



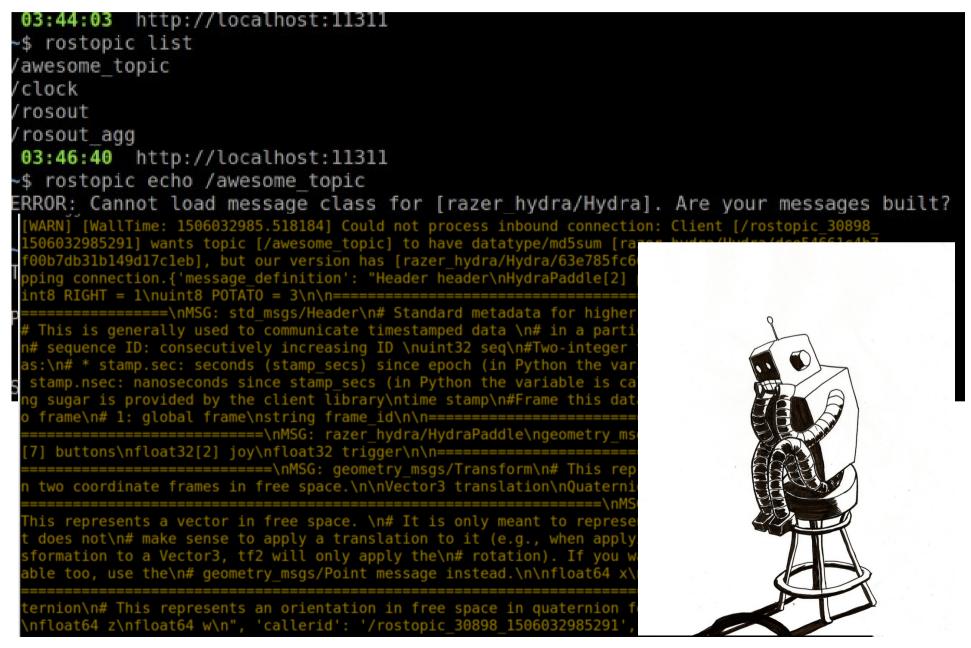
# Hey robot, talk to me

03:44:03 http://localhost:11311
~\$ rostopic list
/awesome\_topic
/clock
/rosout\_agg
03:46:40 http://localhost:11311
~\$ rostopic echo /awesome\_topic
ERROR: Cannot load message class for [razer\_hydra/Hydra]. Are your messages built?
03:46:44 http://localhost:11311
~\$ rostopic info /awesome\_topic
Type: razer\_hydra/Hydra
Publishers:

\* /rostopic\_6214\_1506015994964 (http://xpssam:37756/)

Subscribers: None

## Hey robot, talk to me



### make\_ws\_from\_all\_publishers.py

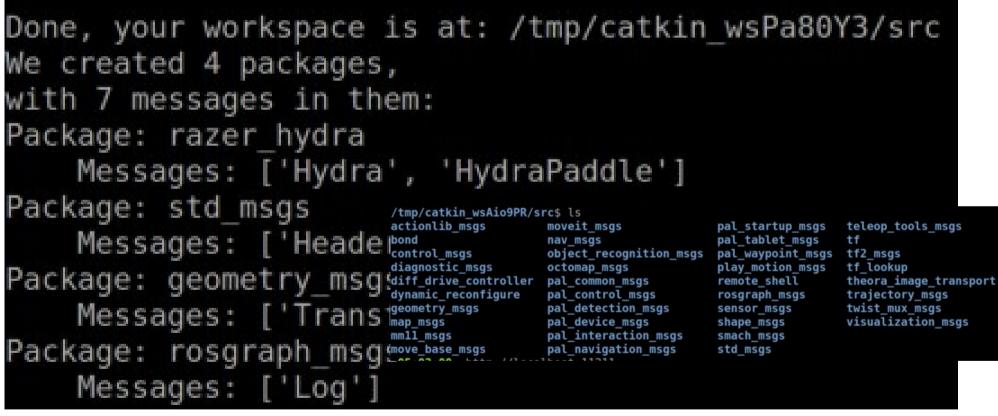
07:48:49 http://localhost:11311 -/solve my problems\$ git clone https://github.com/uts-magic-lab/message thief Cloning into 'message thief'... remote: Counting objects: 27, done. remote: Compressing objects: 100% (14/14), done. remote: Total 27 (delta 12), reused 27 (delta 12), pack-reused 0 Unpacking objects: 100% (27/27), done. Checking connectivity... done. 07:48:52 http://localhost:11311 ~/solve\_my\_problems\$ cd message thief/ 07:48:54 http://localhost:11311 (master) ~/solve my problems/message thief\$ ls get\_all\_runtime\_msgs.py make\_ws\_from\_topic\_publisher.py recreate\_msgs.py make\_ws\_from\_all\_publishers.py README.md steal msg from pub.py 07:48:55 http://localhost:11311 (master) ~/solve my problems/message thief\$ ./make ws from all publishers.py

