



Robotics ECE 478

Project 2

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ROS implementation

Node: “Body”

- Topic: “Face”
- Topic “Music”

Node: “Amazon Polly”

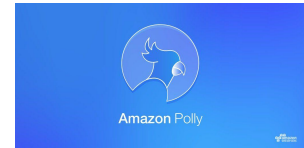
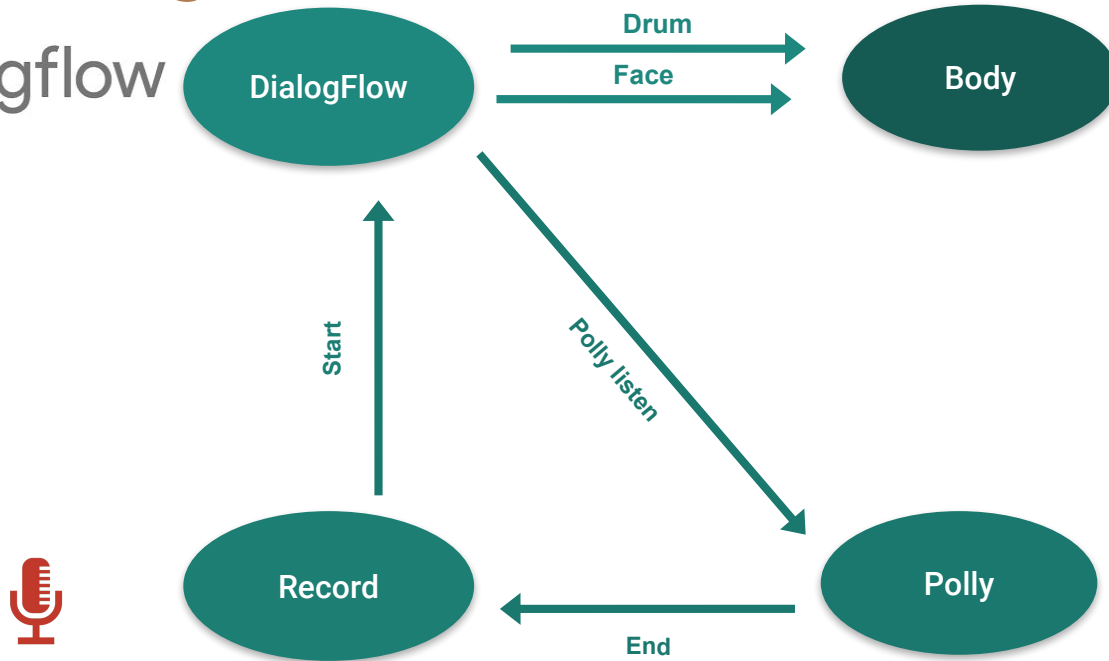
Node: “Dialogflow”

Node: “Record”

Node Diagram



Dialogflow



Google Dialogflow

- Start record node.
- Several intents used for reflecting different speech such as:
 - Body
 - Feelings
 - Drum actions
 - Greetings
- The Entities section can be thought of as a recognizable parameter that is used to respond to a given user input.

Amazon Polly

- Converted lines in script to mp3 format using poly.
- Added speech tags to reflect the appropriate emotions according to the script.
- Saved all poly scripts in a text file for future edits if needed.
- Converts text published from Dialogflow according to intents responses .

Robot Theatre

- Assigned to act with Turtlebot and Einstein Bot.
- Development of a master node that published line numbers.
 - Development of handshake mechanism to prevent from count incrementing too early.
- Adjusted speech to match emotions.