



GAME NARRATIVE

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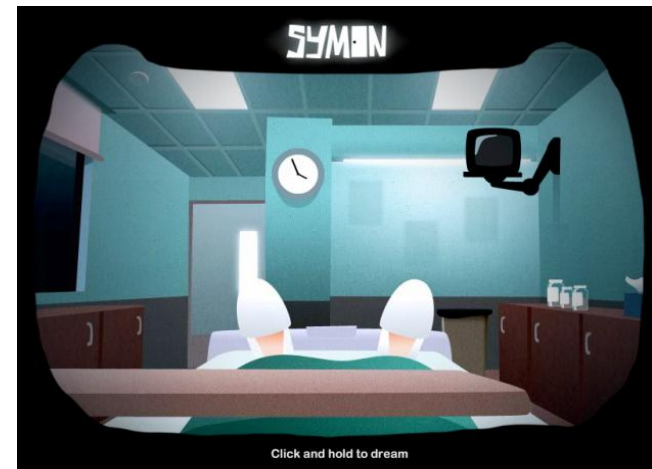
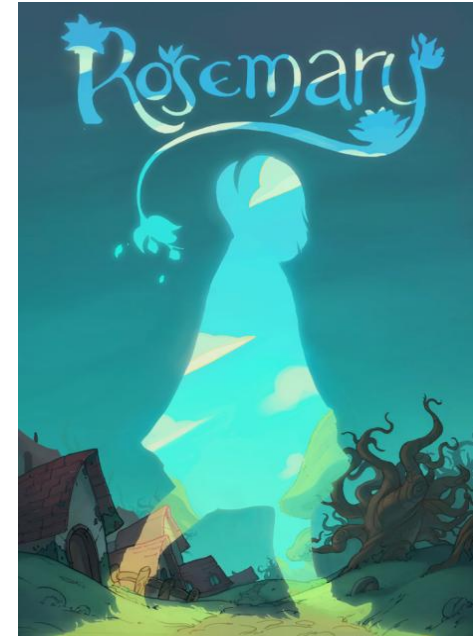
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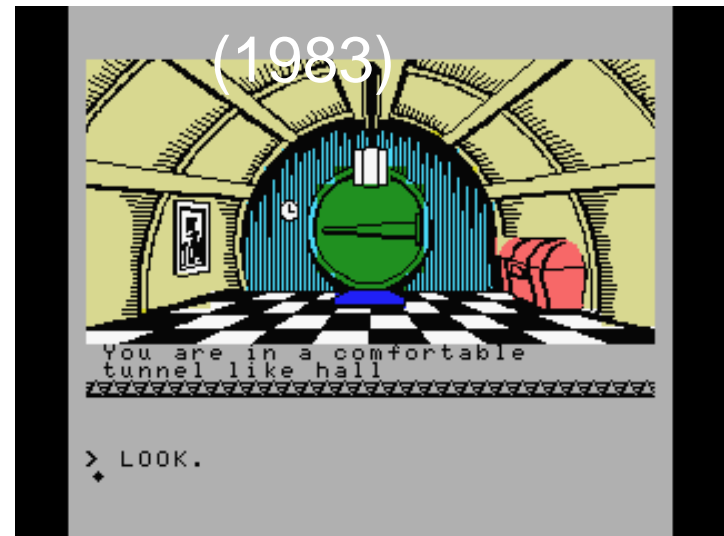
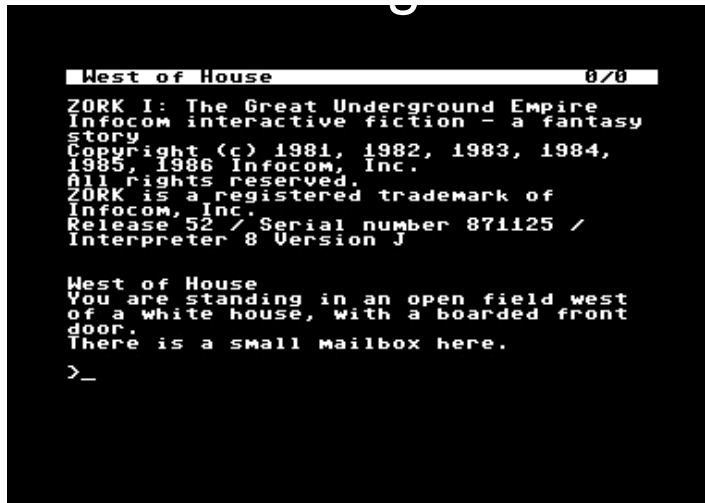
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Puzzle Writing: Best Practices

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Singapore-MIT GAMBIT Game Lab

Who am I?





