More people should play games!



Games should be difficult!



Challenging or Approachable? (Pick Two)

John Austin Pontoco



How to 'Fix' Dark Souls

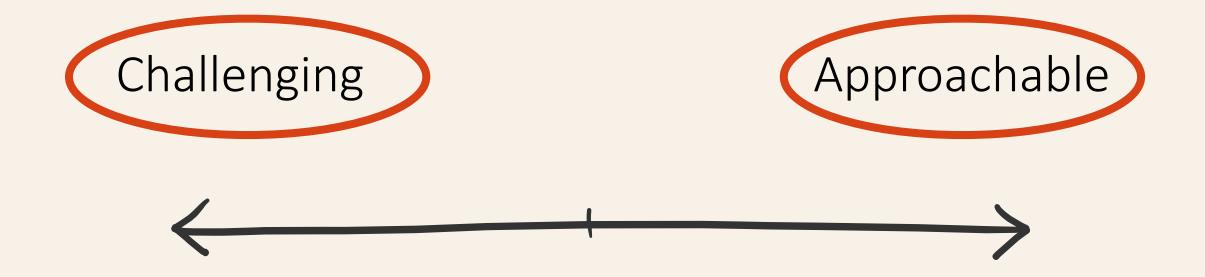
John Austin Pontoco



Challenging

Approachable





(Pick two)

What is.. difficulty?

Part 1 Defining Difficulty & Approachability







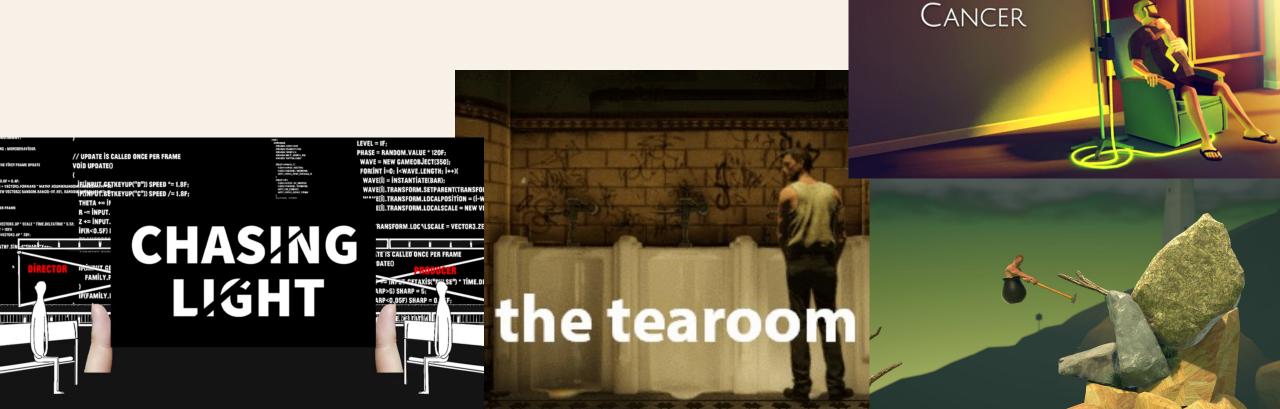


Approachability: How many people can engage with your game?



Approachability ≠ Accessibility

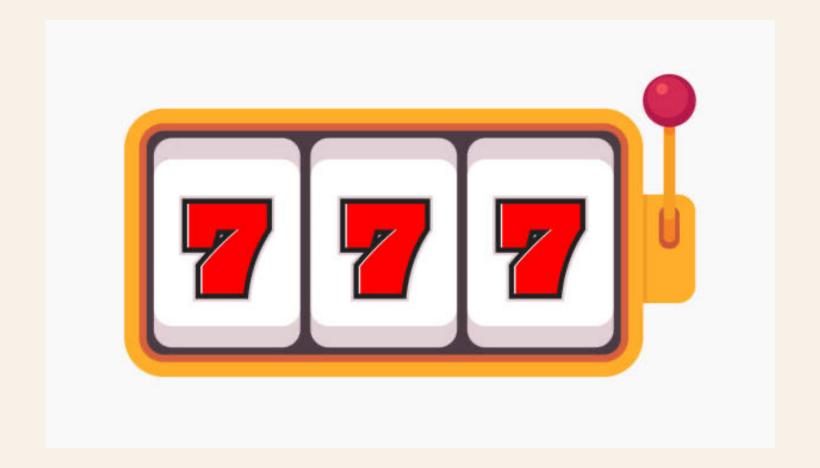
- Approachability ≠ Accessibility
- It's a choice.



THAT DRAGON,

Defining Difficulty

Failure Rates?



Failure Rates?



Effort / Exhaustion?



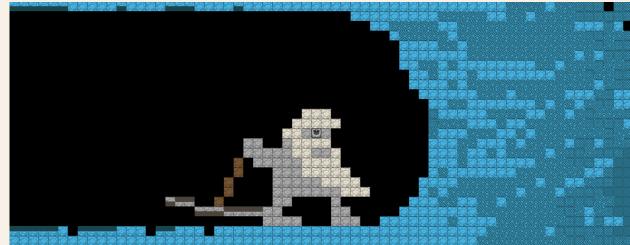




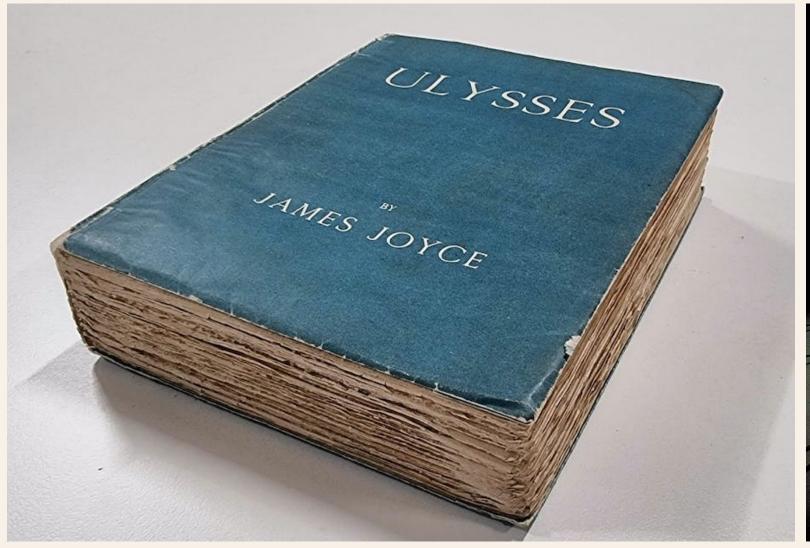


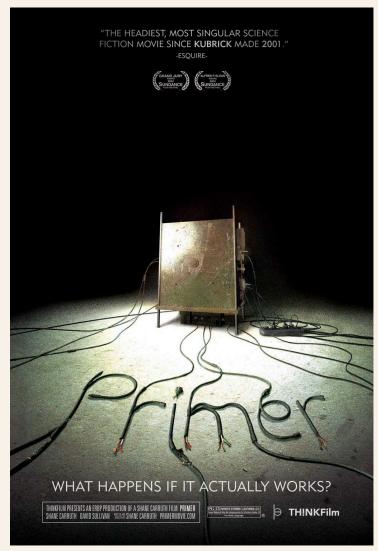






Difficulty: Not just for games

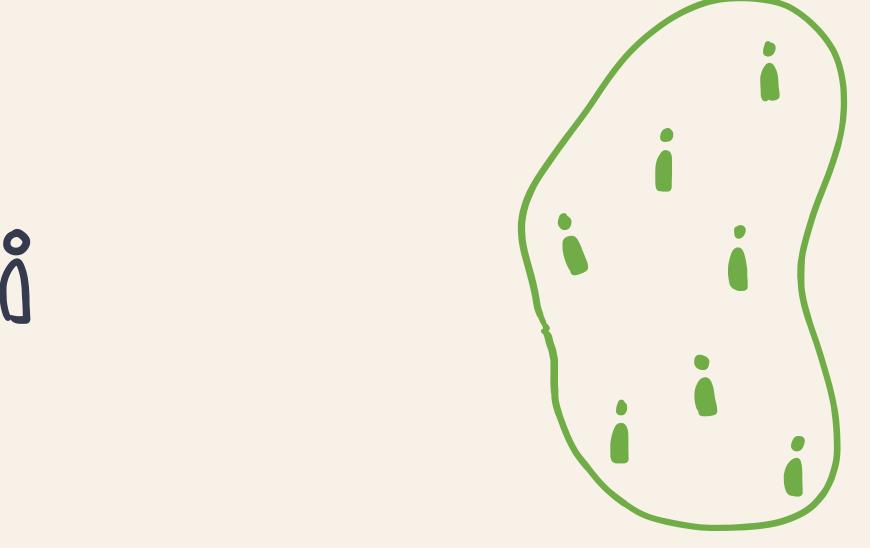


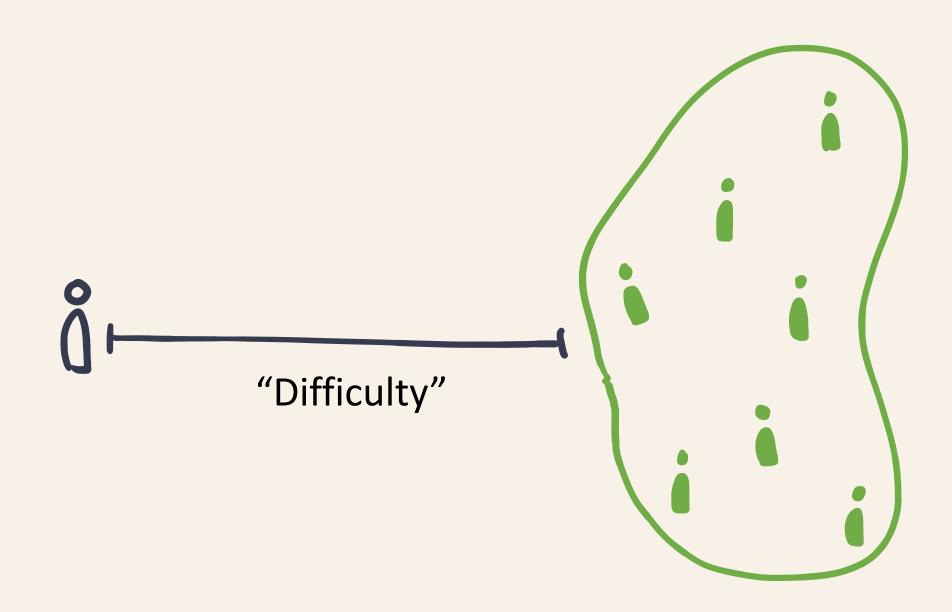


Difficulty

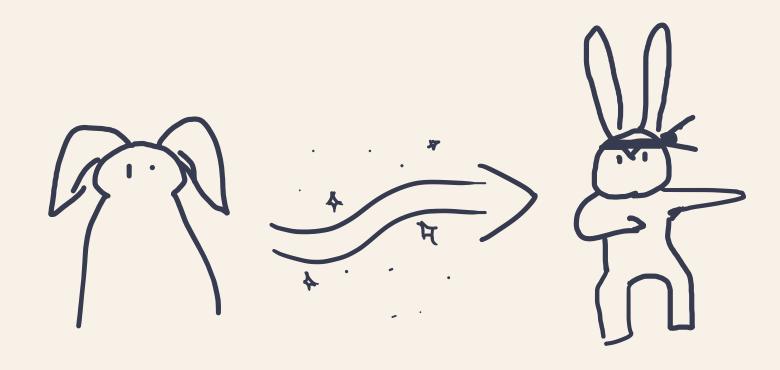
How much someone has to change to accomplish their goal.

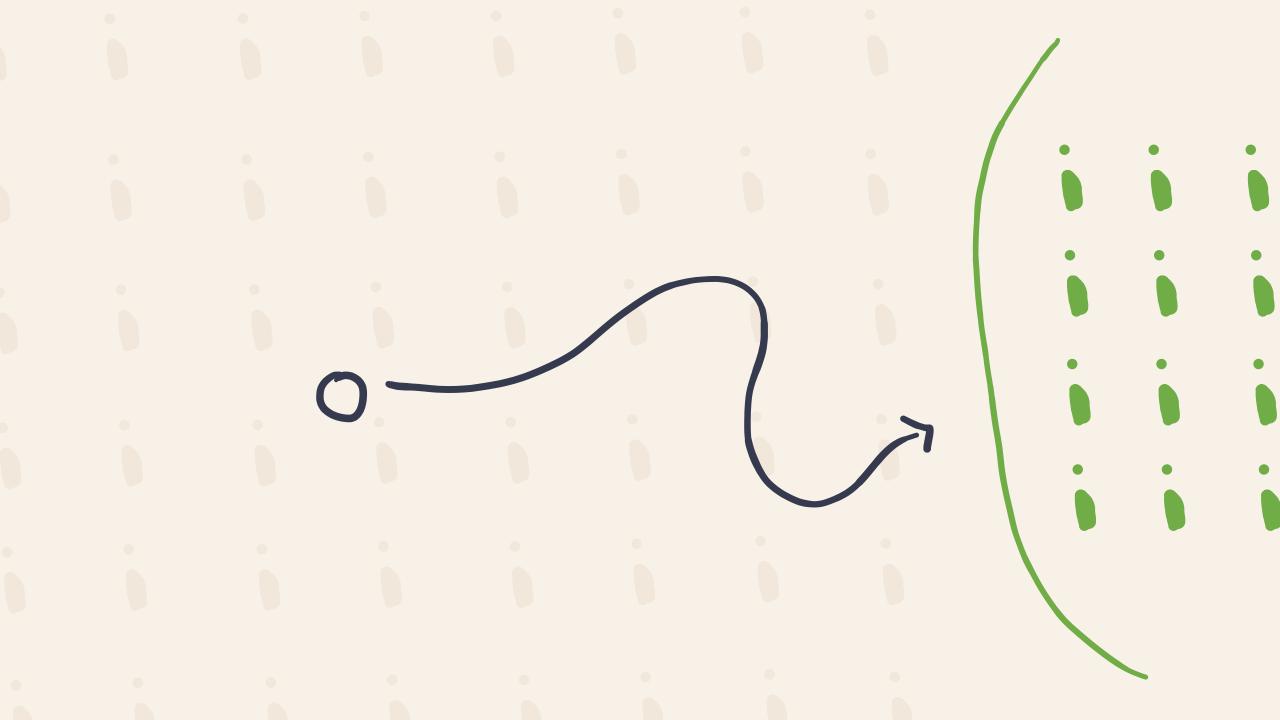




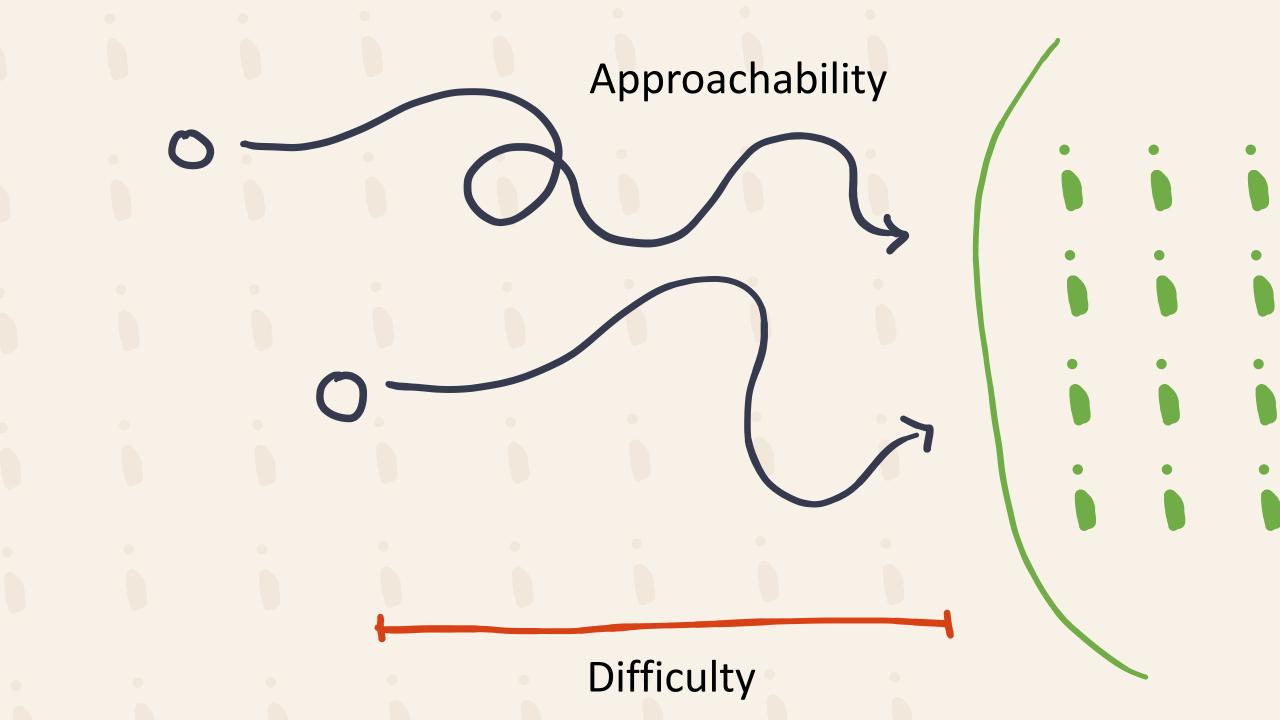


We like difficulty because growing feels good.



