shouldn't get a Megatrive?

2 What happened to the Early Warning Scanner?

3 Where is Batman Returns coming out?

4 The Lords have gone too? Where is everything going?

5 Any hope of the horse racing game that was on the Sports Park by Train getting on the coverpage?

6 How about a football management game on the Powerplay too?

7 The Mean Machine doesn't work a waste. Who would buy a disk just to see some pictures?

8 What was on your first ever coverpage?

Garry White, Dymock, Hereford

1 You write in to a CD mag and ask that? What kind of answer do you expect? It sounds, well, I expect, in which case I refuse to answer you. It's just not the sort of thing you should ask about.

2 I proved useless.

3 Probably never. It's another case of the big software houses being stupid.

4 Strange that, isn't it. Yes the Lords have 'gone' but they're not actually 'gone' to anywhere, is that not one of the vagaries of your limited language, or perhaps a reflection of some sub-optimal economy which sometimes can only talk to convey?

BATS'N'PIECES

1 Why are the Electric Blue so brilliant? Ben Hayes, Dallas, Texas.

Because they can. TMB

2 Does cost a lot of money to buy the rights to a game? G Day, Peterborough.

That depends on what the game is. Some aren't so bad but the author has little trouble remembering they write it all probably for a few hundred. Street Fighter 2, meanwhile could set you back quite a few thousand, I expect. TMB

3 Do you have any friends? James, Derby.

Yes, in the sense you understand. Besides, with some of the most out there in the universe you'd get one I can't imagine you'd be there. It's not fun of this to get involved too much with anyone. And anyway, most humans are about as interesting as water trout. TMB

4 Why does the CF crew always put down the WWF games? Are there ever

for a WWF or David Pearce, not fixed inside (apparently)

Actually we have had some nice things about the original WWF game, but European Manager was pretty dire. That's why we always stay it off. WWF! Most unlikely (and unwanted). TMB

5 Why, oh why does it take you and look like a dog and a cat? Jonathan Denton, Newcastle.

Are you asking me to become a software engineer? Sorry, I must decline. Needless to say, that's the answer to anything. Fun, yes, but not really, well, never. TMB



How do the WWF wrestlers do it? Well, they are like ordinary people who are different. They're not like you. TMB



HEAVEN BOUND

This is the first time Dave's seen a pink elephant when he's been sober.

It's not often you discover elephants in Austria, especially game ones, but this pasty-faced bloke from Europe is something a bit special. He's bound to be the first official release from the Electronic Arts following their invasion to total Europe for the first 234 countries and being it back here to the UK. And they could hardly have picked a better example to show how impressive some of the stuff Commodore are producing can be.

The game is from the same team who produced *Pro's Quest II* which are renowned for their (and which, paradoxically, won't be released) and yet - these international-looking players are a nightmare apparently. We gave that a thumbs up. This one gets an even higher thumbs up for it that makes sense.

Typical of missing, according to the intro, and he's heavenbound. Which doesn't really prepare you for what happens in the game. You control a pink elephant who hops between clouds and rocky outcrops in an attempt to get to that great watering hole in the sky (has he got some water down there?).

Anyway, on the way loads of nasty what made by to knock him off before he reaches his view (presumably scolding him as they knock around). Some get five, others three coins, a few give none, but all of them are lethal to the touch.



If it starts raining, the elephant's dead. The clouds don't look like they hold much water.

There aren't levels, you just keep on going. You've got three lives and a time limit, but there are time bonuses dotted generously around the place so that you can keep on going - you don't have to complete the game within the 30 seconds, with which you start the game. Plus.

The gameplay is a bit limited, but it does get longer as you progress on. You need to have both your position (horizontally and vertically) skills to get just some of the other elements. To add the game looks in variety it makes up for in sheer playability. It is



The presentation of the game, right from the moment you first load up, is impressively slick.

surprisingly addictive once you get the hang of the extremely usable and unambiguous controls.

What helps is that the aesthetics are gorgeous. It looks and sounds nearly as good as *Mythos*, and even the intro and loading screens are impressive.

On the intro side the collision detection is detailed, but at least it works both in your better sometimes, so that whatever things out a bit.

Overall, though, it's a very impressive game. Let's hope the *Leap Boy* can discover more where this game from.



When the enemy starts breathing a word, it's the time to stop taking Mr. Blue Elephant.



Although you can head straight up, it's better to aim a bit higher to see what bonuses they have.

BONUS POINTS

When *Heaven Bound* starts up the machine, this takes behind fairly quickly. An *B* will give the pink pasty-faced bloke 30 seconds, *F* gives him the time limit by 30 seconds and *B* will let him jump a bit higher.



HEAVEN BOUND

Publisher: EA
 £ 24.95 / \$19.95
 Price: £1.95 / \$1.95 (tape)
 Available right now, baby.

