Avoid obstacles while avoiding obstacles
Challenges

- Follow line
- Locate obstacle
- Avoid obstacle
- Redetect line
Assumptions

• Static world

• Line:
  – clearly distinguishable
  – no intersections
  – limited to slight curvature

• Obstacles:
  – bright colours
  – fixed size
Approach

• Follow line:
  – Use Hough Transformation to detect the line

• Locate obstacles:
  – First step: detect markers on the obstacles
  – Second step: use optical flow to detect obstacles

• Avoid obstacles & redetect line

• Find waypoints around obstacle