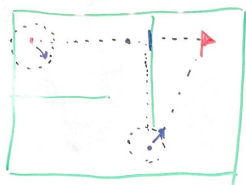


input: obs_pos → left ↔ right
 obs_dist → far ↔ close



controllers:

- ① simple navigator
- ② obstacle avoidance

multiple rays
 ↓
 select shortest
 ↓
 feed to controller
 dist-to-obs
 angle-of-obs

raw:

lidar_t

↳ range_max, angle.....

pose_t

↳ pos::x, pos::y...

↳ ornt::x...

↳ dir



① ~~Everyone run gazebo~~

② ~~Move Fuzzy engine into core::init()~~

③ Switch to new main

④ Setup "dual" fuzzy controller

a) switching mechanism

b) simple nav

c) obs avoidance

d) etc. utility methods

↳ utility::draw_lidar()

↳ utils::max_range