

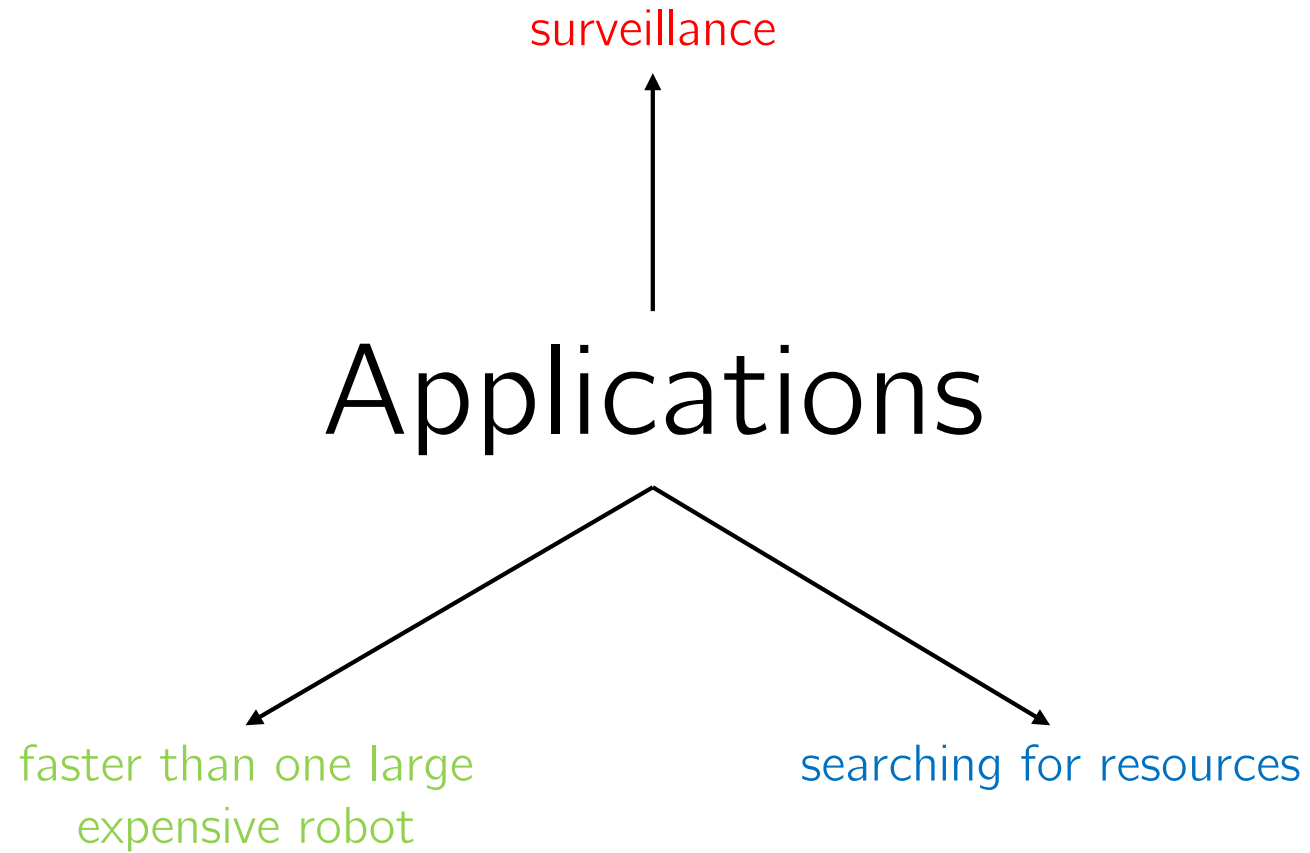
Survey Swarm

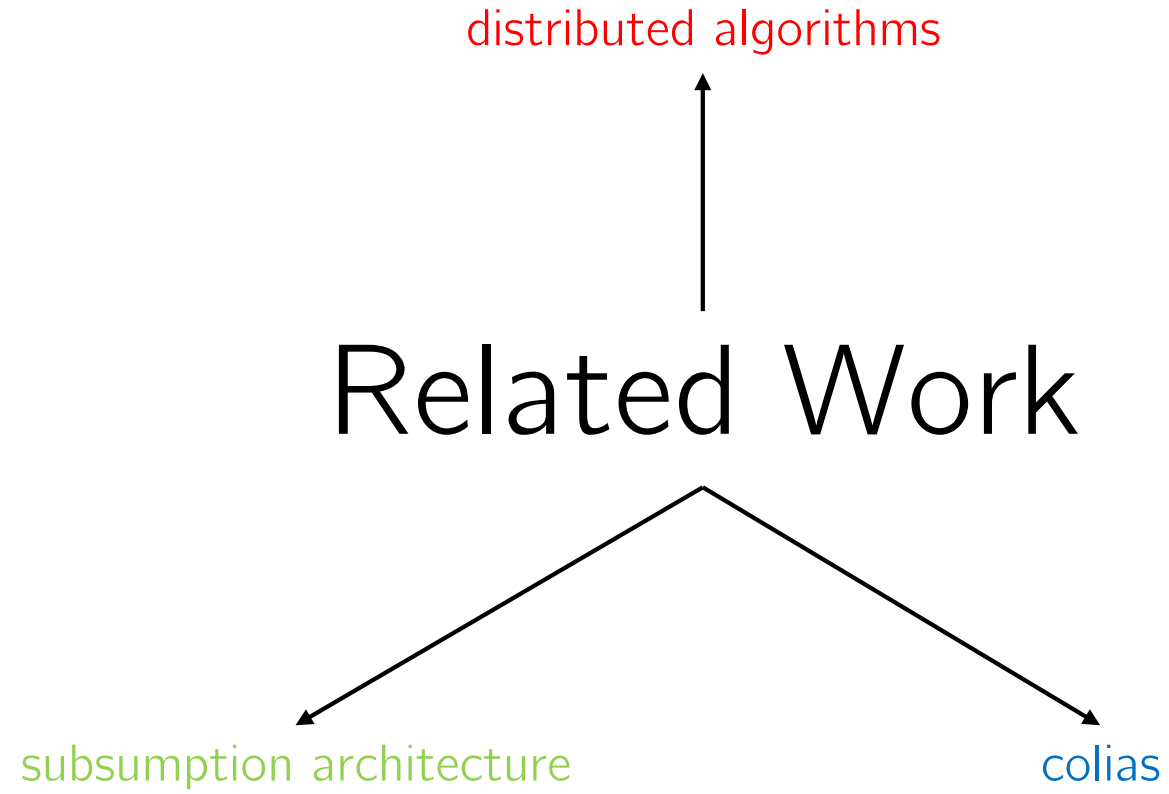
November

ARM

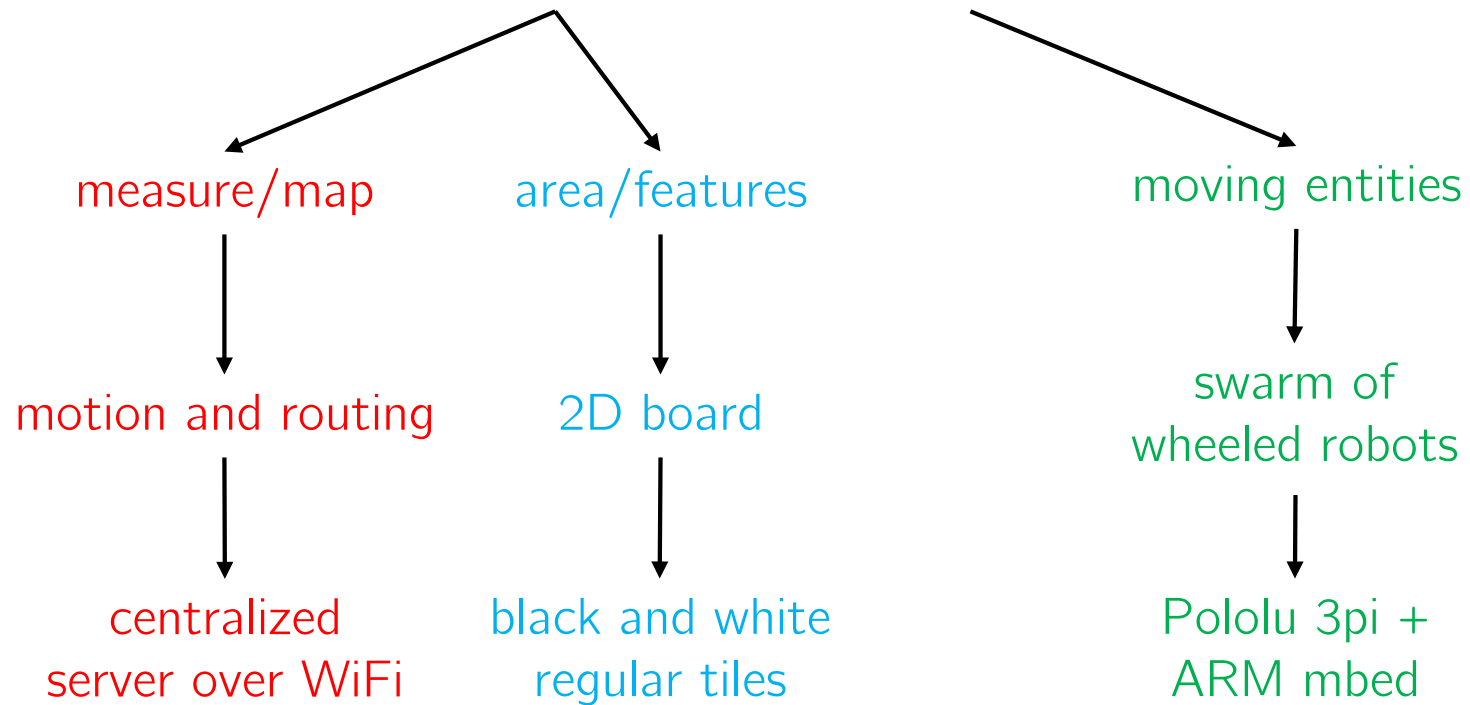
Survey Swarm







Survey Swarm