- ▲ Completely lush graphics and music - very impressive.
- ▲ Incredibly playable, and gets trickier as an intelligent rate.
- ▲ There's a great cast of enemies who just get more on getting nastier.
- ▲ The robot boss for those between keeps things interesting.
- ▼ Absolutely appalling collision detection - you fall through clouds.

POWER RATING

90%

CASHMAN COMPILATION

New from The Electric Boys is this compilation of three great games. It's not a super, top-line release, but at only \$1.50 you could hardly go wrong, or could you? Let's take a look...

CASHMAN

This one game isn't so great, but it does't actually play at all that badly. Loads of gaps pour out of the top of the screen. Your job is to catch them and use their money.



CD-ROMasters released the game, they'd probably have called it *The Digging Simulator*. Being a muggle in the game, however, is quite a lot like it, not very difficult, indeed. There's always loads of money on screen, and the game shows up quite a good. The difficulty level is set right, with nothing needing more time to be taken with every level.

The major drawback with *Cashman* is that it doesn't have much program appeal. It does have a few hours of amusement in it, though. **82%**

SYNOPSIS

This is a fun puzzle starring a little boy who bounces around a number of levels, which automatically regenerate after he

leaves them. His aim being to clear the screen. If you playing *Grand Bouncer* into an empty space, he dies. *Cashman* thought about the order of destruction a number necessary.

Not all squares are the same - some need to be hit twice, others, hit at all and some force you to go to a certain direction. The trick is to make sure that you don't leave yourself in a position where you have to jump on to.

It might not sound exciting, but if you like your puzzle games, you'll enjoy this. It's a bit slow, but being a puzzle that family matters. It's my ranking, *Synopsis* is the best game of the pack. **88%**

MINDMAZE



A rather dull puzzle, frankly.

Unfortunately, although the second puzzle, isn't really as good as *Synopsis*. It looks okay, but it's, frankly, dull.

The aim is to eliminate all blocks from the screen. You do this by choosing a square with your cursor and pressing fire. Extra blocks are then added to four squares around you. However, if there's a block there already the two corners each other out and you've made some progress.

The time limit is tight and you've got no lives, so progression is difficult. But the game is such that that that you probably won't bother trying anyway. **80%**

OVERALL

For surprisingly this is a great bag of games, with one good one average and one bad, but at the only \$1.50 worth your. It's actually very good value. **86%** *Keith Weeks*

CASHMAN

Price £3.99

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POWER
RATING **72%**

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communication!

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of gaming!

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Internet, and you've
simply got to get involved.

Every month, *net .net*
magazine shows you how...

WAAKIN'

KITH DAN

Jon Wells continues to recount the trials and tribulations of trying to bring 10th Dan to your C64 monitor screens...

Hello again, and welcome to part 7 of the 10th Dan diary. This month the focus covering the action design and structure of the 10th Dan 320x200 for the animations of the fighters, but before we start here are a few bits to make you nostalgic again...

Going into your memory bank, asking when 10th Dan and Game Artist will be released. Well, Game Artist will be available some time around this November, I don't will be appearing very soon. 10th Dan is available for a Commodore release for the end of next year at most. Though of course, it'll not really be like that (I obviously won't be the last thing I'm going to do to create a debut product. Oh, and while I'm on the subject of releases, City Bomber and 17th's (Dialler) will be released next month. I'll have facing a few problems with packaging and last minute bugs, which is why City Bomber's cover slightly delayed - though this will all be history by the time you read this!

I've just found normal that's going away on a college course this month for 3 years! So I'll be too busy to do any more games or graphics, but it's only just got 10th Dan into production. This means that I'm now bothered up with doing the whole game, graphics, music - 0000000000! Amazingly kept the gut going here to make last step and hope this doesn't affect the release date.

At the moment I'm kind of (The Mountain) is readying, looking forward to 1000 some new lengthy

soundtracks for the game. In the meantime I've been updating the action C64 - Main player (this is the editor for use, yeah). Already you can only have 1 lane per 2 player, but I've spent the last couple of weeks to your covering the whole thing. The accelerator can still be used, but I've limited the player. You can fire or charge as many times as the 60 frames, but instead of using valuable memory with these extra players. It can only attack the one player. You can all be converted, killed and reloaded anywhere in memory with a newly defined editor that programmed. I've also programmed a sound effect/music generator which can play 3 channel music and 3 channel sound.

3 CHANNEL SOUND???

I don't separate 3 channel music and sound simultaneously. It's a bit complicated when it comes to this... imagine you've got 3 channel music, when a sound effect is needed the first player will take one sound channel (and play sound when channel 3).

Once the sound has finished, effect channel 3 is turned off and sound channel 3 is turned again.

This way after the track finishes it can play again if it's currently being played, whatever happens in it.

City Bomber and Game Artist use this technique, and I give the impression of 3 channel music and sound effects - though not really true. This is 10th Dan - 3

already some examples, remember? For currently planning and designing the action editor. This will be the editor of the world for 10th Dan, but

THE STORY SO FAR...

