

Introduction to Game design

Trust me! It's just an introduction ;-)

Nana Tian 21/02/2022







Explosion of MetaVerse

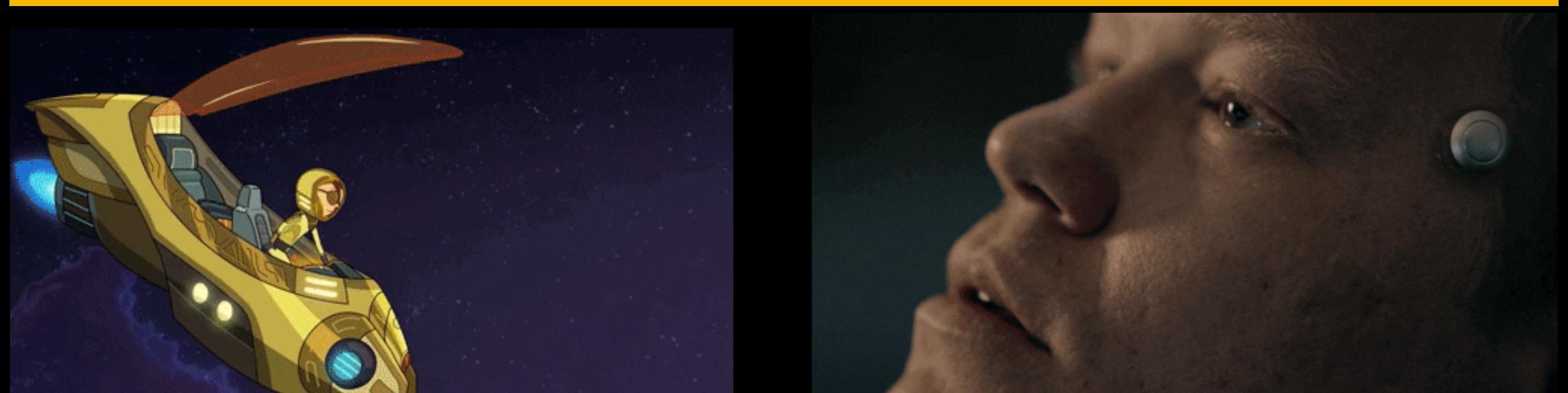
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EPFL The idea of MetaVerse





"When you live in a shithole, there's always the Metaverse, and in the Metaverse, Hiro Protagonist is a warrior prince." Snow Crash by Neal Stephenson





