CPSC 586 Game Al Richard Zhao (PLAY



About me

Richard Zhao "The Game Guy"



Serious Games for training and learning

Immersive Technologies Virtual reality, digital twins Voice, emotion, and eyetracking

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Artificial Intelligence Modeling and Personalization

What is this all about?



Are you interested in AI? Are you interested in Games?



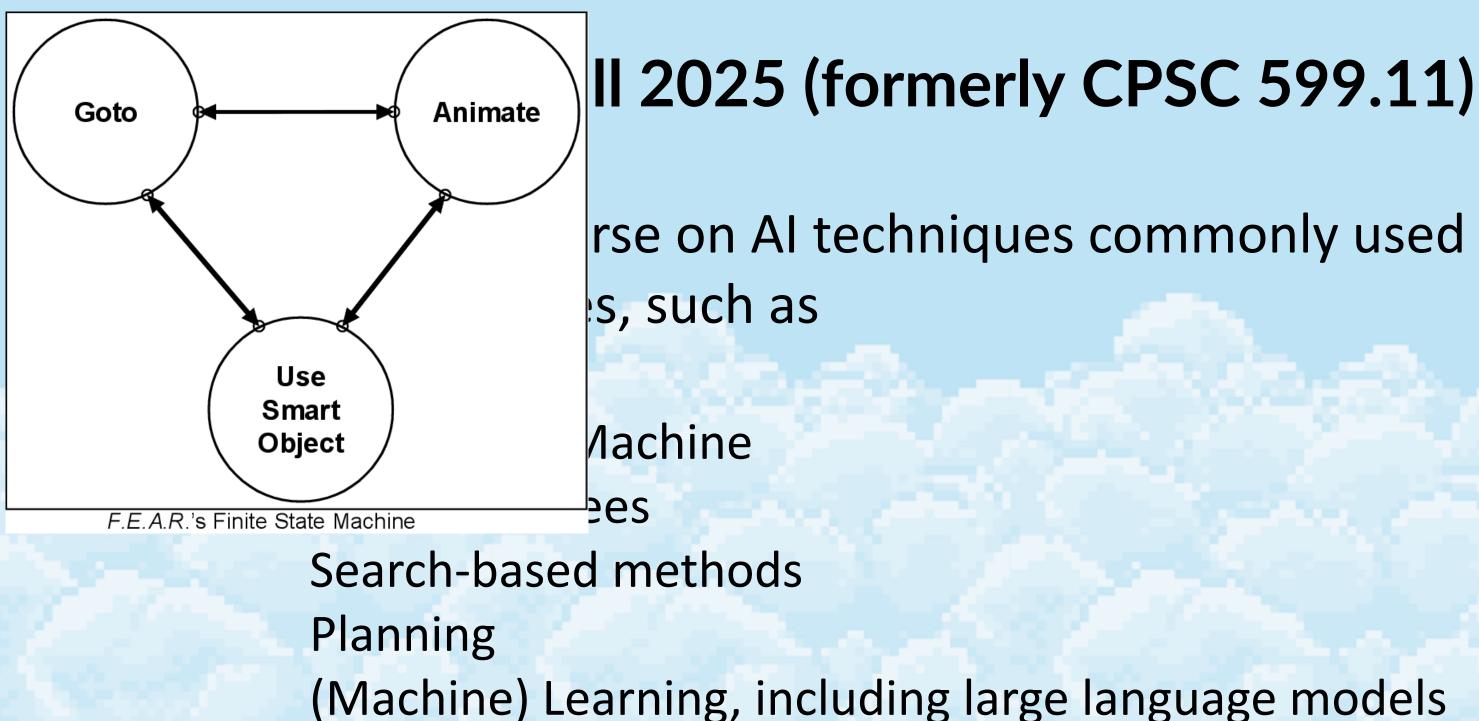
Game AI in the intersection of game development and the study of AI