As things, the latest edition includes software, but followed roughly three last 10 months or so on the game everyone hopes will be the best C64 both on its own, but the success it's bringing a lot of attention to the game. I'm interested in playing as well. So for the graphics for the final level are complete, the map editor is in place, the action fighting routine are in place, and now the music is in place. The sports are in place, and now the music is in place. The sports are in place, and now the music is in place.

DIARY
OF A GAME
MONTH
SEVEN

also for any other game style available. The problem with all present sports editors is the limitation of the Commodore's 16 graphics animations and features. The editor will be able to use up to 60 sports with 100, but using one for the first level and another for the 2nd level screen. The editor could then be used to develop big and 3D graphics, a short 100, big legs and so on, while still being able to change angle, double, or even to use multiple just like 10th Dan's. This is quite a big project which obviously, I might be to do more complicated than anything I've done on 10th Dan editor. Just hope I don't take too long on!

The first thing I needed to take into account is the memory restrictions, so I started by mapping everything out. I've reserved 256 01000 to sports for the sports memory, though normally I would only choose from 256 in total. As the 10th Dan sports have only 256 possible sports (256 each), to overcome this I've used some sports locations are reserved, and the 256 for compressed sports are reserved and stored in the 256 memory available. To store any of the 256 sports, they are un-coded and stored in the 80 last sports - where they can be seen... on the screen if the sports have been modified and other sports memory is needed, the program will store those modified sports substantially.

The hardest part of the Editor will be the data player, this needs to handle the compressed 100 sports and the large linked sports. The last and only way to do to achieve this, is to program a series of 10th Dan players to handle each and every type of move.

The whole editor is still in its early stages, but I'm looking forward to finishing a year starting on the fighters animations and controls. I've designed 12 different fighters, and the fighting routine will be in place at least 30 for the fighter, which means more on all that will be the editor in part 8...

STAY TUNED...

I expect the sports editor is something of a somewhat, as there'll be more of your next month, together with more of the exciting news on the game developers. Oh, why don't I think there are so many as 10 people in the whole world, all have met in our little world. We'll just have to wait and see.



Here they are. The games you voted for! Dave Golder surveys the survey.

1 MAYHEM IN MONSTERLAND

(Apex, 1988)

Fight from the first day the rolling hillsides started coming in from west when my dad's school games was going over the front fence. (My computer)



Monsterland was huge fun.



What six times as many votes as the number two game - an awesome achievement. Mayhem in Monsterland proves that the C64 can produce games that rival the platform-fodder churned out on the consoles, in terms of graphics, as well as playability. Quite simply, Mayhem isn't just the best game on the C64, it's one of the best games ever on any format.



The levels were a blast to play.

2 LEMMINGS

(Progressive, 1990)

The green lemmings managed to eat the number one position and stop the Russians from dominating the top three places. Many



Great game!



decided that the complex plotting of Lemmings could be achieved on the C64, but the superb coding team, Alexey Pajunov, proved everybody wrong and turned out the stunning conclusion.

THE ALL-TIME TOP 50 264 GAMES!

3 CREATURES

(Thalonia, 1988)

Not a surprise, this box that Creatures has been voted strongly, not that it's hard to compare the score.

2000, but no one can deny that the Russians' platform-fodder is a real winner. (Good graphics, voice and

pricing) graphics and memorable characters.

pricey graphics and memorable characters.



Unbelievable character!

4 CREATURES 2

(Thalonia, 1989)

Clyde returned in the spectacular sequel with some of the most gorgeous scenes ever seen on the C64. Lots of a platformer and more of a war made-over. Creatures 2 proved that the Russians were the finest programmers ever to work on the C64.

pricey graphics and memorable characters.

pricey graphics and memorable characters.



Unbelievable character!

5 MICROPROSE SOCCER

(Microprose, 1985)

Written by Simulac Software, who went on to produce the now legendary Demolition Soccer on the Amiga, Microprose Soccer came top of the sports list. It's not surprising considering its superb soccer action and gorgeous graphics.



Soccer is fun.

6 ELITE

(Orwell Soft, 1985)

This is one of those games that, lying computer game curmudgeons, the sort who claim to have advanced Prog on the BBC radio, go all hotting. Good. And you do get to admit that while the world's best

game you can

play is a

game, it's

game, it's

game, it's

game, it's

game, it's

game, it's

game, it's

game, it's

game, it's

game, it's



Elite is fun.

7 IK+

(System 3, 1982)

This is good to see - I was worried that with the huge, Green Fighter (Progressive) IK+ (But you'll



Unbelievable character!

THE ALL-TIME TOP 50 264 GAMES!

28 GUNSHIP

Microcass, 1981
On this title, in primary, the best fight you can have, as you take control of a mighty ABBAA Apache Attack helicopter. But don't expect an epic, because it comes across more like a simple version. This is the top rating fight set in the best of the war.



Image by

29 BARD'S TALE

Electronic Arts



Image by

It is quite possibly the best text adventure ever.