### make\_ws\_from\_all\_publishers.py

```
Done, your workspace is at: /tmp/catkin wsPa80Y3/src
We created 4 packages,
with 7 messages in them:
Package: razer hydra
   Messages: ['Hydra', 'HydraPaddle']
Package: std msgs
   Messages: ['Header']
Package: geometry msgs
   Messages: ['Transform', 'Vector3', 'Quaternion']
Package: rosgraph msgs
   Messages: ['Log']
```

07:49:22 http://localhost:11311 (master)
~/solve\_my\_problems/message\_thief\$ ls /tmp/catkin\_wsPa80Y3/src
geometry\_msgs razer\_hydra rosgraph\_msgs std\_msgs

### make\_ws\_from\_all\_publishers.py



07:49:22 http://localhost:11311 (master)
~/solve\_my\_problems/message\_thief\$ ls /tmp/catkin\_wsPa80Y3/src
geometry\_msgs razer\_hydra rosgraph\_msgs std\_msgs

### get\_all\_runtime\_msgs.py

~/solve my problems/message thief\$ ./get all runtime msgs.py Getting currently listening topics and their types... Found 2 listening topics. Getting currently published topics and their types... Found 3 topics. Merging both topics lists... Found 4 total topics. Found 0 posible action servers... Confirmed 0 action servers. Found 35 messages used. Found 3 message packages to be fetch. We found 36 message files that we directly depend. We are sure that 39 message files are depended. Getting current services... Found 9 services. Found 3 service messages used. Found 3 service message packages to be fetch. Found we need 4 messages for the services. Adding to what we had, now found we need 42 message files. We looped 2 times to find more messages... Final resume: We'll generate 10 packages. With 71 msg definition files. And 3 srv service definition files. And 0 action definition files.

#### get\_all\_runtime\_msgs.py

<pre>~/solve_my_problems/message_thief\$ ./get_all_runtime_msgs.py</pre>	
Getting currently listening topics and their types	
Found 2 listening topics.	
Getting currently published topics and their types	
Found 3 topics.	
Merging both topics lists	
Found 4 total topics.	
Found 0 posible action servers	
Confirmed 0 action servers.	Final resume:
Found 35 messages used.	
Found 3 message packages to be fetch.	We'll generate 49 packages.
We found 36 message files that we directly depend.	With 199 msg definition files.
We are sure that 39 message files are depended.	And 100 srv service definition files.
Getting current services	And 19 action definition files.
Found 9 services.	
Found 3 service messages used.	
Found 3 service message packages to be fetch.	
Found we need 4 messages for the services.	
Adding to what we had, now found we need 42 message files.	
We looped 2 times to find more messages	
Final resume:	
We'll generate 10 packages.	
With 71 msg definition files.	
And 3 srv service definition files.	
And O action definition files.	
<pre>~/solve_my_problems/message_thief\$ ls /tmp/catkin_wsV7SMbg/src, geometry_msgs object_recognition_msgs roscpp sensor_</pre>	

rosgraph msgs

moveit\_msgs

razer hydra

shape\_msgs

trajectory\_msgs

# **ROS Message thief**

https://github.com/uts-magic-lab/message\_thief

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