Dependencies:

- OS: Tested on Ubuntu 16.04 LTS
- python 3.x (tested with 3.6.9)
- pip3 (tested with 21.1.3)

How to setup

$ cd <project_folder>

$ pip3 install -r requirements.txt –user

Usage

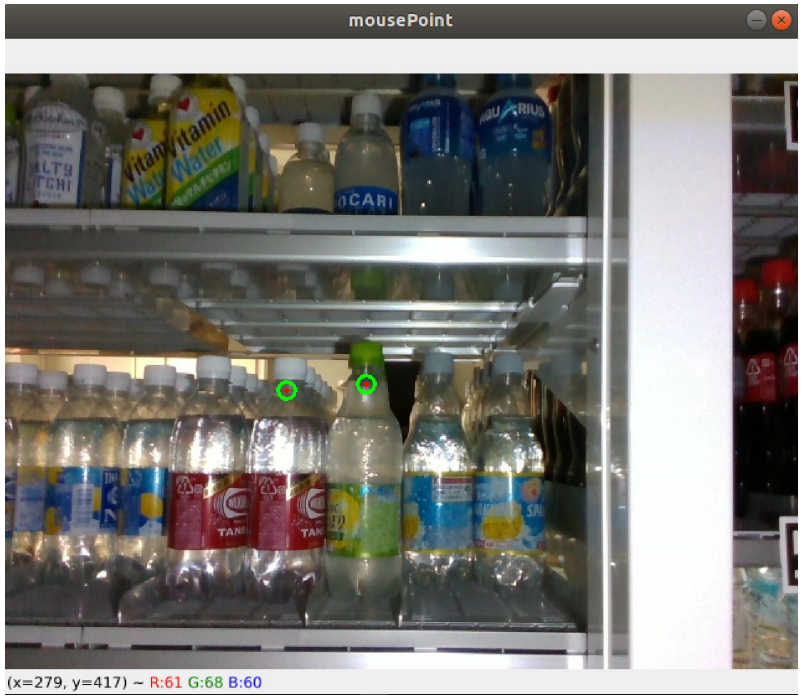
shelf_data_scan_test.py is the main script.

This script imports RGB images from ./RGBD_sim_real/color/*.png

And it also imports Depth images from ./RGBD_sim_real/depth/*.png

On UI, you can check each RGB image and click some of the points,

After clicking, UI can show the 3D positions of those clicked points in point-cloud view,



How to run

1. run the script by python3
   $ python3 ./shelf_data_scan_test.py
   Then you'll see GUI. You can click some of the points on GUI

2. If you press 'a' key, UI navigates to the next image
   and 'd' key to navigate back to the previous page
   (sorry this is prototype so sometimes you need to type 'a'/'d' keys several times)

3. After clicking the points, press 'ESC' (escape) key,
   computation to get corresponding 3D position from Depth image will be started.

4. After the computation, you'll see the point-cloud 3D view
   you can see your clicked points are visualized in the 3D view