30 FOOTBALL MANAGER 3

1993

Interactive, 1993



Image by

The engine Football Manager is a bit of a legend. Not it was no great shakes. Through the years the game was developed to the most team-friendly and instantly accessible version we have today.

31 F16 - COMBAT PILOT

Digital Integration, 1989

This is probably the most complex flight sim on any 8-bit. It was written by two men, back of their paygrade in Concord. But for the best of each, which obviously gives it its appeal.



32 IKARI WARRIORS

1988, 1992

War-themed has probably got the best two-player option in any shoot-'em-up, but even if you can't fight 10000, what are you playing with one. The Commodore-style action is a beauty.



Image by

33 SMASH TV

1994

While we have to put up with the Mean Prince and Supermarket Sweep, the game shows of someone will



Image by

do more like a mix between F16, Crusader and Prince. More action-oriented than any other game.

34 RAMPAGE

1987

This is one seriously odd game. Monsters attack up city skyscrapers and throw chunks of buildings at each other. It can't be long before Super Rampage on the Amiga comes out, can't it?

Image by

35 NEBULUS

1988

This game obviously entered the Top 50 late, because here's another seriously obscure game. A just average shooter on the outside of it.



A series of sound effects, flying, sword-swinging killed on the way. This wasn't smiling is unique and certainly makes the game memorable.

36 FIRST SAMURAI

1980

First Samurai shows some of the best graphics you'll find on the Commodore in its graphics programming, movement and the consistency of scoring. You can see an action scene and take it over the place.

Image by



37 MERCENARY

1985

As this was fairly graphics being the maximum loading task. Mercenary might look primitive but the result of simplicity is progress. There's some loading games are not highly popular.



Image by

38 BUG BOMBER

1980

The title says it all really. You shoot bugs. But Bug Bomber is a lot of a trouble and more of a puzzle as you try to work your way around the world and where the best place to plant your bombs are. Other than that, it's a very simple game. The Super Bomberman on the Amiga.

39 HERO-QUEST

1981

This is a excellent computer version of the world-famous board game, with 32 missions and four warriors from which to choose. Originally it is a lot more, but there's enough game-playing here to make you want to play.



40 FOOTBALL MANAGER 2

1992

Quite how people can choose Football Manager 2 over more a second one, it would be this last only from the fact that it would have been the other game for all those games, wouldn't it?



20 0000 200 200 210 210 200 200 210 210
 21 0000 200 200 210 210 200 200 210 210
 22 0000 200 200 210 210 200 200 210 210
 23 0000 200 200 210 210 200 200 210 210
 24 0000 200 200 210 210 200 200 210 210
 25 0000 200 200 210 210 200 200 210 210
 26 0000 200 200 210 210 200 200 210 210
 27 0000 200 200 210 210 200 200 210 210
 28 0000 200 200 210 210 200 200 210 210

The good is on the right. Again.

FOREBODING CODING



- Dear Techie Tipz,
1. What registers are involved in writing up those interupts?
 2. What would IPOK look like?
 3. Why do you need screen-up loader?
 4. Could an interrupt flag been initiated and the code is being executed, when command request I/O data the code of it with an IRQ at a port?

Been initiated and the code is being executed, when command request I/O data the code of it with an IRQ at a port?
 David Harrison, Essex

1. The IRQ Occurred Flag at 0000, the Realer Pseudohalt Register at 0004, the IRQ Vector at 0004, the VIC Interrupt Flag Register at 0004 and the IRQ Status Register at 0004. Each time you update an interrupt you must write to 0004 again.
2. How could I just write you how to set up a timer when we're in the middle of the screen. There are other ways to set up a timer interrupt but you'll find this the easiest to work out and program.

000 40000 000 000 0000
 100 000 200 200 4000
 200 200 400 400 8000
 300 300 6000 200 200 4000
 400 400 8000 400 400 8000
 500 500 10000 200 200 4000
 600 600 12000 400 400 8000
 700 700 14000 200 200 4000