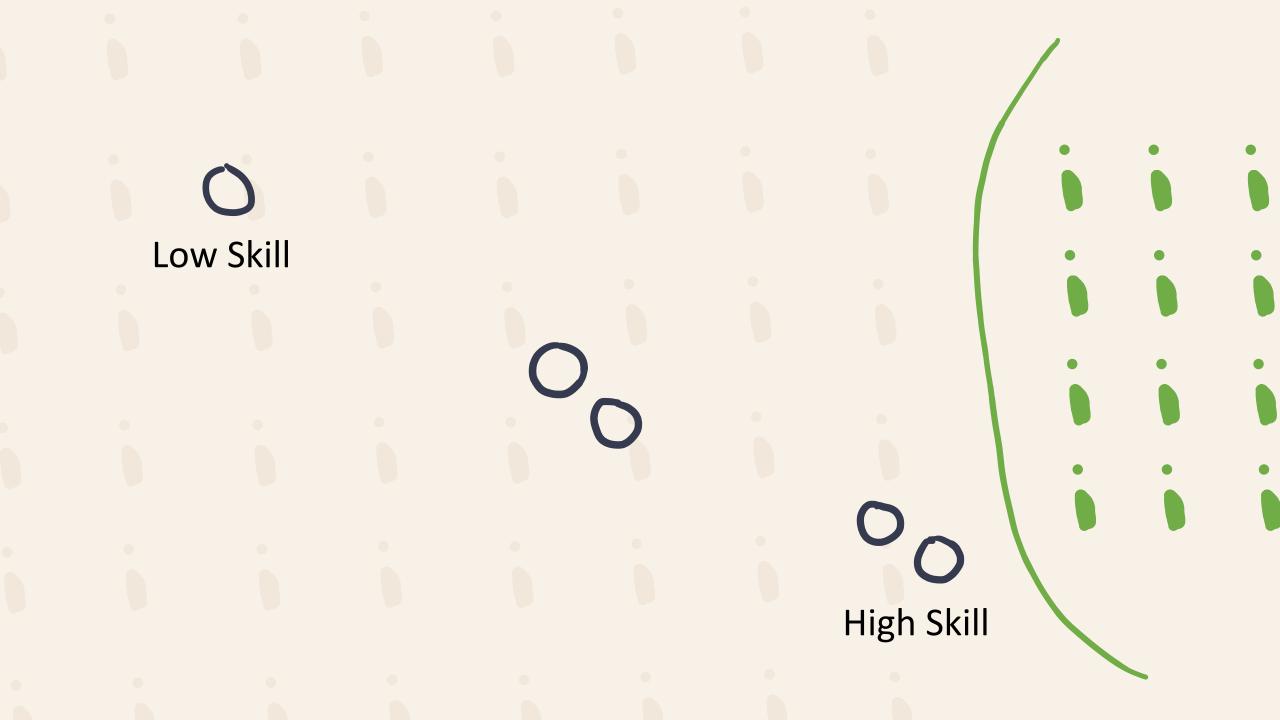


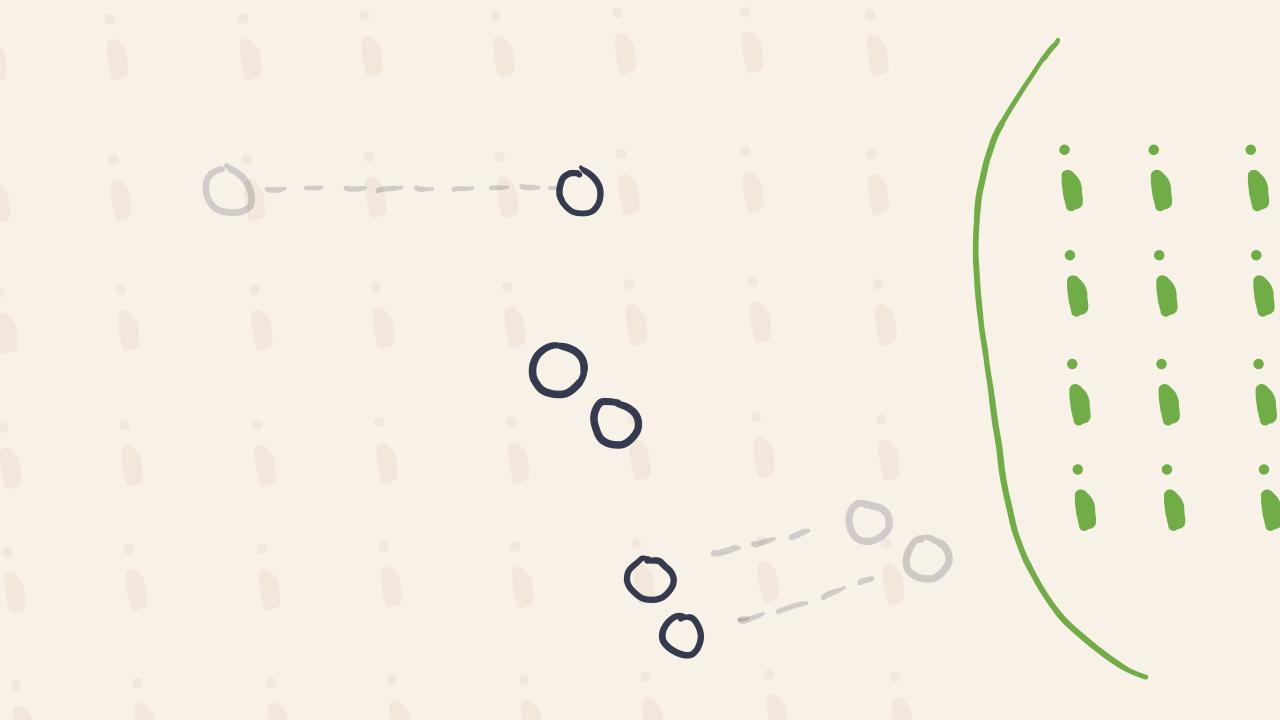




Making a game approachable **improves the experience of learning**, rather than asking people to **learn less**.

Part 2 A romp through some approachable mechanics





<u>Dynamic Difficulty Adjustment</u>[™]

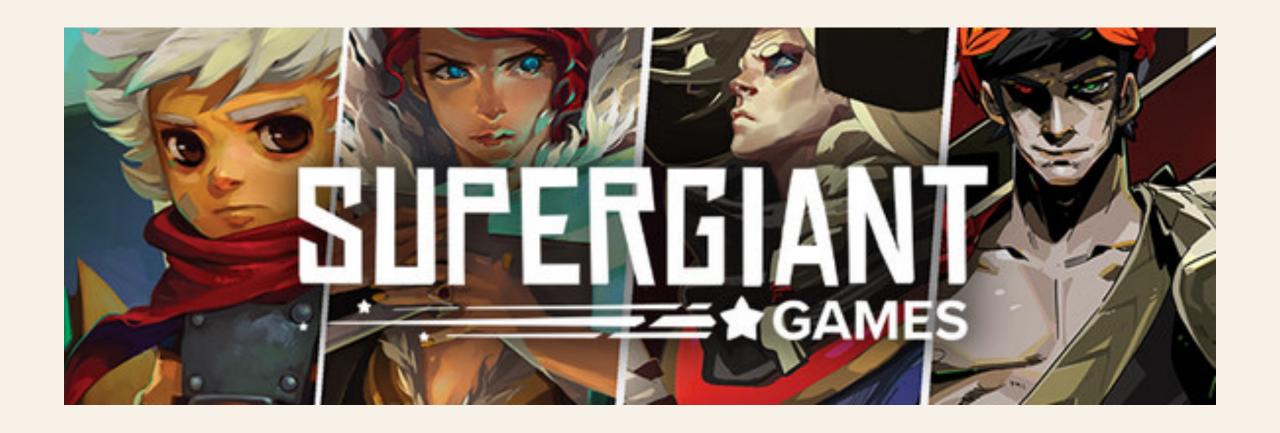
Auto-balancing numbers under the hood with heuristics.

- Removes some of the joy of difficulty.
- Usually also makes the game easier.

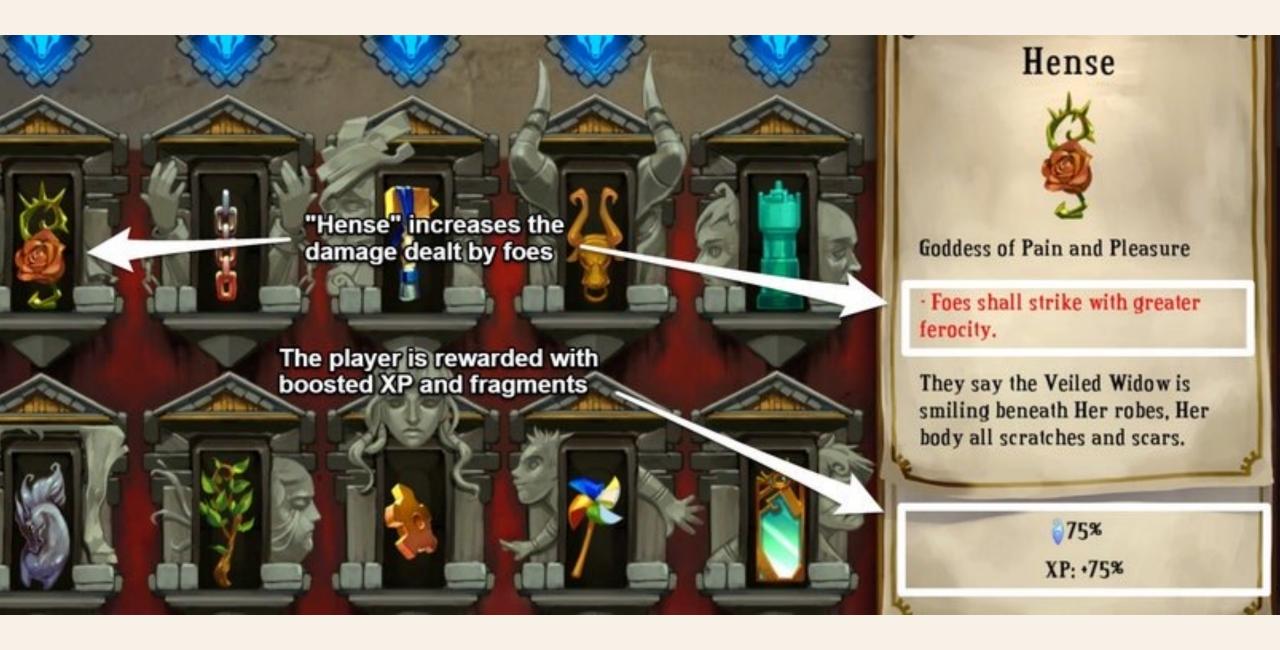
Not super interesting to me.











- Acobi [Ah•KOH•bee]
 - Defeated enemies drop a bouncing spark with delayed detonation.
- Lemaign [La•MAIN]
 - The Kid's movement speed is slowed after connecting with an enemy attack.
- Yudrig [Yoo•jrig]
 - Touching enemies deals additional damage.
- Roathus [ROH•thus]
 - Enemies never drop Tonics upon defeat.
- Micia, [Mih•SI•a]
 - Enemies regen health over time.
- Olak [O•lihk]
 - Enemies randomly turn translucent; all attacks will pass through.
- Garmuth, [GAR•muth]
 - Enemies will randomly block and deflect attacks.

The idol system makes difficulty part of play.



(It's a puzzle)



PACT OF PUNISHMENT

"Infernal Contract Valid for Eternity in the Underworld of Hades"

