Team 1 Lab 2 Oral Briefing

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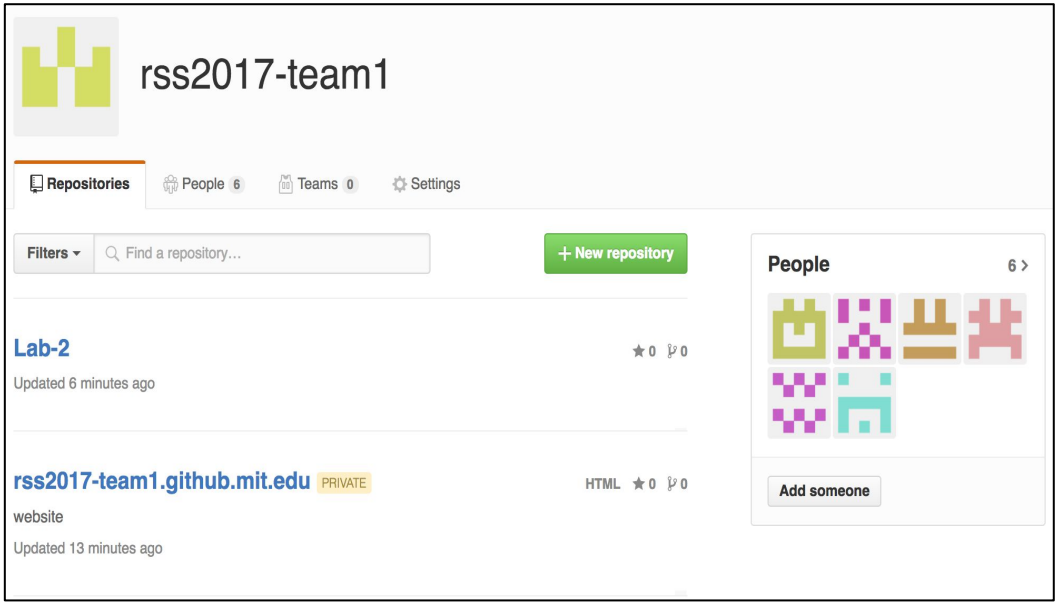
Setting up GitHub

Three steps:

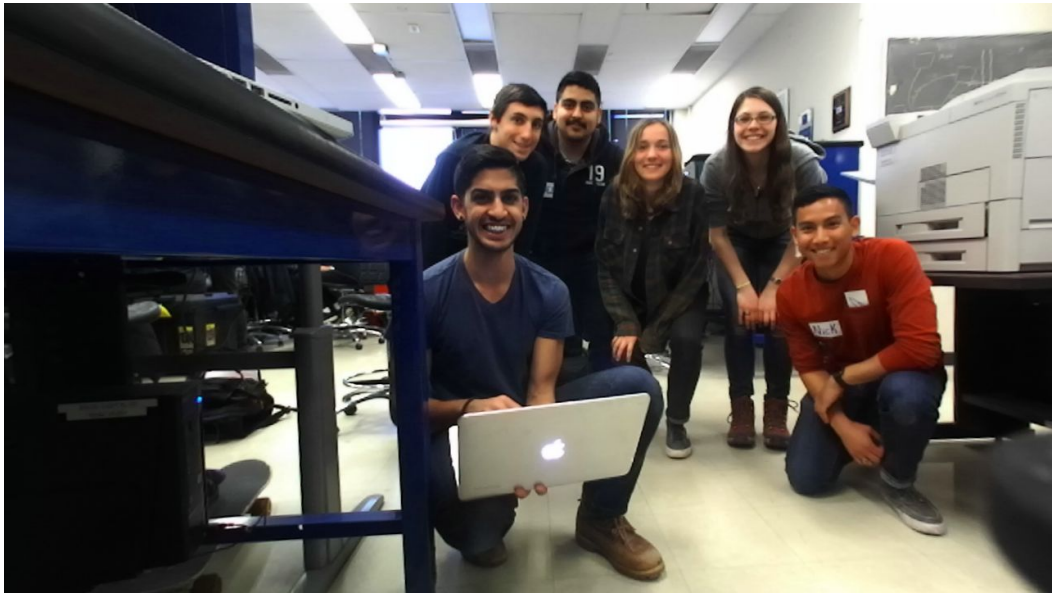
- Set up git environment in terminal
  - Access tokens
- Create team organization
  - rss2017-team1
- Create repositories for labs and website
  - Lab-2
  - rss2017-team1.github.mit.edu