000 000 200 200 400
 100 000 2000 200 4
 200 000 4000 200 8
 300 000 6000 400 16
 400 000 8000 600 24
 500 000 10000 800 32
 600 000 12000 1000 40
 700 000 14000 1200 48
 800 000 16000 1400 56
 900 000 18000 1600 64
 1000 000 20000 1800 72
 1100 000 22000 2000 80
 1200 000 24000 2200 88
 1300 000 26000 2400 96
 1400 000 28000 2600 104
 1500 000 30000 2800 112
 1600 000 32000 3000 120
 1700 000 34000 3200 128
 1800 000 36000 3400 136
 1900 000 38000 3600 144
 2000 000 40000 3800 152
 2100 000 42000 4000 160
 2200 000 44000 4200 168
 2300 000 46000 4400 176
 2400 000 48000 4600 184
 2500 000 50000 4800 192
 2600 000 52000 5000 200
 2700 000 54000 5200 208
 2800 000 56000 5400 216
 2900 000 58000 5600 224
 3000 000 60000 5800 232
 3100 000 62000 6000 240
 3200 000 64000 6200 248
 3300 000 66000 6400 256
 3400 000 68000 6600 264
 3500 000 70000 6800 272
 3600 000 72000 7000 280
 3700 000 74000 7200 288
 3800 000 76000 7400 296
 3900 000 78000 7600 304
 4000 000 80000 7800 312
 4100 000 82000 8000 320
 4200 000 84000 8200 328
 4300 000 86000 8400 336
 4400 000 88000 8600 344
 4500 000 90000 8800 352
 4600 000 92000 9000 360
 4700 000 94000 9200 368
 4800 000 96000 9400 376
 4900 000 98000 9600 384
 5000 000 100000 9800 392
 5100 000 102000 10000 400
 5200 000 104000 10200 408
 5300 000 106000 10400 416
 5400 000 108000 10600 424
 5500 000 110000 10800 432
 5600 000 112000 11000 440
 5700 000 114000 11200 448
 5800 000 116000 11400 456
 5900 000 118000 11600 464
 6000 000 120000 11800 472
 6100 000 122000 12000 480
 6200 000 124000 12200 488
 6300 000 126000 12400 496
 6400 000 128000 12600 504
 6500 000 130000 12800 512
 6600 000 132000 13000 520
 6700 000 134000 13200 528
 6800 000 136000 13400 536
 6900 000 138000 13600 544
 7000 000 140000 13800 552
 7100 000 142000 14000 560
 7200 000 144000 14200 568
 7300 000 146000 14400 576
 7400 000 148000 14600 584
 7500 000 150000 14800 592
 7600 000 152000 15000 600
 7700 000 154000 15200 608
 7800 000 156000 15400 616
 7900 000 158000 15600 624
 8000 000 160000 15800 632
 8100 000 162000 16000 640
 8200 000 164000 16200 648
 8300 000 166000 16400 656
 8400 000 168000 16600 664
 8500 000 170000 16800 672
 8600 000 172000 17000 680
 8700 000 174000 17200 688
 8800 000 176000 17400 696
 8900 000 178000 17600 704
 9000 000 180000 17800 712
 9100 000 182000 18000 720
 9200 000 184000 18200 728
 9300 000 186000 18400 736
 9400 000 188000 18600 744
 9500 000 190000 18800 752
 9600 000 192000 19000 760
 9700 000 194000 19200 768
 9800 000 196000 19400 776
 9900 000 198000 19600 784
 10000 000 200000 19800 792
 10100 000 202000 20000 800
 10200 000 204000 20200 808
 10300 000 206000 20400 816
 10400 000 208000 20600 824
 10500 000 210000 20800 832
 10600 000 212000 21000 840
 10700 000 214000 21200 848
 10800 000 216000 21400 856
 10900 000 218000 21600 864
 11000 000 220000 21800 872
 11100 000 222000 22000 880
 11200 000 224000 22200 888
 11300 000 226000 22400 896
 11400 000 228000 22600 904
 11500 000 230000 22800 912
 11600 000 232000 23000 920
 11700 000 234000 23200 928
 11800 000 236000 23400 936
 11900 000 238000 23600 944
 12000 000 240000 23800 952
 12100 000 242000 24000 960
 12200 000 244000 24200 968
 12300 000 246000 24400 976
 12400 000 248000 24600 984
 12500 000 250000 24800 992
 12600 000 252000 25000 1000
 12700 000 254000 25200 1008
 12800 000 256000 25400 1016
 12900 000 258000 25600 1024
 13000 000 260000 25800 1032
 13100 000 262000 26000 1040
 13200 000 264000 26200 1048
 13300 000 266000 26400 1056
 13400 000 268000 26600 1064
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 13600 000 272000 27000 1080
 13700 000 274000 27200 1088
 13800 000 276000 27400 1096
 13900 000 278000 27600 1104
 14000 000 280000 27800 1112
 14100 000 282000 28000 1120
 14200 000 284000 28200 1128
 14300 000 286000 28400 1136
 14400 000 288000 28600 1144
 14500 000 290000 28800 1152
 14600 000 292000 29000 1160
 14700 000 294000 29200 1168
 14800 000 296000 29400 1176
 14900 000 298000 29600 1184
 15000 000 300000 29800 1192
 15100 000 302000 30000 1200
 15200 000 304000 30200 1208
 15300 000 306000 30400 1216
 15400 000 308000 30600 1224
 15500 000 310000 30800 1232
 15600 000 312000 31000 1240
 15700 000 314000 31200 1248
 15800 000 316000 31400 1256
 15900 000 318000 31600 1264
 16000 000 320000 31800 1272
 16100 000 322000 32000 1280
 16200 000 324000 32200 1288
 16300 000 326000 32400 1296
 16400 000 328000 32600 1304
 16500 000 330000 32800 1312
 16600 000 332000 33000 1320
 16700 000 334000 33200 1328
 16800 000 336000 33400 1336
 16900 000 338000 33600 1344
 17000 000 340000 33800 1352
 17100 000 342000 34000 1360
 17200 000 344000 34200 1368
 17300 000 346000 34400 1376
 17400 000 348000 34600 1384
 17500 000 350000 34800 1392
 17600 000 352000 35000 1400
 17700 000 354000 35200 1408
 17800 000 356000 35400 1416
 17900 000 358000 35600 1424
