

S#2 G mapping Slam

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Open Slam G-mapping

- Simultaneous Localization and Mapping
- Occupancy Grid Map
- Cost Maps

Requirements :

Différence

- Odometry Data
- Horizontal Lidar
- Tf Tree



Cost Maps

- **Red** cells represent obstacles in the cost map,
- **Blue** cells represent obstacles inflated by the inscribed radius of the robot,
- **Red** polygon represents the footprint of the robot.



For the robot to avoid collision, the footprint of the robot should **never intersect a red cell** and the **center point of the robot** should never cross a **blue cell**.

