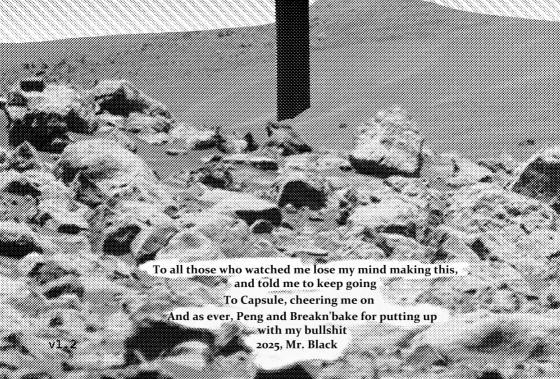
YOU HATE HIM

It means something. M.U.L.E. Multiple Use Labor Element. Everyone expected him to be perfect for planet pioneering. Mining, farming and general hauling capabilities- he could do it all.

It was the unexpected stuff, however, that made a M.U.L.E. a M.U.L.E.

He was born - if you can call it that - in an underground lab in the Pacific Northwest. A major defense contractor had gone out of its way to get the job and they were stoked.

Stoked, that is, until the detailing robots went out on strike. Costs ran over. Senators screamed. And when the dust had cleared, the job was finished by a restaurant supply firm, a maker of pre-school furniture, and the manufacturers of a popular electric toaster.



YOU NEED HIM

No one quite knows how it is that a M.U.L.E. is able to record intergalactic phone messages. Or why he can be used to cook simple dinners. Or how he pulls in a ballgame broadcast,

Above all, no one ever dreamed that he would go berserk and anywhere in the universe.

run away if treated carelessly.

No one expected that, to be sure. But you've got a planet to settle. And for now, he's all you've got.

Good Luck, you'll need it.

...But even as pundits proclaim the passing of the video game, a bunch of guys living in Arkansas have been busy writing a program that may revitalize the industry. It ought to make them rich anyway.

-Leo Laporte, Hi-Res Magazine, 1984



In the late 70's, Computers were getting smaller.

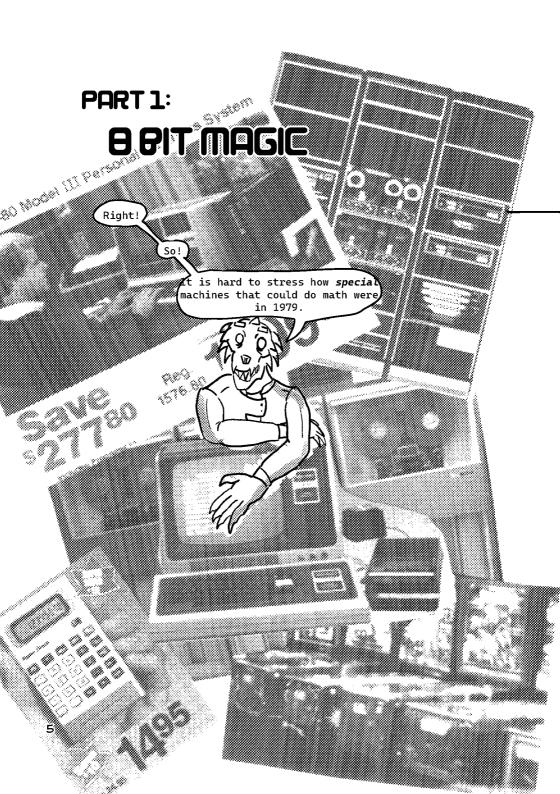
But small is relative.

A machine that once took up a building, could now be made to be something that took up the size of a refrigerator.

The relentless advance of progress were making them yet smaller.

If you valued it enough,
If you were living on the bleeding edge,
If you had the capital,

You could even bring one home...







He had once released a game for the Apple II called Wheeler Dealers.

It didn't sell that well, even for the niche market of the time.

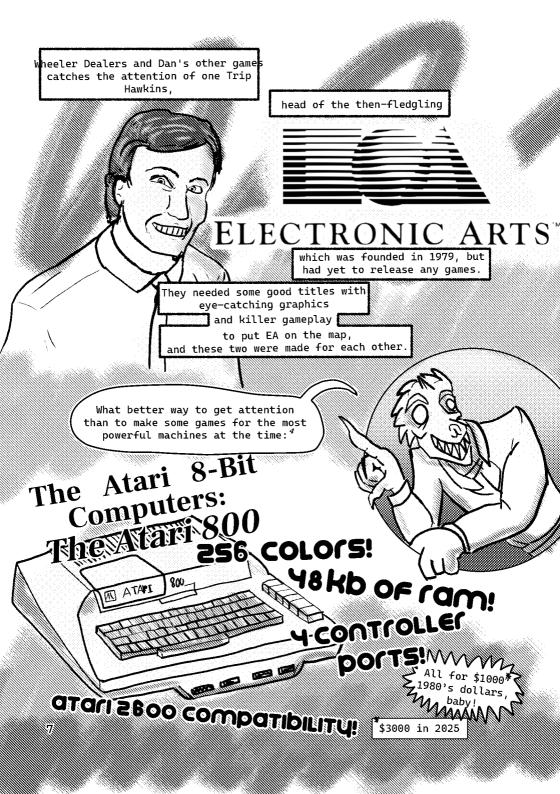
with a special controller3

selling for \$35 instead of the normal \$15



... it still made a pretty penny.

> \$35 then is like \$170 today, for what it's worth.



"Wait, EA?" Some of you might be saying, and yeah, same guys. But some clarification:

In the beginning, the group was as much idealistic as they were capitalistic.

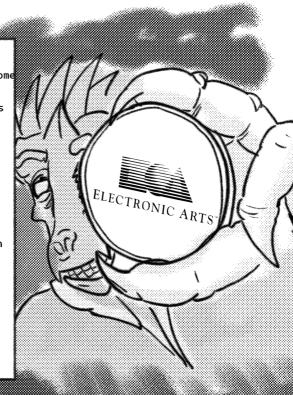
A place for artists, it's right in the name.

