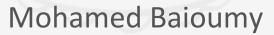
3.4.2

ROS Navigation Stack



ROS Navigation Stack

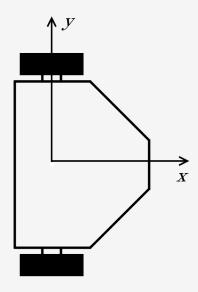
- 2D navigation
- Inputs:
 - Odometry
 - Sensor data
 - Goal pose
- Output:
 - Safe velocity commands

ROS Navigation Stack

Only for differential drive or holonomic wheeled robots

Requires a planar laser

Performs best on square or circular robots



Differential drive

move_base

- Provides an implementation of an action
 - Actions are used for long term tasks
- Uses a global and local planner to accomplish its global navigation goal

Manages communication between the components of the navigation stack

