

Principles of Robot Autonomy I

Section 8: Assembling an Autonomy Stack

(Case Study: Multiplexing)



Stanford
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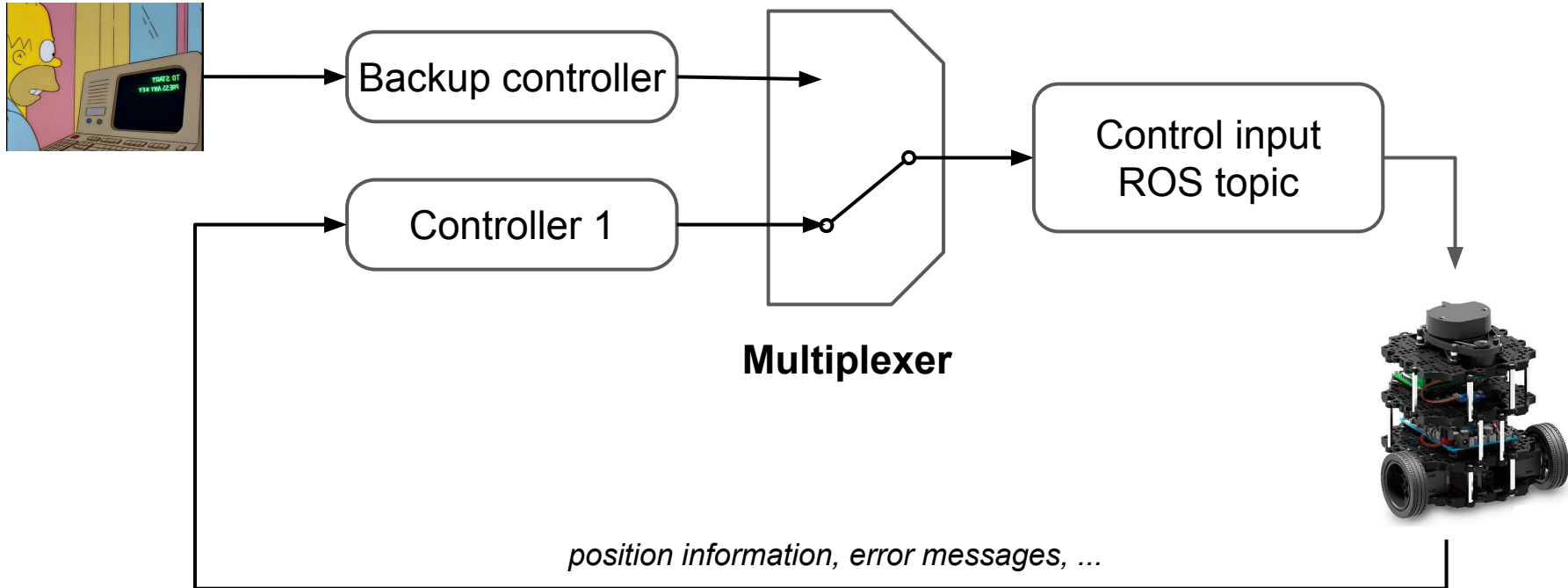
Aims

- Learn about multiplexing
- Practice your ROS and coding skills
- Prepare for the final project

