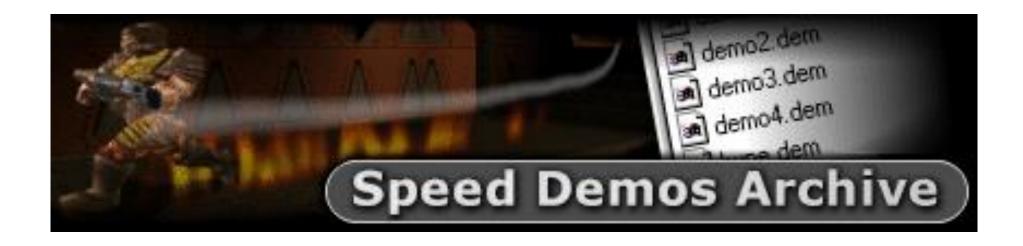
Greg d'Eon UDLS, August 2020





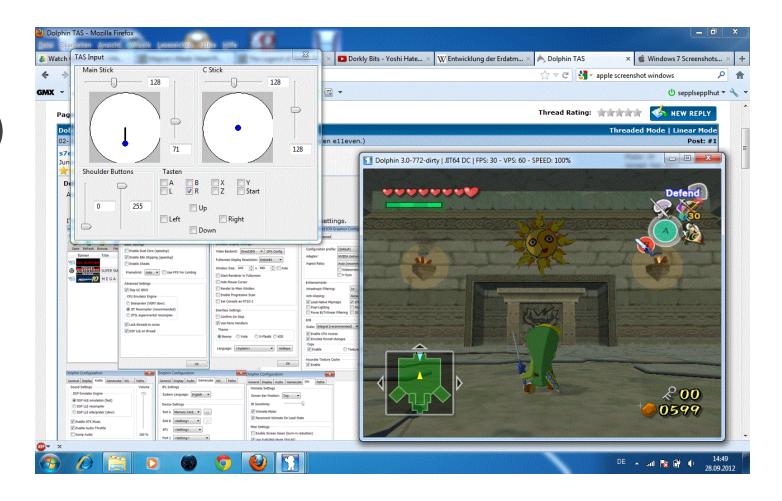


Allowed:

- Emulators
- Slowdown (frame by frame)
- Savestates/re-records
- Input/RAM viewers
- Disassembling game code

Not allowed:

Modifying the game



Goal: beat the game as fast as possible

Power-on to final input

Real goal: be entertaining

- Tool-assisted superplays
- Bend the definition of "as fast as possible"

The Extent of TASVideos

A huge range of speedruns:

Extreme skill and luck

Breaking the game

Speedruns as art

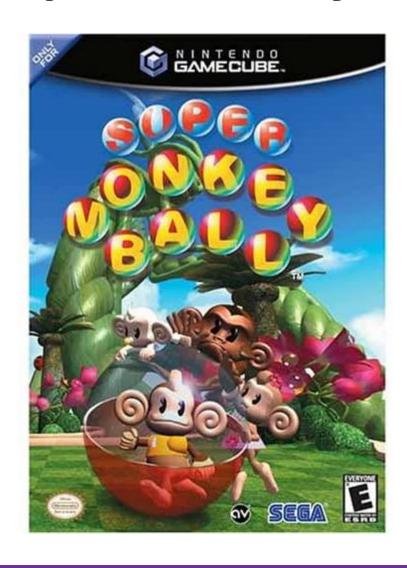


Definitely not humanly possible

???