MetaVerse from a game perspective



Second life





Minecraft



Fornite





Core mechanisms of MetaVerse



Immersive experiences



Virtual Economy



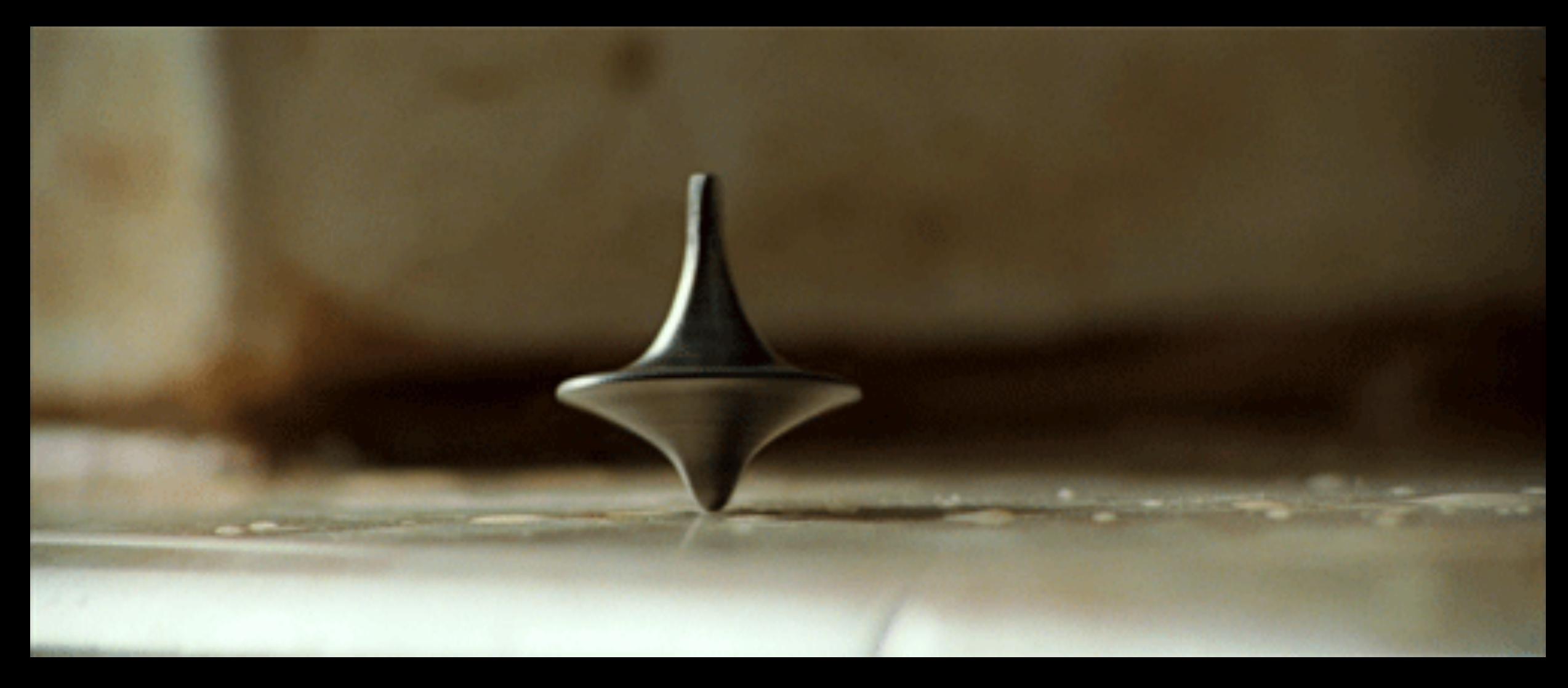
Virtual Identity



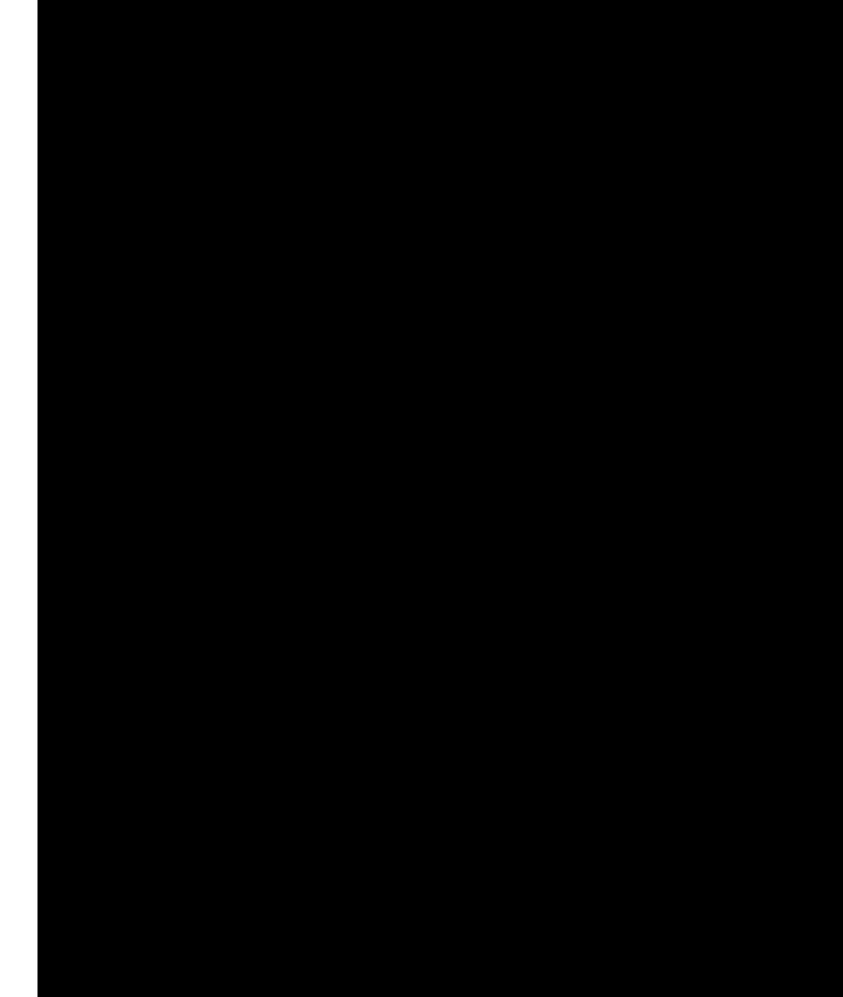
• Virtual community rules



Back to the Reality (Limitations)



Back to the Reality (Limitations)





Back to the Reality (Limitations)



True Reality

This is just an Introduction!

Game Design is a pretty broad topic!

What is Game Design?

Game design is the act of deciding what a game should be¹.

¹The Art of Game Design by Jesse Schell, CRC Press (2008)



hat is Game D SPA M Boy

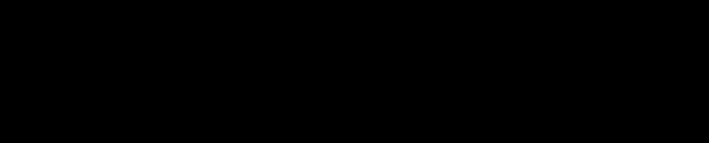
我们经常交流想法 We bounce ideas off each other.



