

Pipeline for Stereoscopic stitching work

1. Visualize the matches from superpoint+lightglue, learn the matches and points from the results;\
 1. Extract points and matches from results
2. Visualize the results from segmentation, learn the results and how to extract regions;\
 1. Extract semantic region mask from SAM2's results
 2. Make a class:Region to store region mask and points inside
3. Match points to semantic region, build class to save them;
 - 1.
4. Learn how to use points to controll image warping;\
5. Learn DLT/MDLT to estimate optimal homography;\
6. Learn DLT to solve energy minimization problem, write class to realize with Homography, Disparity, smoothness;\
7. Stereo Stitching;\

Using StereoscoPy to Generate Red-Cyan stereoscopic pairs

install: pip install stereoscopy

CIL: StereoscoPy -S 5 0 -a -m color --cs red-cyan --lc rgb imgs_ss/11040035_l.png imgs_ss/11040035_r.png
results/anaglyph_color_rc.jpg

-A: autoalignment(should be off)

-a: anaglyph output

-S: xy shift for left/right image

-m: method

-cs: color scheme (should be red-cyan)

--lc: luma coding (should be rgb)