ROS Rviz,bag,sensor_msg,tf(1)

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- 1. ROS bag
 - 1) Rosbag
 - ROSMASTER 실행

```
ubuntu@Park:-$ roscore
... logging to /home/ubuntu/.ros/log/fe4886ae-36a6-11eb-96ee-3497f69b6ef8/roslaunch-Park-14622.log
Checking log directory for disk usage. This may take awhile.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

started roslaunch server http://Park:38687/
ros_comm version 1.12.16

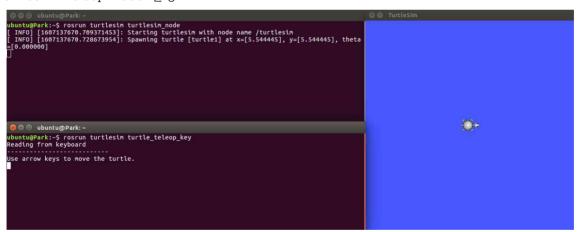
SUMMARY
========

PARAMETERS
* /rosdistro: kinetic
* /rosversion: 1.12.16

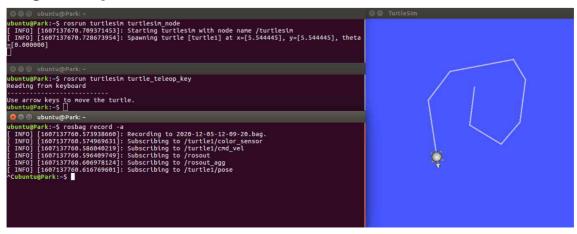
NODES

auto-starting new master
process[naster]: started with pid [14632]
ROS_MASTER_URI=http://Park:11311/
setting /run_id to fe488d6ae-36a6-11eb-96ee-3497f69b6ef8
process[rosout-1]: started with pid [14645]
started core service [/rosout]
```

- Turtlesim node 실행
- Turtlesim Teleop node 실행



- Rosbag record 실행
- Teleop node에서 방향키로 조작
- Rosbag record 종료



- Bag file 확인

2) Rosbag play

- Bag file 재생

```
●● ubuntu@Park:~

/turtle1/pose 3452 msgs : turtlesim/Pose

ubuntu@Park:~$ rosbag play 2020-12-05-12-09-20.bag

[INFO] [1607137979.308168996]: Opening 2020-12-05-12-09-20.bag

Waiting 0.2 seconds after advertising topics... done.

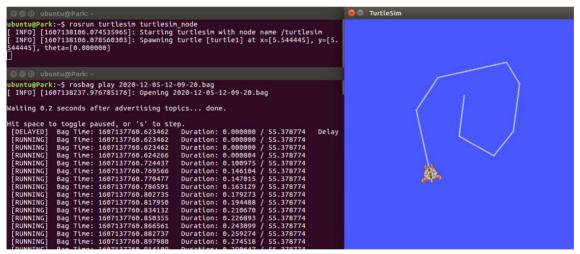
Hit space to toggle paused, or 's' to step.

[RUNNING] Bag Time: 1607137815.969937 Duration: 55.346475 / 55.378774

Done.

ubuntu@Park:~$
```

- Turtlesim node에서 record된 topic 확인
- Turtlesim node 재시작
- Rosbag play, 동일한 동작 확인





[record 된 turtlesim]