bagmanager

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CONTENTS:

1	Installation	3
2	Usage	5
3	Development	7
4	Test	9

A thin wrapper around rosbag.Bag with some convenient methods



CONTENTS: 1

2 CONTENTS:

СНАРТЕ	:R
ON	Ε

INSTALLATION

pip install bagmanager

CHAPTER

TWO

USAGE

```
from bagmanager import BagManager
bag_file = '/path/to/bag/file.bag'
bag_manager = BagManager(bag_file=bag_file)
# info about the bag file
print (bag_manager)
# get information about the topic
topic_info = bag_manager.get_topic_info(topic='some_topic', get_header_time=True)
# get_header_time=True is costly but returns a list of timestamps from the messages_
⇔headers.
# get the timestamp from the message header of the 3rd message
time_header = topic_info['msq_time_list_header'][2]
# get the timestamp from the bag of the 1st message
time_rosbag = topic_info['msg_time_list_rosbag'][0]
# get the number of messages in the topic
number_of_messages_in_topic = topic_info['message_count']
# get the message type of the topic
message_type = topic_info['message_type']
# get the frequency of messages in the topic
frequency = topic_info['frequency']
# get the closest msg from 'another_topic' to a message from 'some_topic'by its 3rd_
→message **header** time
msg = bag_manager.get_closest_message_by_header_time(topic='another_topic', time_
→header=time_header)
# get the closest msg from 'another_topic' to a message from 'some_topic'by its 1st...
→message **rosbag** time
msg = bag_manager.get_closest_message_by_rosbag_time(topic='another_topic', time_
→rosbag=time_rosbag)
# get a msg from 'some_topic' by index
msq = bag_manager.get_message_by_index(topic='some_topic', index=number_of_messages_
→in_topic-1)
# get the number of messages from topics in an interval of times
```

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6 Chapter 2. Usage

CHAPTER

THREE

DEVELOPMENT

Create a venv (recommended)

git clone https://github.com/omrirz/bagmanager.git
python -m pip install -r requirements.txt

CHAPTER	
FOUR	

TEST

python -m pytest