HITSY

Alien Attack!

The plot

The year is 2138.



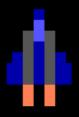
The plot thickens

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Planet Earth is under attack by aliens, and they're antsy!

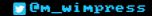
More 80s game tropes

You're a mercenary with a state of the art space fighter and a gun for hire.



Game mechanics

- Earn money for each alien destroyed
- Financial penalties for aliens that escape
- Efficient use of lasers is rewarded
- Collect power-ups to enhance your ship
- Kill! Slay! Destroy! Annihilate!



Raiden?

Maybe? Lets see how we got on...

Danmaku (弾幕 }

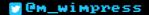
The game engine

- Hardware interrupt trap for the game loop
 - Via a subshell
- 256 colour ANSI frame buffer
 - Fast delta updates via a pseudo 'blitter'
- ANSI sprite engine
 - Collision detection & overlays
 - Animators, keyframing and colour-cycles
- Multi-threaded sound effects
 - Including sound effect chaining
- XBOX 360 and Steam Controller support
 - Simultaneous 2-player action!
- Stateful configuration



Learnings

 case two times faster than if elif else fi ANSI is harder than you think echo -e > tput > printf Arithmetic comparisons are fast if ((THING == 1)): then is faster than if [\${THING} -eq 1]; then Bash has C style loops for ((LOOP=0; LOOP < TOTAL; LOOP++)); do I never knew ((TOTAL++)) was a thing Or ((TOTAL+=5)) or ((TOTAL+=MORE))



Px437 IBM VGA Regular is best font!

The code



https://wimpysworld.io/antsy-alien-attack