 18000 000 360000 35800 1432
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 18200 000 364000 36200 1448
 18300 000 366000 36400 1456
 18400 000 368000 36600 1464
 18500 000 370000 36800 1472
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 18800 000 376000 37400 1496
 18900 000 378000 37600 1504
 19000 000 380000 37800 1512
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 20200 000 404000 40200 1608
 20300 000 406000 40400 1616
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 20500 000 410000 40800 1632
 20600 000 412000 41000 1640
 20700 000 414000 41200 1648
 20800 000 416000 41400 1656
 20900 000 418000 41600 1664
 21000 000 420000 41800 1672
 21100 000 422000 42000 1680
 21200 000 424000 42200 1688
 21300 000 426000 42400 1696
 21400 000 428000 42600 1704
 21500 000 430000 42800 1712
 21600 000 432000 43000 1720
 21700 000 434000 43200 1728
 21800 000 436000 43400 1736
 21900 000 438000 43600 1744
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 22200 000 444000 44200 1768
 22300 000 446000 44400 1776
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 22600 000 452000 45000 1800
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 22900 000 458000 45600 1824
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 23200 000 464000 46200 1848
 23300 000 466000 46400 1856
 23400 000 468000 46600 1864
 23500 000 470000 46800 1872
 23600 000 472000 47000 1880
 23700 000 474000 47200 1888
 23800 000 476000 47400 1896
 23900 000 478000 47600 1904
 24000 000 480000 47800 1912
 24100 000 482000 48000 1920
 24200 000 484000 48200 1928
 24300 000 486000 48400 1936
 24400 000 488000 48600 1944
 24500 000 490000 48800 1952
 24600 000 492000 49000 1960
 24700 000 494000 49200 1968
 24800 000 496000 49400 1976
 24900 000 498000 49600 1984
 25000 000 500000 49800 1992
 25100 000 502000 50000 2000
 25200 000 504000 50200 2008
 25300 000 506000 50400 2016
 25400 000 508000 50600 2024
 25500 000 510000 50800 2032
 25600 000 512000 51000 2040
 25700 000 514000 51200 2048
 25800 000 516000 51400 2056
 25900 000 518000 51600 2064
 26000 000 520000 51800 2072
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 26200 000 524000 52200 2088
 26300 000 526000 52400 2096
 26400 000 528000 52600 2104
 26500 000 530000 52800 2112
 26600 000 532000 53000 2120
 26700 000 534000 53200 2128
 26800 000 536000 53400 2136
 26900 000 538000 53600 2144
 27000 000 540000 53800 2152
 27100 000 542000 54000 2160
 27200 000 544000 54200 2168
 27300 000 546000 54400 2176
 27400 000 548000 54600 2184
 27500 000 550000 54800 2192
 27600 000 552000 55000 2200
 27700 000 554000 55200 2208
 27800 000 556000 55400 2216
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 28100 000 562000 56000 2240
 28200 000 564000 56200 2248
 28300 000 566000 56400 2256
 28400 000 568000 56600 2264
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 28700 000 574000 57200 2288
 28800 000 576000 57400 2296
 28900 000 578000 57600 2304
 29000 000 580000 57800 2312
 29100 000 582000 58000 2320
 29200 000 584000 58200 2328
 29300 000 586000 58400 2336
 29400 000 588000 58600 2344
 29500 000 590000 58800 2352
 29600 000 592000 59000 2360
 29700 000 594000 59200 2368
 29800 000 596000 59400 2376
 29900 000 598000 59600 2384
 30000 000 600000 59800 2392
 30100 000 602000 60000 2400
 30200 000 604000 60200 2408
 30300 000 606000 60400 2416
 30400 000 608000 60600 2424
 30500 000 610000 60800 2432
 30600 000 612000 61000 2440
 30700 000 614000 61200 2448
 30800 000 616000 61400 2456
 30900 000 618000 61600 2464
 31000 000 620000 61800 2472
 31100 000 622000 62000 2480
 31200 000 624000 62200 2488
 31300 000 626000 62400 2496
 31400 000 628000 62600 2504
 31500 000 630000 62800 2512
 31600 000 632000 63000 2520
 31700 000 634000 63200 2528
 31800 000 636000 63400 2536
 31900 000 638000 63600 2544
 32000 000 640000 63800 2552
 32100 000 642000 64000 2560
 32200 000 644000 64200 2568
 32300 000 646000 64400 2576
 32400 000 648000 64600 2584
 32500 000 650000 64800 2592
 32600 000 652000 65000 2600
 32700 000 654000 65200 2608
 32800 000 656000 65400 2616
 32900 000 658000 65600 2624
 33000 000 660000 65800 2632
 33100 000 662000 66000 2640
 33200 000 664000 66200 2648
 33300 000 666000 66400 2656
 33400 000 668000 66600 2664
 33500 000 670000 66800 2672
 33600 000 672000 67000 2680
 33700 000 674000 67200 2688
 33800 000 676000 67400 2696
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 34000 000 680000 67800 2712
 34100 000 682000 68000 2720
 34200 000 684000 68200 2728
 34300 000 686000 68400 2736
 34400 000 688000 68600 2744
 34500 000 690000 68800 2752
 34600 000 692000 69000 2760
 34700 000 694000 69200 2768
 34800 000 696000 69400 2776
 34900 000 698000 69600 2784
 35000 000 700000 69800 2792
 35100 000 702000 70000 2800
 35200 000 704000 70200 2808
 35300 000 706000 70400 2816
 35400 000 708000 70600 282



