Dynamic fusion

大学共同利用機関法人 情報・システム研究機構
国立情報学研究所
National Institute of Informatics

Internship Week 3
Environment settings III
13 March 2017

Last meeting

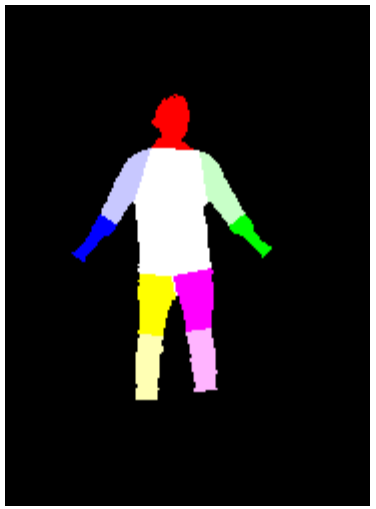
- Previously
  - Data reading, skeleton, colors display
  - Half of the segmentation code translated
- Plan for the week:
  - Finish segmentation
  - Start bounding boxes, coordinates changes for each segmented part of the body
- Reading papers

Progress

- The skeleton shift disappeared
- Segmentation code completely translated
  - Polygon method very slow (12s → 0,25s)
  - Still need to change one hard-coded distance (but it is not really relevant)
  - Use of one whole body binary image

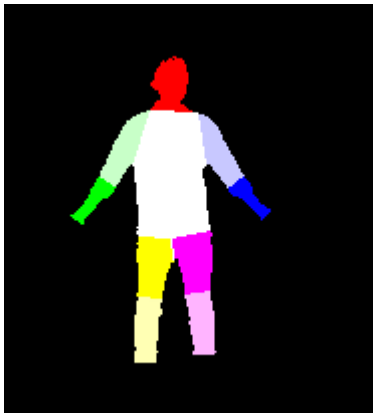
Result

From Data

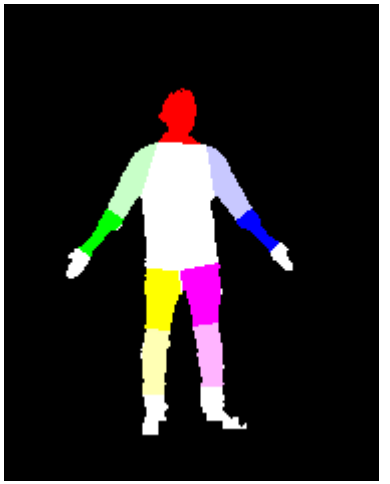


Translation from matlab to python

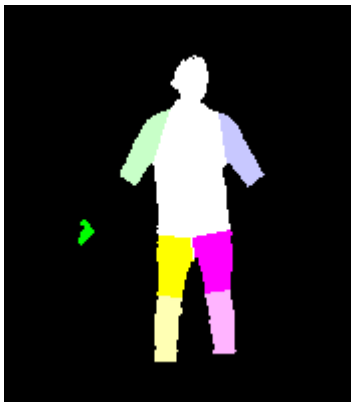
Only with the segmentation code



By adding the rest in one segmented group



Attempt of Optimization



Progress

- Did not have time for bounding boxes and coordinates change
- Fast understanding of Diego’s tracking

Action plan

- Bounding boxes
- Coordinates changes
- Truncated Signed Distance Function?
- Finish polygon optimization?