TERMS

- 1. CHOOSE ANY CONDITIONS
- 2. FILL HEAT GAUGE TO 1
- 3. GET OUT USING THE ADAMANT RAIL



WEAPON: RAIL

HEAT: 0















CONDITIONS





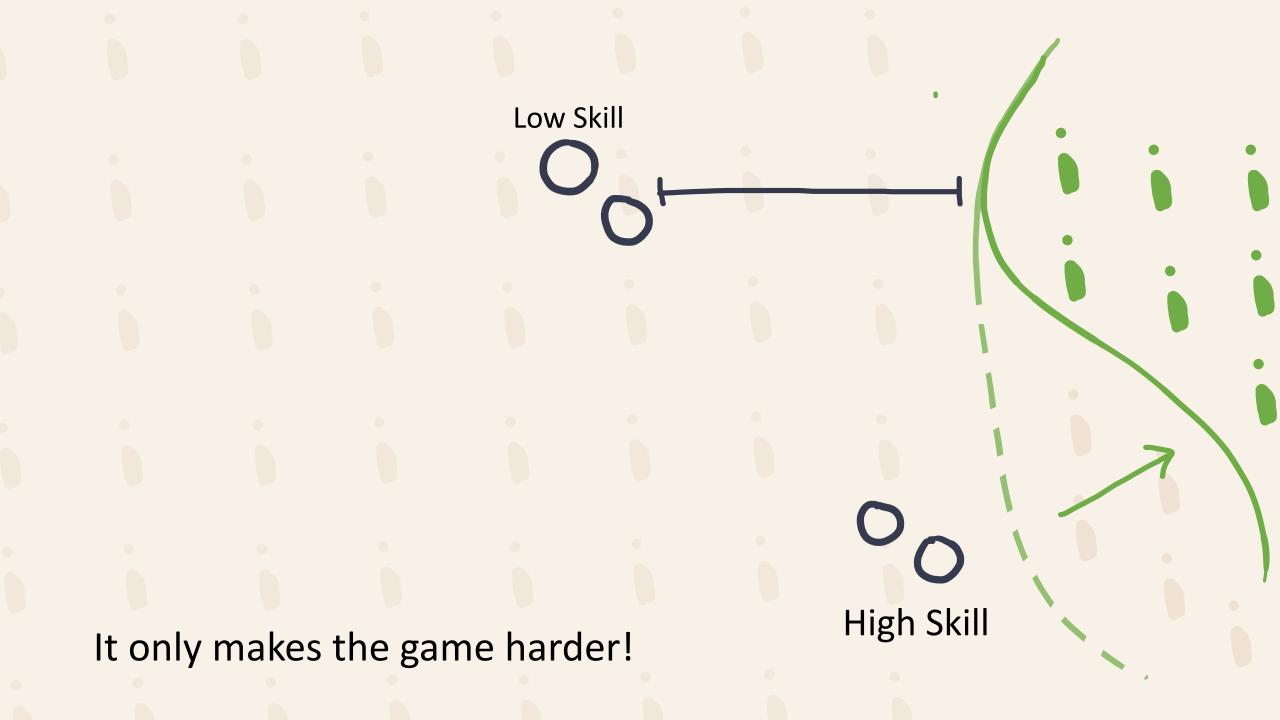
BEGIN ESCAPE







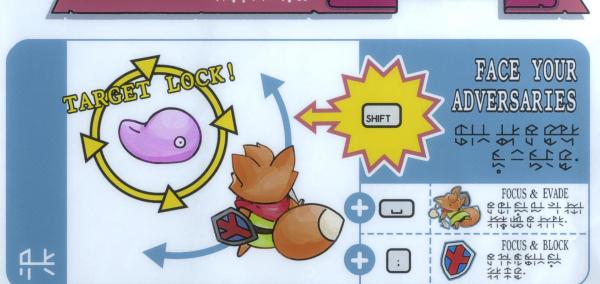


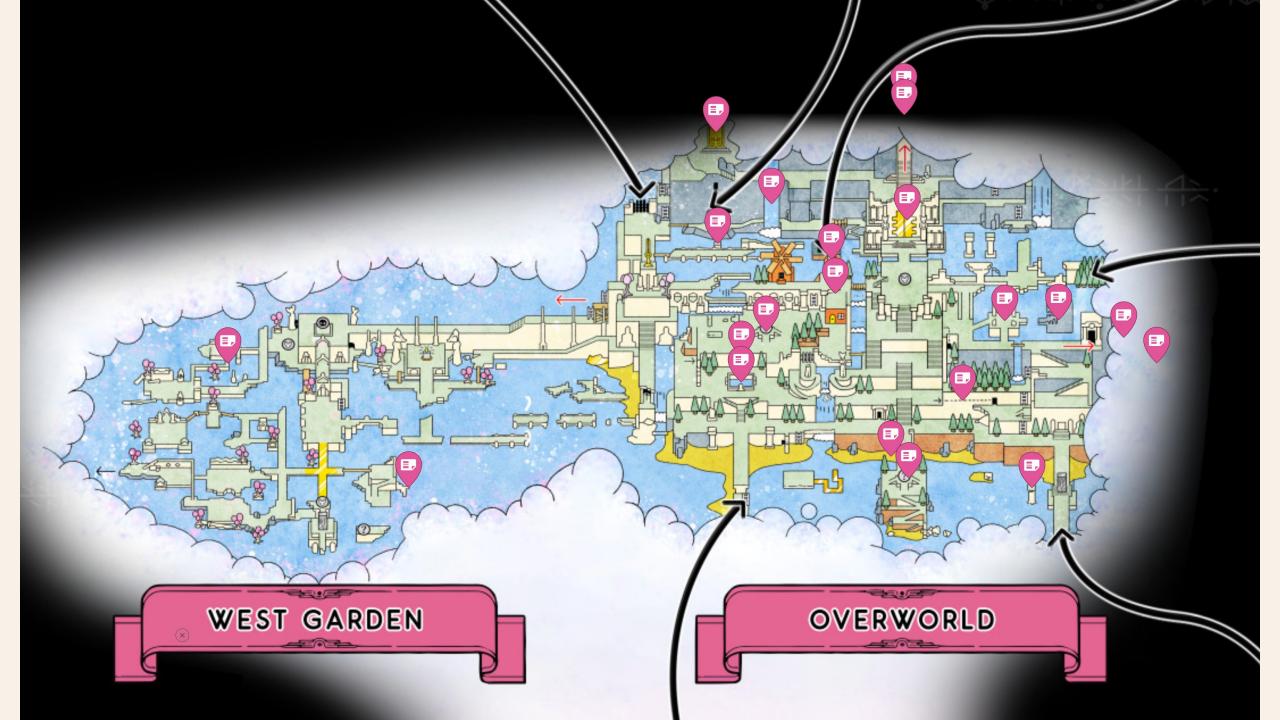




Mechanization of Tutorials

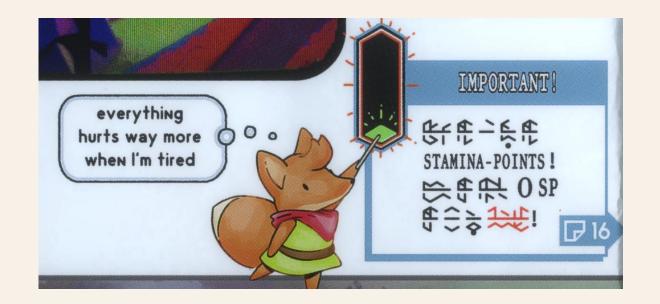




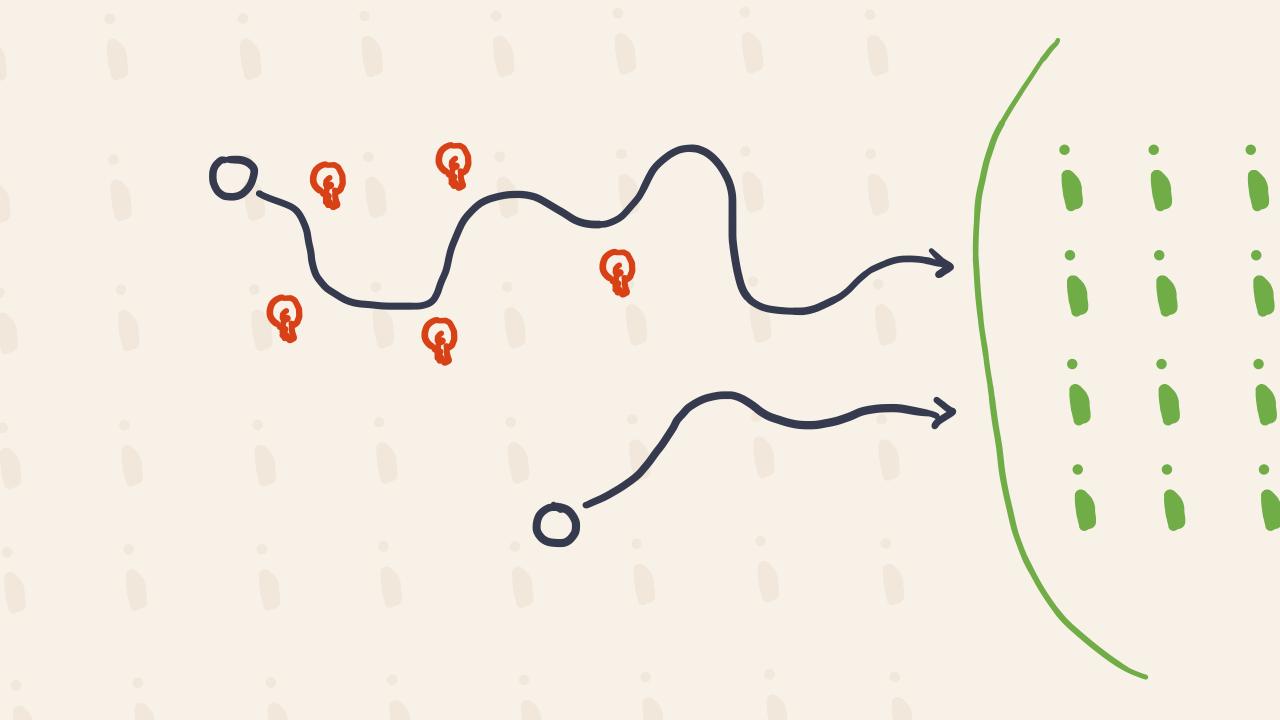


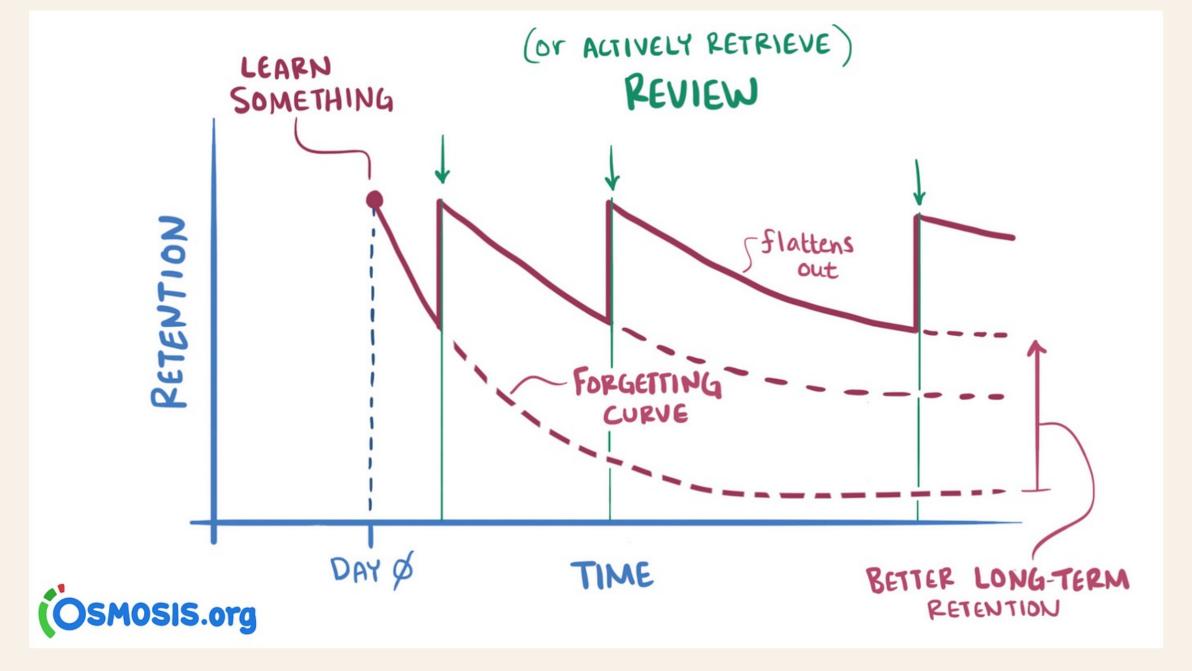
Tunic (Tutorialization)

- Slow-drip of information for better retention.
- Referenceable in case you forget.
- Supplies hooks rather than hand-holding.