Made up of refugees from other abusive studios or having shown promise,

this publisher would release many beloved classics for decades, even at their lowest.

Our game, and 5 others, would be the opening salvo to a powerhouse of a game publisher.

I bring them up now, to illustrate how much things have changed.





The publisher is now associated with some of the worst capitalism itself can offer S

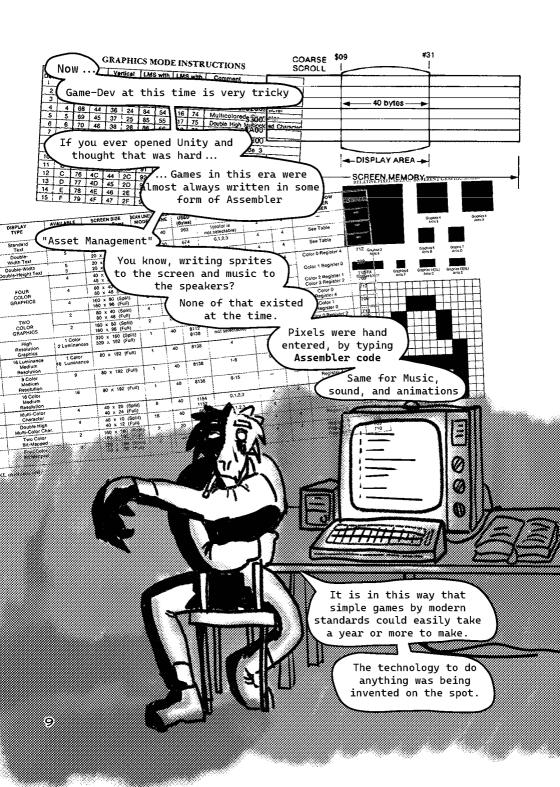
We all think about microtransactions, overwork, and derivative titles at mere mention of their name today.

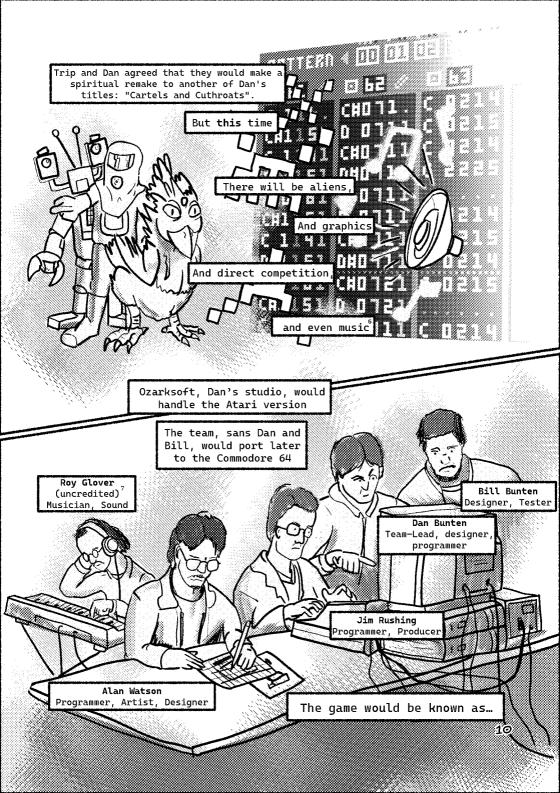
In the 2025 videogame industry layoff bloodbath,

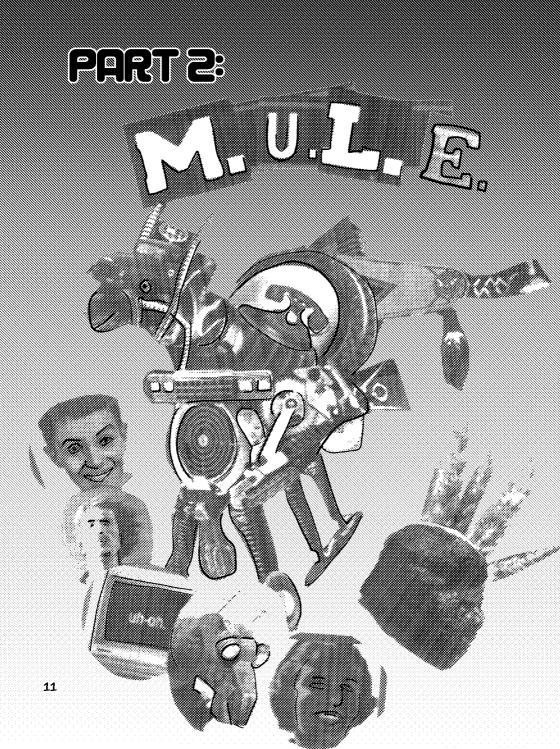
they rank 4th highest in the amount of people they've fired...so far.

But, in this story,

it started with other intentions in mind.



