

The background features a light gray illustration of a robotic arm with a camera-like sensor at the end, positioned over a collection of 3D blocks. Some blocks are numbered (1, 2, 3) and others have text like 'HELLO' and 'WORLD'. A 'ROS' logo is visible in the bottom left corner. A vertical line separates the version number on the left from the title on the right.

3.2.2

Mapping with TurtleBot

Turtlebot

- The Turtlebot uses a SLAM implementation called 'gmapping'
- It gathers information about the environment using laser scanning
- Data from the laser scan is used to build the map