Cheap



easily
acquired



just reflectance
sensors needed

Reliable



maps out floor
with little error

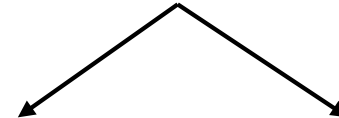


accurate positioning
imperative

Adaptable

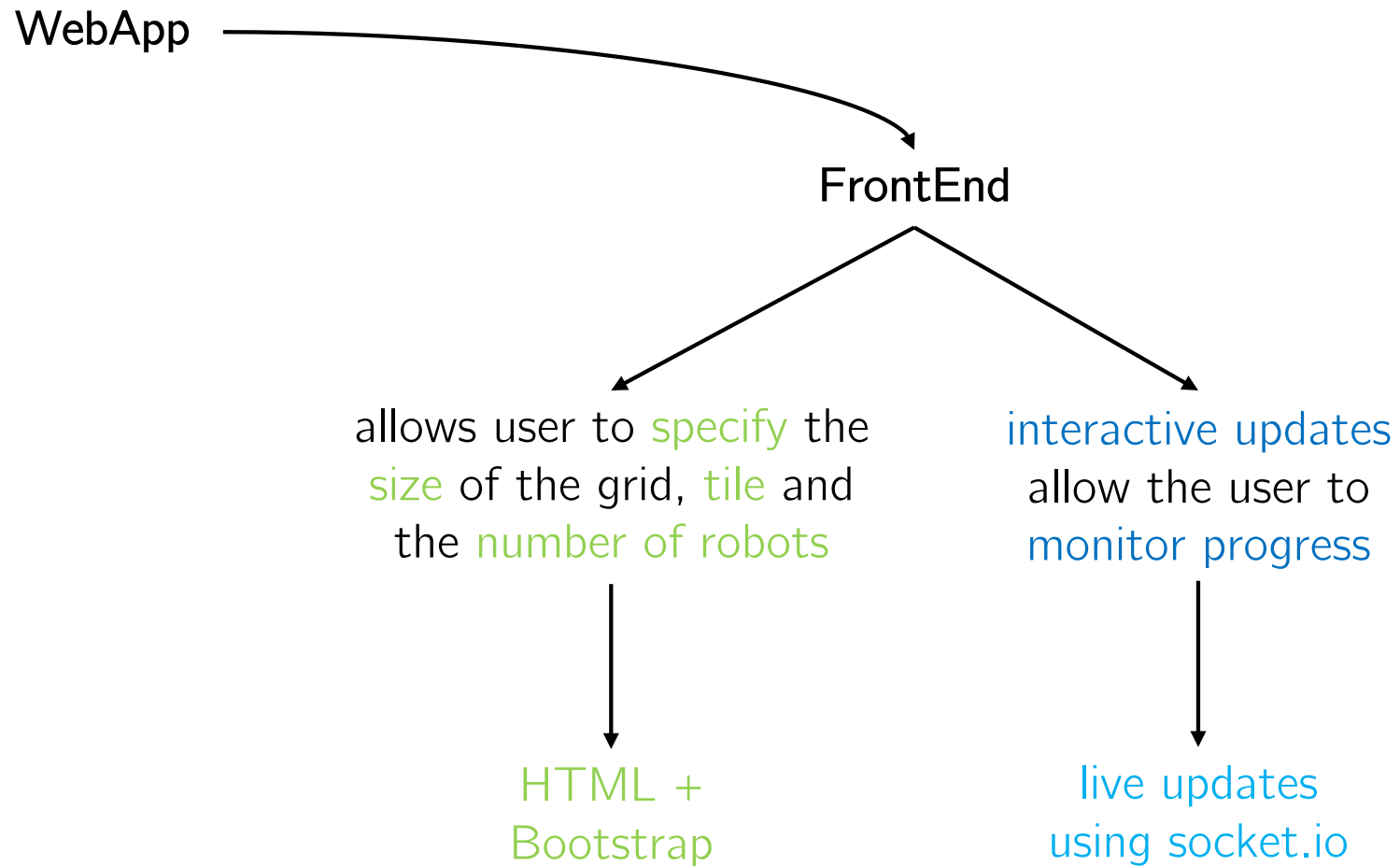


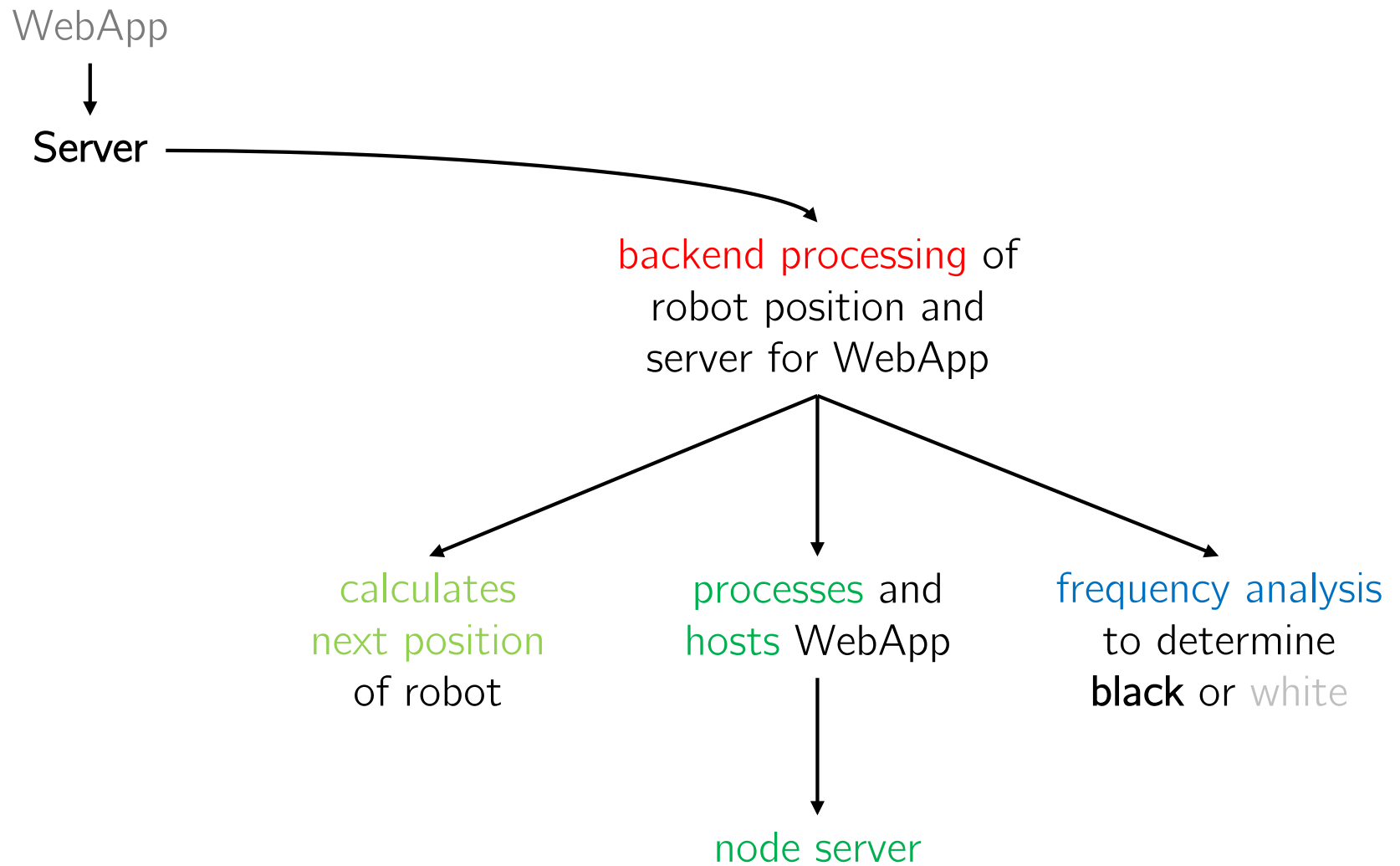
change
conditions easily

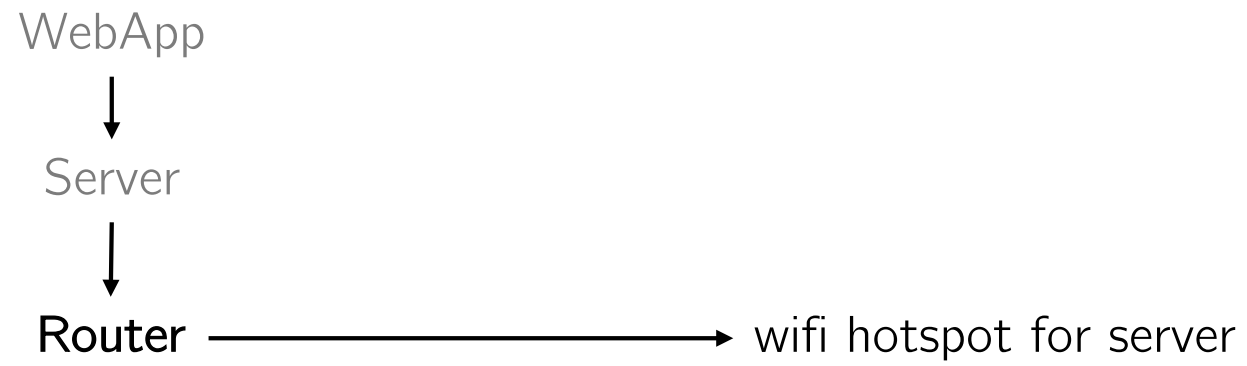