Summary

- ④ What is a puzzle?
- ④ Puzzle patterns
- ④ Evaluating your puzzle

What is a puzzle?

- ⌚ It's a problem in need of one solution
- ⌚ ... but ideally more than one path to that solution.
- ⌚ Not a competitive challenge.
- ⌚ Requires more thinking than skills.



What is a puzzle?

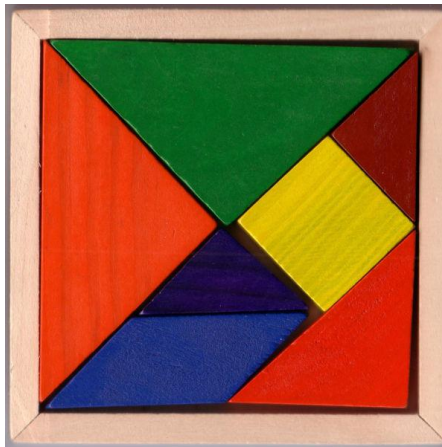
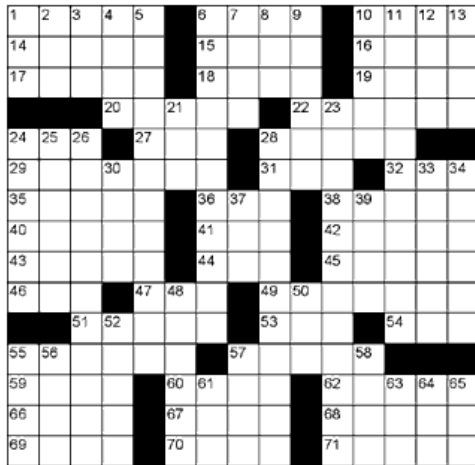
- ⌚ It's a mystery that we feel compelled to solve.
- ⌚ It's a gap that the player has to fill.



See Danesi, Marcel. The Puzzle Instinct. Bloomington, IN: Indiana University Press, 2002.

What is a puzzle?

- ⌚ In order to solve the puzzle, the player needs to achieve insight.
- ⌚ Insight provides pleasure: feeling clever is fun.
- ⌚ Insight can be incremental.









Integrating Puzzles and Story

- ⌚ A single solution helps bringing the player to a specific situation once the puzzle is solved.
- ⌚ Characters and props in the puzzle should also be part of the story.



The Contract Between Designer and Player

- ⦿ Games where puzzle and story and game are integrated have an implicit contract.
 - ⦿ If the player is too difficult, or too easy so there is no challenge, the player will lose interest.
 - ⦿ If the player gives up, she will not experience the story.
- ⦿ The puzzle has to be **fair** to the player.
 - ⦿ Player must have all the information needed to solve the puzzle.
 - ⦿ In videogames, designers should not be trying to prove their cleverness, but helping the player feel clever.

Puzzle Patterns

- ④ Different ways to achieve insight
 - ④ Selective Encoding
 - ④ Selective Comparison
 - ④ Selective Combination

From Sternberg, Robert. Beyond IQ: A Triarchic Theory of Human Intelligence. Cambridge: Cambridge University Press, 1985.