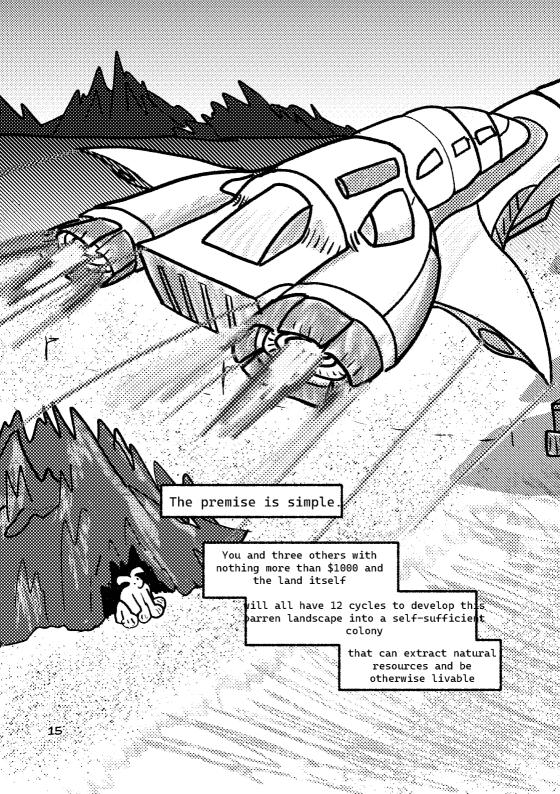


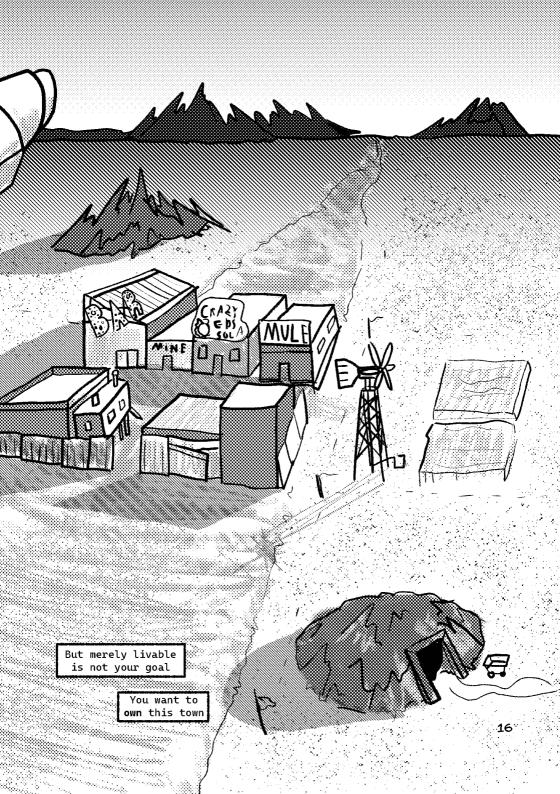


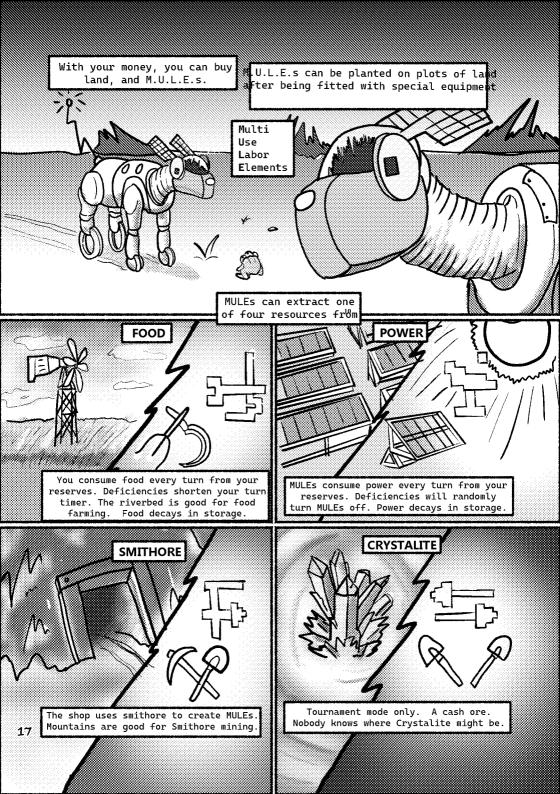


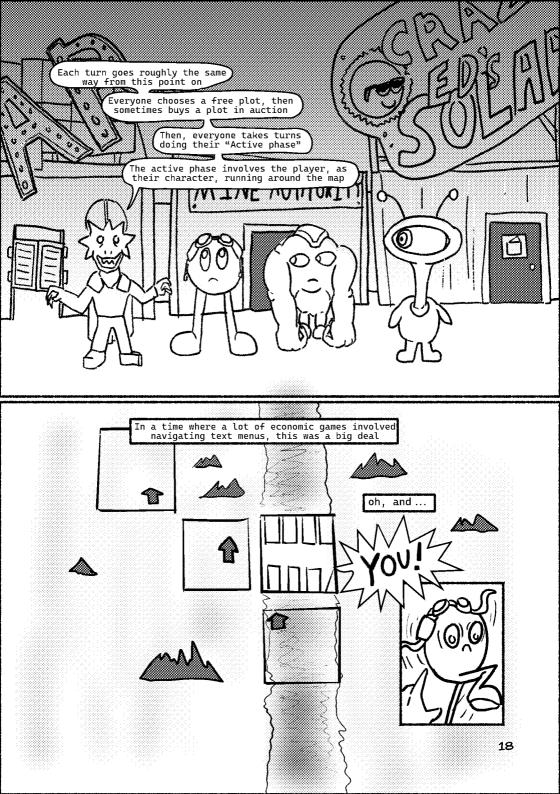




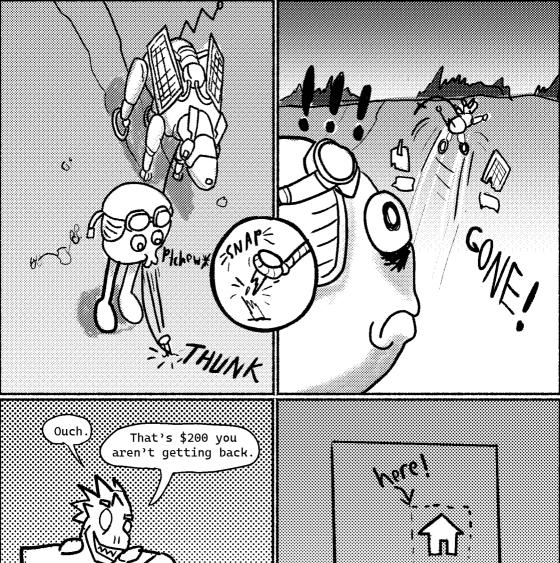


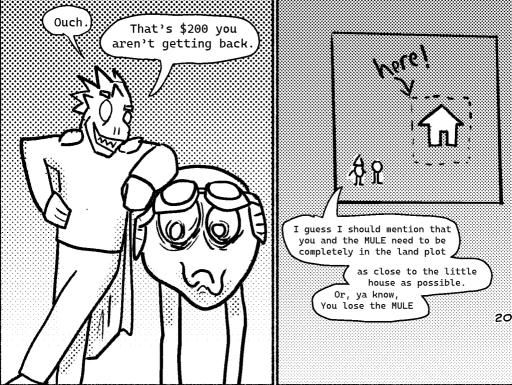


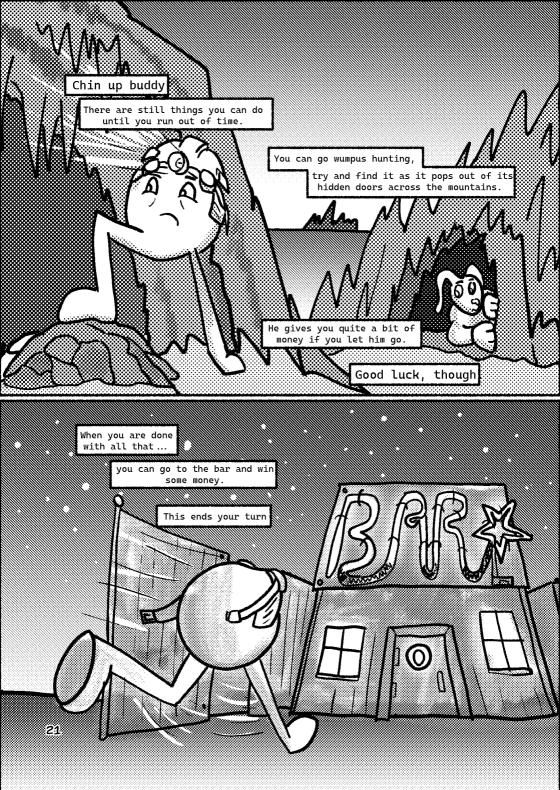


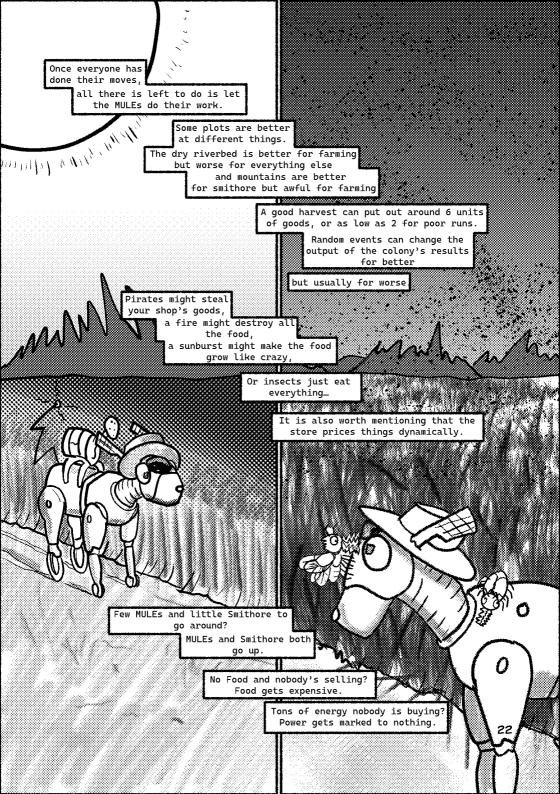










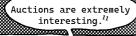




PART2 SECTIONS

THEAUCTION





