Dynamic fusion

Internship Week 1
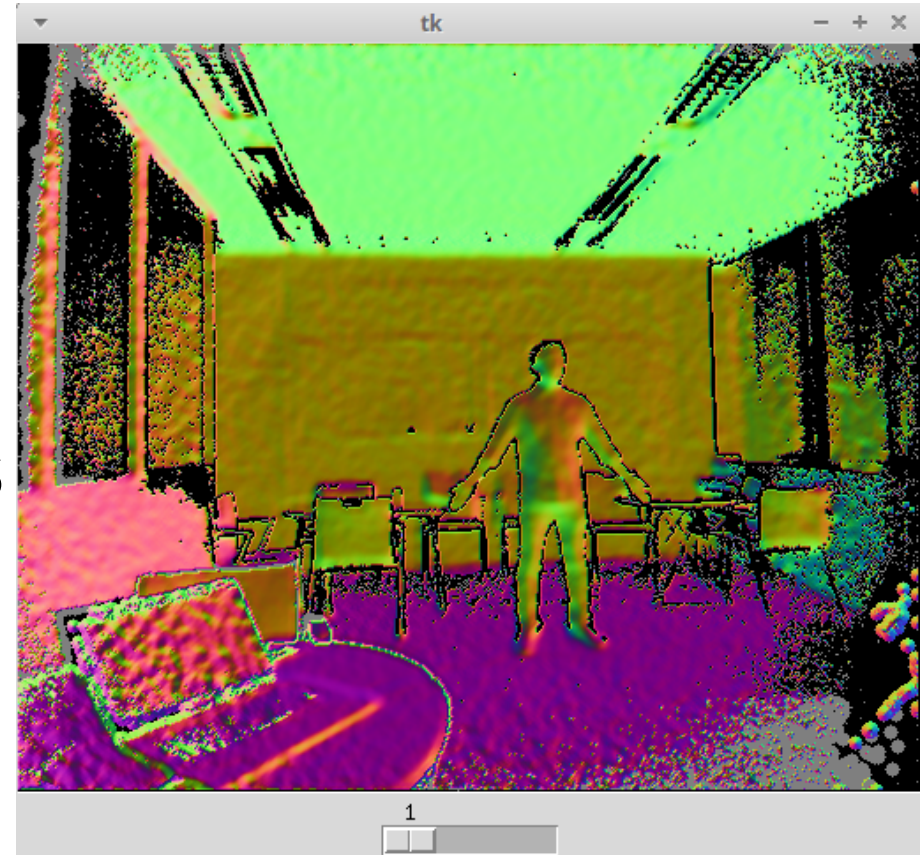Environment settings

Last meeting

- Nguyen's final meeting:
  - DepthMap conversion, segmentation, tsdf, volumetric integration
  - Tracking origin's?
  - Matlab

- Plan for Inoe :
  - Environment settings (python, github)
  - Get data's from Nguyen
  - Catch up what Nguyens has done

Progress

- Papers, data and some code from Nguyens

- Python:
    - Anaconda + spyder
    - Fundamentals of coding
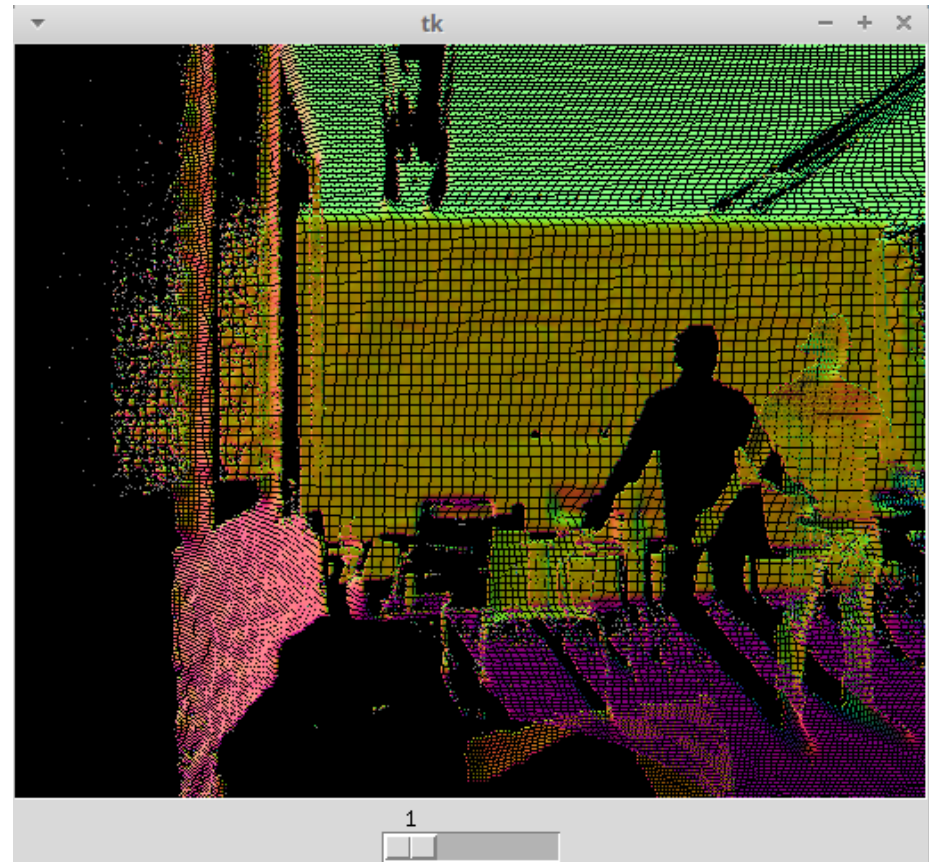   - Need to learn more about OOP with python

- Github

Progress

- Python: numpy use of array and matrix

- Optimize :

    - Vmap : 2s to 3 ms

    - Nmap : 40s to 250 ms

    - Draw : 3s to 100 ms

Progress

- Python: numpy use of array and matrix

- Optimize :

  – Vmap : 2s to 3 ms

  – Nmap : 40s to 250 ms

  – Draw : 3s to 100 ms

Action plan

- Tracking :
  - Theory
  - Coding
- Volumetric representation (TSDF) :
  - Theory

Q&A

- Di(u) => global bilateral filter. How to choose sigma space and sigma color? Value in uint16 but convert in uint8

- Border effects of Vmap and Nmap ?