Inspiration: The tricks are to constantly listen and observe.

我想 我做游戏就是为了自我表达 I make games to express myself, I guess.







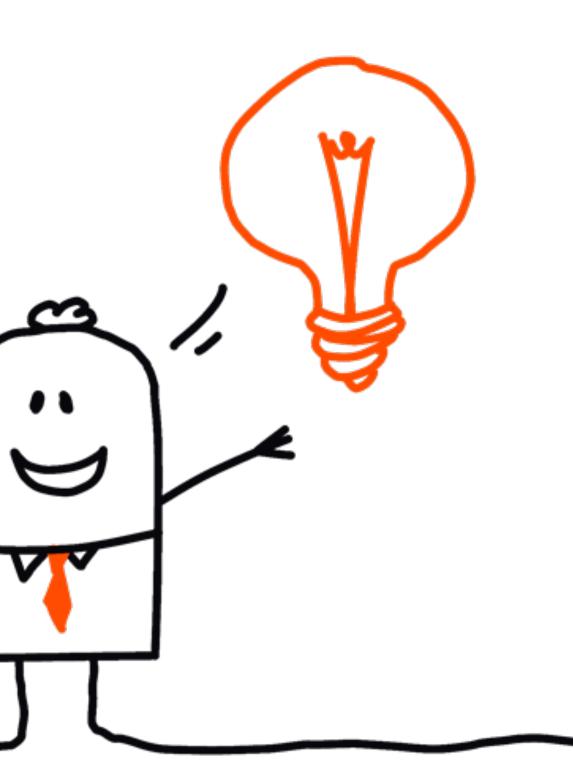


Mild Violence

Before you formulate your idea

- What kind of experience you want to deliver?
- What kind of problem you want the player to solve?