Part 1: Extreme Skill/Luck

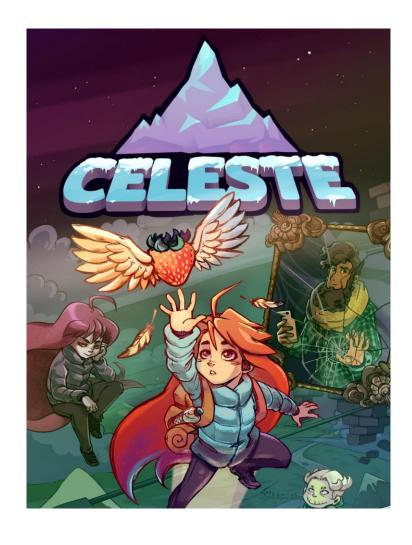
Extreme Skill: Super Monkey Ball



Extreme Skill: Super Monkey Ball



Extreme Skill

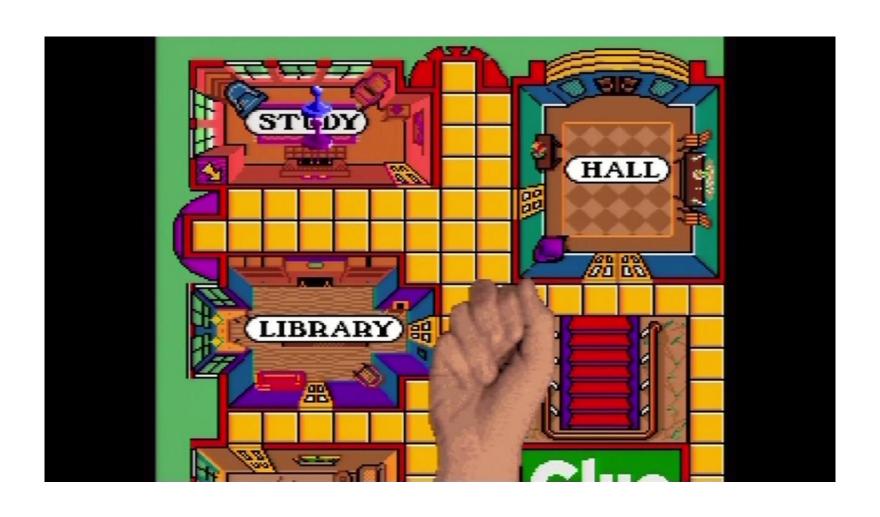




Extreme Luck: Clue



Extreme Luck: Clue



Extreme Luck: RPGs