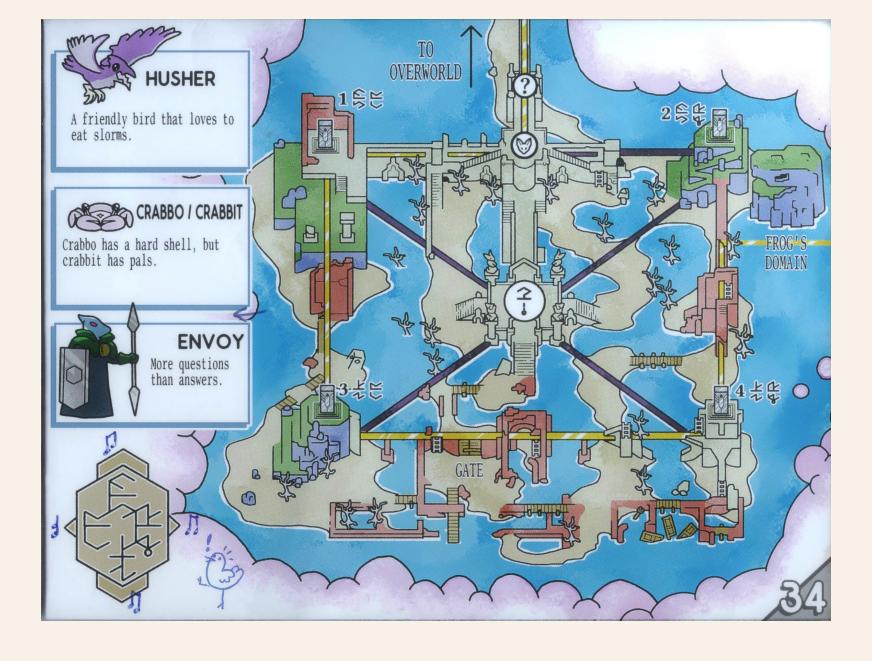






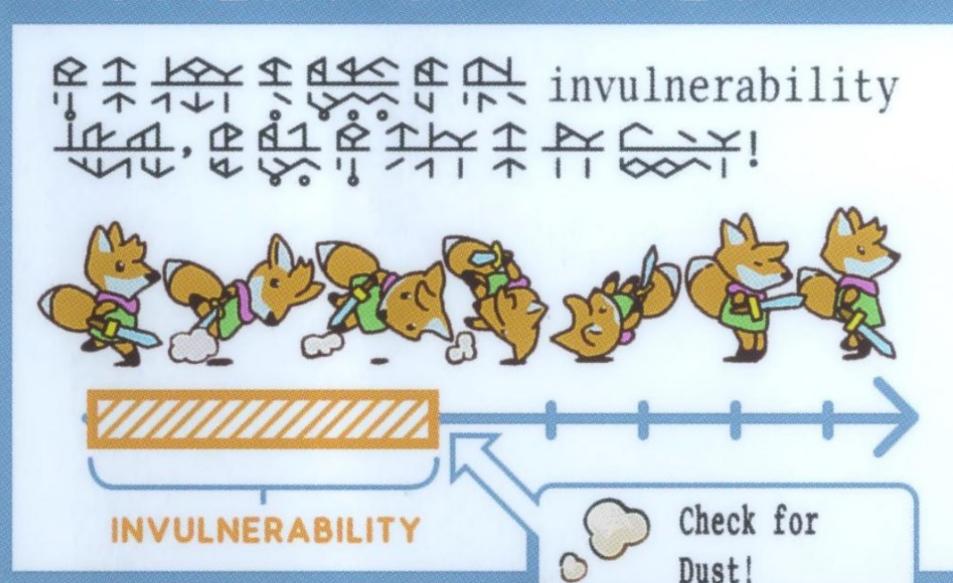


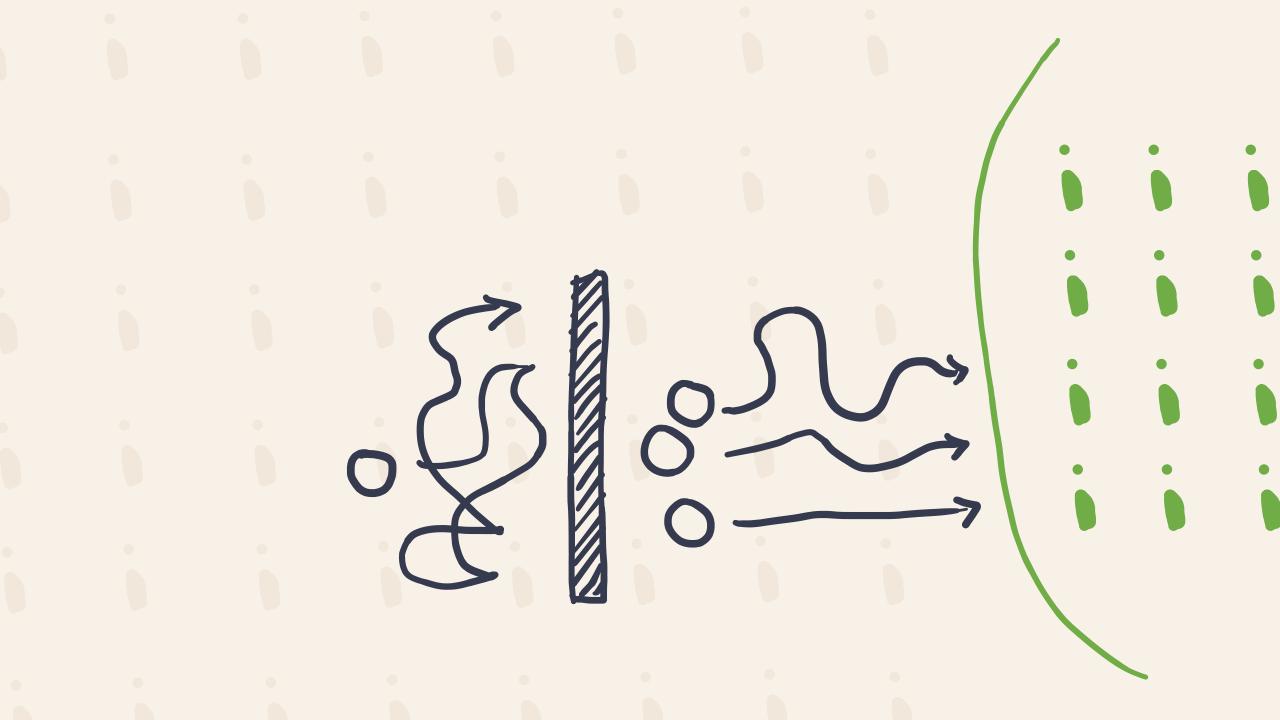
Mechanization – Spaced Repetition

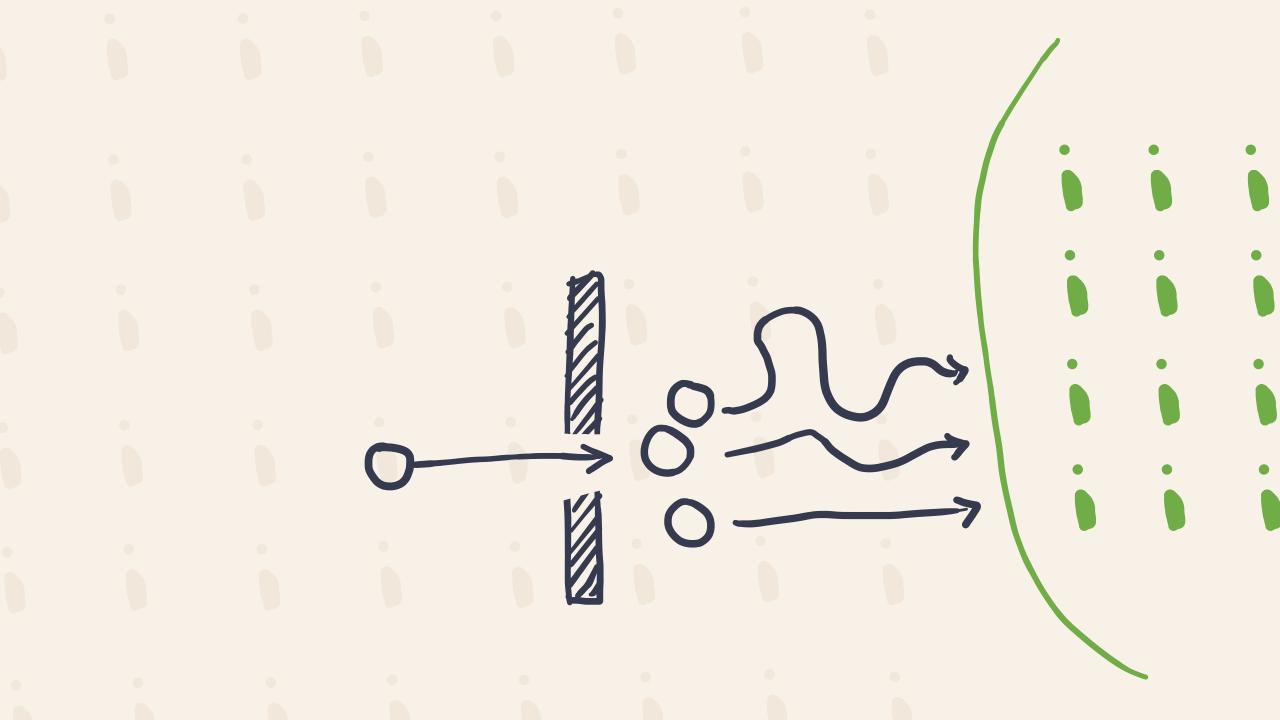


Mechanization - you don't feel bad for using it!

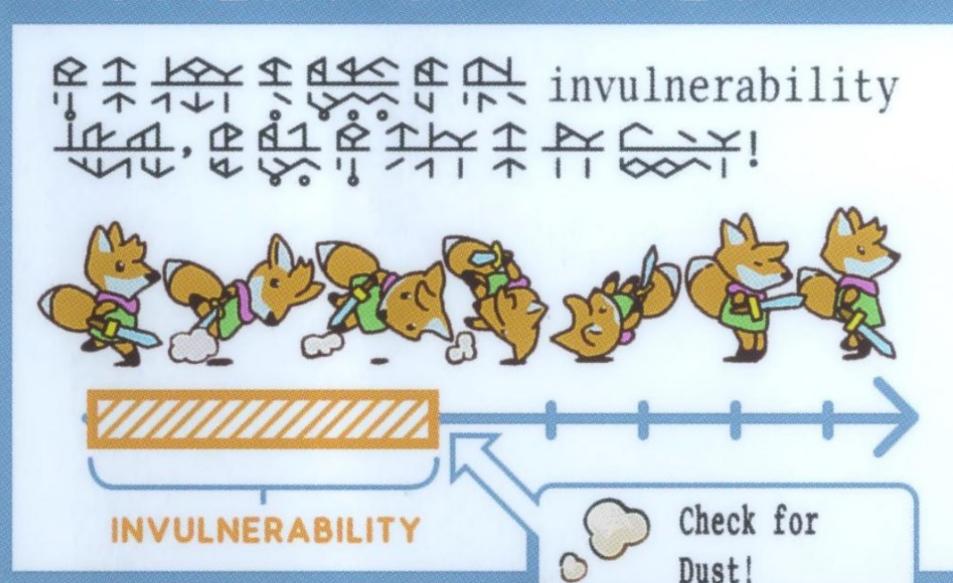
MOMENT OF SAFETY

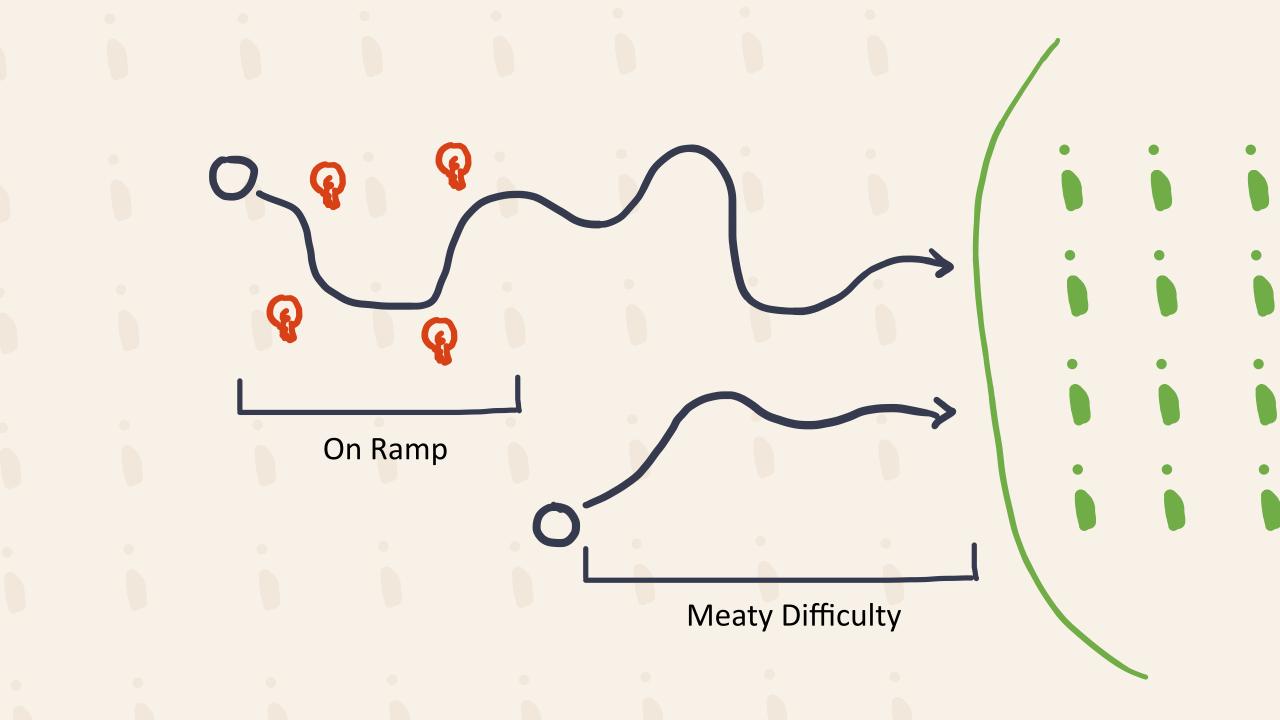


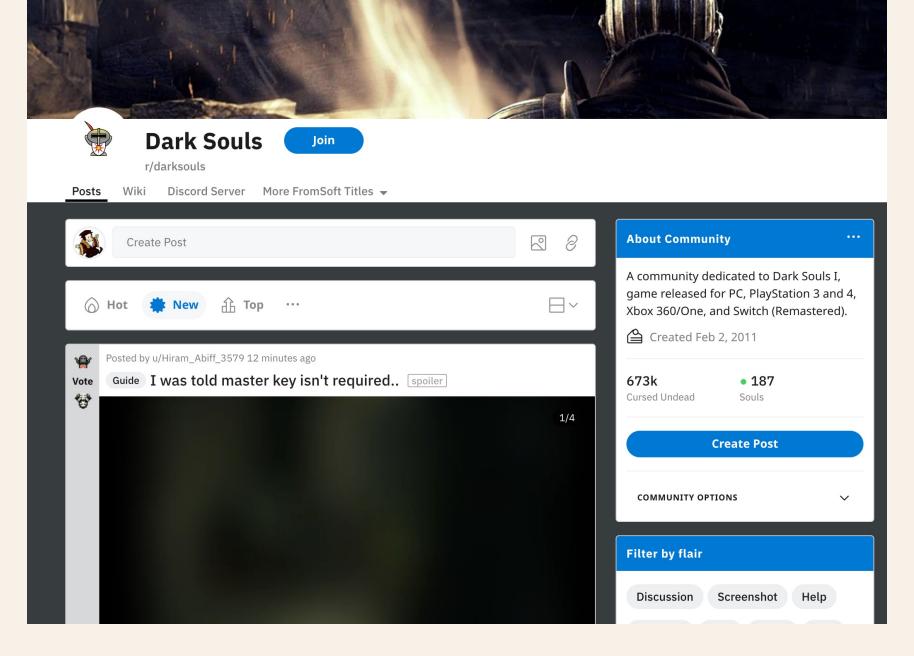




MOMENT OF SAFETY

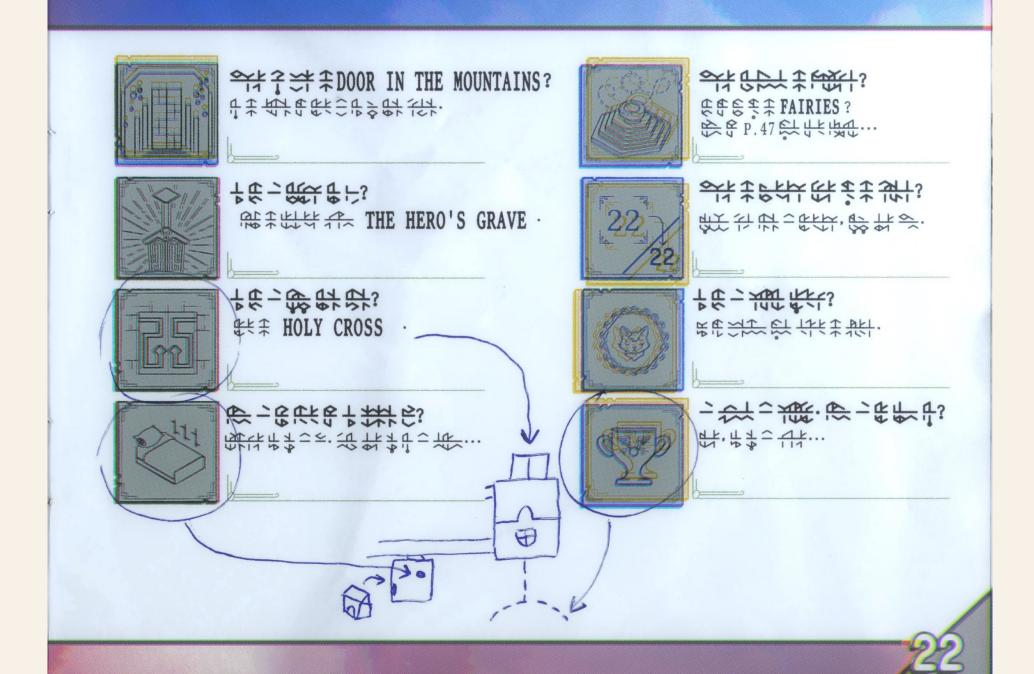


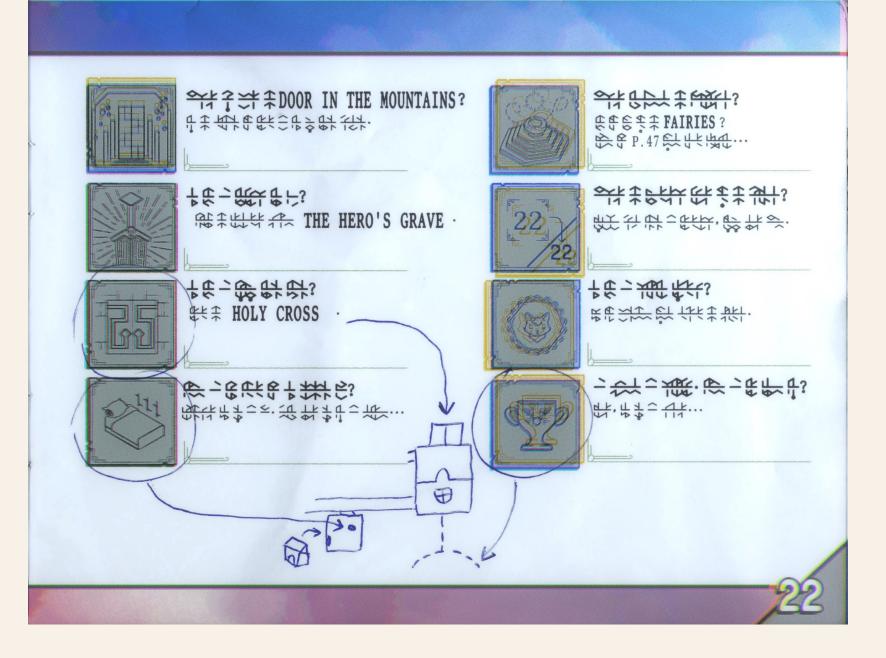




Dark Souls is able to be difficult because it leans on the community.







A game can be more difficult because it's approachable!

Thanks!

John Austin

Game Director, Pontoco

- @johnaustin.bsky.social
- @johnaustin@mastodon.gamedev.place
- @kleptine (twitter)

https://johnaustin.io



END OF TALK

You found the secret overflow slides!

These slides aren't in the talk, but contain scattered thoughts about difficulty. Maybe you'll find some useful inspiration.

