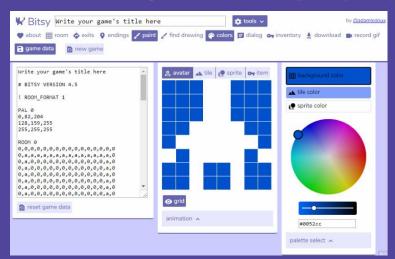
Low-tech by design: using retro tools for green game dev Graphic Adventure Creator as a 1986 Twine ?

Charlotte Courtois
ReAnimate 2024 - Montréal

Two opposite approaches to activist game making : decolonial and eco-feminist methodologies

"The Master's Tools Will Never Dismantle the Master's House"

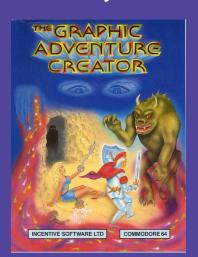
LORDE Audre, "The Master's Tools Will Never Dismantle the Master's House", in *Sister Outsider*, Penguin Books, 2007 [1984], 187p



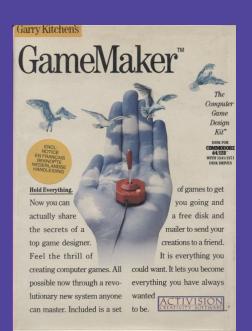
Ecofeminist «reclaim»:

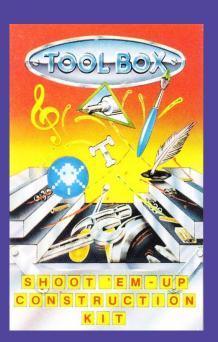
- reappropriation of a place and of a content
- recycling of what's already there
- low-tech



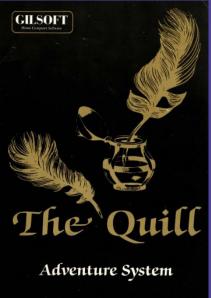


Plenty of game development tools: the C64 (and microcomputing) as a hobbyist game development platform









A hobbyist history based on hobbyist work

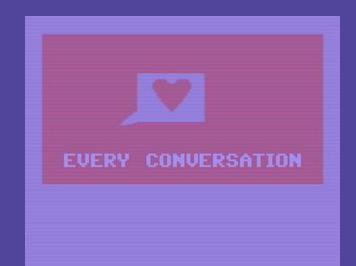
- Archive websites (general or specialised)
- Inventory, playtest for classification, quantitative and qualitative data
- Game development in consequence of the data
- Discovery of anomalies



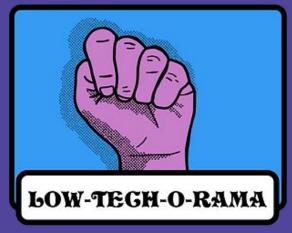
Gamebase64, since 2000, http://gamebase64.com/ Girls of '64, since 1997, http://girls.c64.org/