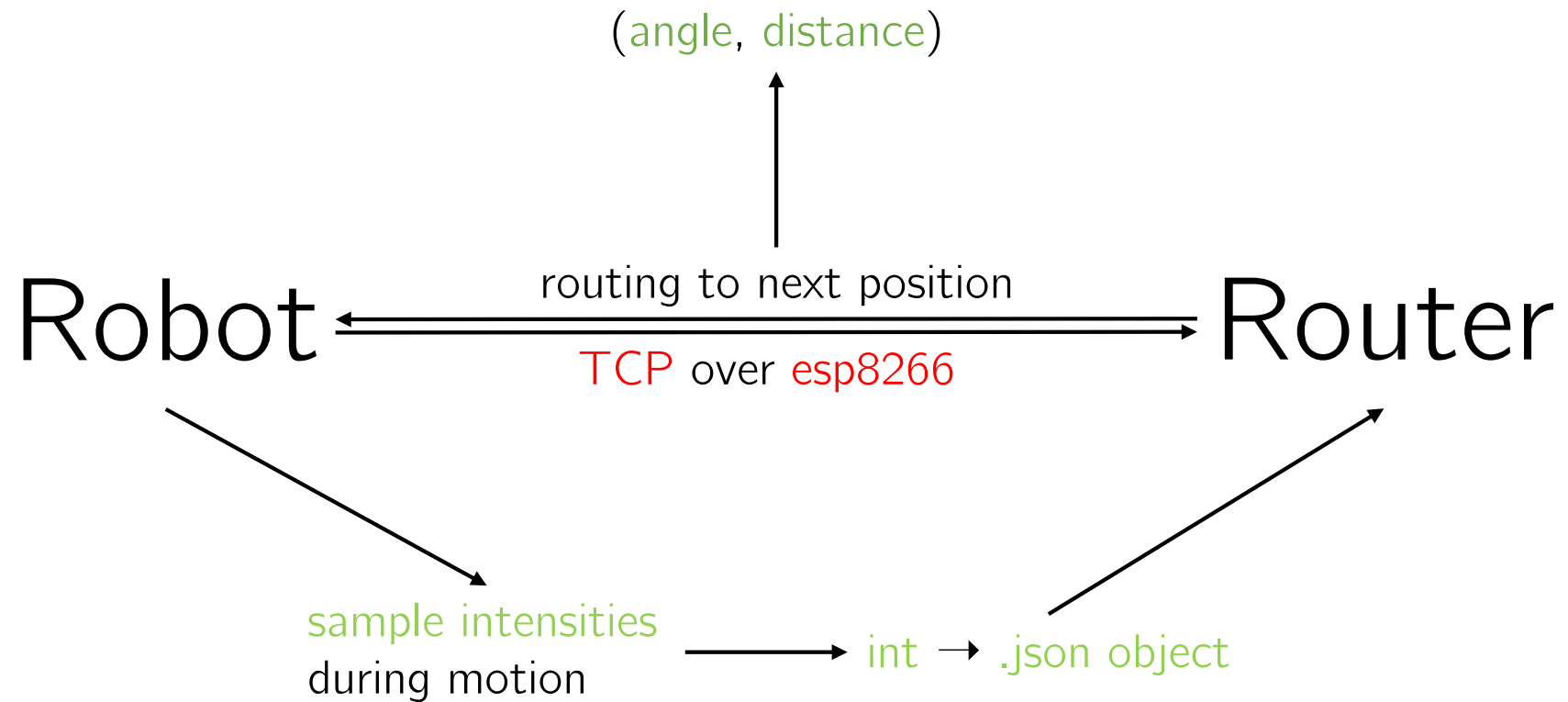
board
pattern

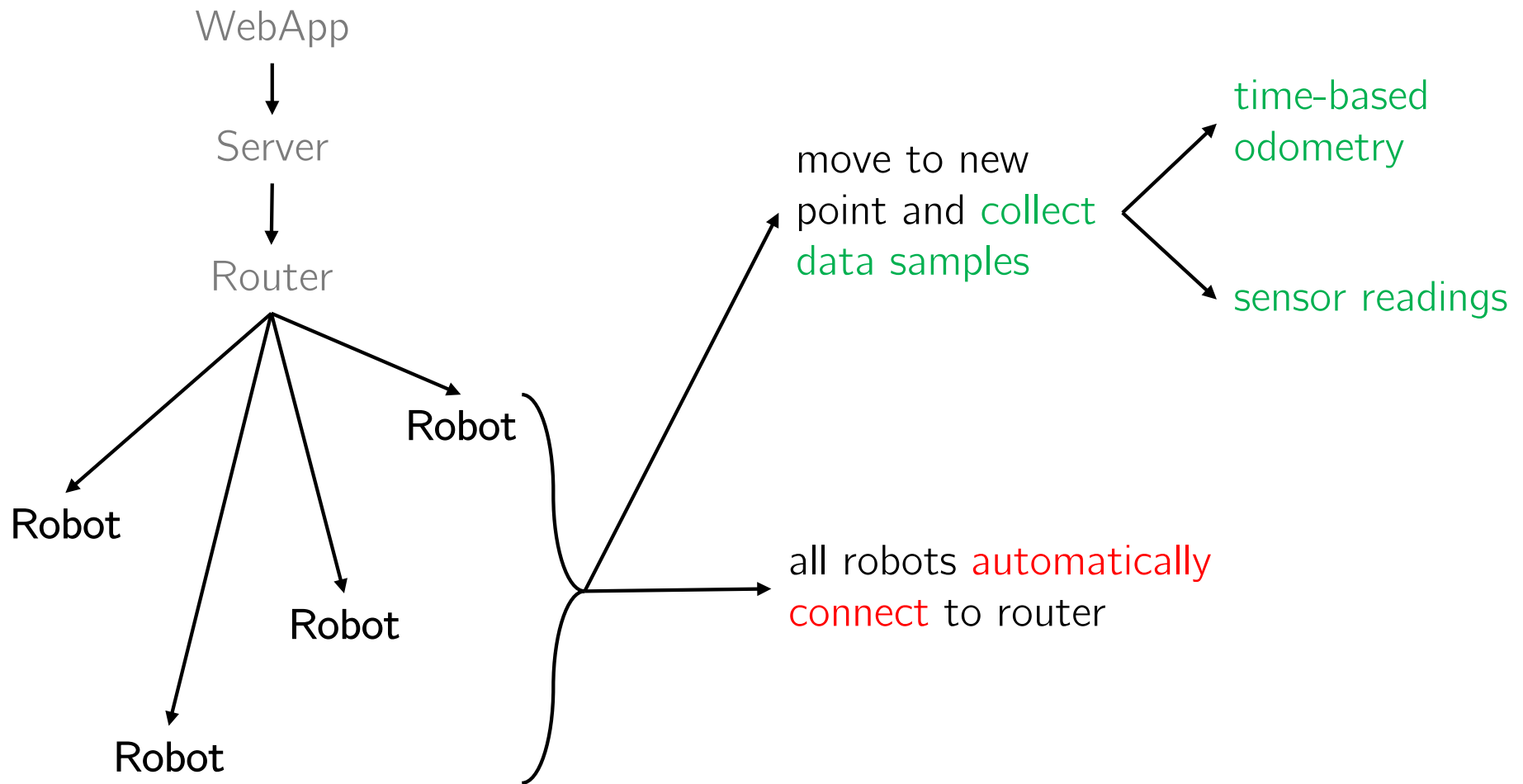
size of
swarm

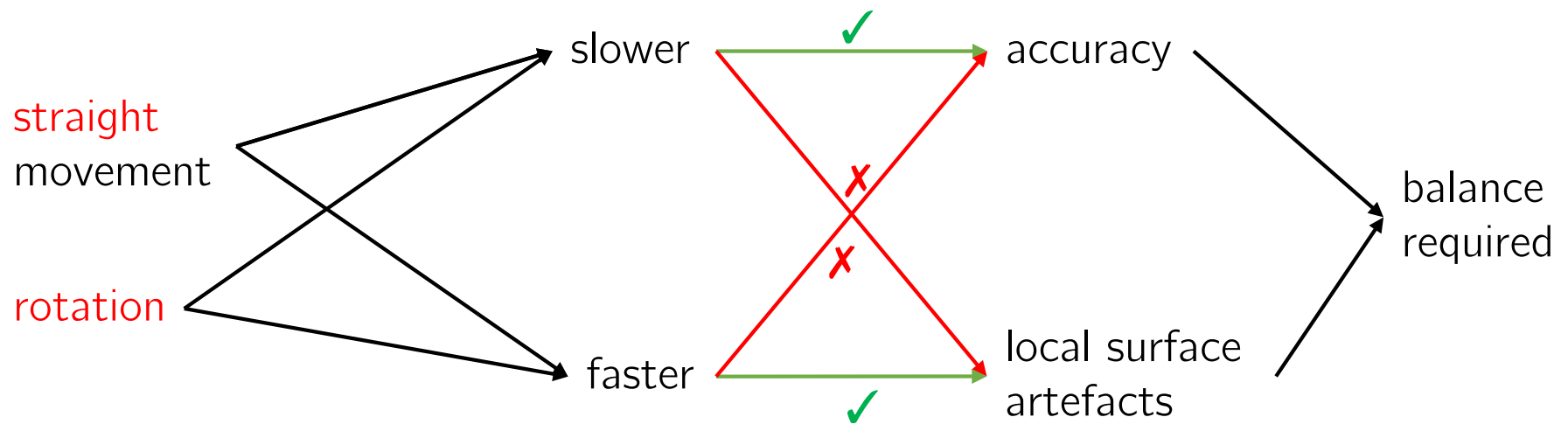


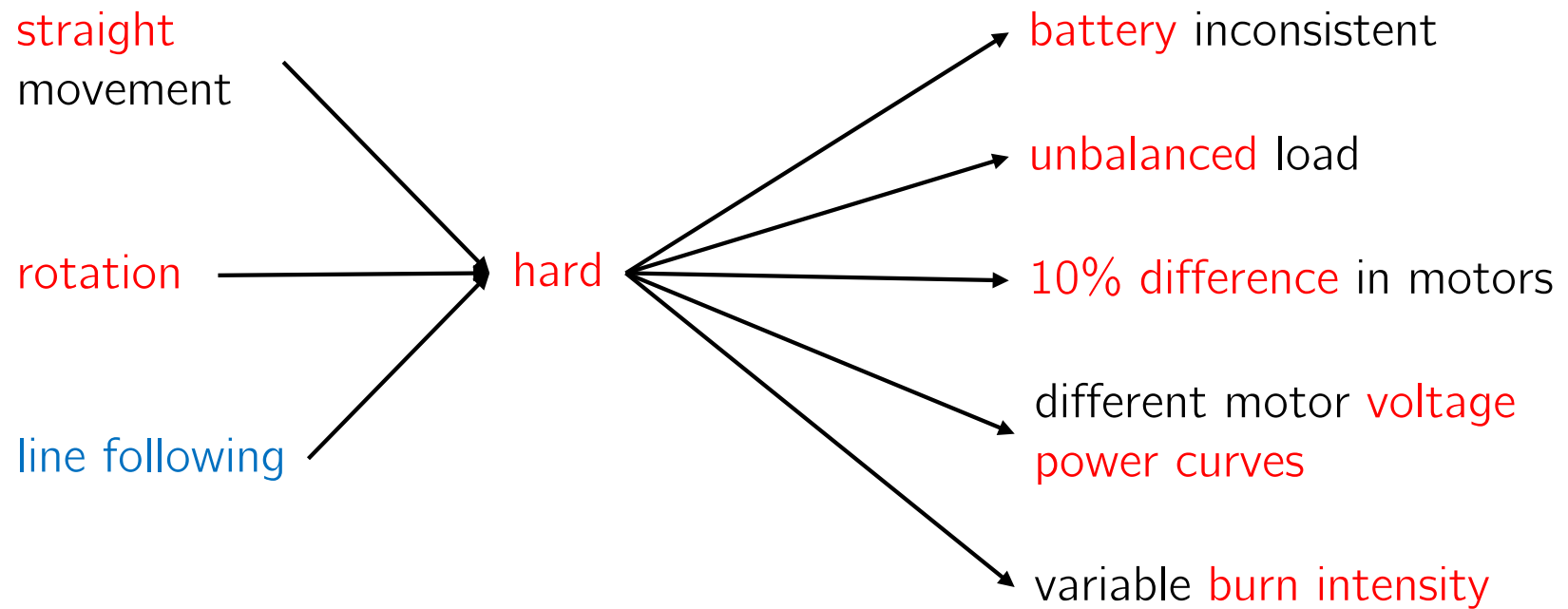