Creating the Team Website

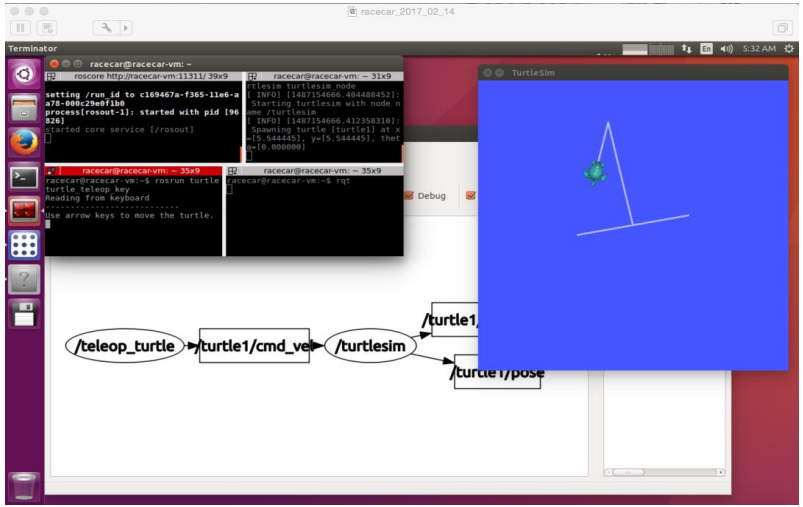
Three pages: Home/About/Labs

- Home: Links to department, class, and team Github repository.
- About: Team introduction and individual member bios.
- Labs: Page per Lab containing embedded report and oral briefing