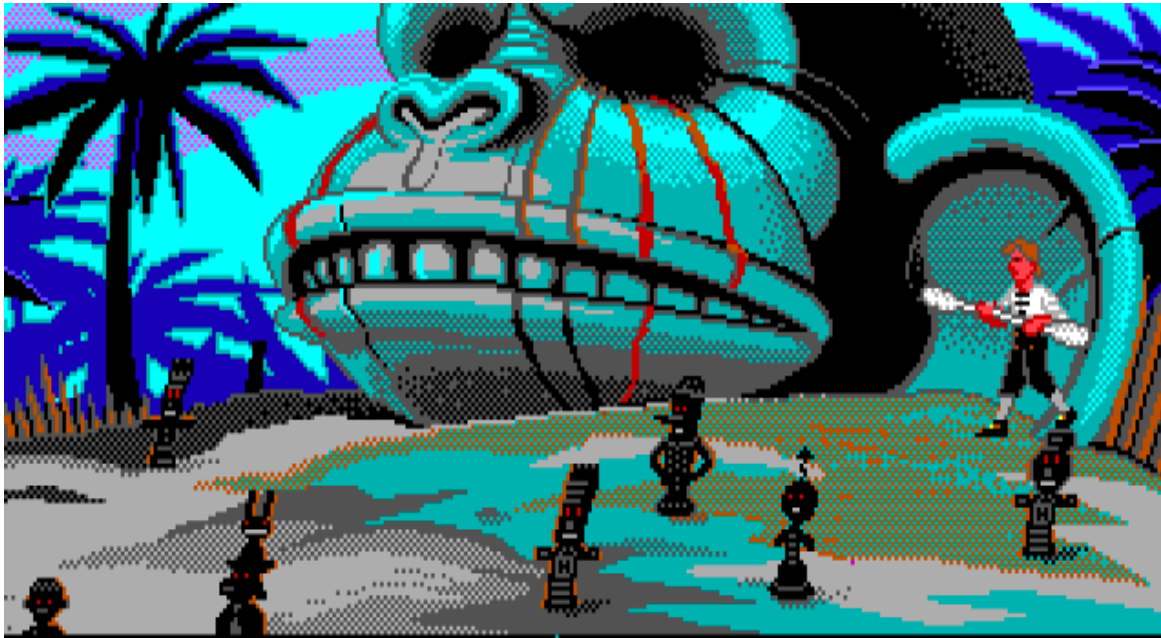
Selective Encoding

- ⌚ Making apparently irrelevant information relevant.



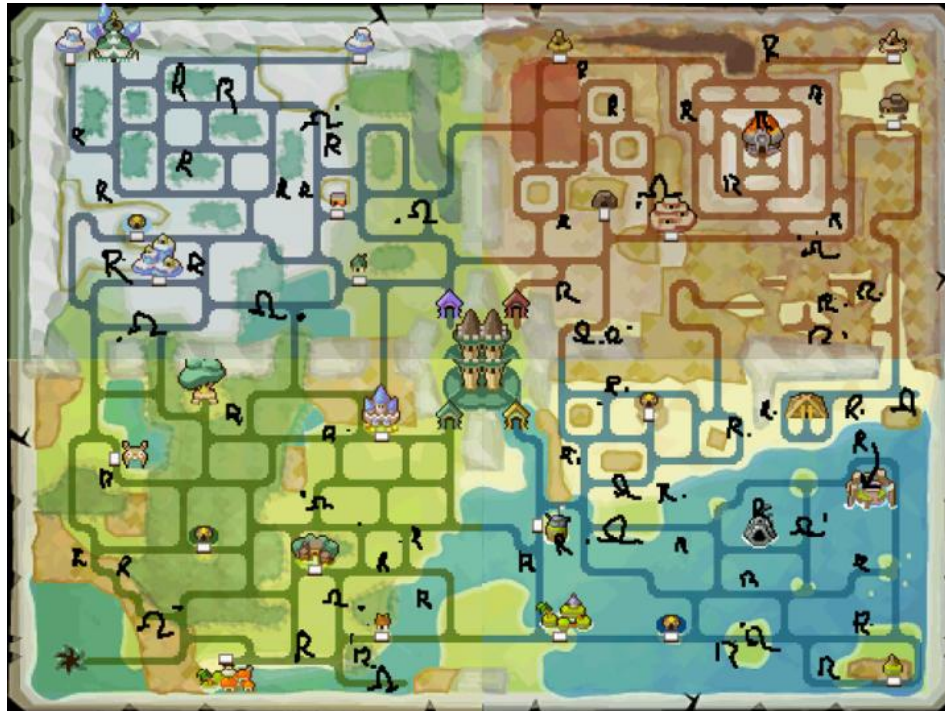
Selective Comparison

- ⌚ Using analogies and metaphors, in order to draw a non-obvious relationship between two pieces of information.



Selective Combination

- ⌚ Joining pieces of information in order to form a novel one.