The Game improves through Iteration



初始版本 Origin如果你把这个初始版本和成品比较而不 If you look at the prototype, and the final game,

З

SEWER

ACCESS

8

6

SEWER

ACCESS



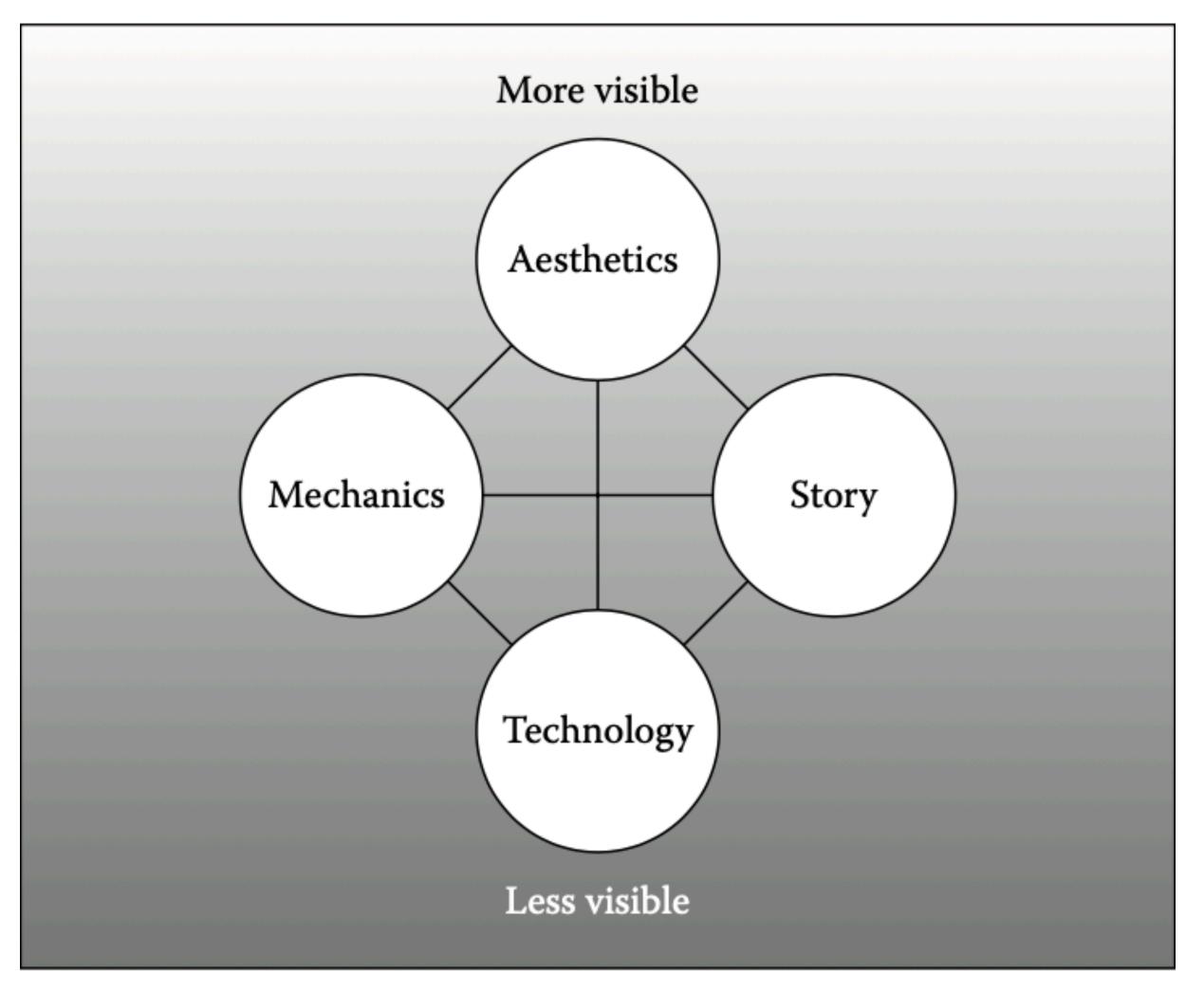


Game Concepts and Structure

What makes a game... a game?