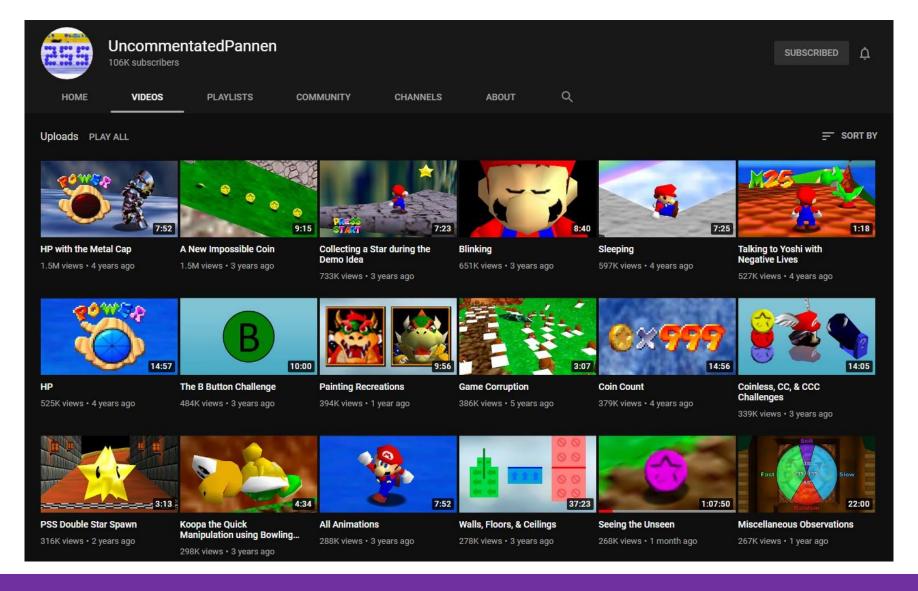
Part 2: Breaking the Game

Breaking SM64: The A Button Challenge

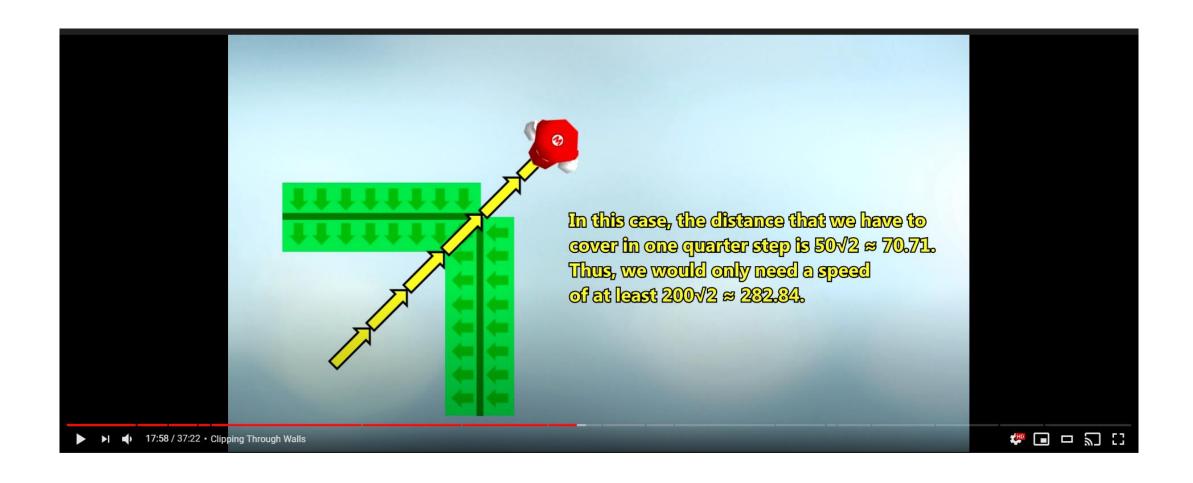




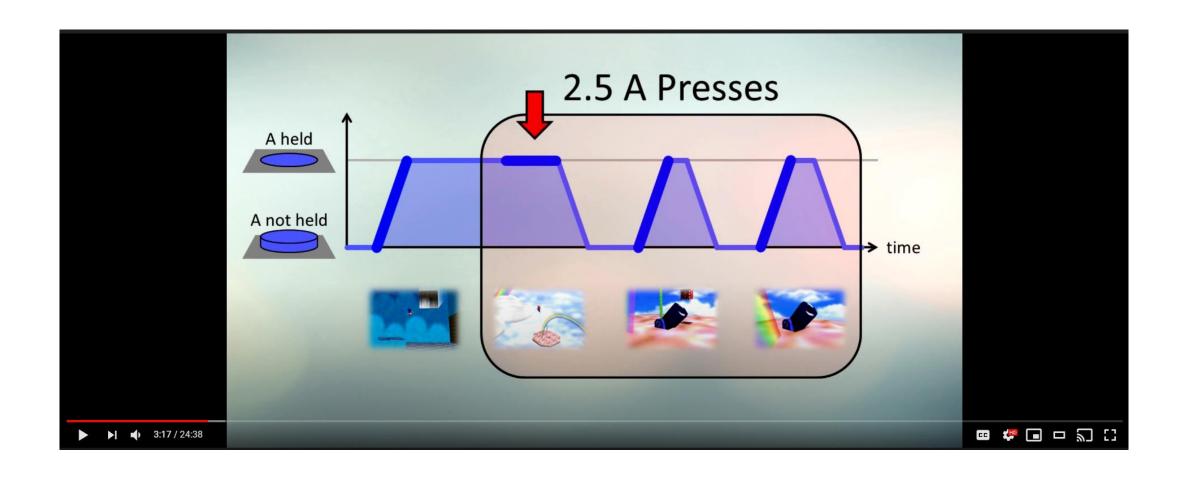
What Would You Do For An A Press?



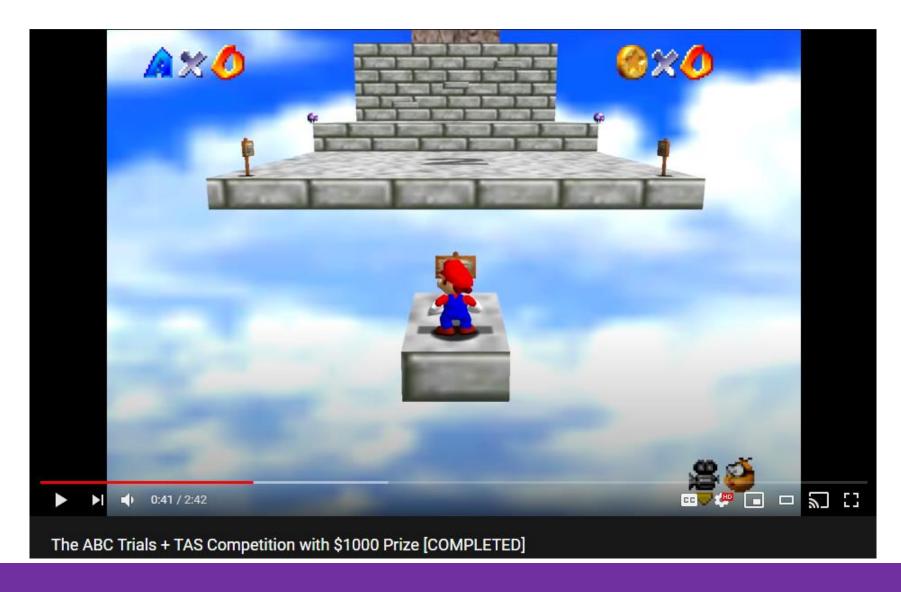
What Would You Do For An A Press?