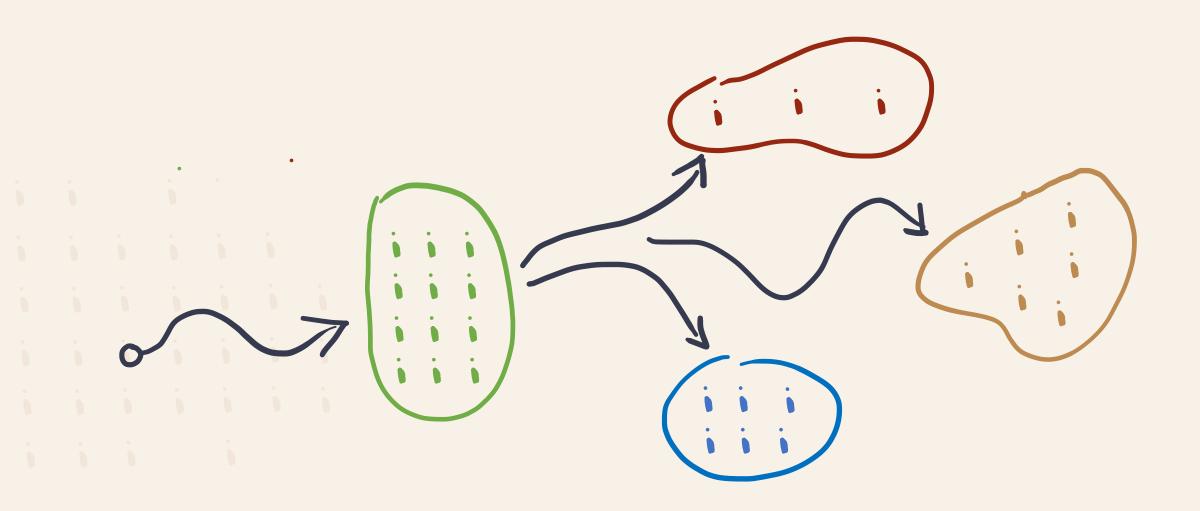
Difficulty

How much someone has to change to accomplish their goal.

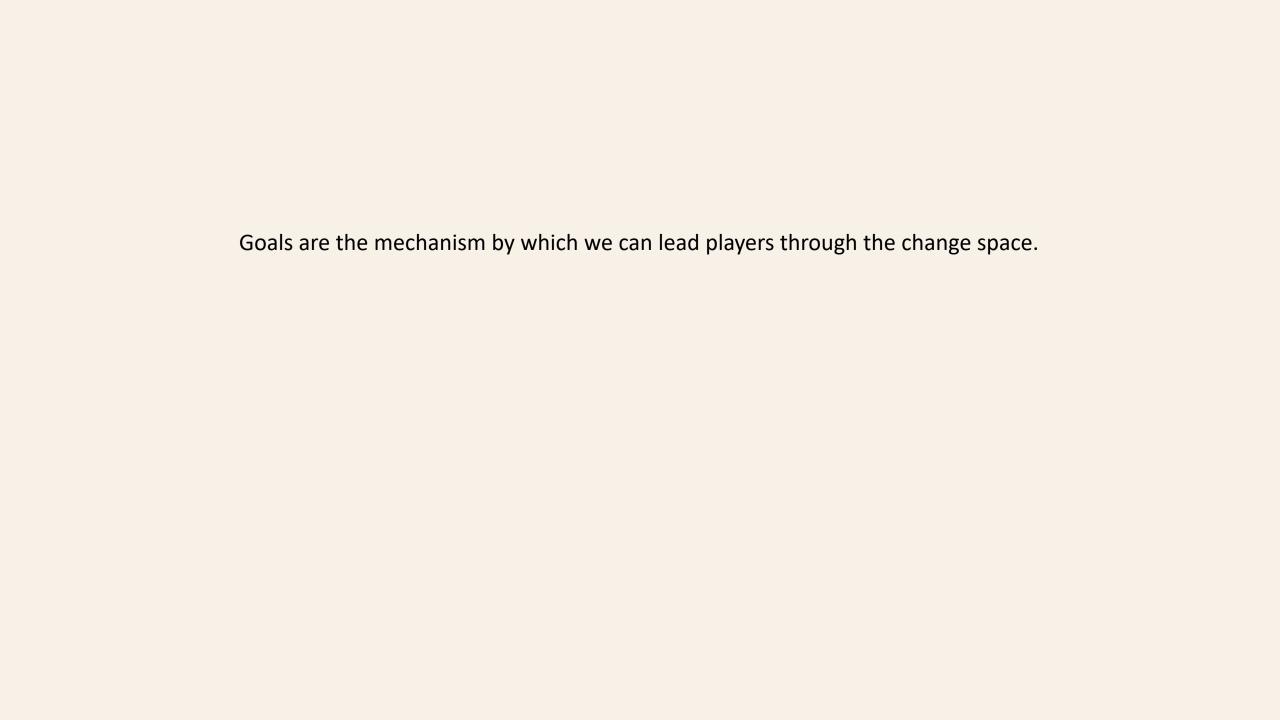
What goal?

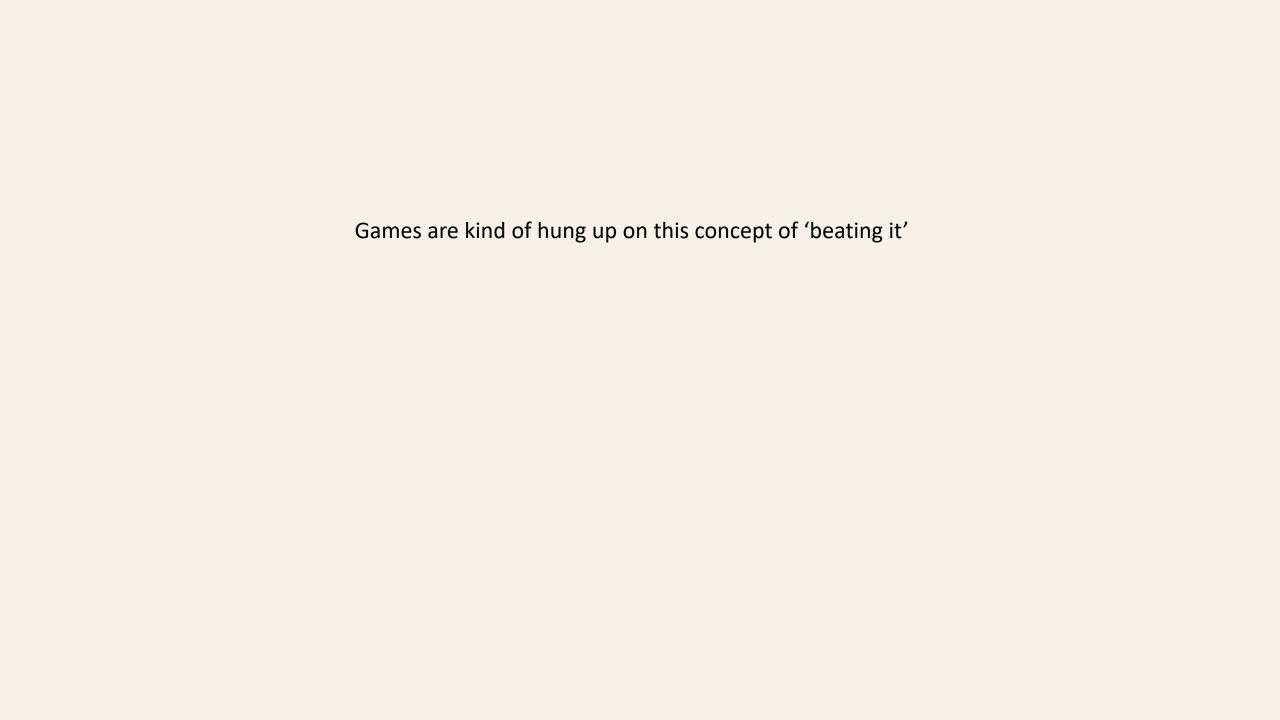
Speedrunning





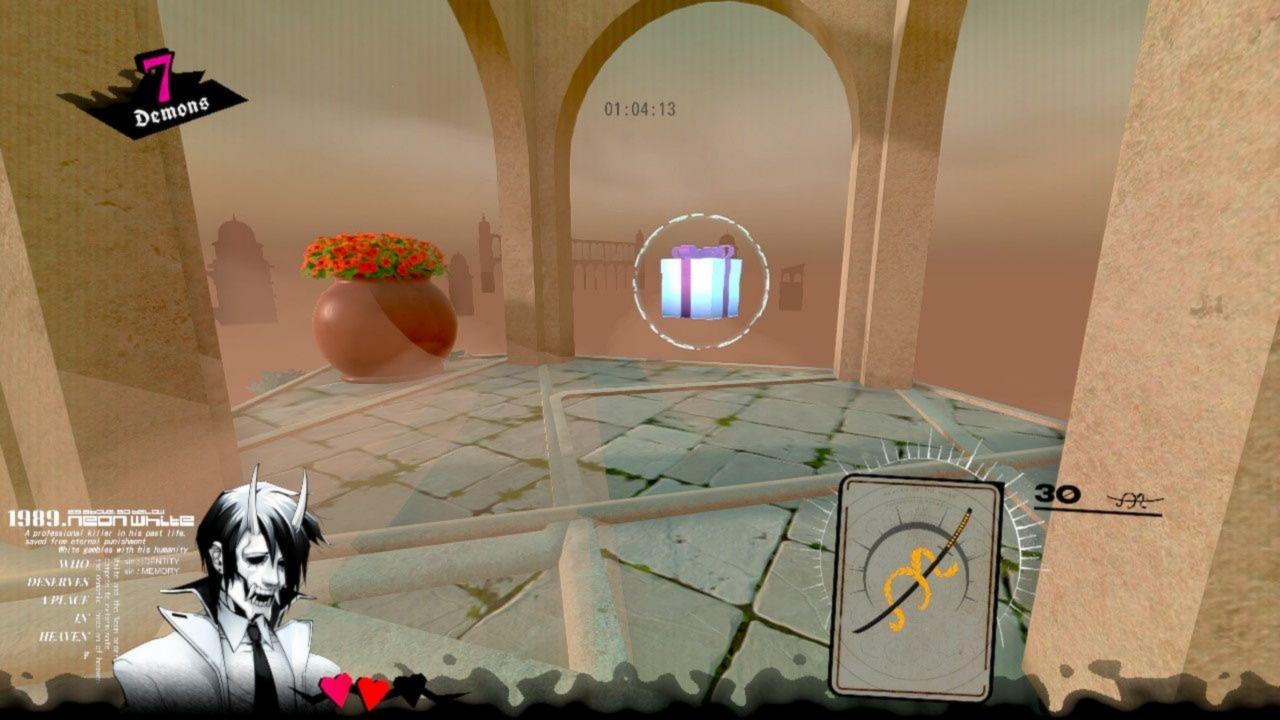
Speedrunning



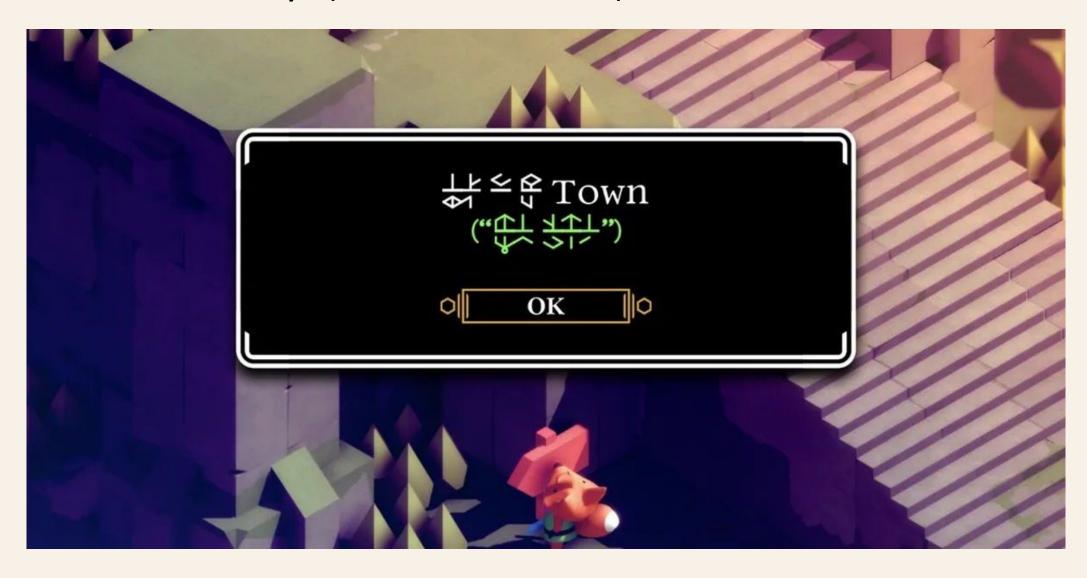


Games are mountain ranges not mountains.

Presented Goals vs. Supported Goals



Inscrutability (un-tutorials)

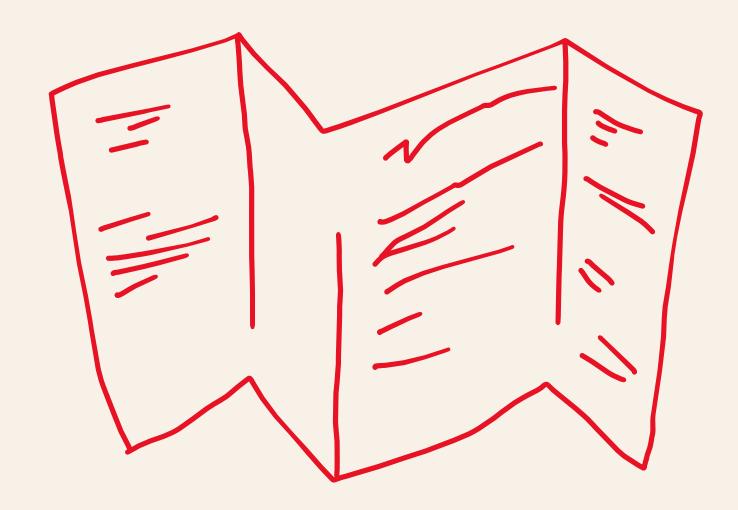


Inscrutability

Confusing

Foreign

(sub-type of difficulty)



Inscrutability







Equipment

Select item to equip



Demon's Spear

Demon's Spea	University			
Attack Type:		Thrust	Weapon Type:	Spear
ATK			DmgReduction%	
Physical	100	+46	Physical	40.0
Magic	0	+0	Magic Magic	10.0
K Fire	0	+0	Fire	30.0
K Lightning		+0	Lightning	30.0
Critical	100		Stability	26
ParamBonus			ReqParam	
C 💥 C	***	× -	2 12 3 10 3	0 💥 0
Aux Effects			Durability	400/400
0 0 0	0 -	(a) -	Weight	4.0



E	dd
Covenant	Darkwraith
🔙 Level	68
Souls	3800
Witality	26
Attunement	16
Endurance	26
Strength	16
M Dexterity	25
🧱 Resistance	11
Intelligence	12
K Faith	18
Humanity	0



easy modes

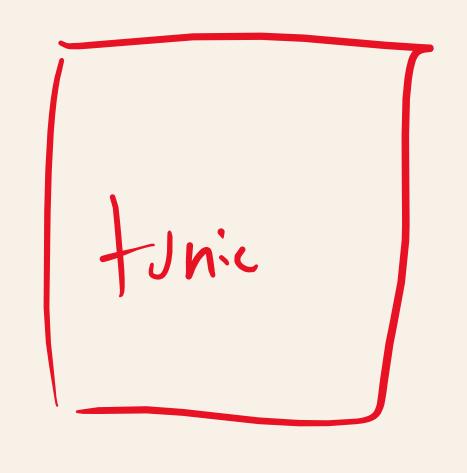
easy modes

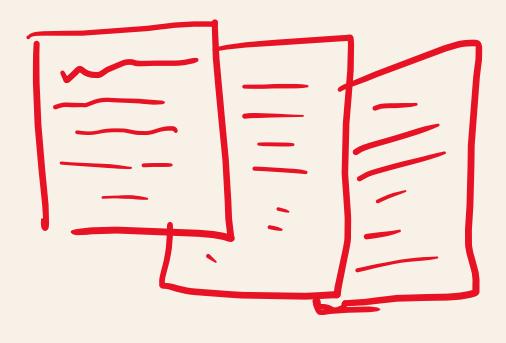
cut into the juicy change!