Four Basic Elements: (Theoretically)



¹The Art of Game Design by Jesse Schell, CRC Press (2008)

Game mechanics

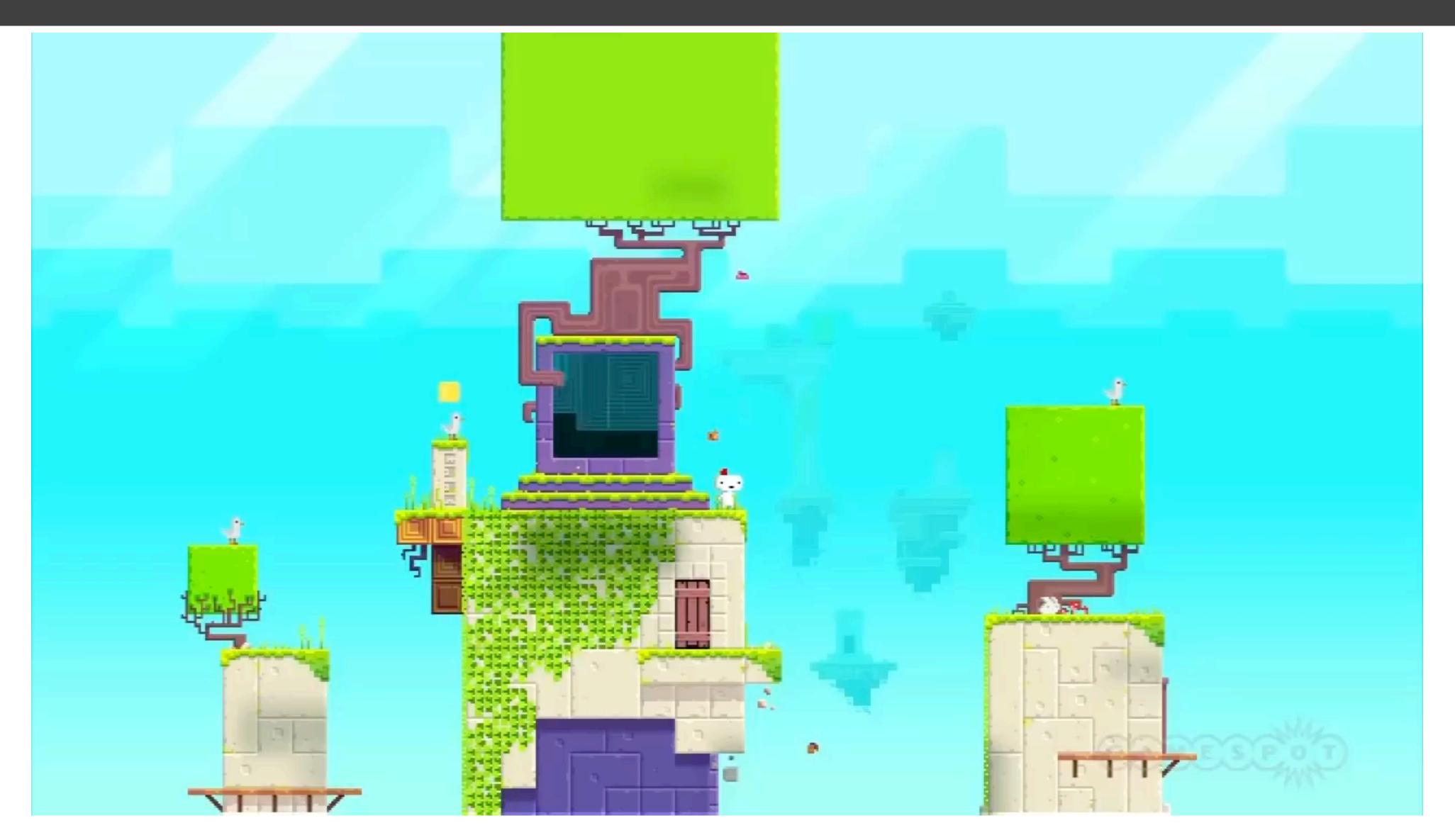
One one level, game mechanics are very objective, clearly stated sets of rules.