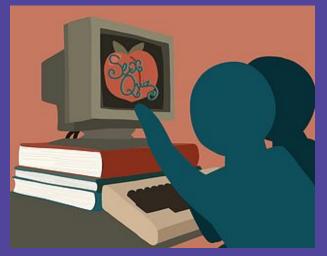












Praxis of microcomputer development with Graphic Adventure Creator

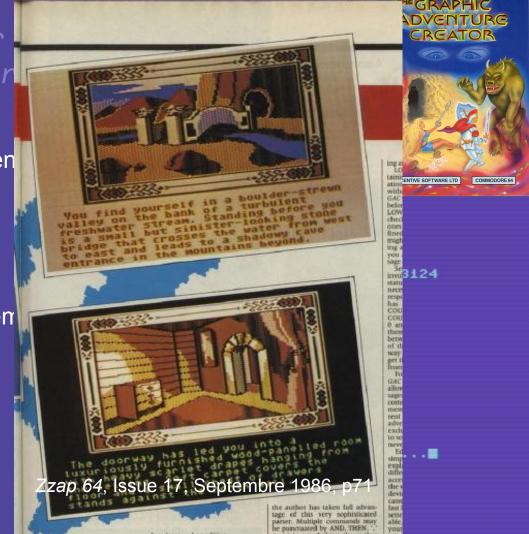
THE GRAPHIC ADVENTURE CREATOR

- *Graphic Adventure Creator*, Incentive Software, 1986
 - text adventure games
 - for a hobbyist / amateur audience
 - possibility to add visuals
- Developed by Sean Ellis in assembly language
 - goal to make game development accessible
- Guides in magazines

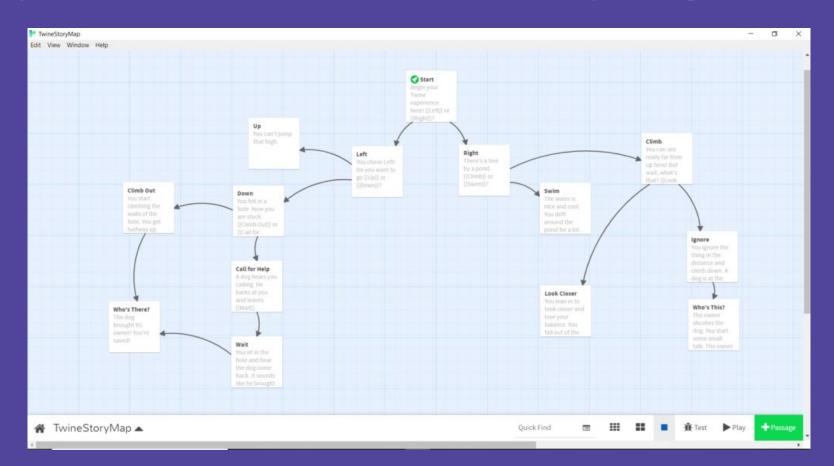


Praxis of microcomputer Graphic Adventure Creator

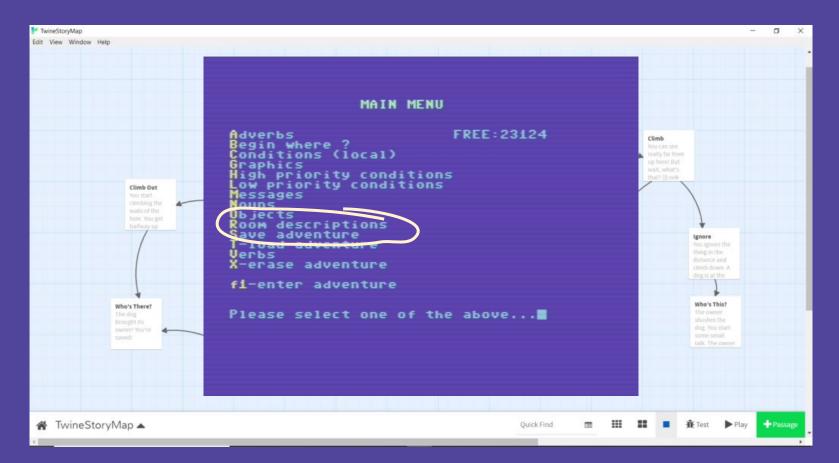
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A parallel with Twine: rooms and passages

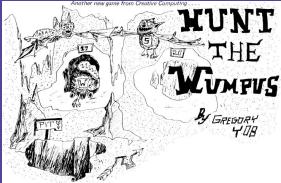


A parallel with Twine: rooms and passages



Spatial approach to text adventures

- Rooms are the building block of adventure games
 - a room is the spatial unit, but it doesn't have to be an actual room
 - players type the direction they want to go from one room to the next (can be N, S, E, W, up, down, left, right...)
- Genre built for exploration, object picking, doors unlocking...
 - not a very dynamic gameplay



The Genesis of Wumpus

Two years age I happened by People's Computer Company (PCC) and say some of their comparter games—such as Hurkle, Snark, and Mugeumn. My reaction was: "ECEHII" Each of these games was based on a 10 x 10 grid in Cartesian co-ordinates and three of them was too much or me. I started to think along the lines of: "There has to be a hide and seek computer game without that (exp. the computer game and the seek computer game without that proposed control of the computer game is a set of points connected in some way and the player moves about the set via the interconnection."

