

indigo

kinetic

lunar

melodic

Show EOL distros: ☐

Documentation Status

viz (/viz?distro=melodic): [ros_base \(/ros_base?distro=melodic\)](#) | [rqt_common_plugins \(/rqt_common_plugins?distro=melodic\)](#) | [rqt_robot_plugins \(/rqt_robot_plugins?distro=melodic\)](#) | [rviz](#)

Package Links

- **Code API** (<http://docs.ros.org/melodic/api/rviz/html>)
- [Tutorials \(/rviz/Tutorials\)](#)
- [Troubleshooting \(/rviz/Troubleshooting\)](#)
- [FAQ \(http://answers.ros.org/questions/scope:all/sort:activity-desc/tags:rviz/page:1/\)](http://answers.ros.org/questions/scope:all/sort:activity-desc/tags:rviz/page:1/)
- [Changelog \(http://docs.ros.org/melodic/changelogs/rviz/changelog.html\)](http://docs.ros.org/melodic/changelogs/rviz/changelog.html)
- [Change List \(/rviz/ChangeList\)](#)
- [Reviews \(/rviz/Reviews\)](#)

Dependencies (24)

Used by (29)

Jenkins jobs (9)

Package Summary

✓ Released ✓ Continuous Integration: 53 / 53 ✓ Documented

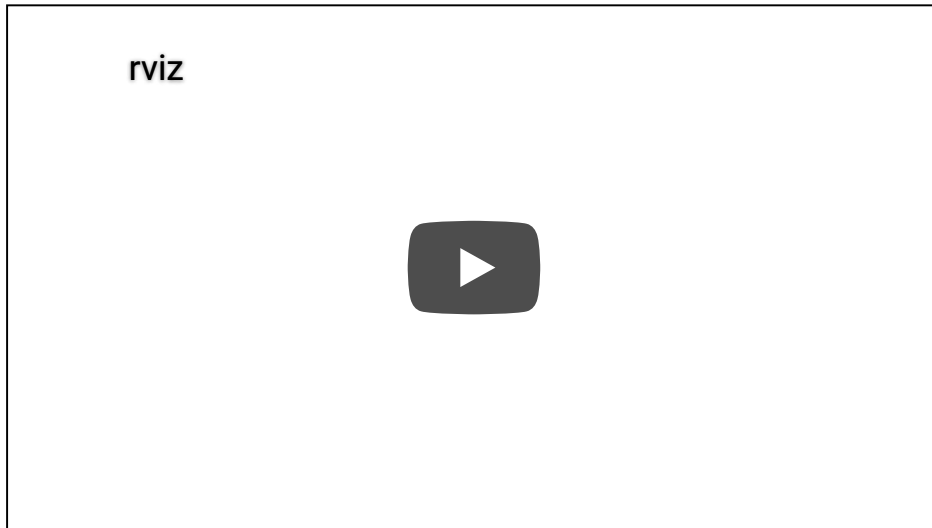
3D visualization tool for ROS.

- Maintainer status: maintained
- Maintainer: D. Hood <dhood AT osrfoundation DOT org>, William Woodall <william AT osrfoundation DOT org>
- Author: Dave Hershberger, David Gossow, Josh Faust
- License: BSD, Creative Commons
- Bug / feature tracker: <https://github.com/ros-visualization/rviz/issues> (<https://github.com/ros-visualization/rviz/issues>)
- Source: git <https://github.com/ros-visualization/rviz.git> (<https://github.com/ros-visualization/rviz>) (branch: melodic-devel)

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1. Overview



2. User Documentation

1. User Guide (/rviz/UserGuide)
2. Troubleshooting (/rviz/Troubleshooting)
3. Built-in Display Types (/rviz/DisplayTypes)
4. 🌐 Basic Shapes API Wrapper - rviz_visual_tools (https://github.com/davetcoleman/rviz_visual_tools)

3. Tutorials

1. Markers: Sending Basic Shapes (C++) (/rviz/Tutorials/Markers%3A%20Basic%20Shapes)
Shows how to use visualization_msgs/Marker (http://docs.ros.org/api/visualization_msgs/html/msg/Marker.html) messages to send basic shapes (cube, sphere, cylinder, arrow) to rviz.
2. Markers: Points and Lines (C++) (/rviz/Tutorials/Markers%3A%20Points%20and%20Lines)
Teaches how to use the visualization_msgs/Marker (http://docs.ros.org/api/visualization_msgs/html/msg/Marker.html) message to send points and lines to rviz.
3. Interactive Markers: Getting Started (/rviz/Tutorials/Interactive%20Markers%3A%20Getting%20Started)
This tutorial explains what Interactive Marker are and teaches you some of the basic concepts.
4. Interactive Markers: Writing a Simple Interactive Marker Server (/rviz/Tutorials/Interactive%20Markers%3A%20Writing%20a%20Simple%20Interactive%20Marker%20Server)
This tutorial explains how to setup a minimalist server which manages a single interactive marker.
5. Interactive Markers: Basic Controls (/rviz/Tutorials/Interactive%20Markers%3A%20Basic%20Controls)
This tutorial explains how the basic_controls tutorial code works.
6. Plugins: New Display Type (/rviz/Tutorials/Plugins%3A%20New%20Display%20Type)
How to write a plugin which adds a new display capability to RViz.
7. Plugins: New Dockable Panel (/rviz/Tutorials/Plugins%3A%20New%20Dockable%20Panel)
How to write a plugin which adds a new type of dock-able Panel widget to RViz.
8. Plugins: New Tool Type (/rviz/Tutorials/Plugins%3A%20New%20Tool%20Type)

How to write a plugin which adds a new tool to RViz.

9. Librviz: Incorporating RViz into a Custom GUI

(/rviz/Tutorials/Librviz%3A%20Incorporating%20RViz%20into%20a%20Custom%20GUI)

How to write an application using an RViz visualization widget.

10. Rviz in Stereo (/rviz/Tutorials/Rviz%20in%20Stereo)

Teaches how to set up Rviz to render in 3D Stereo.

4. API Documentation

4.1 Command Line Options

To see the list of command line options for your RViz release, run the following command:

```
roslaunch rviz rviz --help
```

5. Recording Movies

rviz does not have a builtin capability to record movies. You can, however, use an application like [GLC](https://github.com/nullkey/glc/wiki) (<https://github.com/nullkey/glc/wiki>) (or [SimpleScreenRecorder](http://www.maartenbaert.be/simplescreenrecorder/) (<http://www.maartenbaert.be/simplescreenrecorder/>)) to do so. The [RecordingOpenGLAppsWithGLC](#) (/RecordingOpenGLAppsWithGLC) page has more information on recording and encoding.

6. Report a Bug

[Report a bug or request a feature](https://github.com/ros-visualization/rviz/issues/new) (<https://github.com/ros-visualization/rviz/issues/new>). [[View active tickets](https://github.com/ros-visualization/rviz/issues?state=open) (<https://github.com/ros-visualization/rviz/issues?state=open>)]

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