Mechanics(Space) – Example of Minecraft

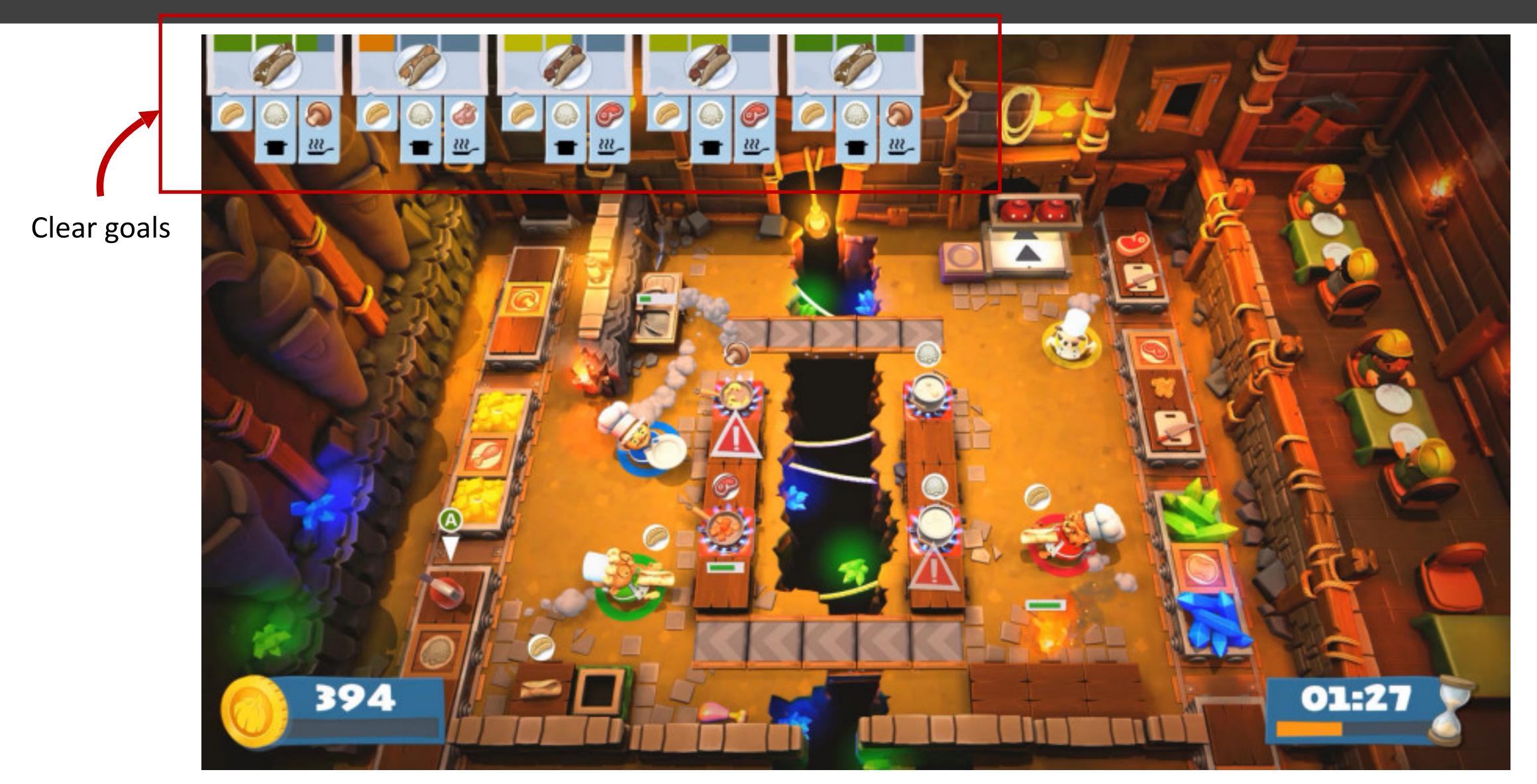
Mechanics(Space) – Example of Fez





Mechanics(Space) – Example of Miegakure

Mechanics(Time) – Example of Overcooked 2



Mechanics(Time) — Braid





Mechanics(Objects, Attributes, States) – Example of Don't starve



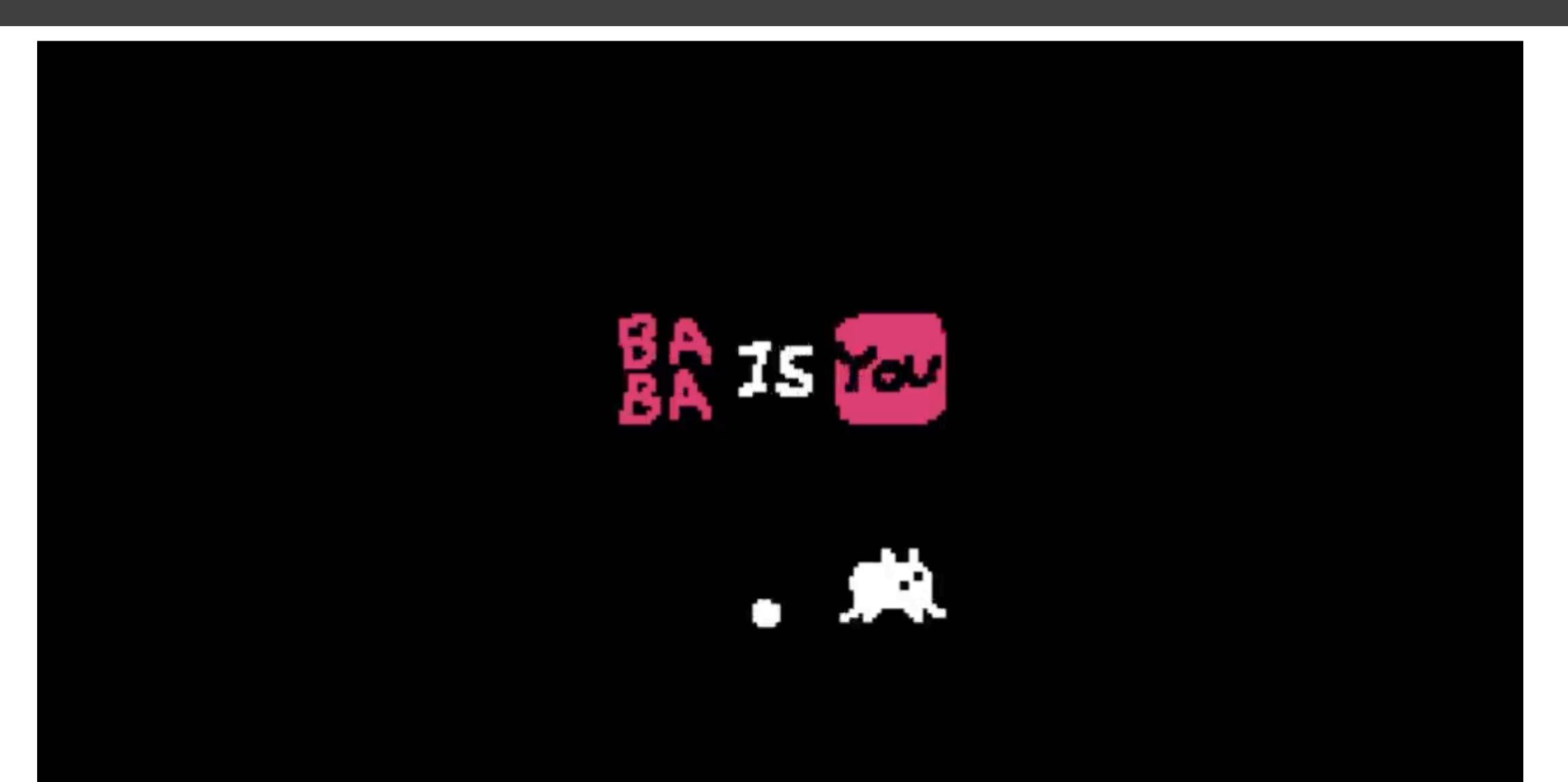
The Strongman

"I am mighty! No one is mightier!"

