# Record a dataset for LSD SLAM

* Connect your webcam (preferably the Genius Widecam F100) to your laptop via USB.
* Launch the gscam ROS driver by running  
  ***roslaunch gscam gscam\_640\_480.launch***  
  This launchfile will downsample the full HD image to a resolution of 640x480, as this works best for LSD SLAM
* Start recording the camera image by running:  
   ***rosbag record /tf /camera/image /camera/camera\_info***
* LSD SLAM renders the best results if you move the camera sideways. Therefore, it is best to **circle around the room** with your back to the wall, while facing the camera to the wall on the opposite side of the room.
* Follow that trajectory **a few times** (at least twice). Later, when you run the LSD SLAM algorithm, this will result in **loop closures**.
* When you finished, stop the recording by typing CTRL+C in the terminal.