easy modes

easy modes

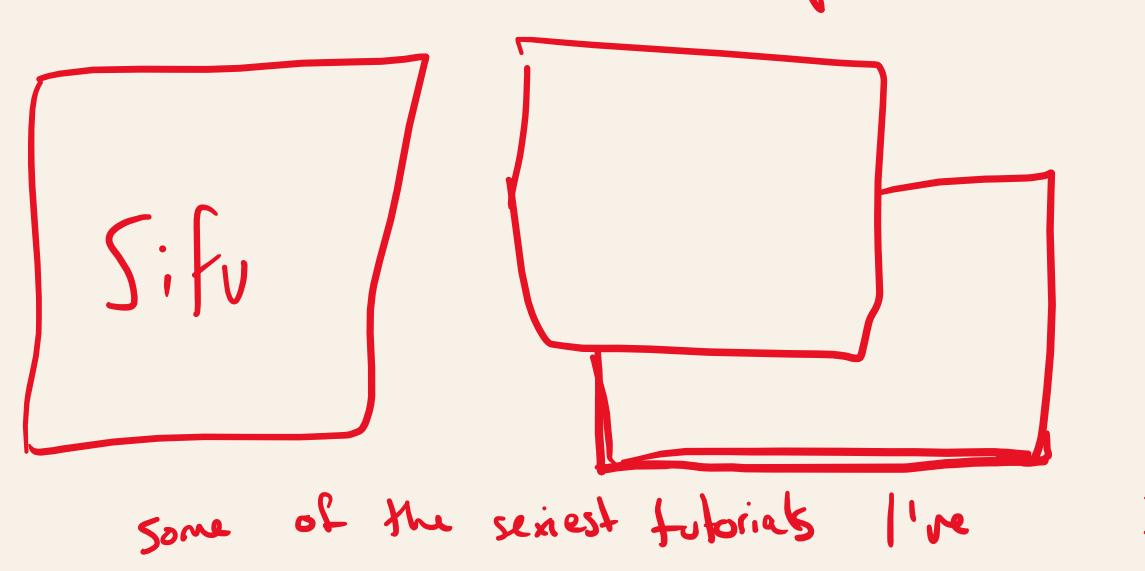
cut into the juicy change!



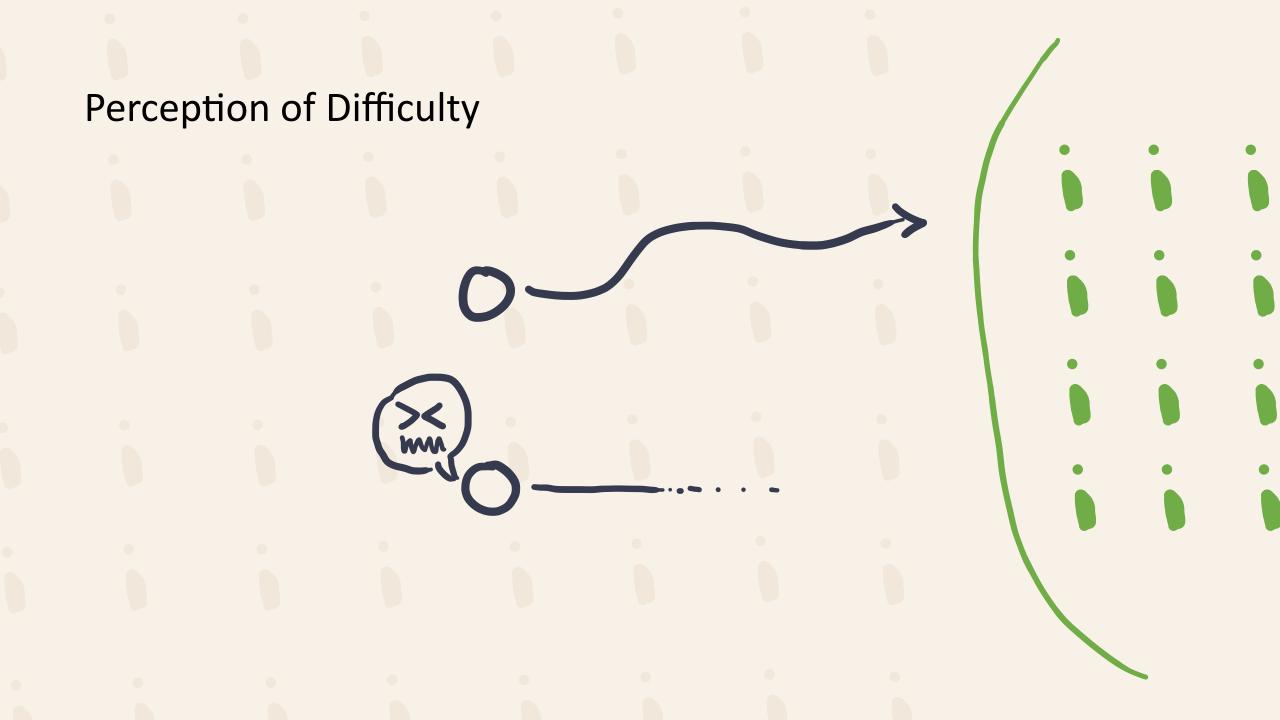


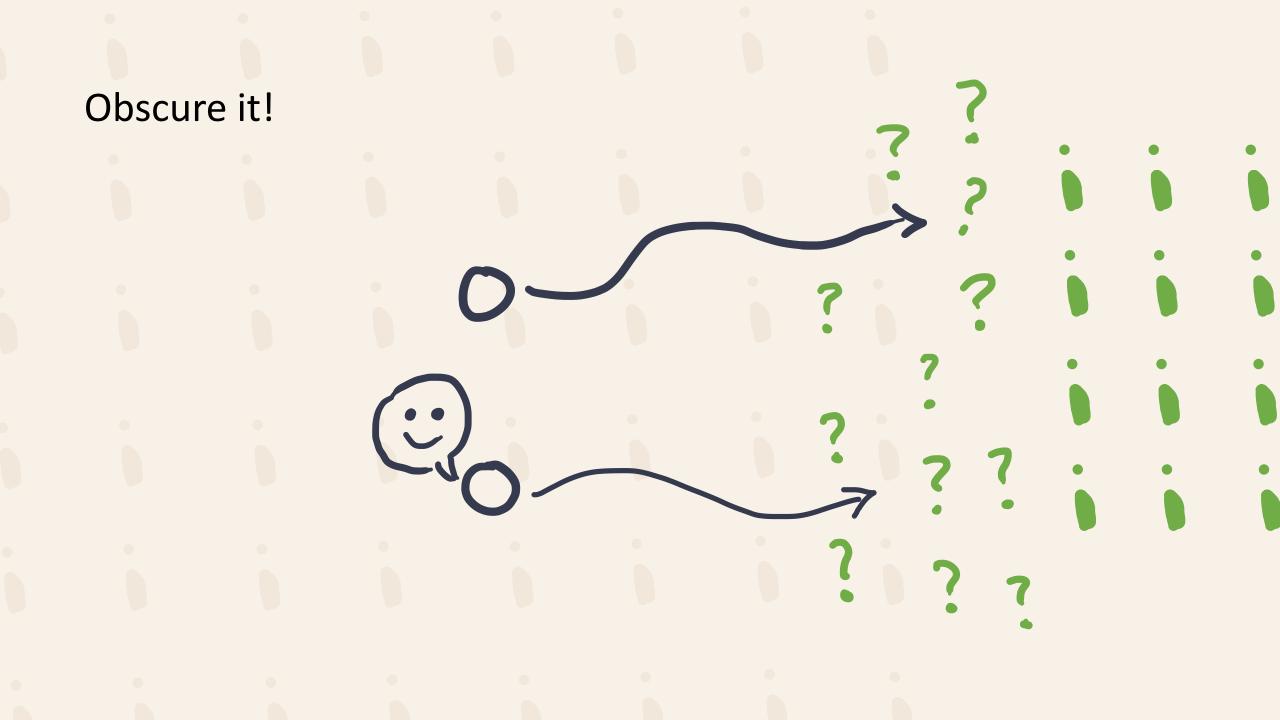
tytorials scattered treated as secrets

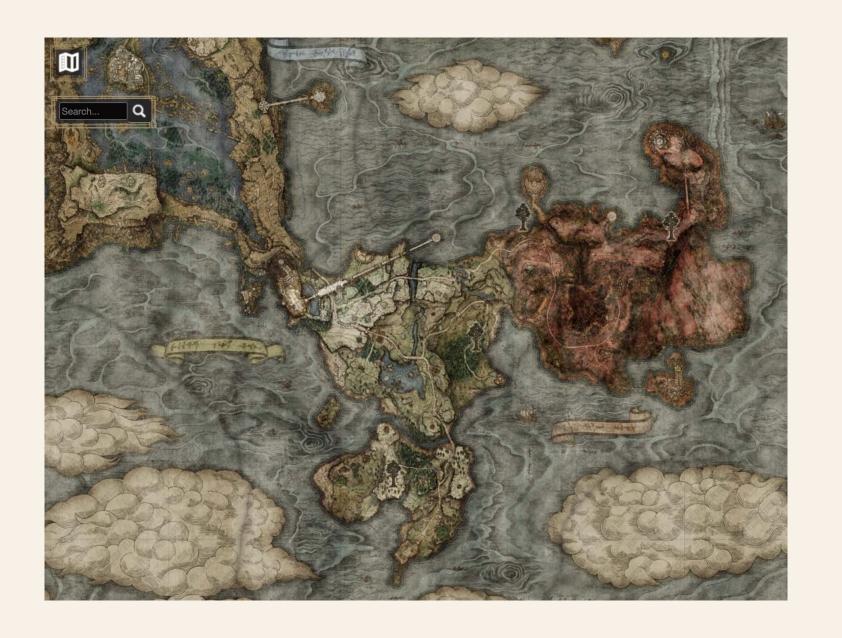
Cannot Proceed until success



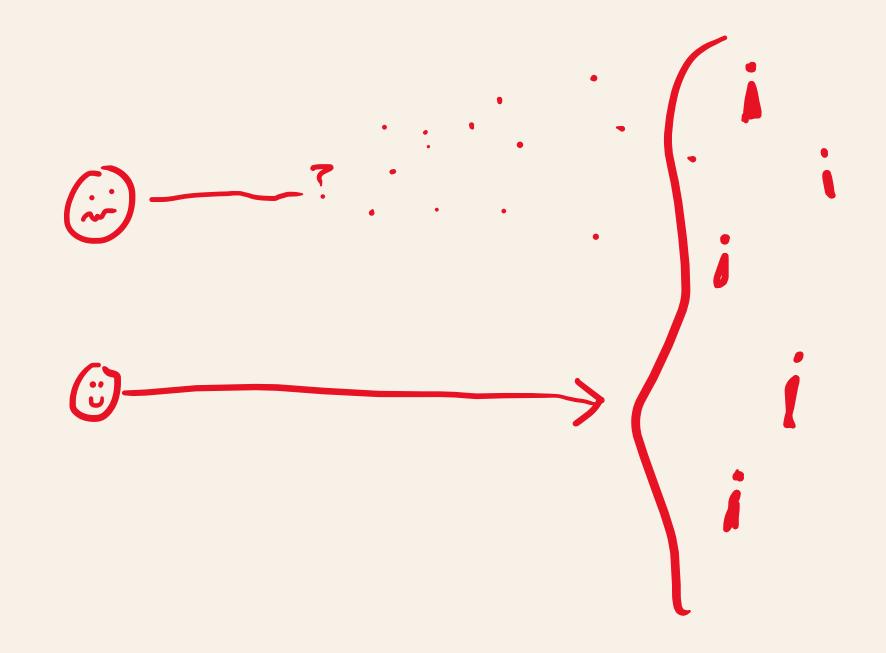
delivered at midpoint.