Instead of looking for a buyer for your item, or someone selling something you want, auctions structures the search

An auction brings lots of interested buyers and sellers together and adjusts the price until the two parties can agree.



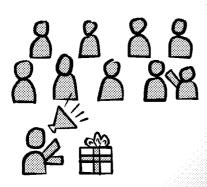


Because there are so many parties involved,

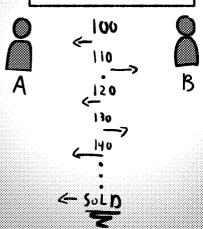
and time is also a currency,

there are specific formats of communicating price and intent.

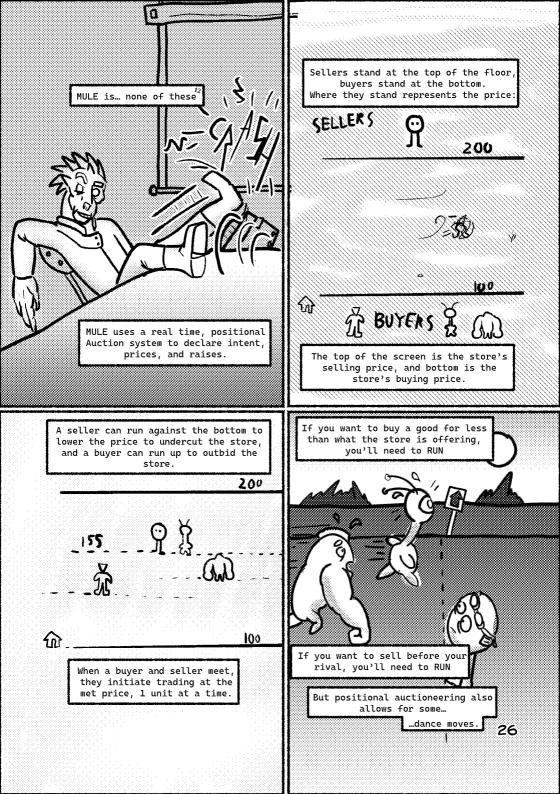
There are a lot of ways to do this.

