Voice-controlled Tic-Tac-Toe

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Michelle Deng, Vincent Liu 15-494/15-694: Cognitive Robotics

About

Two robots playing tic-tac-toe

Nn a physical board.

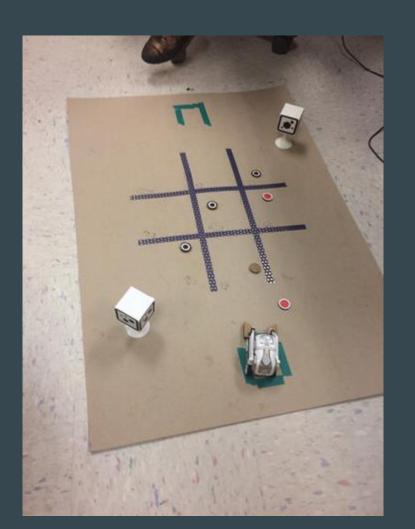
Humans use speech to choose moves;

Robots recognize and execute

Manipulate physical game pieces

Cozmo understands game board,

pieces, and game logic



Challenges

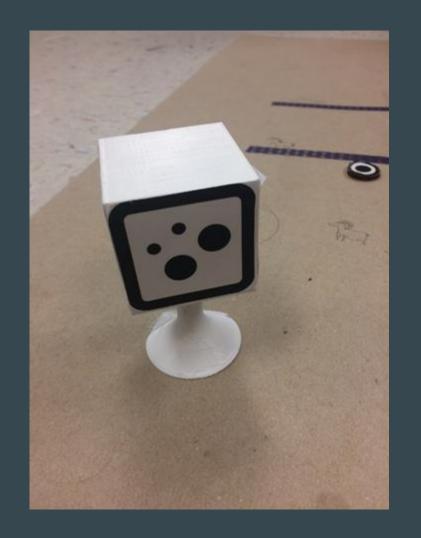
Size of board and squares

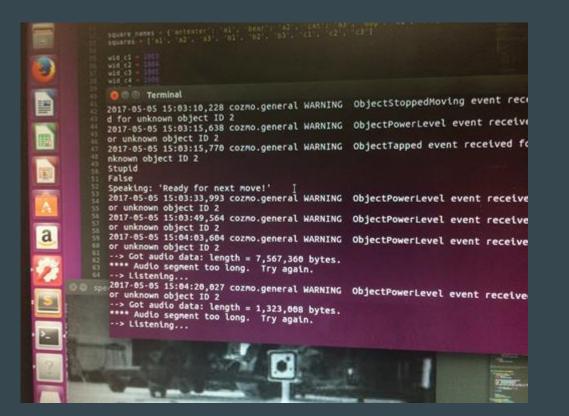
Planning around chip

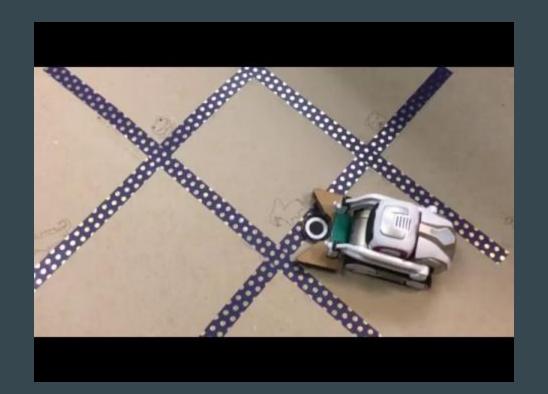
obstacles on the board

Speech

Board Mapping







Further Work/Interesting Tid-bits

Improved speech recognition

Global board that can be shared by multiple Cozmos

Although difficult, the speech recognition and progression of game logic based off that was definitely the most interest part of the project