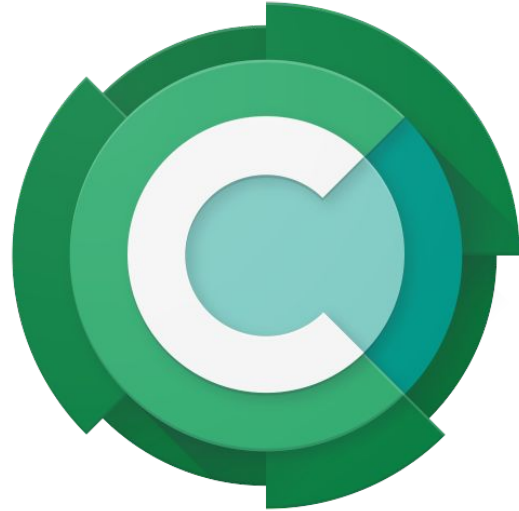


# Cartographer Open House

July 6, 2017



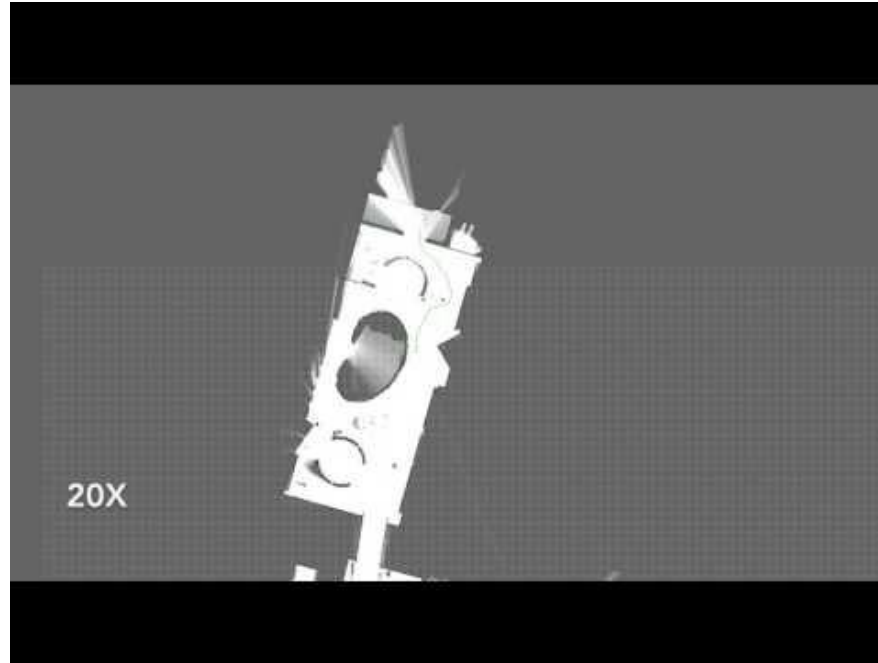
# What landed on master? • cartographer

- Notable bugs fixed: previous pose ([#367](#))
- Quality improvements:
  - IMU orientation estimation ([#361](#)).
  - Multi-res scan-matching ([#374](#)).
- Cleanups: No webp ([#358](#)), Removed options ([#360](#)), dead code ([#368](#), [#384](#), [#385](#)), no more Kalman filter ([#378](#)), Grow 2D submaps as needed ([#387](#))
- Finished submap deletion (from beginning of trajectory).
- Progress on lifelong ([#376](#), [#380](#), [#382](#), [#381](#), [#389](#))

# What landed on master? • `cartographer_ros`

- Live data demo (SLAM and pure localization) for Fetch/Freight.
- Asset writer is now multi trajectory aware ([#394](#), [#395](#)).
- Constraints visualization ([#375](#)).
- Pure localization demo ([#410](#)).
- Notable bug fixes: delay messages ([#406](#)), build fixes ([#396](#))

# Demo • Pure localization from serialized map



[YouTube link](#)

What landed on master? • `point_cloud_viewer`

- Bug fixes.

# Current work

- Serialization of in-memory state ([#253](#))
- Port pure localization to 3D
- Smarter global localization ([#329](#))
- Cleanups

Placeholder for other status reports

Help wanted!



# Thanks!

Next Open House:  
**July 20, 5pm CEST (8am PST)**

If you would like to present anything next meeting, please reach out to  
[hrapp@google.com](mailto:hrapp@google.com)