## How to RUN Graph Slam

## 1. Download the files below and save in a directory (For Example: Downloads/Bags)

## Example1 (Indoor)

Bag file (recorded in a small room):

* [hdl\_501.bag.tar.gz](http://www.aisl.cs.tut.ac.jp/databases/hdl_graph_slam/hdl_501.bag.tar.gz) (raw data, 344MB)
* [hdl\_501\_filtered.bag.tar.gz](http://www.aisl.cs.tut.ac.jp/databases/hdl_graph_slam/hdl_501_filtered.bag.tar.gz) (downsampled data, 57MB, Recommended!)

2. Run roscore in a terminal.

3. Run the following commands in another terminal

rosparam set use\_sim\_time true

roslaunch hdl\_graph\_slam hdl\_graph\_slam\_501.launch

4. Run the following command in another terminal

roscd hdl\_graph\_slam/rviz

rviz -d hdl\_graph\_slam.rviz

5. Goto the Bags files directory and run the following command

rosbag play --clock hdl\_501\_filtered.bag