How FLI splits rasters



(with character colours blue and red for example)

(with character colours yellow and grey for example)



Right - this is very much out of scale, but it's a representation, okay. Right is the screen with the raster moving down. Right here is some character bits, and the next line contains a character that can split a screen map from different parts of memory (shown)

COLOUR ME BAD PART 2

In last month's feature on creating new colours on your C64 we glibly mentioned a method called FLI. This month Russ Michaels explains what this little baby can do for you...

Flashing for Horizontal Line Interleave and the somewhat odd-sounding idea to use more colour per character beyond pixels. It's described simply as follows:

When you have a screen you are allowed to store three lines of character position (in the background).

Good. What this allows means not only the possibility of scrolling to see what's under the pixels, but an...

Why not? Well, we explained that last month and you're not going through it all again, are you? Don't get back into it, now. So just assume your main character attribute of different bit-values, but enter a bit value that will...

From now on we'll be talking about scrolling through memory by...

WHAT'S A RASTER, THEN?

For those of you that don't know a raster is not a black box with doublets, but the horizontal line, one pixel high. But actually to be able to scan the screen updating the display. The way that the screen is raster graphics (GEM, the bitmap in GEM), and any alterations you make to the screen variables will be effective from the position you stop the raster.

If you have ever seen a computer on television you will have seen the raster flicking down the screen. It looks like the moving slowly and as if it is a line the width of the screen. But in fact it is moving incredibly fast down the screen and moves from left to right (the screen is created by the same effect) that makes when you look like they are moving backwards sometimes on television.

What FLI does is split the screen in many raster. On each split it loads the screen in many parts of memory. So because there are eight lines to each character, eight different screens can be used.

AND WHAT GOOD IS THAT?

Because colours are not too often stored on the screen (as seen normally), changing the screen's location means that different colours for one and for can be stored in those different screen locations. The normal screen is from \$0400 to \$0500 (1024 bytes) and the raster map is \$8000. The colour map conversion is on colour lines must always remain the same in all files. So the screen can be moved to other locations in memory, and as each screen location holds two colours, by changing the screen in each pixel line you get all 16 colours in one character (two per line).

So what normally happens is that the raster moves along the top line of the screen and then along the screen's full memory. When it gets to the next line, it scrolls another screen in another part of memory which has two different colours. The same thing can happen up to eight times, with the raster moving that all 16 colours can be used in the screen (the raster map under that is a raster to split pixels in eight pixels and the raster is one pixel high. See Fig 1).

The raster can only be split horizontally, though to give a raster has been defined the raster has to be small (the raster has only eight pixels, for screen).

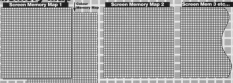
So if you use three colours (two of them you can define) you have three colours (two of them you can define) and a raster of two colours (two of them you can define).

Because FLI, you can have more different sets of three colours. This is a normal technique for many, with scrolling when it is not possible to scroll with it and a few other colours.

Screen Memory Map

The Colour Memory Map represents a character, but using this up to eight different colours. Memory Maps, each containing different character colours, can be defined and moved over the top of the Screen Memory Map.

Screen Memory Map ...





GAMEBUSTERS

WIZARD'S PET



Double, double, toil and trouble. Yep, being a Wizard's apprentice is quite a formidable task, especially if you happen to be a small amorphous green blob. Thankfully, Andy Roberts knows the secrets.



THE GAME

In case you're wondering what the heck you're supposed to do, here is a brief overview: as the Wizard's apprentice, it seems you've missed a little. The aim of each level is to collect three magical objects: a POTION, a SCROLL, and a SPINAC. As you can only carry one object at a time, you need to take the objects to the teleporter (a small rectangular platform) individually. Once the final object has been teleported, you can whisk off to the next level via the sub-game.

It's worth noting that you can hover above the ground as you jump—by repeatedly tapping the joystick upwards (Direction keys).