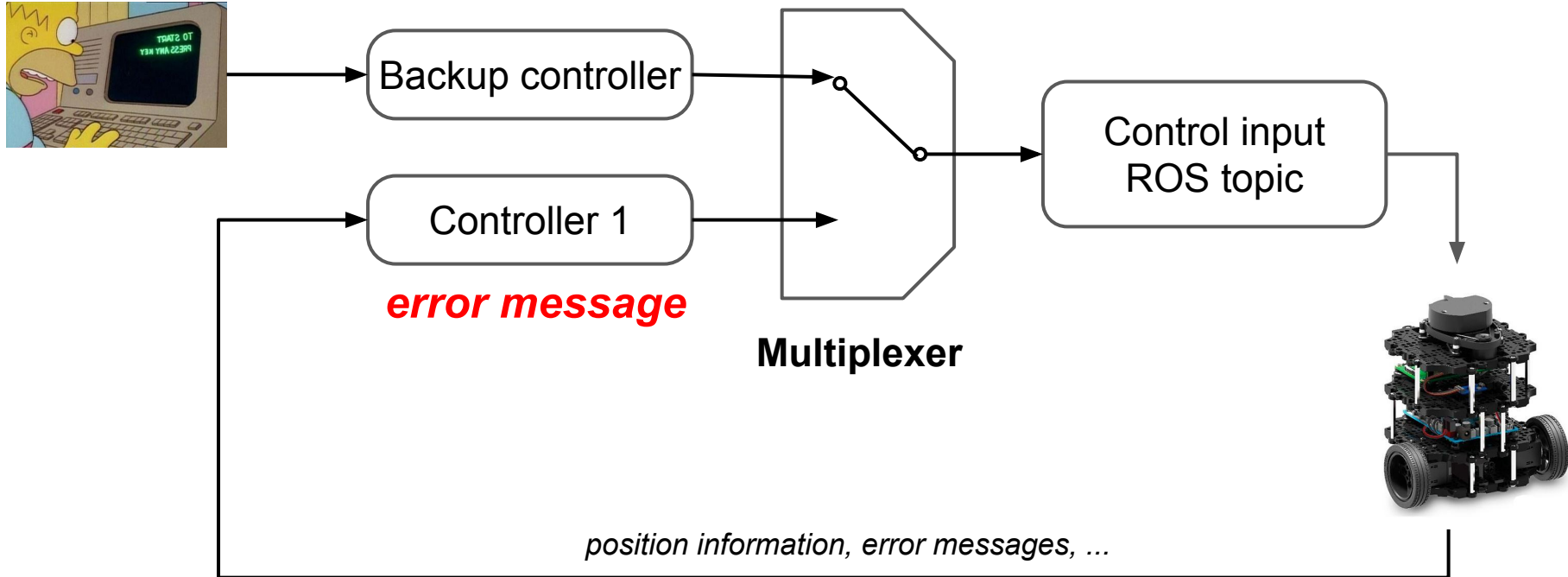
Multiplexing

- General concept
- In robotics, it is very useful to quickly switch between different sensors or different controllers (e.g., if one fails)

Multiplexing

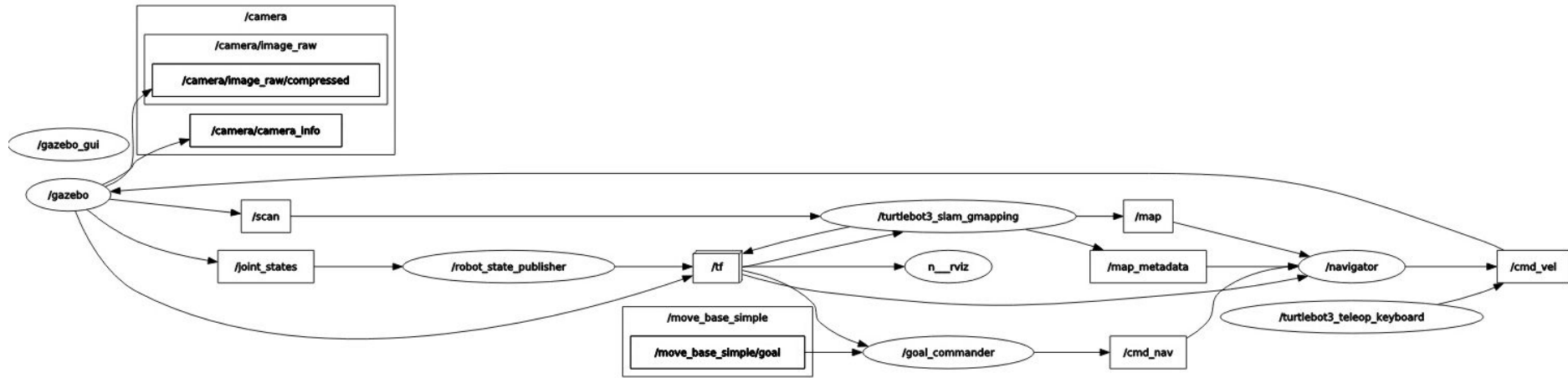


Multiplexing



rqt_graph

- Allows quickly visualizing the currently running software stack



Multiplexing

- Multiple methods to implement multiplexing are possible
 - Hints and different methods are given in the handouts