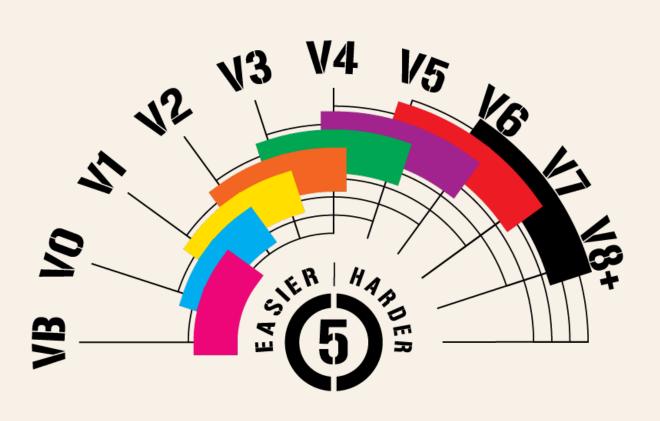




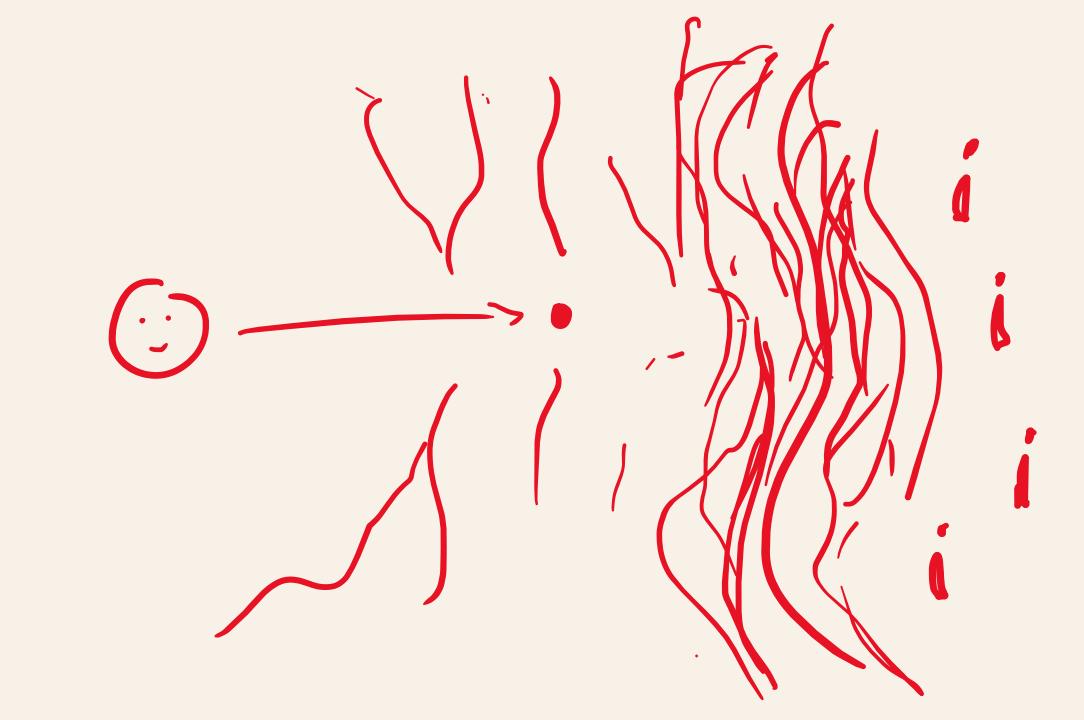




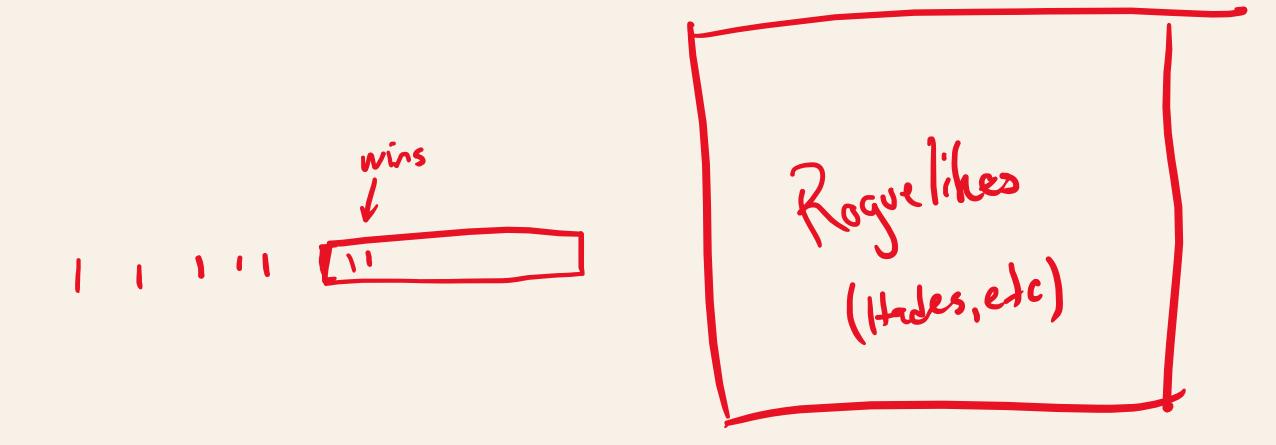
Strategy: Obscuring Difficulty

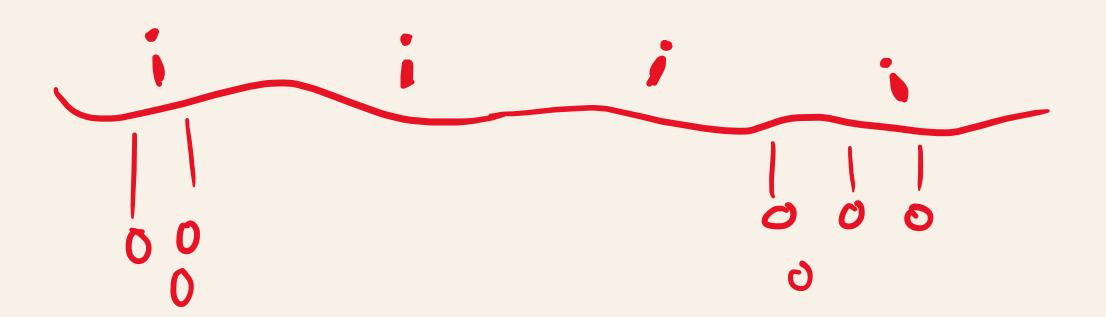


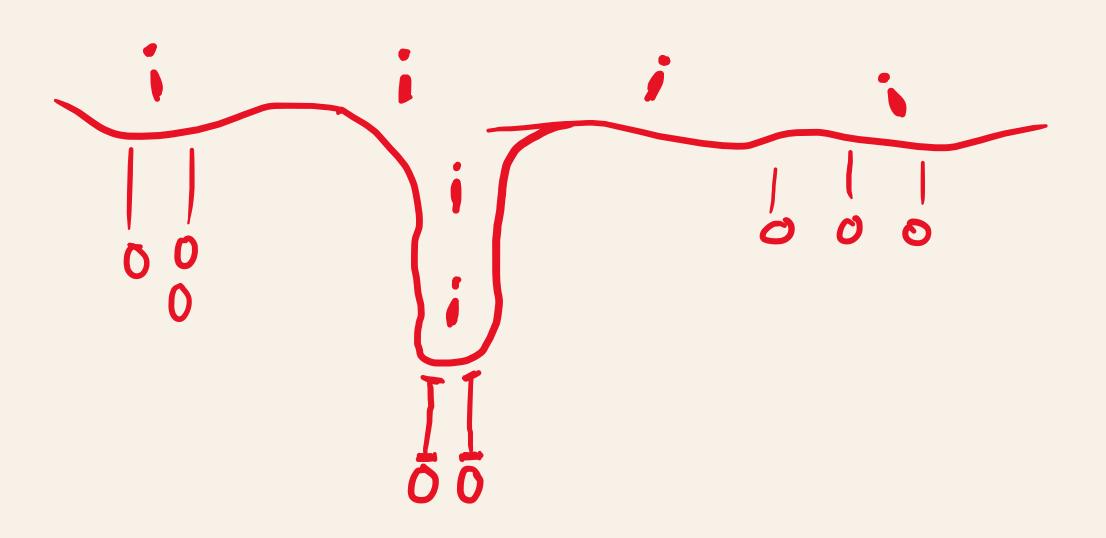


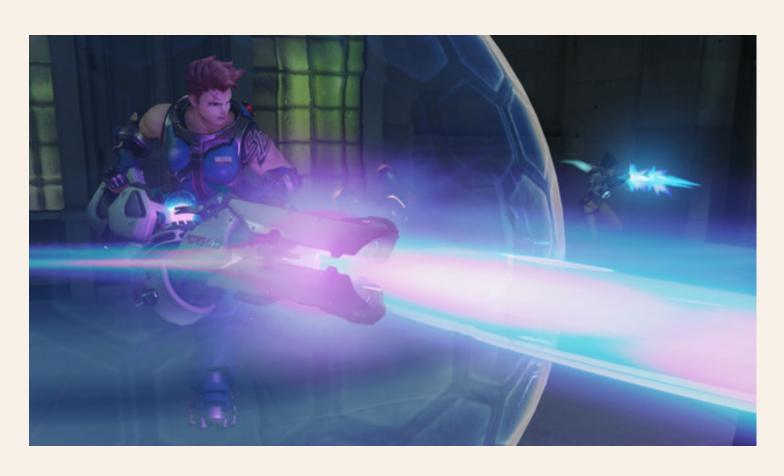


Gacha Game Difficulty



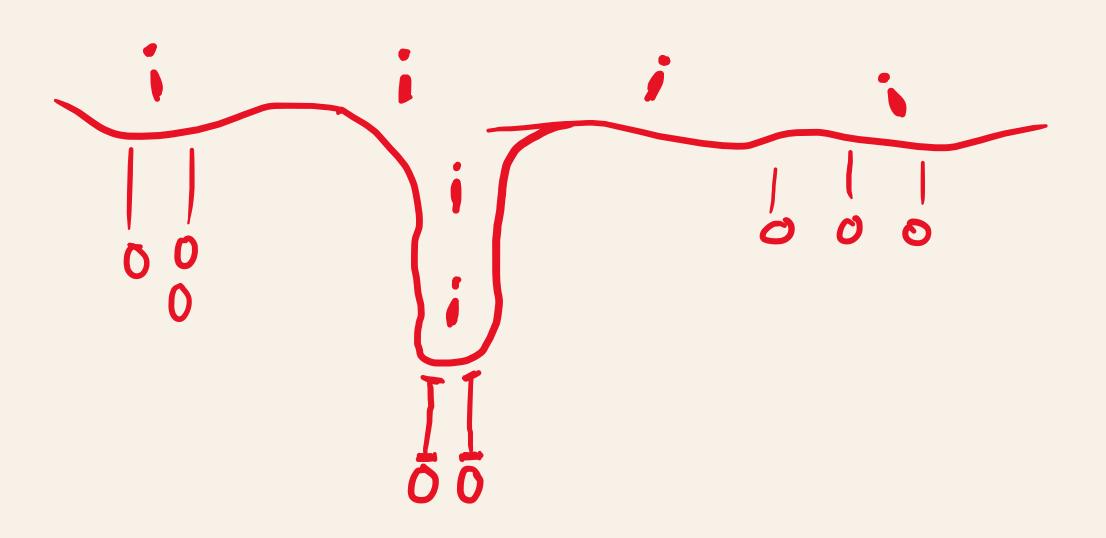


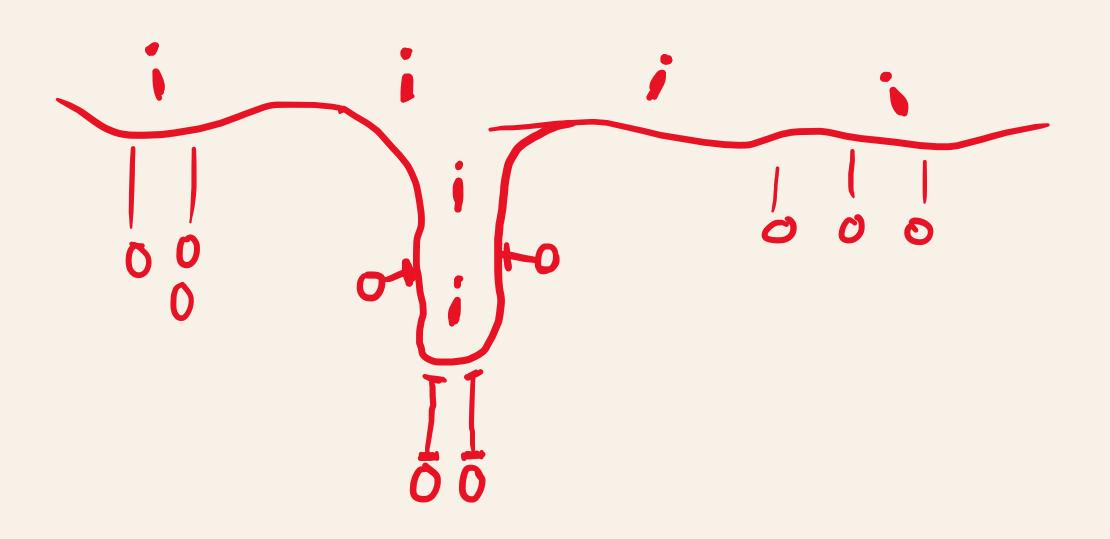






Specifically targets strategy, low-twitch skill players.







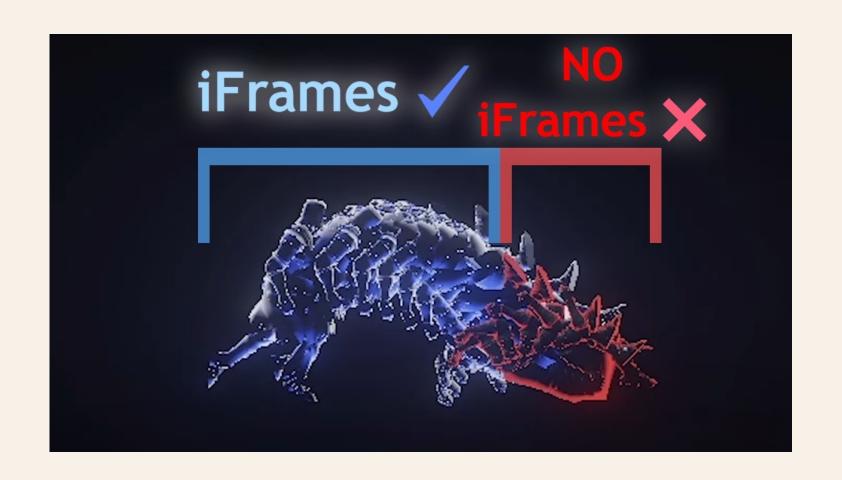


Have to be very careful about employing, because can accidentally grab the wrong people.

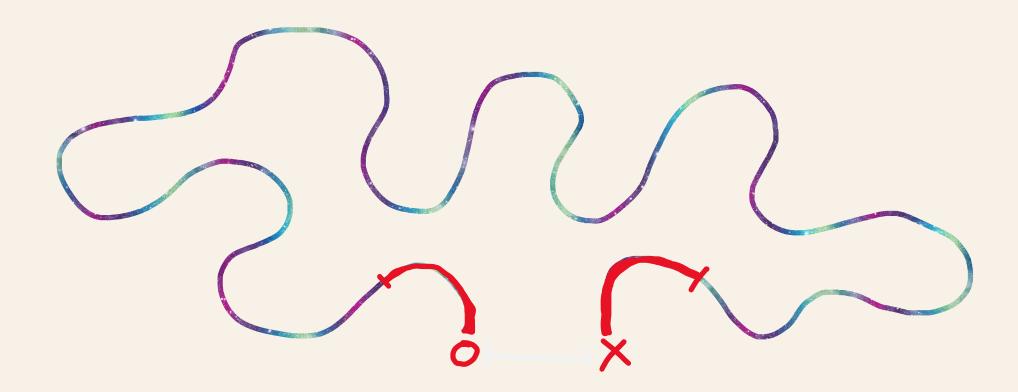
Difficulty Tolerance

Personal Islands





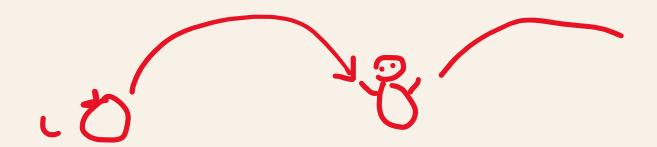






"on ramps"





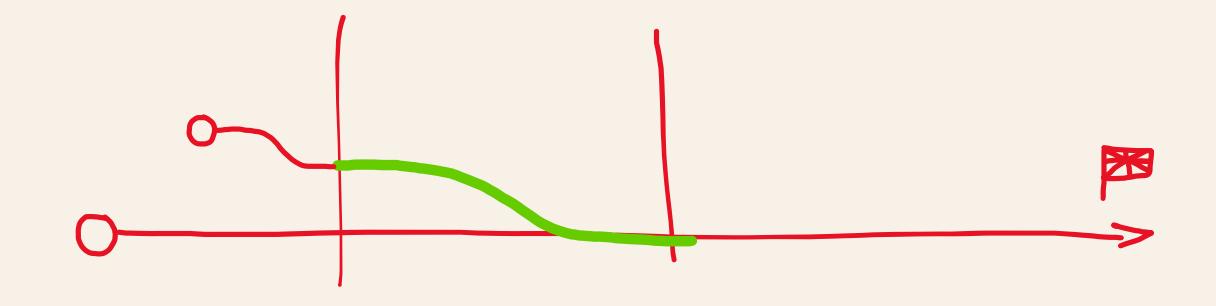
People wouldn't throw! Fundamental skill missing.



"on ramps"/"detours"

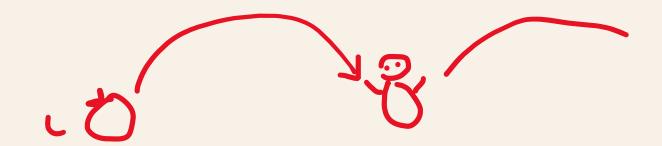


"on ramps"/"detours"



"on ramps"





Hot potato mechanic.

