

# Dealing with rosbags

## Rosbag Pacakage

This ros package includes a set of tools to record, and playback reocrded bags. For example if our bagfile is named `recording.bag` :

- Summary about the messages and topics in a bag `rosviz play recording.bag`
- playback the recorded bag `rosviz play recording.bag`

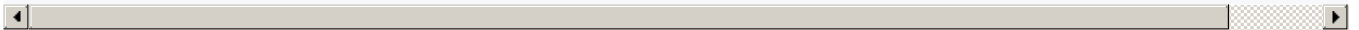
Check the documentation for more.

## Exporting images from bag files using image\_view package

Example for depth and color extraction from bag file.

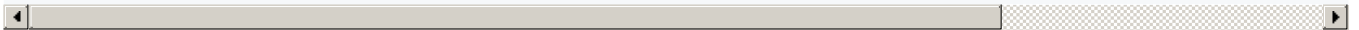
- Please replace the topic name with a suitable topic from your bagfile. You could use `rosviz info` to check topic names you have.
- First, run the image saver command to extract images
  - Color (replace `/camera/137322071445/color/image_raw` with your color topic)

```
rosviz image_view image_saver image:=/camera/137322071445/color/image_raw _save_all_image:=all _filename_format:=export/color%
```



Depth (replace `/camera/137322071445/aligned_depth_to_color/image_raw` with your depth topic)

```
rosviz image_view image_saver image:=/camera/137322071445/aligned_depth_to_color/image_raw _encoding:=16UC1 _save_all_image:=a
```



- Then, playback the recorded bag file

```
rosviz play recording.bag
```

## Exporting images using python

- If you want more control on your processing pipeline you could check [rosviz cookbook](#)
- You could also modify the `visualizer.py` [code](#) to save data instead of visualization.

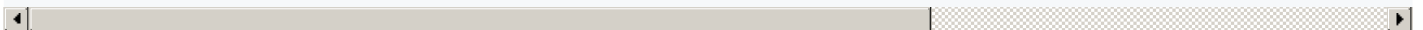
## Visualization

- You could playback the bag file and use `rosviz` to visualize your color and depth topics as `Image` .
- You could also use the `visualizer.py` [code](#)

## Recording

You could use `rosviz record` to record color and depth topics for example to record multiple color, depth, and camera\_info topics we could use the following command

```
rosviz record $(rostopic list | grep "aligned_depth_to_color/image_raw$/color/image_raw$/color/camera_info$/aligned_depth_to_c
```



- The `rostopic list | grep ...` will list all topics matching the regular expression we feed.
- Here, the regex checks for topics ending with any of the following strings
  - `aligned_depth_to_color/image_raw`
  - `color/image_raw`
  - `/color/camera_info`
  - `aligned_depth_to_color/camera_info`
- `--split size 4096` command will split the output into multiple files each of size 4GB