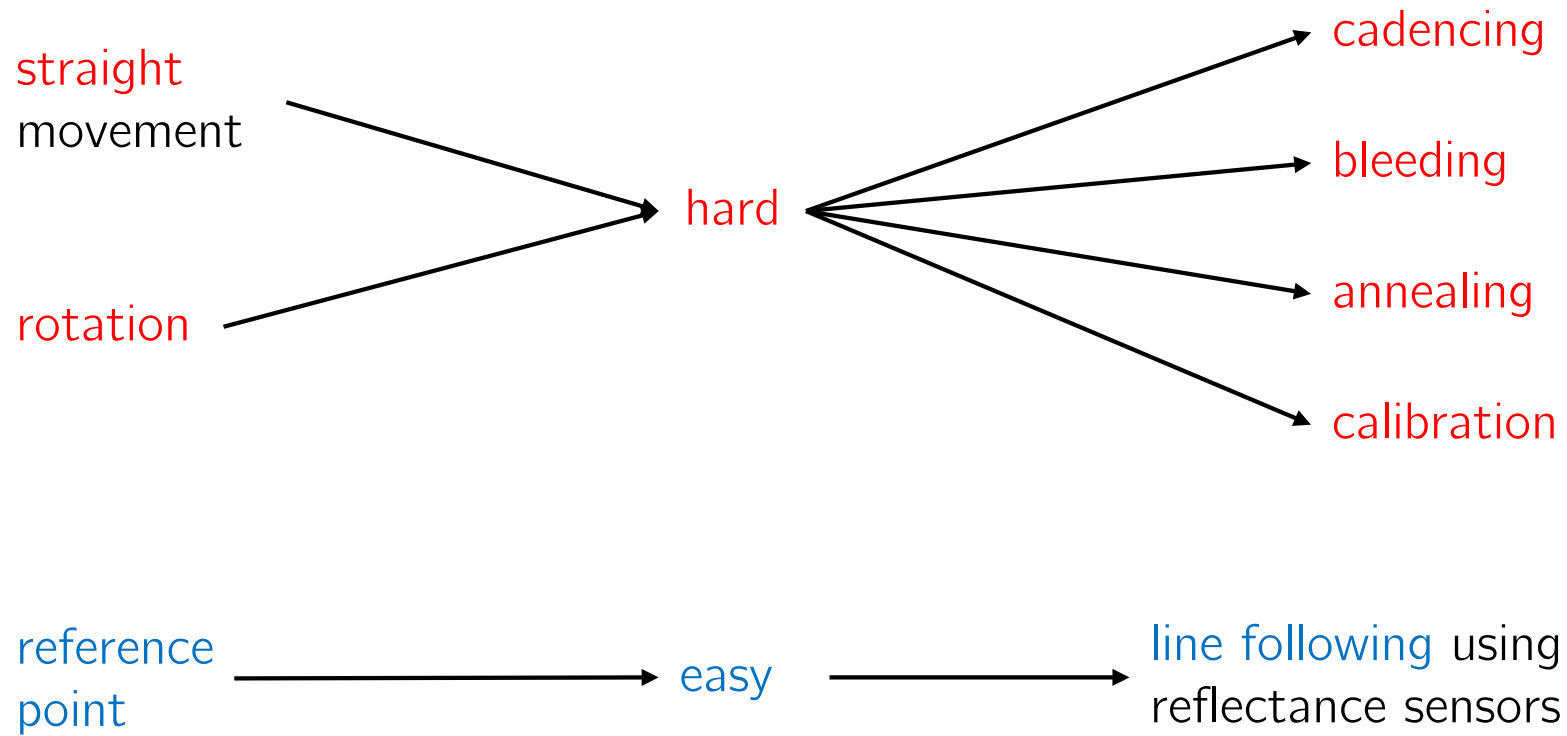


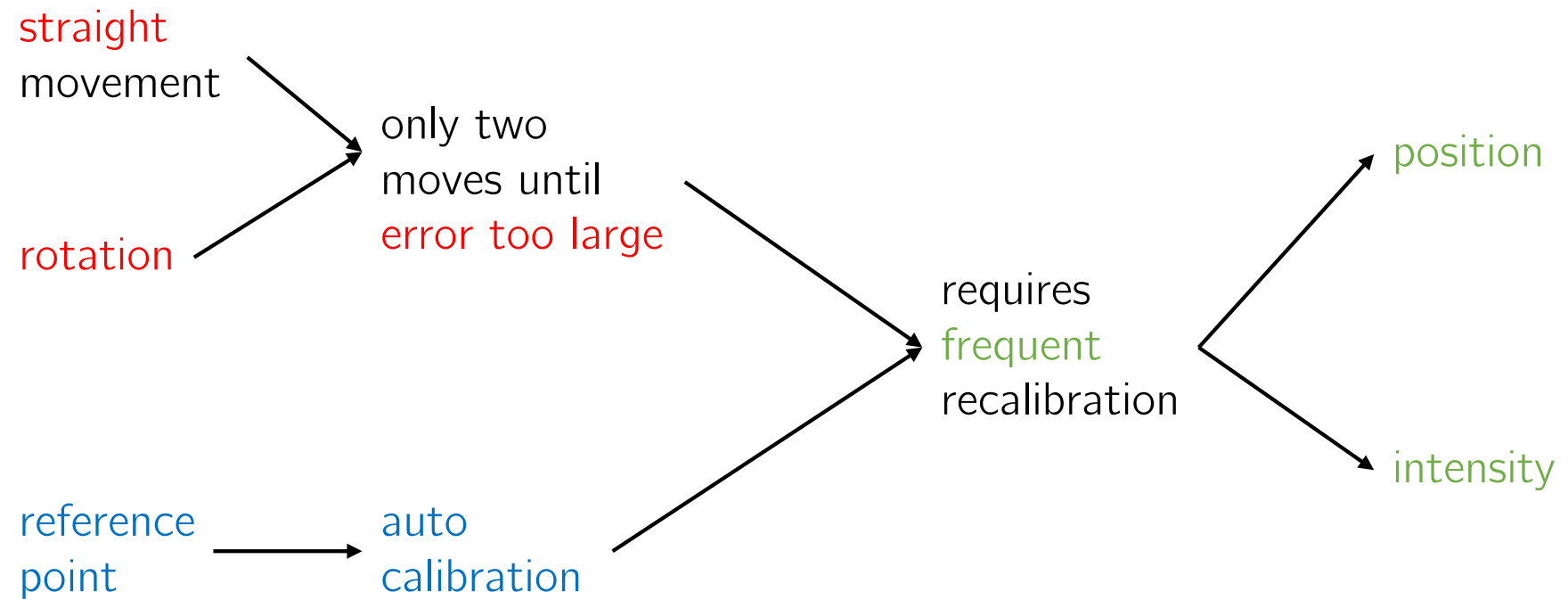


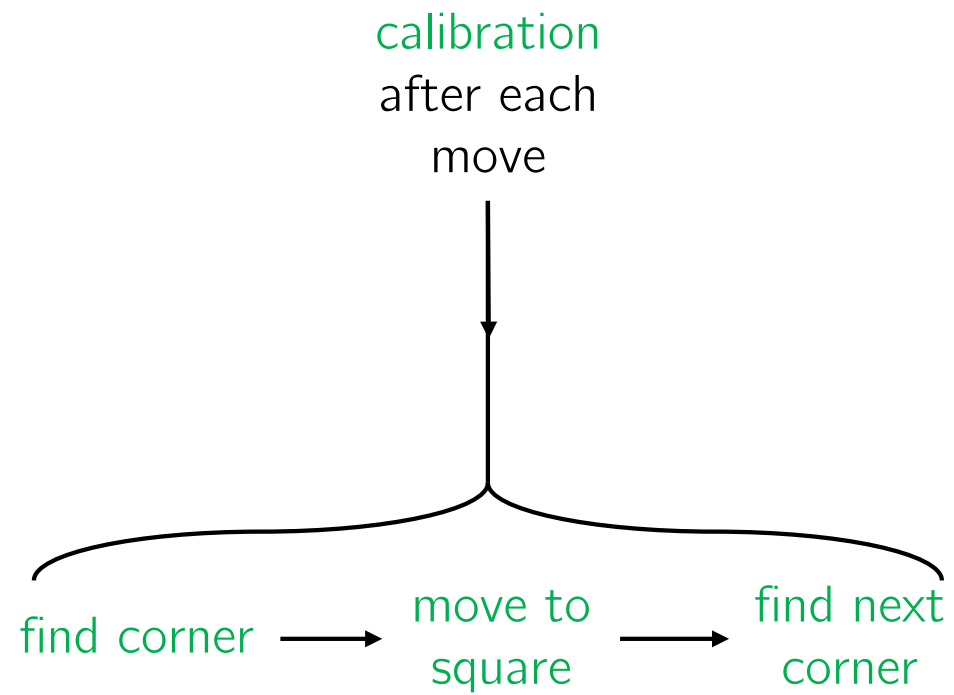


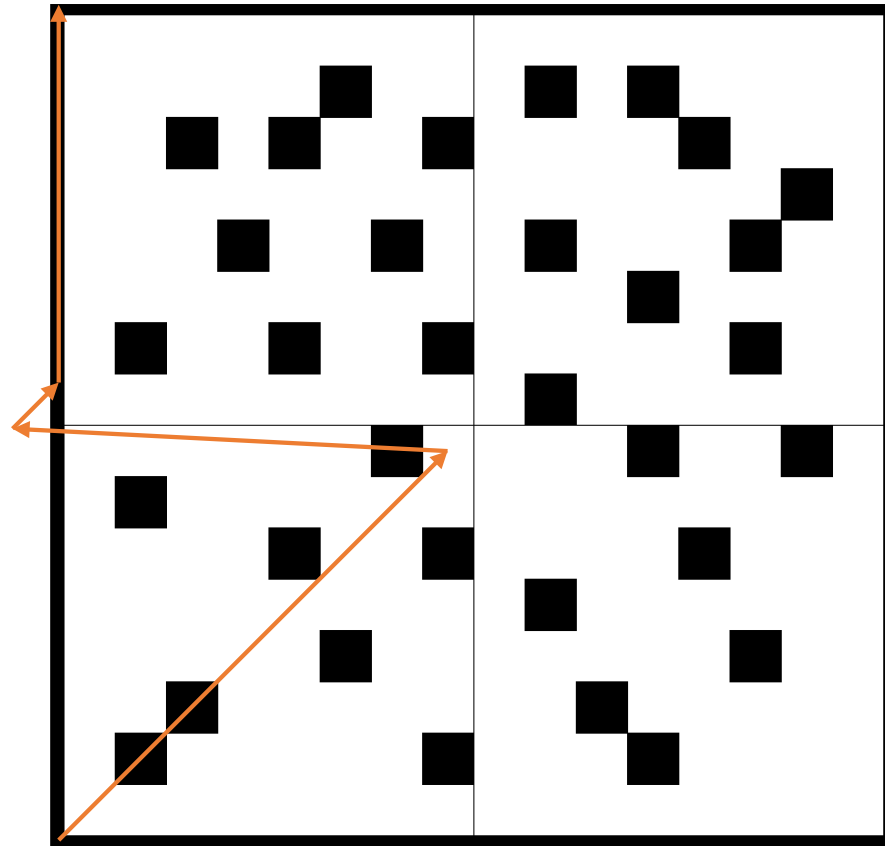