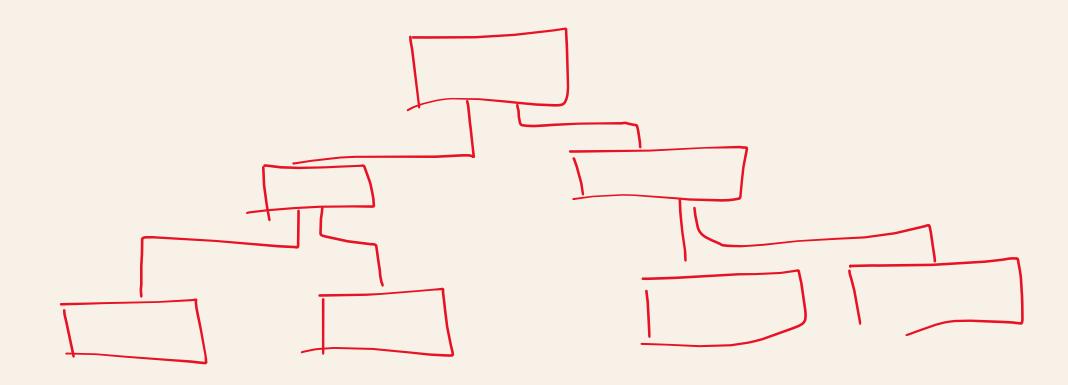
On Ramps

- A good on-ramp is double-duty. It isn't a content branch, it's a design branch. People play the same level, but get different value out of it.



Puzzle Game Design: Skill Trees

Sounds a lot like puzzle game design.



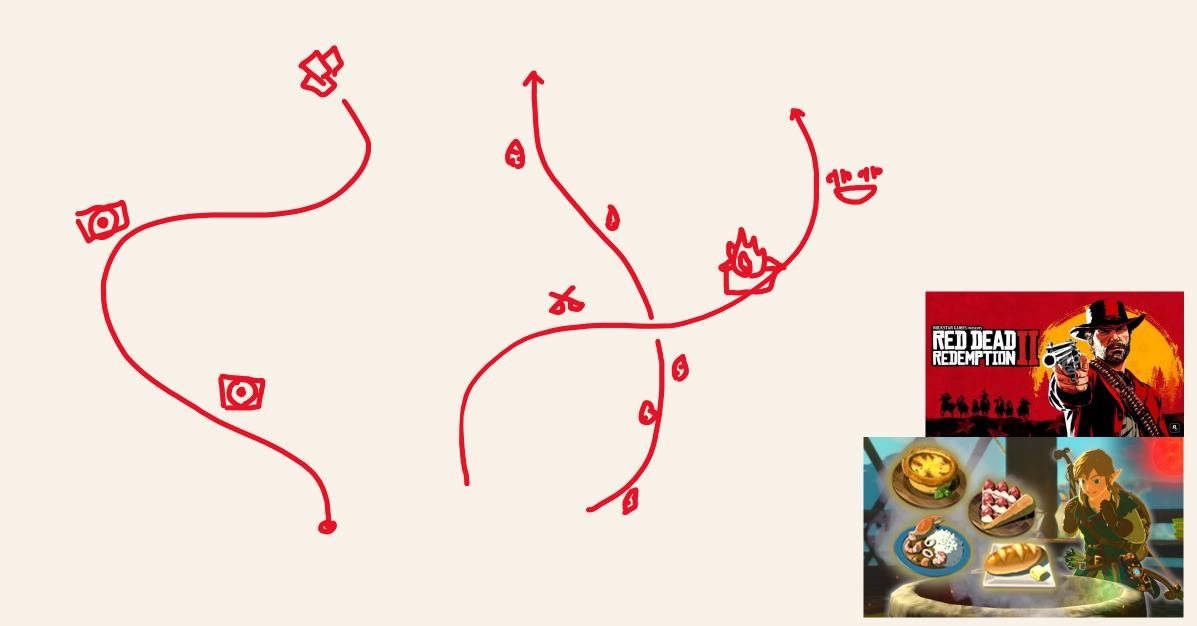
Puzzle Game Design: Skill Trees

All about learning!!! Give players multiple things to chew on and bounce between.

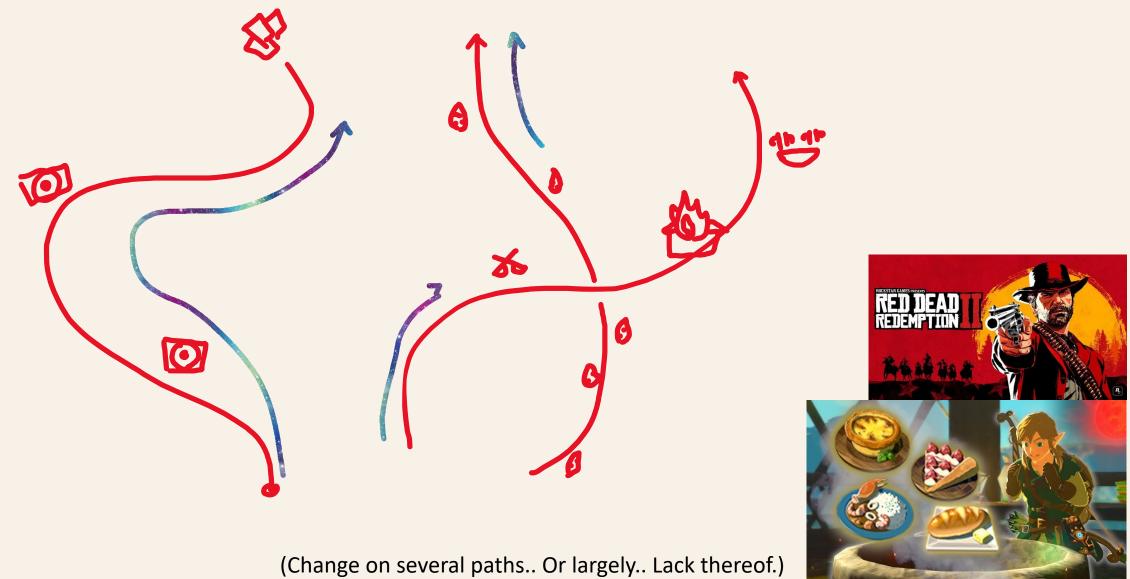




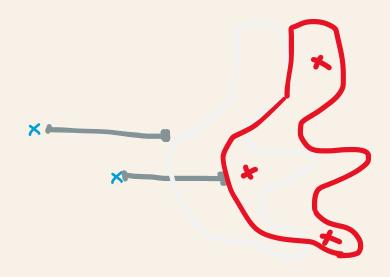


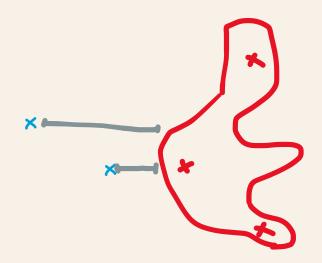


Kitchen Sink Game Design



What do you mean you want your game to be 'difficult'?





Relative Difficulty

Absolute Difficulty

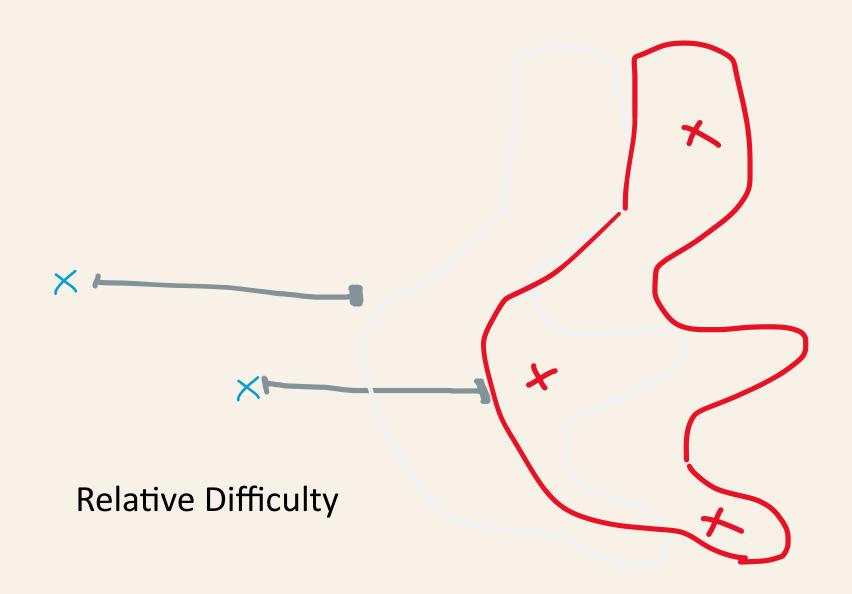
Absolute Difficulty



Relative Difficulty

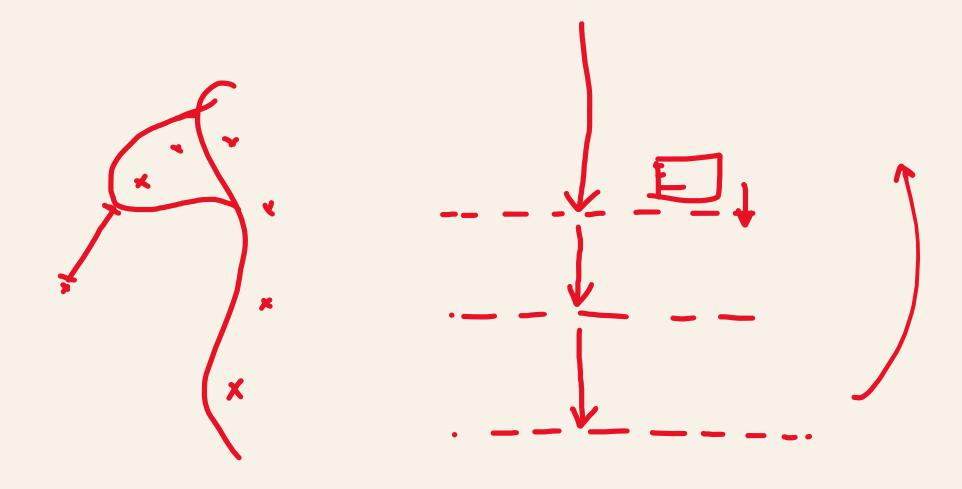
Hades Rogue-Lites Elden Ring

Pretty Much Most Modern
Games,
Iol





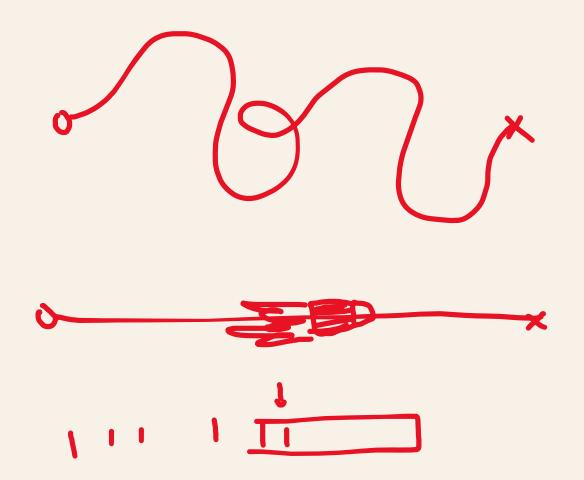
Loot Gambling – Double or Nothing



So should we make difficulty clear, so people can self-sort?

Not necessarily!

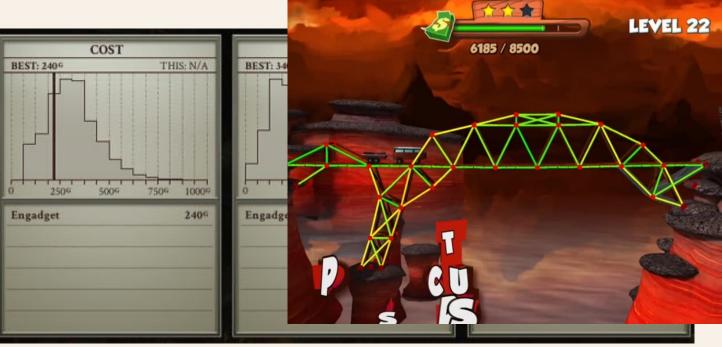
Strategy: Gacha Difficulty

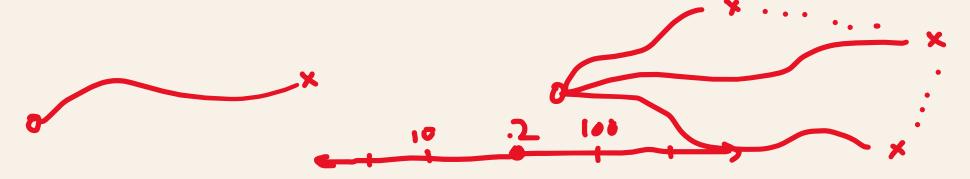


Nearly *all* games do this to some degree. Roguelikes especially.

Measurements – Zachtronics, The Last Clockwinder, Bridge Builder







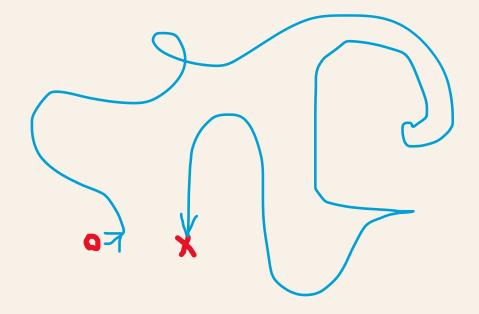
INSCRYPTION

KAVCEE'S MOD



"Shortest change path"

It almost feels like some 'change paths' are harder than others.
- objectively, i-frames is not a complex concept, but coming up with it yourself would
Be if you had no other input



The distance is close, but the change path is long!

Q: Is this hard? Or easy?

I suppose difficulty is measured on the shortest change path.



[deleted] · 7 yr. ago

I played the entire DS2 with 85 agility

lol





Senday Calline . 7 yr. ago

As did I. How the fuck was I supposed to know lol



Defining what makes something good is impossible. There's no 'truth' here.

Valuation Studies

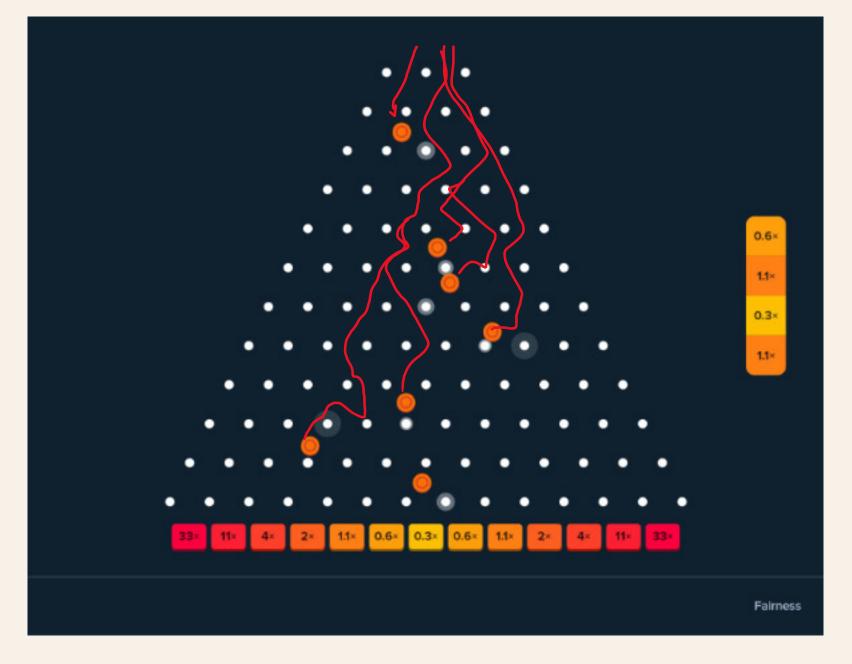
'What is a Good Tomato?' - https://pure.uva.nl/ws/files/1748752/148182_410329.pdf

https://valuationstudies.liu.se/

https://en.wikipedia.org/wiki/Sociology_of_valuation

(valuation tends to refer to 'financial valuation' but can be extended)

https://en.wikipedia.org/wiki/Art_valuation



Hot take: Good game design is about managing the plinko board of learning.

Strategy: Self-Sorting