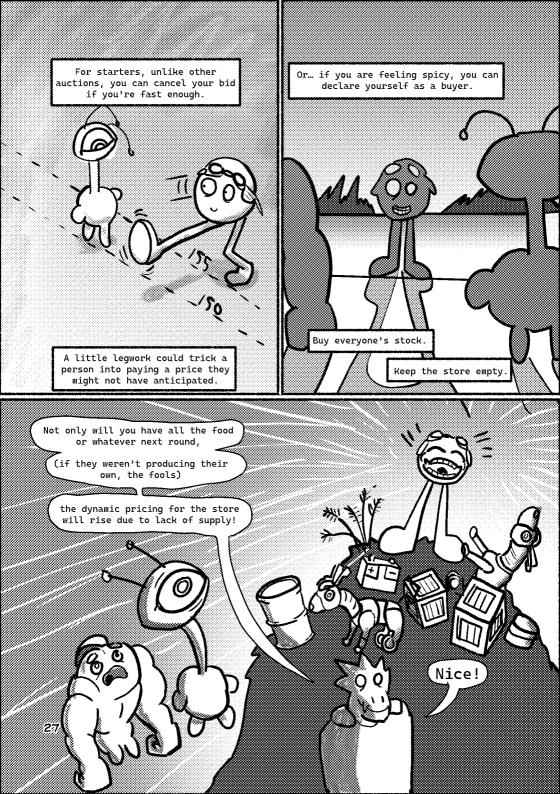


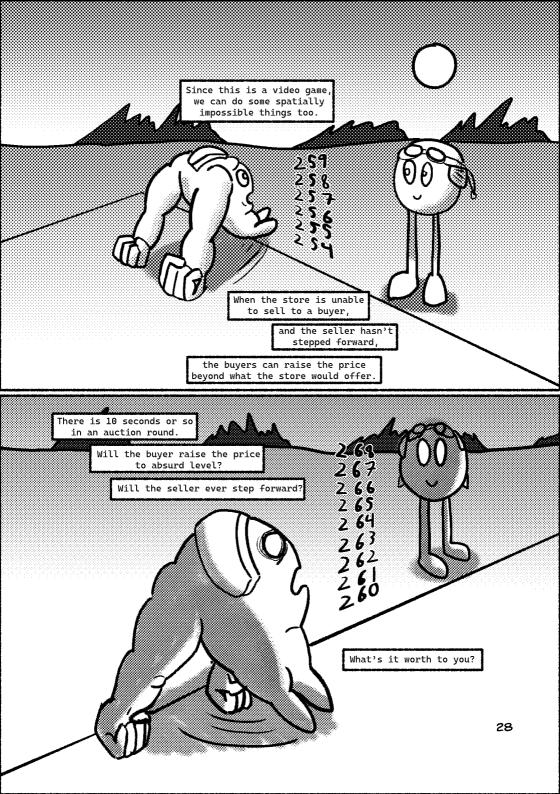
The most famous format is the English Auction, where an auctioneer calls out a price and bidders can claim it. If claimed, the price jumps an interval and someone else may claim that price.



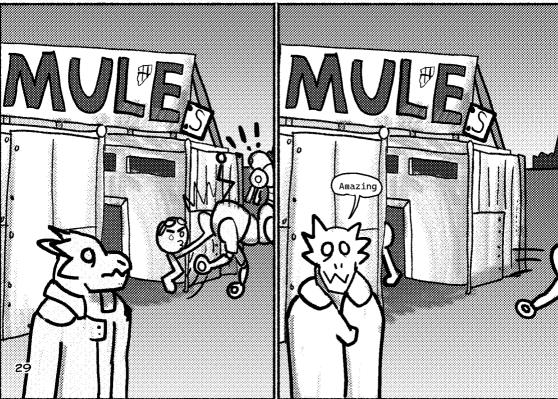
If that price is not claimed after a certain time interval, the last bid is locked in.



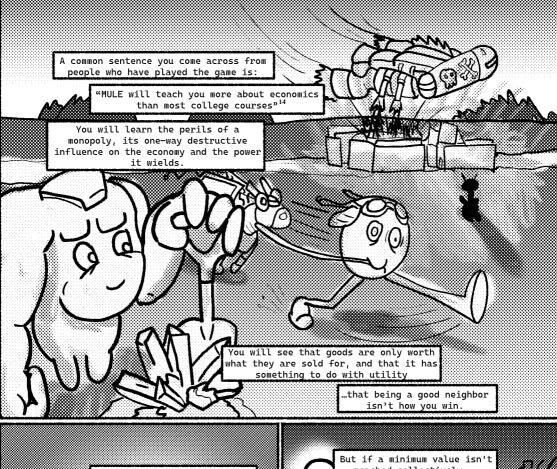


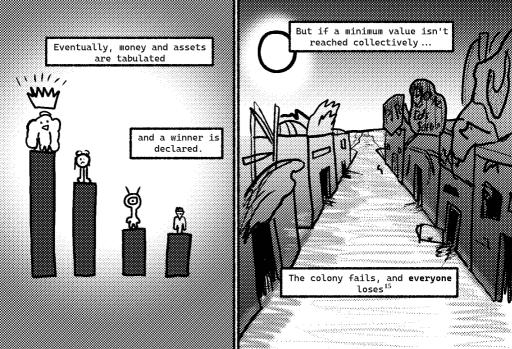
















Additional service available



Dani was a huge advocate for multiplayer in any form, believing that humans brought with them the ultimate challenge, and a richness and dynamism that a computer could not.

In ports of Danielle Bunten Berry's games, single player was usually one of the first features to be streamlined or removed if extra space or time was needed.

In a speech given to GDC in 1997

🔅 ... then the CGDC ...

She espoused the benefits of making games online as inclusive as possible, to let other player's humanity shine through

> and that games centered around winners and losers may not be desirable in the long run.¹⁹

If I may...

She felt that the point of play, in some sense, was other people

She expected a shining future for multiplayer games.