What Would You Do For An A Press?



Friendly Competition



Breaking Kirby Super Star: ???





What?



The reason why the game freaks out when you try to climb a ladder up and down at the same time is because it doesn't expect you to do that.

The initial glitch happens in the SA1 processor which indexes a location wrong and jumps to garbage code [...] It manages to lead the CPU to the controller registers [...] where then the fun begins. When I say the fun begins I don't actually mean fun, because I now have to deal with two processors and a destroyed RAM.

I managed to kinda see the addresses I have to change for example changing the gamemode (\$7390) to cutscene (0x0008) or the game chosen (\$32EA) to Milky Way Wishes (0x0005).

[...] I reset the SA1 processor and set it to a new location in SA1-IRAM, where I wrote a new code for it to execute, because not only RAM was damaged, the stack and direct page register were corrupted too. I changed all values and the last cutscene started.

"Arbitrary Code Execution"



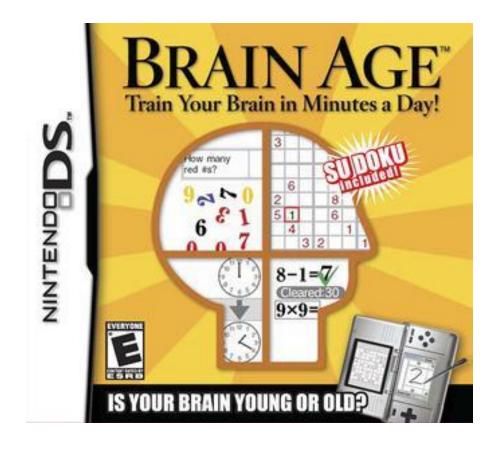
More Really Broken Games





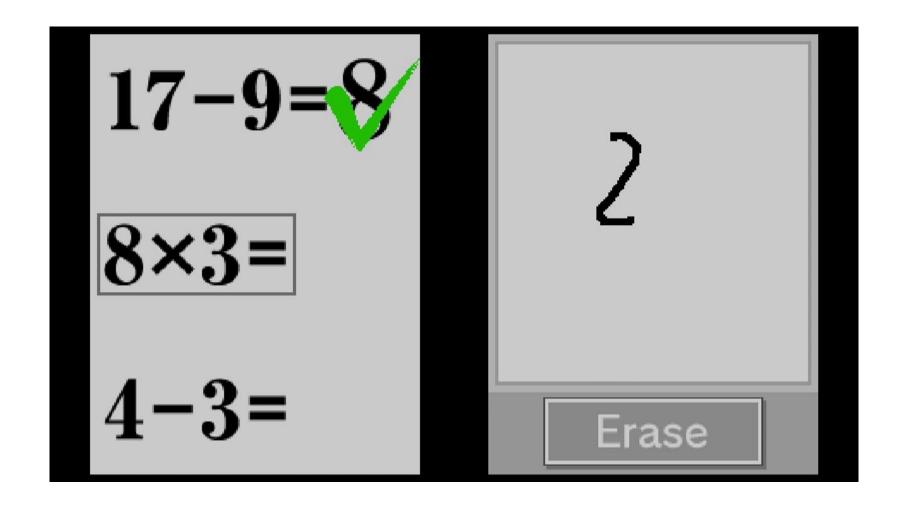
Part 3: Speedruns as Art

Brain Age





Brain Age



TASing is Art

TASes bring people together to solve problems in creative, entertaining ways

This takes:

- Gamers, to find creative, out-of-the-box strategies
- TASers, to plan and execute speedruns
- Programmers, to build the tools that make it all work

This could be **you!**