That afternoon in meditation the phrase "Hunt the Wimpun" arrived, and Wumpus was born. He's still a bit vague in physical detail as most dedicated Wumpus hunters know, but appearances are part of the game. (If you like, send me a picture of your version of a Wumpus. Perhaps friendly Dave, our editor, will publish the best one in Cestive Computing.) The grid I chose was the vertices of a cold and cone, ages ago, I made a site happed like one. The edges became the connecting tunnels between the caves which were the set of points for the game.

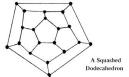
My basic idea at this time was for the player to approach the Wumpus, back off, and come up to him by going around the dodecahedron. To my knowledge, this has never happened . . . most players adopt other strategies rather than this cold-blooded approach.

Anyway . . . how to get the Wumpus! How about an arrow which could turn corners as it goes from room to com. Let the hunter tell the arrow where to go and let it fly. The shortest round trip without reversals is 5 caves — and thus the Crooked Arrow.

Hmmm . . . How does one sense the Wumpus? It's dark in yonder cave, and light would wake him up. If one got one cave away, the wumpus's distinct smell would serve as a warning. So far, so good . . . but Wumpus is still too easy, so let's find some appropriate hazards for the caves.

Bottomless pits were easy. Any imaginary cave woult have a few of those around the place. Superbats were harder to come by. It took me a day or two to get that idea. The Superbats are a sort of rapid transit system gone little batty (sorry about that one). They take you a randon distance to a random cave and leave you there. If that's : pit or a Wumpus, well, you are in Fate's hands.

Around this time, I saw that Map-making would be a regular activity of Wumpus-hunters. I numbered the caves and made the scheme fixed in the hopes a practised player might notice this and make himself a permanent map of the caverns. (Another unrealised hope — as an exercise, make yourself such a map on a Squashed Dodecahedron).

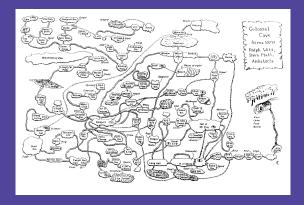


To start the game fairly, Wumpus, Hazards, and Hunter are located on different points at the start of the game Each game starts with random choices of location, but the harm may restart with the same set-up if he chooses. This allows re-plays if the hunter, say, fell into a pit on the first

Wumpus was nearly done in my mind... (hint to a games-writer: Have a clear notion of your game before you

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Hunt the Wumpus (Yob, 1974) guide and map



Adventure (Crowther and Woods, 1976-79) map

"YOU ARE STANDING AT THE END OF A ROAD BEFORE A SMALL BRICK BUILDING.

AROUND YOU IS A FOREST. A
SMALL STREAM FLOWS OUT OF
THE BUILDING AND

DOWN A GULLY."

GAC Stats: 256 units of data (8 bits or 1 octet)

- 256 rooms
 - 256 characters
- 256 verbs (possible synonyms)
- 256 nouns
- 256 messages
- ...