Danielle Berry Bunten would never headline a computer game

Dani's Transition, or more accurately, how people recieved her transition, is often blamed for this outcome

Instead, she took on background roles as a consultant, with public appearances limited to being a speaker at industry gatherings.

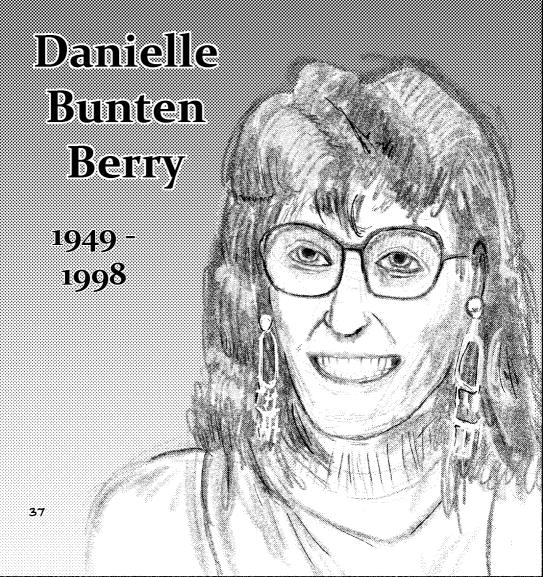
Many of the quotes here are from those speaking engagements.



Danielle Bunten Berry passed away from lung cancer in July of 1998.

She leaves behind three kids.

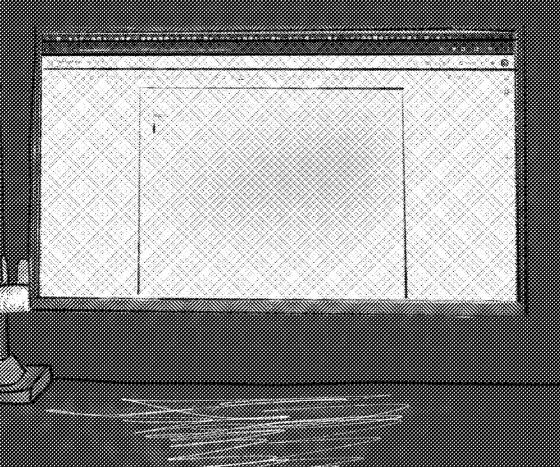
She was just 49 years old.



PPTT4



This will have been the seventh time I've rewritten this part.





This project was supposed to be quick, to be simple.

"Look at this game I know about that you should too!"

But as with the hazard of research projects, you learn more than you anticipate.





For everything I learned, I became slowly overwhelmed with the small little stories I didn't have room to tell

But I also slowly lost sight of why I even bothered to do this exercise at all

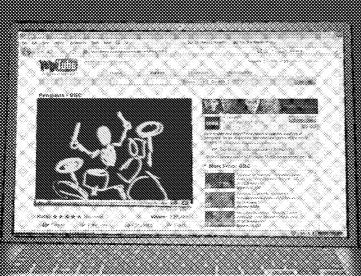
And each rewrite failed to capture what I was feeling

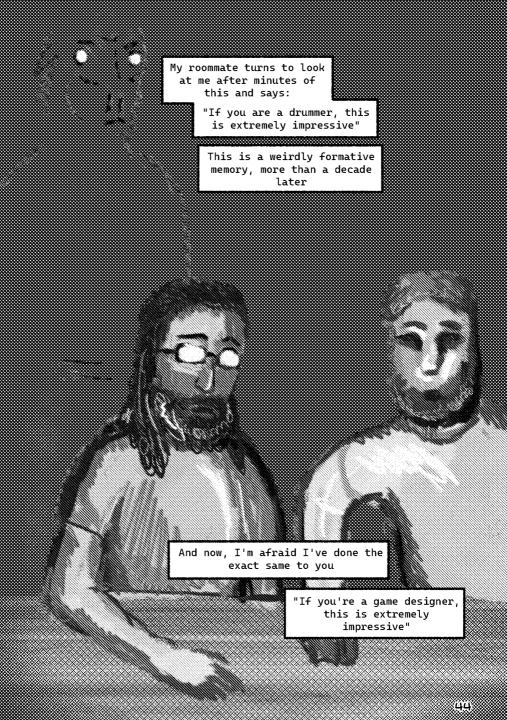
It is now that I remember something \dots

When I was living in the dorms as a freshman in college, I walked into my roommate and one of his buds watching something on youtube

They were watching a man go absolute crazy on a drum-set, making a complete racket, seemingly no rhyme or reason

They were enraptured by the performance.

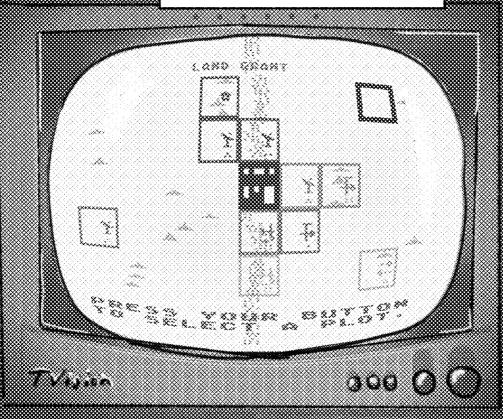




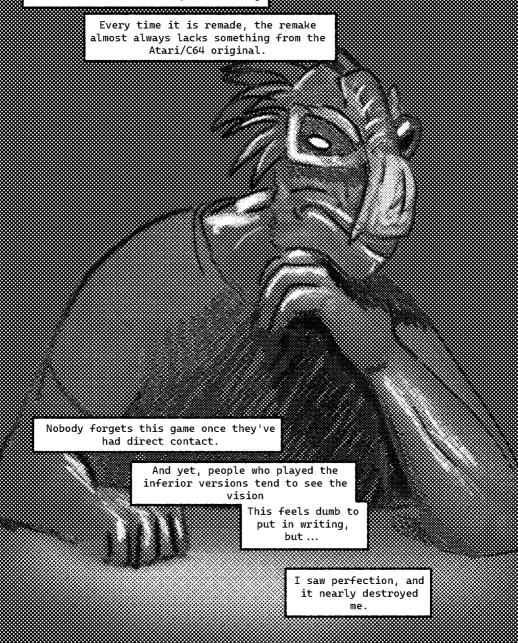
And MULE is a game that looks like THIS

By today's standards, a NES game blows it out of the water. Heck, there was a NES port.

