# Tools or Tipps for debugging Visualization/Perception? #4015

⊡ Closed    Unanswered    **TUMGEKA** asked this question in **Q&A**

**TUMGEKA** on Nov 22, 2023

We are currently in the process of implementing Autoware on our vehicle. We ensured that our vehicle could localize itself with our real-time data. Do you have any tips I can use to debug the localization/perception?

For example, to find out whether the localization looked at the point cloud or whether the localization was done exclusively via GNSS. We could also see during the drive that Autoware sometimes lets the vehicle drive in a non-existent circular motion; we would also like to debug the localization better for this. Are there any useful tools or nodes from Autoware for this?

↑ 1

**Category**

🙏 Q&A

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component:localiza...

**2 participants**

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**KYabuuchi** on Dec 5, 2023   Collaborator

@TUMGEKA Hello. Sorry for the late reply. Still having trouble getting the localization to work?

In general, visualizing topics in rviz is effective for debugging localization, but what is useful to visualize depends on the situation.
If you provide more details about the issues you are encountering, I can offer more detailed advice. For instance, you might mention issues like

- "Unable to perform initial pose estimation,"
- "Initial pose set in the wrong position,"
- or "Correct initial pose set, but incorrect position estimated when the vehicle moves."

↑ 1                                                                3 replies

**KYabuuchi** on Dec 5, 2023   Collaborator

If possible, if you could share your rviz videos and rosbags here, we can help you solve the problem more efficiently.

**TUMGEKA** on Dec 28, 2023   Author

Would it be possible to send you them in private? I am not sure if we can post them public

**KYabuuchi** on Dec 28, 2023 Collaborator

Sharing in private ways is also fine. I sent you a DM on discord. Please confirm it.

**KYabuuchi** on Dec 19, 2023 Collaborator

@TUMGEKA Since this is staled, I would like to close this issue in a week if you don't encounter this issue any longer or not up-to-date. Please feel free to reopen this issue if you have any further issues. Thank you for your understanding. 🙏

↑ 1                                                          0 replies