- Documentation available
 - official manuals
 - non-official manuals
 - magazine creation guides
 - interview with creator

THE GAC ADVENTURE WRITERS HANDBOOK



CONTENTS

How to write a good Adventure What is a Condition? Markers Counters 11 Diagnostics Screen 15 Text Graphics 19 Advanced Commands 20 23 Advanced use of Conditions Multiple Loading Techniques Error Messages Errata Information 28 Amstrad Hints & Tips 30 BBC Hints & Tips 35 38 Commodore Hints & Tips Spectrum Hints & Tips Adventure Clubs & Magazines



University of Calgary

PRISM: University of Calgary's Digital Repository

Science

Science Research & Publications

2016-08-19

Interview with Sean Ellis re: Graphic Adventure Creator



Toolkit to make a GAC game

- A rom of GAC
 - csdb.dk
- Your favorite C64 emulator
 - I use Vice
- Your favorite spreadsheet
 - with a function counting your characters
- A sheet of paper

Picture by Ian Andrew

to be rescued.

The aliens on each level come progressively more elligent and will deplete ar power if they touch you. on't touch me, you nasty n!) The landscape of each al also becomes increasy more difficult and ardous to negotiate.

he game is far more plex than simply finding r way through a maze. ous pathways are blocked gates. The gates can be ned or closed by passing sensors. If a particular of gate is closed and you over its associated or then it will open. If a is open and you pass its sensor then it will. It is this element of the which makes it far more ng than simply solving a

sator is a fast moving Idictive game, requiring reactions and quick g. It costs £8.95 for the cassette, £12.95 disk.

. Gold ointment

Id are pleased to e the recent appointerry Howells as Prolager for a range of roderbund products unched this year. las over five years e in the

140

Graham Gooch's Test Cricket for the Commodore 128 is the most sophisticated yet of the Graham Gooch range, and has to be the most comprehensive (and ideologically

The GAC Paper Management System

Incentive have just released a Paper Management System, in the form of Designer Pad. Each pad has over 200 double-sided pages of A4 and will aid the development of GAC produced adventures.

The Pad was designed by Tony Stansfield, Robert Ford and Wayne Phillips, and compliments the GAC on all formats.

The GAC Designer Pad retails at £7.95 plus £1.25 towards postage (it actually costs more!), and is available from: Incentive Software Limited, 2 Minerva House, Calleva Park, Aldermaston, Berks. RG7 4QW. Tel: (03356) 77288.

with the back catalogue which be featured on the Americana range and also in a series of compilations. Such America

own teams, at the scoreboard discovered to score the following addinguished the following addinguished to speech; nine built-in squads with hongraphics; two player a mode; more control ow bowler; practice mode, replays; and extra somessages.

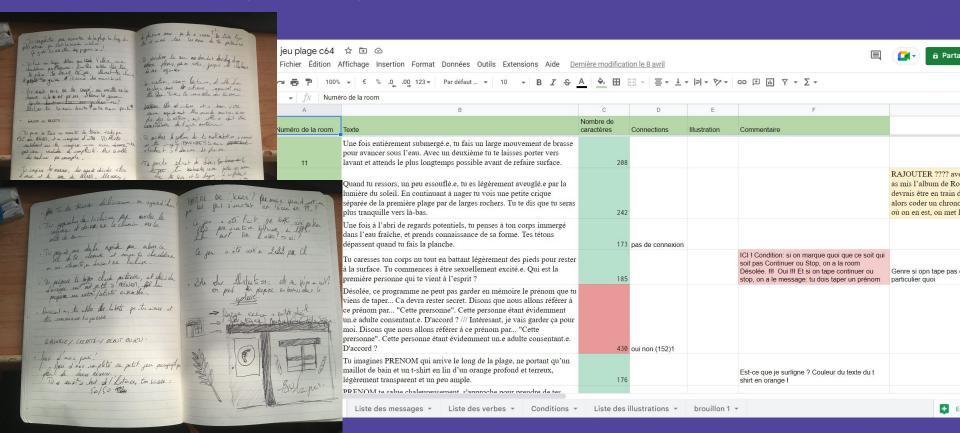
Test squads includ England, Australia, Indies, New Zealand Pakistan and Sri Lanka Africa is, of course cotted), plus a World picked from the cr current worldwide cr talent, and an All-Time made up of past and cricketing greats lik Grace and Don B The attention to deta that, instead of havir one a uniform shade black and coloured are depicted on so such.