Despite being made 10 years later, that NES version is considered inferior



M.U.L.E. is an almost a perfect thing.



There is so much that I wanted to talk about and simply can't.

Just in rapid fire:

There is a sequel to MULE, allegedly fully formed, in a museum.

It won't be released until 2060 unless something changes.



MULE is called out all the time with those with eyes to look

> The most obvious ones are in SPORE

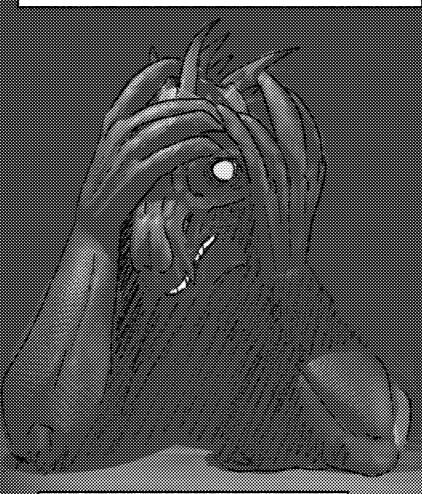
Offworld Trading Company Roblox

and most recently

Deep Rock Galactic

Roy Glover had a very interesting and varied career, alternating between a musician, programmer, and full-out game-maker.

The sega-genesis version I mentioned is also allegedly finished, in a locked glass case in EA's headquarters.



These things, and much more, fall away now

In every re-write, one detail always survives:

I: When did you first realize that "M.U.L.E." was something special?



Of the 9 months of development, something like 7 of those months was playtesting with local computer clubs

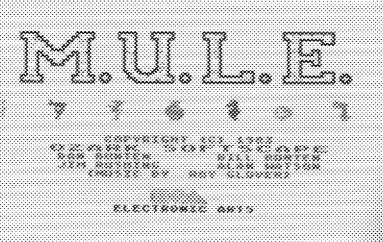


I kind of get it, I really do

> Artists are in it for the creating, and when it's done, they aren't creating anymore

> > and if they stop creating, they die.

So they move on to the next thing



If you made something perfect, some part of you has to believe that it isn't.

because you need to believe the next thing you make matters

Almost 50 pages in and 40 years later

lets just take a second to do what Dani could not

and appreciate a nearly perfect thing. Here is a cool video game.

I think you might like it.

No one on their death bed says:
'I wish I'd spent more time with my computer!'

- Danielle Bunten Berry

(Electronic Arts is) an association of electronic artists who share a common goal. We want to fulfill the potential of personal computing. That's a tall order. But with enough imagination and enthusiasm we think there's a good chance for success.

-M.U.L.E. is intro to Electronic Arts on the back of the box.

But wait, how does one even appreciate this thing?

How does one play M.U.L.E. in this day of age?

Well, that is a multifaceted question, and without using original hardware, you basically have three options (and an additional challenge option).

1. The Atari 400 Mini

Much like how the PSX and Super NES got mini console releases with some games built in, the Atari 400 was also given this treatment. It is a tiny version of the Atari 400, and comes with a controller. It has the ability to emulate any Atari compatible game, but more importantly, of the 25 games it comes with, it comes with M.U.L.E.

The downside, however, is that it costs \$120 at time of writing.

2. Atari/C64 Emulation

This is not that hard, and comparable to console emulation, so I won't explain in detail how it works. You will need to understand a little more deeply how the computer you choose itself works, and there may be a little experimentation to get things in a way you can play with your friends, but finding images of games is not difficult.

3. M.U.L.E. Online

For \$5, it is really hard to do better than this. Basically, someone went and updated MULE to have the best parts of the Atari and Commodore 64 versions, added modern controller support, added modern keyboard and mouse support, and allowed remote play with others. Except for quibbles by purists, this is probably your best way to play this game in 2025 and beyond.

4. Planet M.U.L.E.

Not for the faint of heart, this is where people who yearn to play MULE hang out to play each other online with a specialized client. You may need to cajole them in the forums to join you, but if you want to be utterly destroyed and maybe learn something in the process, this is where you will go.

You didn't have to read a 50 page treatise on a video game that was probably made before most of us existed.

But you did.

Thank you.

What follows is footnotes and sources. A more convenient, clickable version of both can be found at my website:

www.mrblacksbox.net/mule/zine.html



The website, for better and worse, is easier to change. As I find updates or things of interest, updates will be posted there. You can also find the print file so you can spread the word of M.U.L.E. wherever you go.

