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Chasing the Information Horizon: Designing Information Driven Games

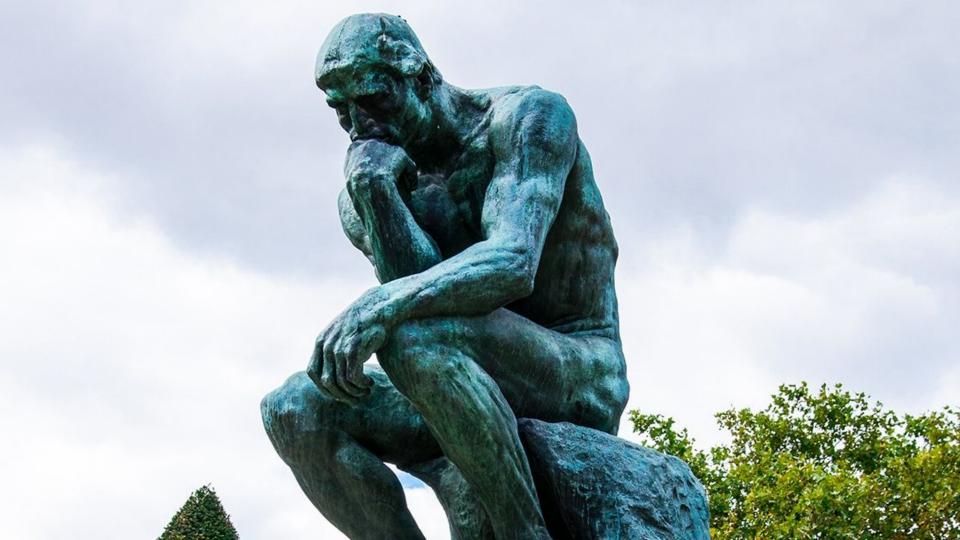
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Overview

- What is the Information Horizon?
- Information Game Loop
- Horizon Length
- Hidden and Partial Information

What is the Information Horizon?

Information Horizon

- Games are possibility space generators
- The player is an explorer of possibility space
- The Known-Unknown. The edge of what the player can see.



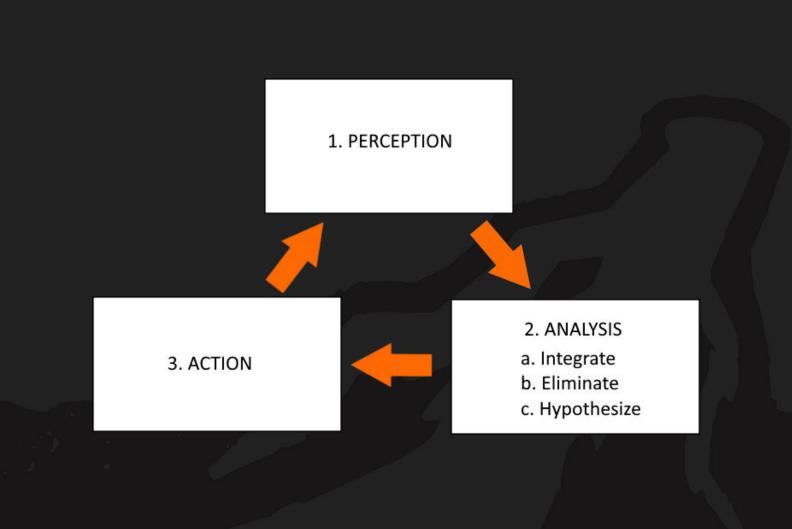








Information Game Loop

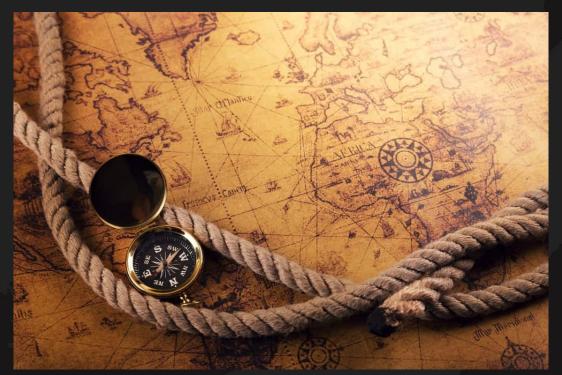


1. Perception - The Lookout

- The player gains information about the possibility space
- Can be active or passive



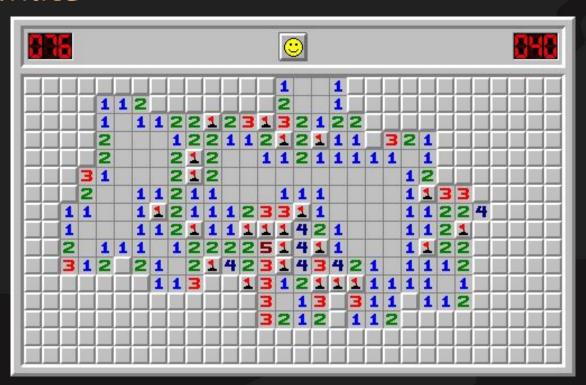
2. Analysis - The Navigator



2a. Integrate



2b. Eliminate



2c. Hypothesis

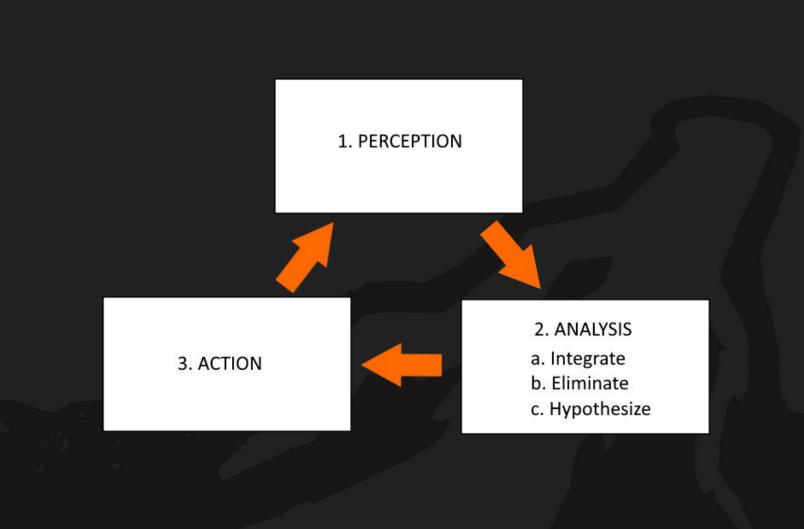
- The player makes their best guess about the Information Horizon.
- Most important and satisfying step since it uses the player's imagination.



3. Action - The Pilot







Making an Engaging Information Game Loop

- Consistent Mechanics
- Tools over Events
- Inflow of Relevant Information

Horizon Length

Horizon Length



Long Horizons - Deterministic Gameplay



Short Horizons - Probabilistic Gameplay



Information Fatigue



Hidden and Partial Information

Hidden and Partial Information







Takeaways

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- The Information Horizon is the known-unknown part of the game.
- The 3-step Information Game Loop Perception, Analysis, Action is how players engage with the Information Horizon.
- The Horizon Length changes how deterministic or probabilistic the game becomes.
- Use hidden (but discoverable!) information to have the benefits of both!



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