Evaluating Your Puzzles

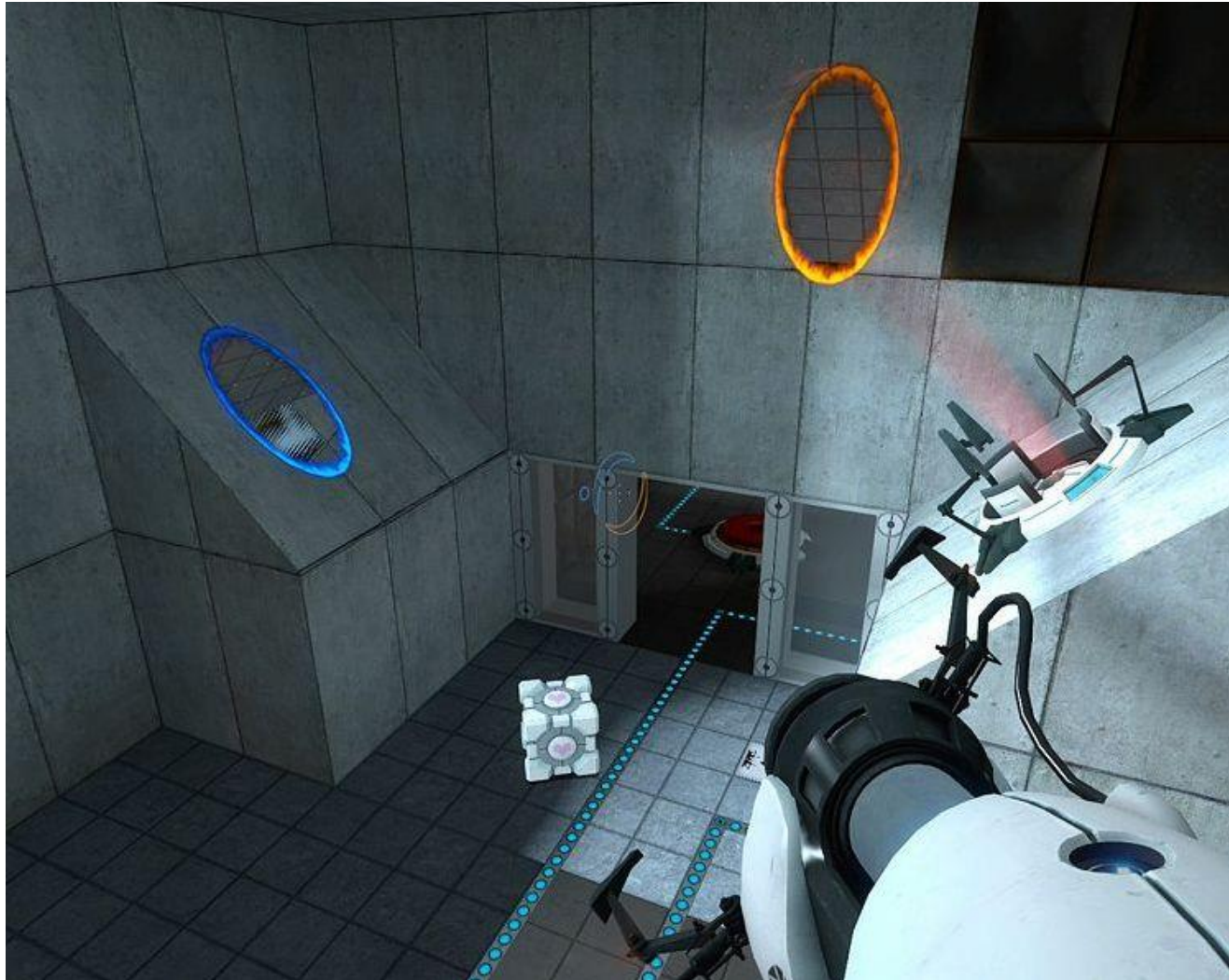
- ⌚ Writers/designers can evaluate their puzzles even before they are implemented.
- ⌚ What follows is a checklist, in the form of questions, to ask oneself before implementing the game.
- ⌚ This list is not a substitute for playtesting.

Evaluating Your Puzzles: The Basics

- ④ What knowledge does the player need to solve the puzzle?

Knowledge of the world

- ④ Socio-cultural activities
 - ④ Math
 - ④ Physics
 - ④ Logic
- ④ If the knowledge does not come from everyday life, is it provided in the game?
How is the information given?



Evaluating Your Puzzles: Integrating Puzzles and Story

- ⌚ Does the puzzle include characters and objects from the story?
- ⌚ Does the solution to the puzzle constitute an event in the story?







Evaluating Your Puzzles: Difficulty

- ⌚ If knowledge of the world is needed to solve the puzzle, how specific is it?
- ⌚ If the knowledge is given in the game:
 - ⌚ How far apart is the information provided?
 - ⌚ How accessible is the information?
 - ⌚ Is the information redundant?
 - ⌚ Can it be re-accessed?







Evaluating Your Puzzles: Localization

- ⌚ Is the puzzle based on puns or specific cultural knowledge?



Evaluating Your Puzzles: Usability

- ④ How obvious is it that there is a puzzle?
- ④ How obvious are the pieces of information?

See Randy Smith's talk at GDC 2009: Helping Your Players Feel Smart: Puzzles as User Interface



Conclusion

- ⌚ Puzzles are one of the devices that bring together writing and game design.
- ⌚ Designers / writers should respect the contract with the player to provide a fair puzzle.
- ⌚ Most puzzles can be solved by following three basic types of thinking.
- ⌚ Many of these principles also apply to math / physics/ logic puzzles.

Thank you for listening!
Questions?

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Note

- ⌚ This presentation is directed to writers / designers.
- ⌚ It focuses on integrating puzzles in the story.
- ⌚ Puzzles are highly dependent on environmental narrative, so they involve all disciplines.



Selective Encoding

- ⌚ Making apparently irrelevant information relevant.



