Generative Als for Games DLAI7 - July 21, 2023

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Generative Al for Game

- Game Design and Development Process
- As a Part of the Game









Generative Al for Game Game Design and Development Process

- Ideation
- Prototyping
- Content generation
 - Graphical assets
 - Narrative elements
- Game Testing
- PR/Marketing/etc.







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- As a Game Engine
- Procedural Content Generation (PCG)
- New Game Mechanics









- As a Game Engine, e.g., text-based adventure game, visual novel
 - Prompt-based Game
- Procedural Content Generation (PCG)
- New Game Mechanics/Features









- As a Game Engine
- generation
- New Game Mechanics/Features

Procedural Content Generation (PCG), e.g., dynamic storyline, narrative







- As a Game Engine
- Procedural Content Generation (PCG)
- New Game Mechanics/Features
 - Accessibility, e.g., automatic translation

Personalization, e.g., automatically adjust dialogue to user behaviors







Risks, Biases, and Ethical Considerations

- Biases
 - Datasets
 - Alignment process
- Misuses
- Adversarial attacks
- Accessibility
- Misinformation
 - Hallucinations (confabulation)







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