LEVEL 1

LEVEL 1

This is the ideal time to familiarize yourself with the game, the control system and the various annoying little quips. The first point to note is that if you fall off the bottom of the screen, you re-appear at the top. Sounds good in theory, at least. This first level is surprisingly tricky, but don't let that put you off. Grab the SPINAC from the far right initially, then the POTION, and finally the SCROLL. The teleporter is a little awkward to get to, especially for first timers.

LEVEL 2

Strangely, this level is much easier than the previous one (and getting to the teleporter is a cinch). You'll probably have noticed that the attack moves back to intelligence, and moves in a very linear fashion — keep the trigger finger ready, as before, collect the furthest object first (in this case, the SPINAC), followed by the POTION and the SCROLL. Some objects won't appear on the screen when you start the level — you'll need to walk off the screen and come back on.

LEVEL 2

Double, double, toil and trouble

LEVEL 3

LEVEL 3

This level contains quite a few tricky traps and items, and there are some very awkward platforms to negotiate in order to collect the SPINAC at the far right of the level. Again, it is important to keep being at all times, as the alien onslaught never lets up. The teleporter is situated underneath the start position (at the far left), and requires some pretty precise jumping to reach. Once you've returned the spinig, collect the POTION and the SCROLL, as before.

LEVEL 4

The most notable thing about this level is the platform, or rather, the lack of them. If you're not good at long-distance jumps, this one will be almost impossible. Items can be collected by falling off the bottom of the screen, but others demand frantic joystick-wiggling. The teleporter, as before, is under the start position, and is fairly easy to reach by dropping off the bottom of the screen. Collect the objects in the same order as before, being care when you collect the POTION.

LEVEL 4

THE SUB-GAME

There's nothing unduly complicated about this little part of the game. It's basically just an opportunity to catch insects and insects of bonus points by the repeated deflection of the floating bodies of the approaching insectoid alien bourgeoisie (if other words, *blast anything that moves - Down*). Er, yes, just blast anything that moves. Sorry, Gars.

You won't lose energy by crashing into the aliens, and your HOCUS level merely ticks away to add as a time limit. So simply fly back and forth and blast the aliens until the time runs out - the more you fly, the more points you get. And what do points make? Well, sharp points make holes in things... you're looking... (Gars)



WIZARD TIPS

If that locked level of advice was fairly enough for you, here are a few more tips to help you on your way towards all Wizard Bonus from Gars.

- ▶ Your energy can be refilled at any point during the game by passing and surpassing the game a few times in a row (by using the instant fly).
- ▶ You can't move in change direction during jumping, and neither can you jump straight up, so be very cautious when using your jumps.
- ▶ If you were in Action Replay condition, you can remove obstacles by removing the code to make them invisible - simply use the operator to make any necessary adjustments.

Also Wizard Gars's got lots... Be something like that, you see.

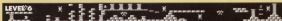


LEVEL 5

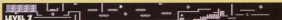
This level is the real test, designed to separate the men from the boys (or the ladies from the apprentices - whichever applies). The SCROLL is fairly easy to collect, and the transporter reasonably straightforward to reach (but so is the SPINAG and POTION). There's a very, very long jump mid-way through the level which will probably take dozens of attempts to cross. And once you've crossed it to collect the POTION, you'll need to do it all again for the SPINAG.

LEVEL 6

After the frenzied wriggling of the previous level, this one's almost calm. At first glance, it appears that the SCROLL is missing, but it's under the start position and doesn't appear at the start of the level. If you go right a couple of screens and then back to the start, the SCROLL will be there - grab it. Then make for the transporter at the far right. It's activated to reach, and needs a bit of alien, rhythmic wriggling. Then collect the POTION and the SPINAG in that order to complete the level.



...the love and another bubble...



LEVEL 7

Another exceedingly awkward level, with more of those tricky, floating jumps out of time and love. The SCROLL is fairly easy to reach, and you should collect it first and return it to the transporter (which, thankfully, is pretty accessible too). However, the POTION and SPINAG are very tricky to reach. In fact, you'll actually need to drop off the bottom of the screen in order to collect the SPINAG (which can be dangerous if your HOCUS level is low).

LEVEL 8

The final level (but a few familiar situations). First, as with level six, the SCROLL is underneath your starting position, but you'll need to exit the screen and re-enter it in order to collect it. As before, it may be necessary to drop off the bottom of the screen in order to progress, indeed this is the only way to collect the POTION. And finally, be extremely cautious when collecting the SPINAG at the far right of the level - if you fall off to the right, you'll be stuck forever. Take care, this robot.



WIZARD'S PET

(password list)

Infants focus is the order of the day, so if you fancy getting to the end of this revamped Mastermind classic why not try in the spell-castering PORE. Note that you still lose your HOCUS on the sub-game, but this is, this, essential for completing the game.

1 000 000000 000 0000 00 000
1 000 0000 00 000 0000 00000 0000

1 00000
1 00 00000 0000 0000 0000 0000
1 0000 000 000 0000 000
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