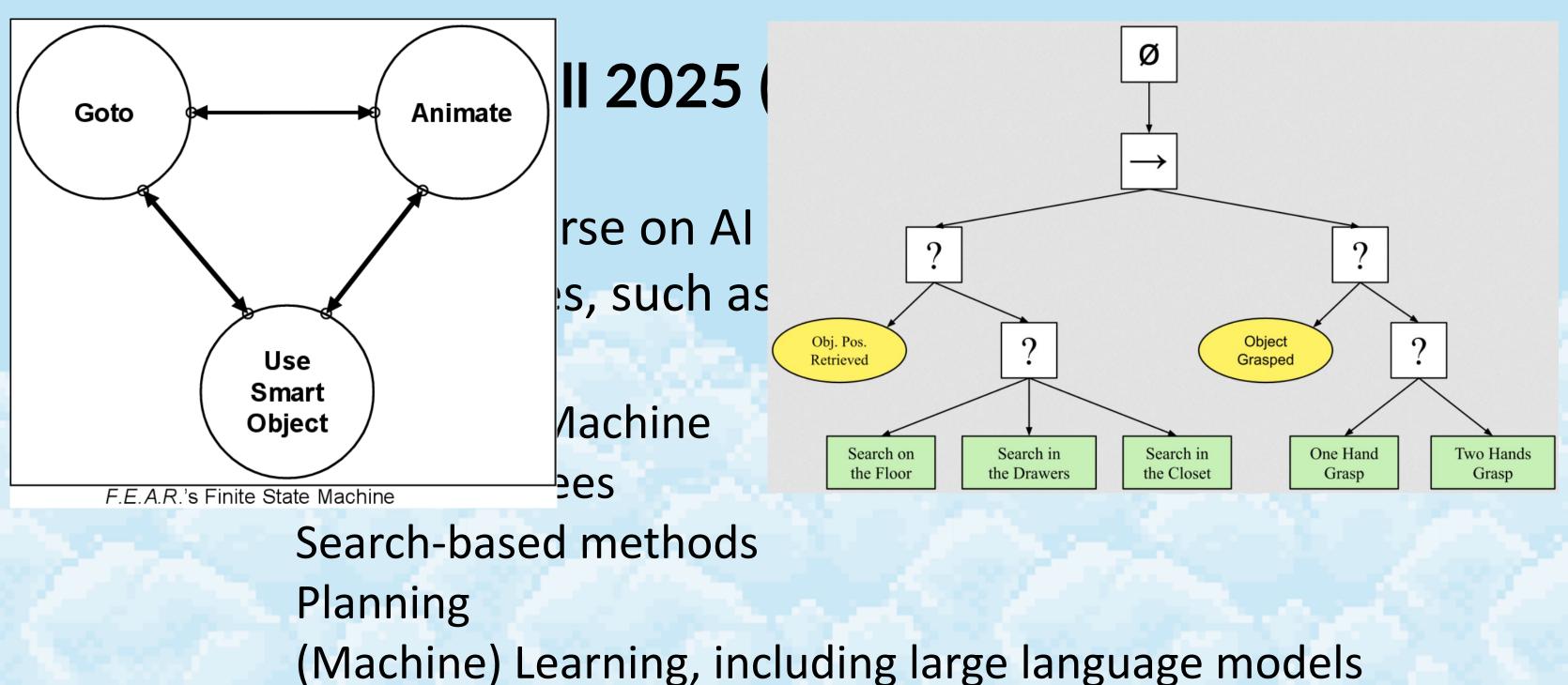
Hands-on course on AI techniques commonly used in video games, such as

Finite State Machine Behaviour trees Search-based methods Planning (Machine) Learning, including large language models