FOOTNOTES

FUU		
#	page	Footnote
1	6	My dad still has his HP-35 and it is double the weight of my TI-89 and does a tenth as much. It came in a leather carrying case and came with all wall-wart to plug into the wall.
		https://youtu.be/g6jQVqkpjc8
2	6	It's important to note that Apple II's don't have graphics(arguably). You could sort of fake them with special text characters or slowly draw lines and shapes, but home computers with sprites were a little way off. With the exception of the blocky splash screen, Wheeler-Dealers is a text-first game. People playing games on an Apple II were hobbiest that were attempting to get the machine to do something it didn't.
3	6	The controller was a broken Apple II controller that had its buttons split and rewired so that they could reach to each player. The buttons were glued to big craft beads that were painted red.
4	7	If you were foolish enough to go with the Atari 400, you were treated to: half the memory, a plastic membrane keyboard, only 2 controller ports, RF-output only (no S-video), and only 8 or 16kb of memory, depending on when you bought it. Like the model number suggests, it is half the price, though.
		https://archive.org/details/Atari4001920x1080
5	8	EA has gone through so many layoffs in 2025 that as I write this in July there is some doubt that videogames will still exist as an industry that we can recognize. Battlefield 6 (6!) is slated to release soon, and they are banking on 100 million players. For context, Fortnite, one of the most played free-to-play games ever, has an estimated 400 million registered users.
6	10	I show a tracker music sheet because it looks cool but it is anachronistic: Roy Glover would have composed out his music on paper, probably graph paper, and then encoded it by typing in the notes.
7	10	Roy Glover came in late, and kind of as a contractor, so he was not credited on the initial run of Atari print covers. He i s in the software credits.
8	13	The "meet the devs" section is wild. It feature a picture where three of the devs are reading a newspaper about MULE's, and Bill is eyeing up a woman. This is made awkward when you learn that the woman is Dan and Bill's sister (not mentioned anywhere, just a model of oppourtunity). The interview is with Dan talking about his favorite things: playing MULE and "Slick Willy's".
9	14	Lets be clear: bringing your setup to your friends house was not a realistic option. You would need a large suitcase packed carefully to move your Atari, the disk drive, the powerbrick, and the RF-adapter. And you did your best not to travel your disks too much, they are fragile.
10	17	The in-game symbols for these resources are absolutely mystifying. They didn't have the pixels to do much better, but you will have the resource page of instruction manual open for the first game or two. I've attempted to interpret them here but who knows if I'm even right.

- 11 25 The first few revisions of this page was actually five pages of "look how cool auctions are." Did you know there is a mathematically "correct" auction? Did you know they used to time auctions with special candles? Did you know that auctions are actually kind of new-ish (think: 1600-ish)?
- 12 26 This is only technically true, It's sort of a variable speed Dutch auction with but you can see other's bids grow.
- 13 30 Collusion mode only exists on the original run of games and the NES version.

 There is no networked version of MULE that has collusion mode, at least that I've managed to play.
- 14 31 No Really; From different reviews:
 - "I learned more about the economics of the marketplace from M.U.L.E. than I ever did in college" Scott Mace, Info World
 - "Don't tell the kids, but playing M.U.L.E. is educational. I learned more about practical economics by playing this game than in all my college economic courses." Leo Laporte
- 15 31 Jim attributes Alan to coming up with the idea of the colony failing if a minimum worth isn't achieved. Alan (correctly, in my opinion) identified that with the amount of economic tomfoolery going on, it would be easy to completely strangle any progress with the colony. This offers a slight counterbalance to going completely sicko-mode on everyone.
- 16 33 There are much easier ways to play MULE. Don't by an OG print, there is a good chance the disk has degraded beyond usability anyway.
- 17 34 A whole book could be written about Dani's approach to their transition, the human toll they paid, how Dani would refer to her past self as basically another person, the number of *fucking* times I saw her misgendered in big official publications, and so on. I am ill equipped to talk about the trans experience in general and this one specifically, but I'll leave you with something that sticks with me.

Dani had three kids, and the ones that speak publicly anyway refer to Dani as their father. That makes *sense*, at the end of the day that was their primary interaction with Ms. Berry and how they remember her. I even think that's how she would have wanted it, and a part of why she compartmentalizes Dan vs. Dani. However, when referring to her in an ambient/present tense, they will still use the pronoun he. I don't know how to feel about that.

- 18 34 Game historians get a little persnickety if you make an assertion like this since the definitions are gooey, but as a commercially available game, I believe this is true.
- 19 35 If this talk was recorded, I can't find it. Which is a little strange, the talk before was (John Romero speaks briefly in it). I don't think it was from anything nefarious, she gave a repeat of that talk the following year, which was recorded. However, it's a little hard to listen to, as you can hear something going on with her lungs, and she will pass away about five months later.

https://gdcvault.com/play/1013991/Do-Online-Games-Still-Suck

20 36 She says this a little tongue and cheek: action arcade games were tearing up the scene, and marketing was mostly targeted to teenage boys. A quirky economics game is not easy to market, and Dani wasn't about to modify MULE for the sake of marketability.

Sources

In rough order of impact
[Text in brackets] is my added changes/context

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For 30 Years, He was in Charge of the World's Largest Toy Box [The only picture of 'Wheeler Dealer's' controller on the internet], Marnie Eisenstadt, Syracuse.com Sept 22, 2016, Accessed Jan 2025, https://www.syracuse.com/empire/2016/09/he_built_the_worlds_biggest_toy_box_now_the_strong_museum_ceo_is_retiring.html

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Other Things

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The Board Game:

https://boardgamegeek.com/boardgame/182619/mule-the-board-game

'We See Farther' meta ad

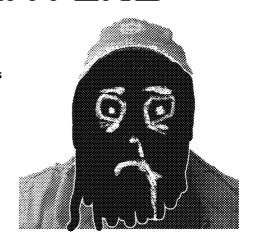
https://youtu.be/eJoxY1Lpxck



THE PLAYERS

MR BLACK

is a St. Louis local who has lived all across the world. He describes his interests as "the intersectionality between humanity and computers" which is a pompous way of saying he plays a lot of different video games. Through no fault of his own, Mr. Black is now a repository of grim knowledge.



THE OPERATOR

is an ageless denizen of the machine, a place between worlds. Mr. Black has never got out of him what the fuck that means. When not talking about meaningless stuff for Mr. Black, the Operator is usually fixing things. It wishes it was left alone.



The Operator and Mr. Black will masquerade as one another when it benefits them, but are not the same person.

IN 1983, 48-KB OF DISK SPACE WAS ALL YOUNEEDED TO REWIRE SOMEONE'S **BRAIN**

Before the internet, Before microtransactions, Before Videocards, polygons, texture mapping, CD—Rom's, Bluetooth, the NES, and arguably graphics itself...

Games were a fad that were on the way out.

And yet...

in 1982, a group of developers would help launch the biggest publisher group ever,

and create one of the best games ever made.