FLAY

*Higher health, bigger stomach *Hits harder Attributes

Mechanics(Objects, Attributes, States) – Example of Baba is you







Good Game goals

- Concrete
- Achievable
- Rewarding

Mechanics (Rules)



TO THE MOON

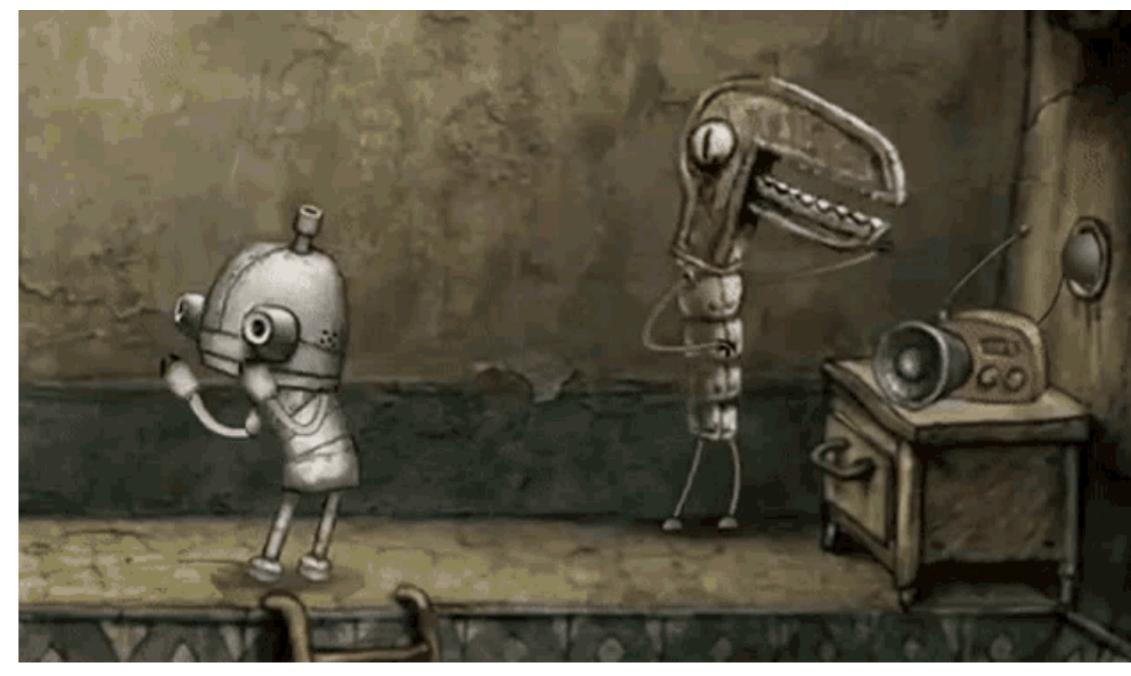
The narrative in games consists of the plot, sounds, music, atmosphere, dialogues, player choices and, of course, gameplay. It creates the overall impression of a game and allows the player to feel like part of a story.

Narrative (Honorable mention)





What Remains of Edith Finch



Machinarium





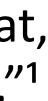
Cuphead



Conclusion

"The Game Designer plans the structural elements of a system that, when set in motion by the players, creates an interactive experience."¹

¹Tracy Fullerton in Game Design Workshop (3rd Ed.), 2014.





Play To Understand



Think about your favourite game. Why is it so enjoyable?



Observe yourself playing and write down: What you are doing? How you are feeling?

Task

The Player and the Game Design Perspectives (Dissecting a Game)



Super Mario (2D)

Can you describe this game?

What makes it *so good*?

...or what makes it **so bad**?



Super Mario (2D)

Jumping feels great!

- Intuitive Control
- Jumping is probably the most important mechanic in this game!

Challenging the player to master this *mechanic*

- Great level design
- Multiple ways to explore them
- Secrets!



Understand and pin-point exactly what makes your game good/bad/interesting...

Ideally, understand why someone else thinks your game is good/bad/interesting...

Why Game Dissection is Important?

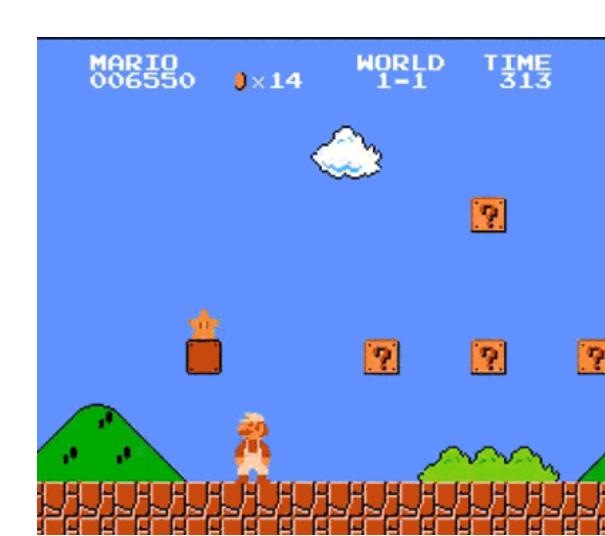


In Two Weeks...

Brainstorming, Playtesting and Prototyping!

Advice for better VR game designs

- The **tutorial** is important!
- Interaction Feedback is importaaaaaant!
- Less cybersickness is importaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa



Tutorials!!

