This project is to showcase the performance of c++ and python.

By running this project we can clearly see that when both the publisher and subscriber is written in cpp then the performance is much better than when either or both of the publisher and subscriber are written in python by visualizing the number of bump in the rqt-plot-graph.

1) If booth of the node i.e. publisher and subscriber is in written in c++ then the graph will be more smooth with very less number of bumps.



2) If booth of the node i.e. publisher and subscriber is in written in python then the graph will be zigzag with more number of bumps.



3) If publisher is written in python and subscriber is written in c++ then also the graph will be more blurry with more bumps because the node which is publishing the data is written in python which is slower than c++.



4) If publisher is written in cpp and subscriber is written in python then the graph will have fewer bumps than the above case as this time publisher is written in c++ which is faster.



Conclusion: - So, by running the nodes with different combinations we can easily visualize and confirm that c++ code is much faster than python code.