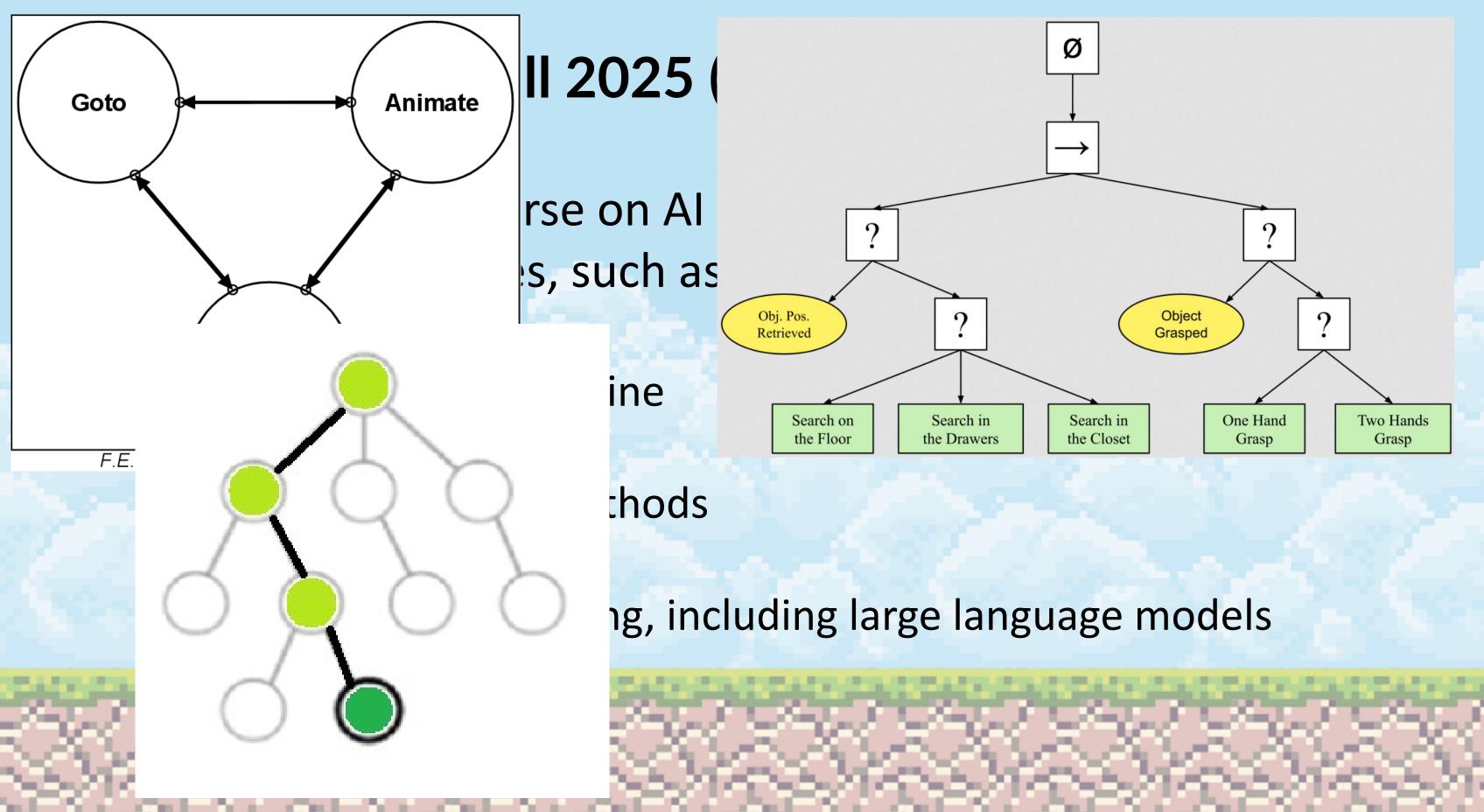


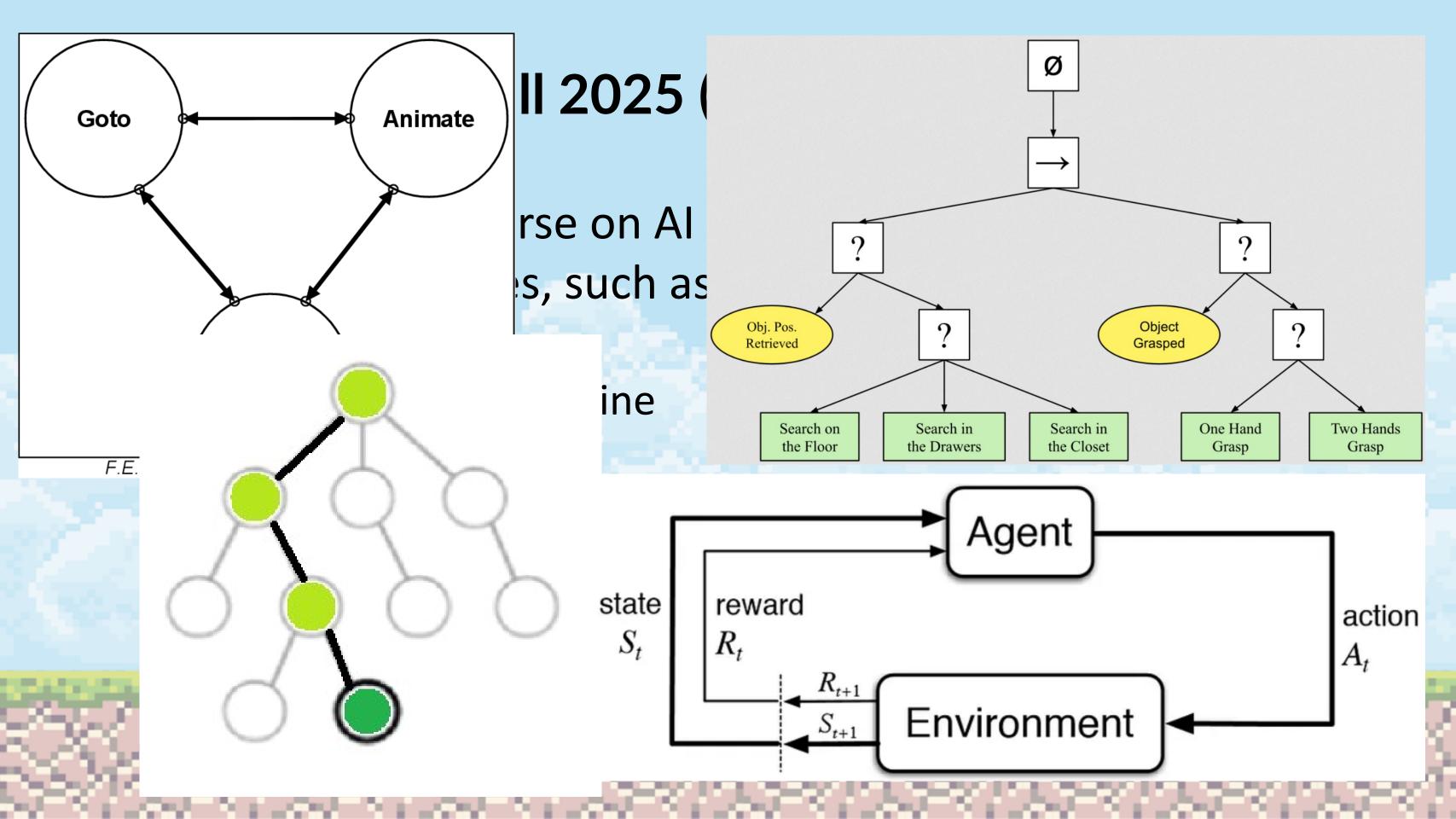












Students practice the implementation of AI techniques in the Unreal game engine, an industry standard production tool

Course project is to create an AI-based game in Unreal – students decide on the genre



Course components

5 Exercises - 4% each 1 Assignment - 20% Course Project (Create a Game) - 60% in teams

- Offered Fall 2025 semester.
- Pre-req: CPSC 413 Design and Analysis of Algorithms.
- https://cspages.ucalgary.ca/~richard.zhao1/gameai.html



Credits

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