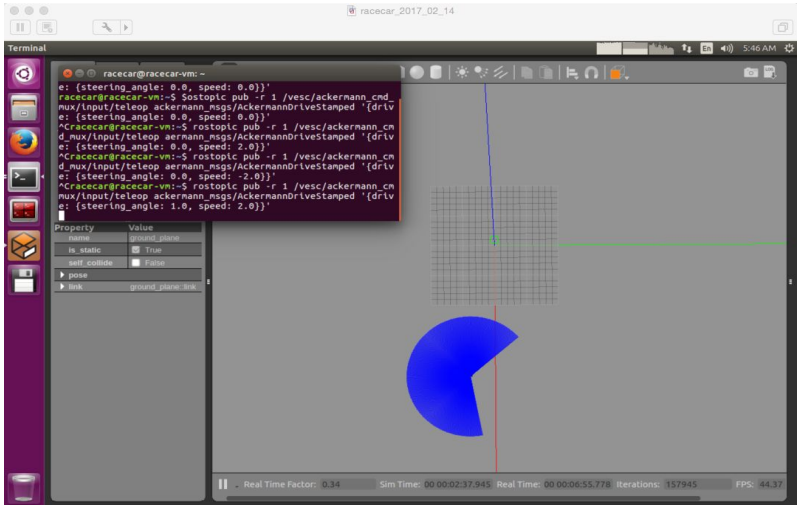


Running the Simulation

Familiarity Using TurtleSim, Node Graph



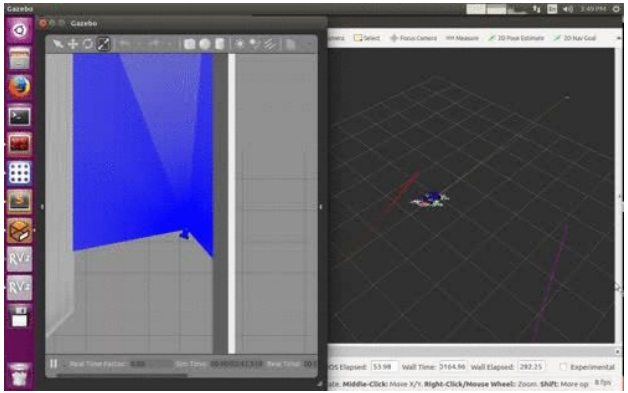
Experience Using Race Car Simulation



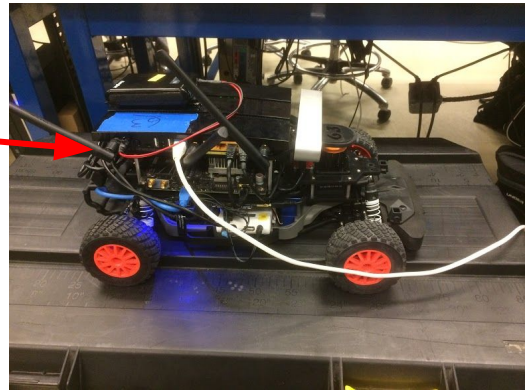
Running the Simulation with the Joypad

We remapped the topic `/ackermann_cmd_mux/input/teleop` to the topic `/vesc/ackermann_cmd_mux/input/teleop` in order to be able to control the racecar with the joypad.

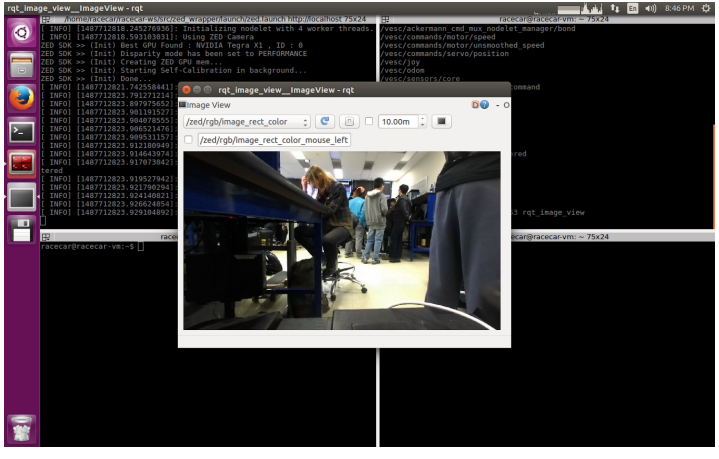
We did this first in the simulator and then confirmed functionality on the hardware.



Joypad receiver was inserted into the back of our racecar.

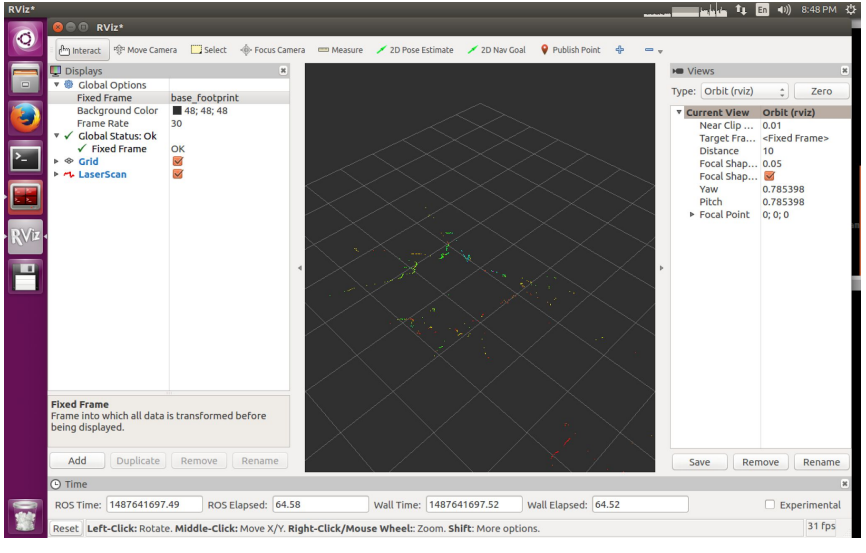


Streaming and Collecting Data



Zed image streaming

Laserscanner data



Lessons Learned

- Technical:
  - Jiggle cables
  - Create test cases to define and analyze expectations
    - Controller issue
- CI:
  - Meeting is a schedule challenge
  - Clearly articulate goals, priorities, and expectations
  - Define individual tasks
    - Allows for parallelization
  - Ensure everyone is aware what is happening
  - Use platform for communication
    - Slack

Questions?