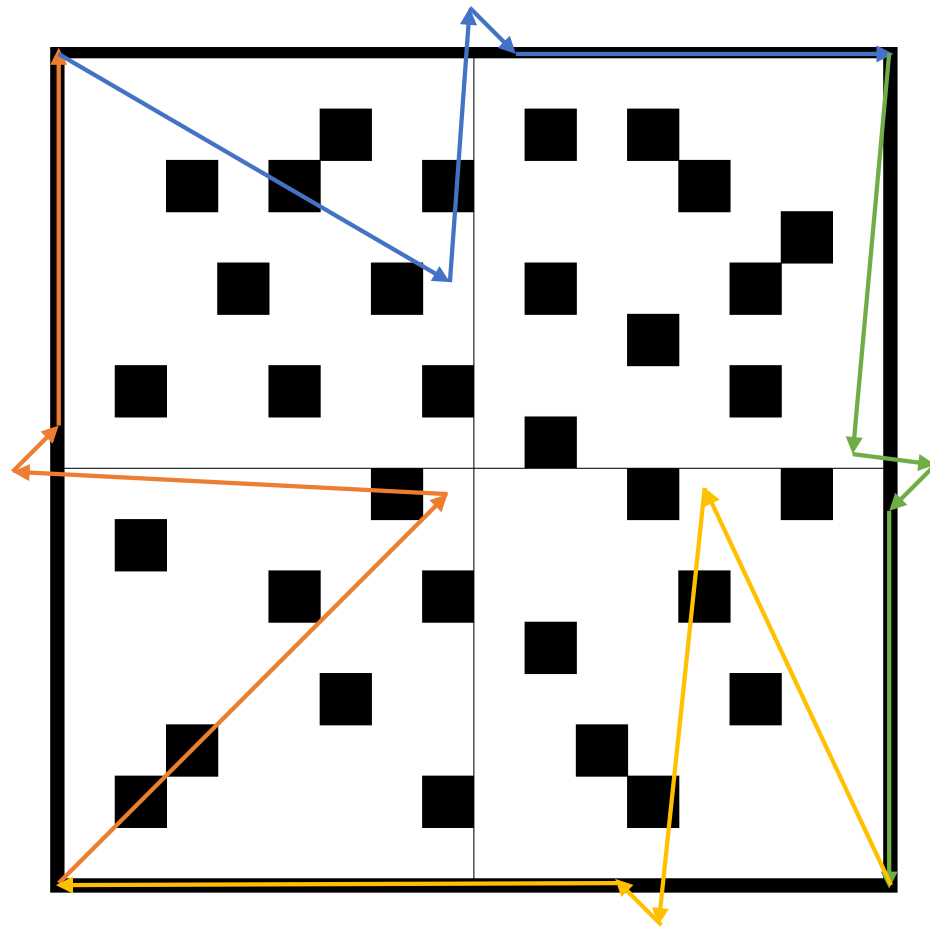












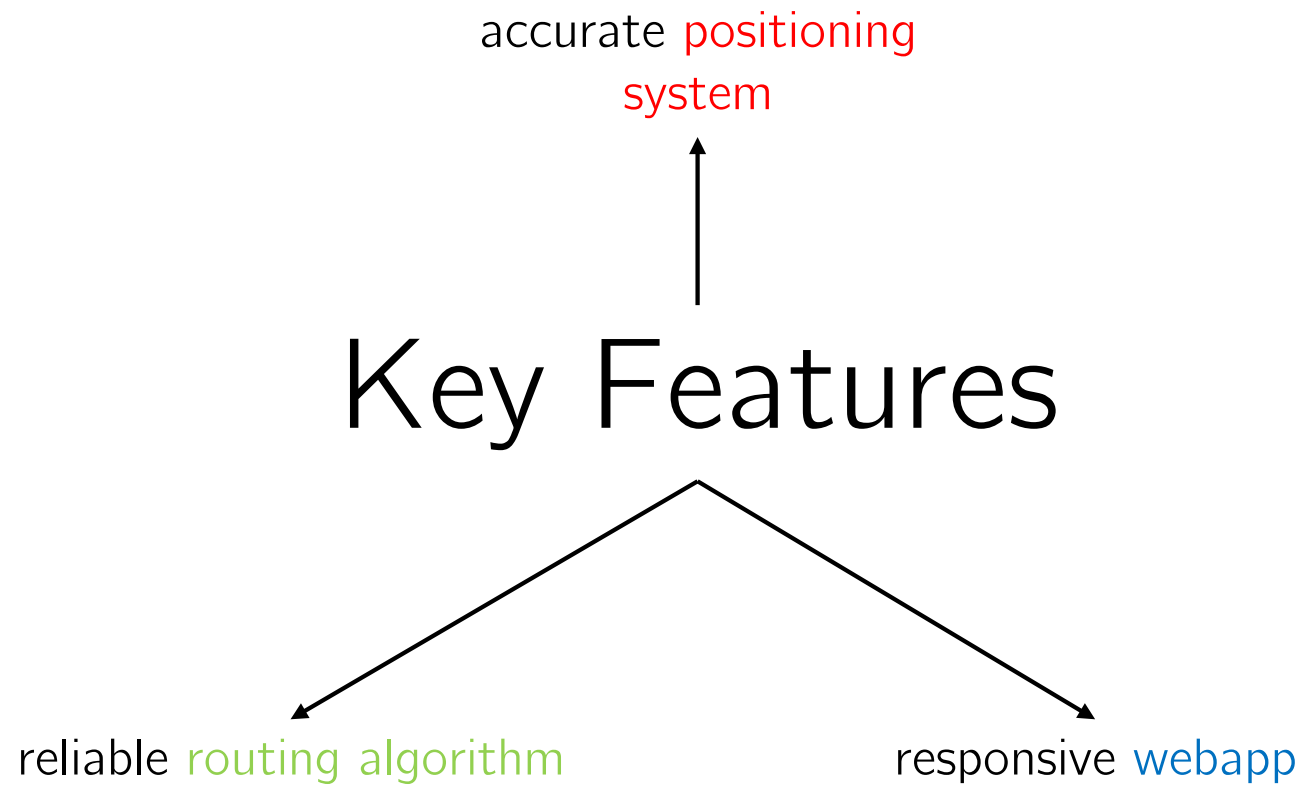
> 75% accuracy

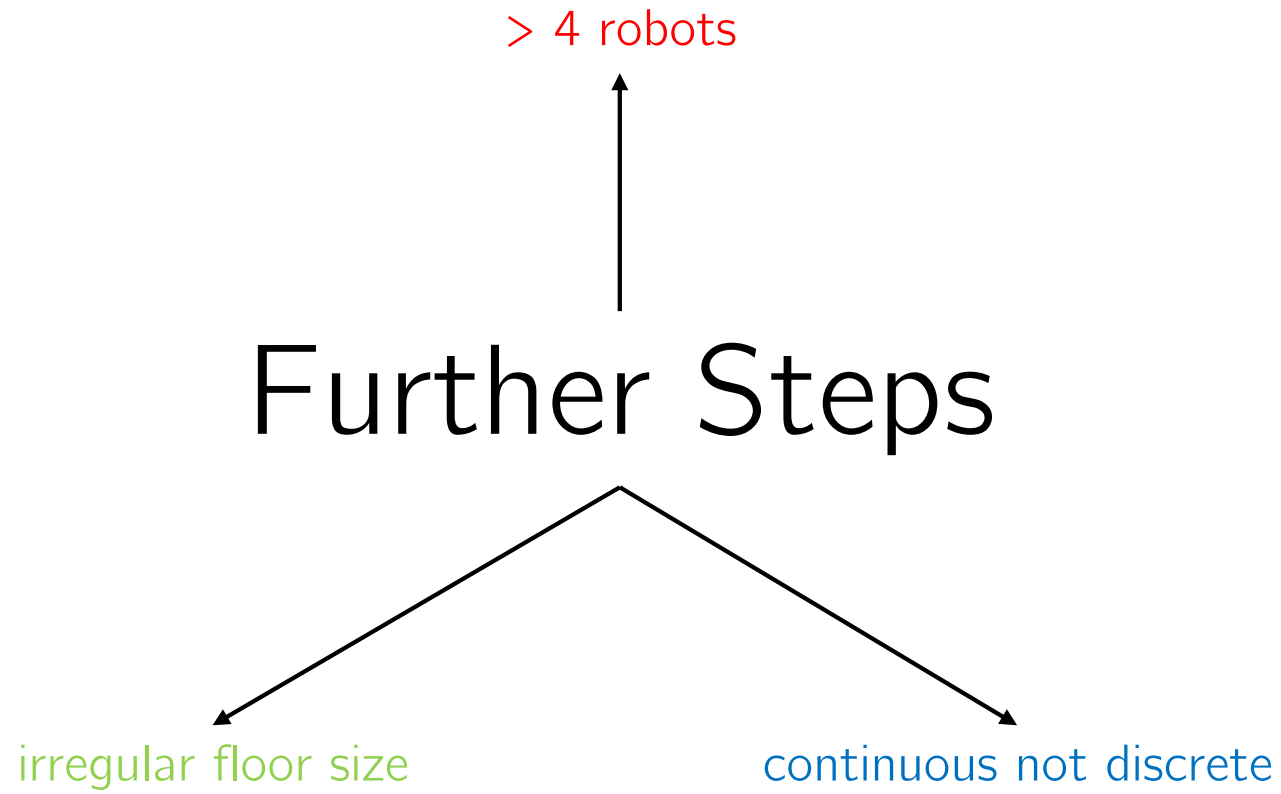


Testing



unit and regression
testing





Acknowledgements

- **ARM** for providing the project idea, and for providing the 3pi robots, especially **Ashkan Tousimojarad**, our client and contact.
- **Chris Hadley** for providing assistance in the creation of the board.
- **Brian Jones** for printing screws and helping us set up all the equipment.
- **Louis Massuard** for lending us equipment to augment the robot