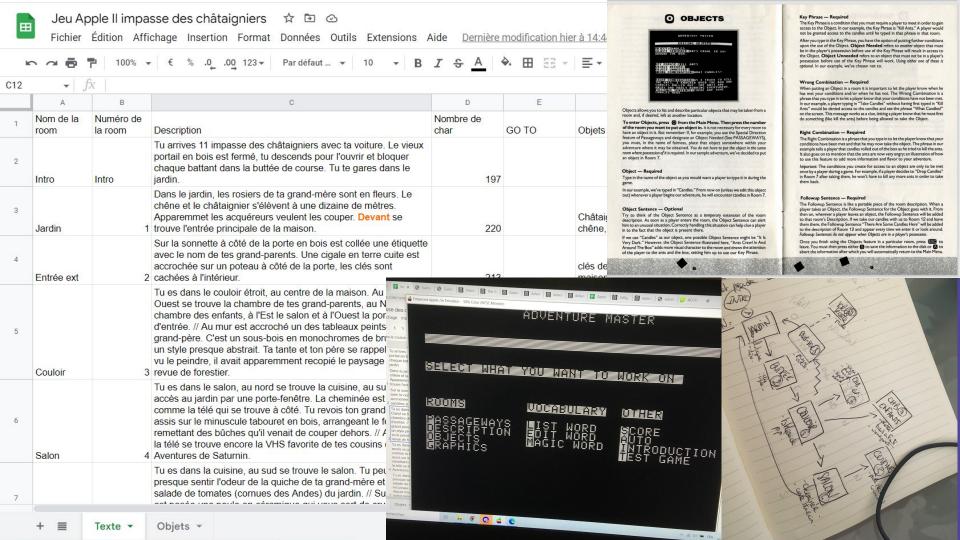
Two players can simultaneously ir mode, with joystic over the batsman ar Gameplay has be

150 Years

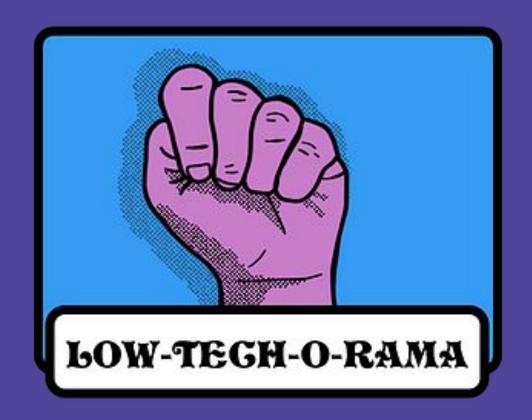
"Sir Isaac Pitm great-great-grand Pitman, feels right with computers

Game development process





Let's take a look!



LeGACy Code: Studying How (Amateur) Game Developers Used Graphic Adventure Creator

Table 1: Game image elements, aggregate statistics

| | Min | Max | Mean | Median | Un baiser d'eau salée | Did you just |
|----------|-----|-----|-------|--------|--------------------------|--------------|
| nouns | 1 | 134 | 57.6 | 55.5 | 0 | 20 |
| verbs | 1 | 160 | 71.3 | 68.5 | 7 | 43 |
| adverbs | 0 | 43 | 4.3 | 2.0 | 0 | 0 |
| messages | 17 | 248 | 114.4 | 115.0 | 15 | 70 |
| rooms | 2 | 149 | 50.2 | 46.5 | 62 | 21 |
| objects | 0 | 95 | 27.3 | 20.5 | 0 | 0 |
| pictures | 0 | 116 | 16.3 | 13.5 | 0 | 0 |

From AYCOCK John and Katie Biittner, "LeGACy Code: Studying How (Amateur) Game Developers Used Graphic Adventure Creator", FDG '20: International Conference on the Foundations of Digital Games. 2020.