在开始的关卡中 你必须教会玩家怎么玩 when you start out, you want to teach the player how to play.



What makes a good tutorial

- Less text
- Interactive
- Don't front-load
- Make it Fun
- Play testing

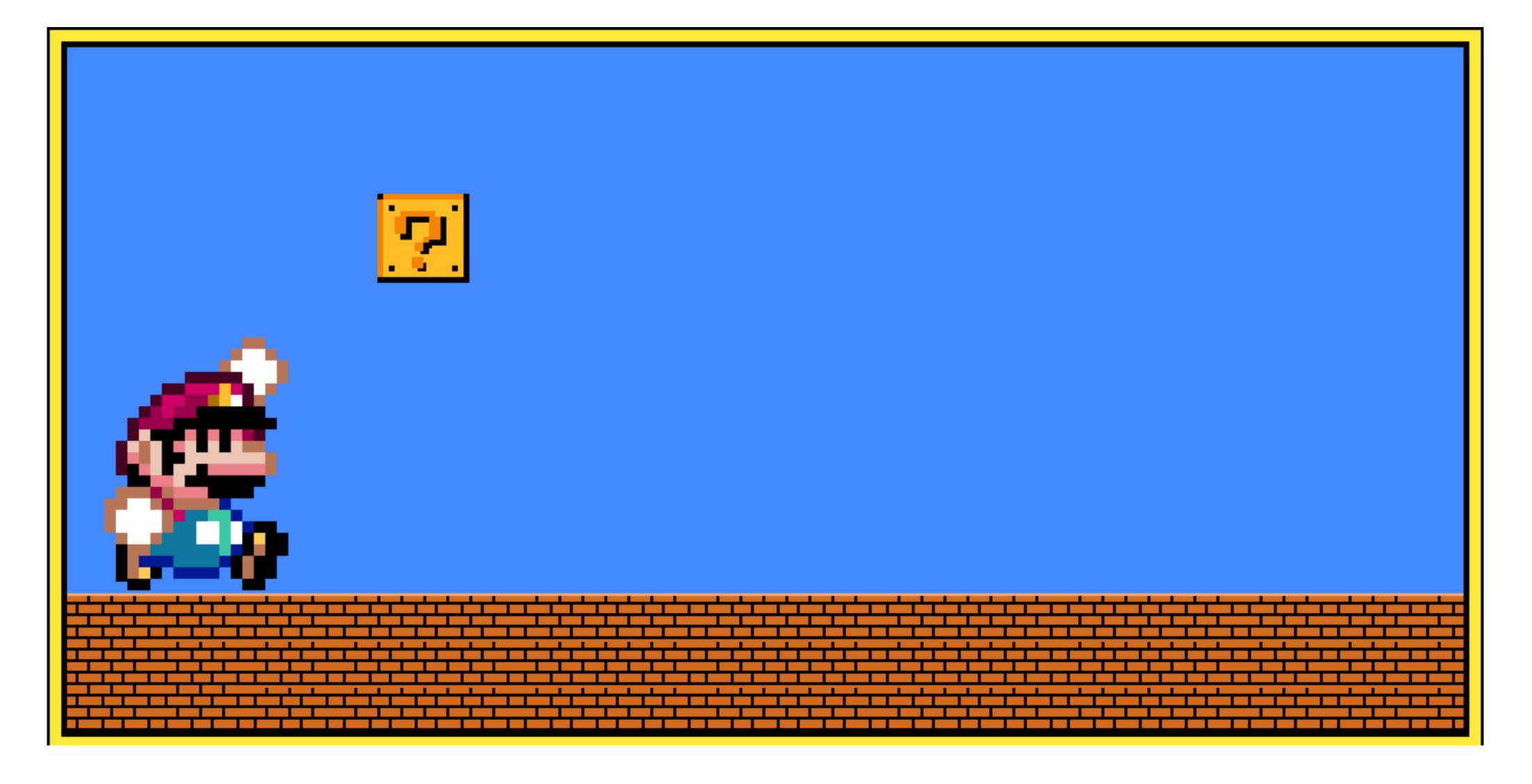
• Skippable







Interaction Feedback (Visual feedback)



Interaction Feedback (Sound feedback)

TOTAL TASKS COMPLETED

Lab-Outer: Repair Drill Lab: Destropy Asteroids Office: Fill Water Jugs Storage: Flip some switches lol Communications: Upload Files Lab: Record Temperature



Interaction Feedback (Tactile feedback)





Consideration of minimising cybersickness





Constant speed - Pistol whip

The End







References

- The Art of Game Design 2nd Ed. Jesse Schell
- Game Design Workshop 3rd Ed. Tracy Fullerton
- Indie Game: The movie. —Documentary/Drama.

– Jesse Schell – Tracy Fullerton mentary/Drama.

