VISION
Practical Work n°1: Panorama construction

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(a) Left image with 4 selected points

(b) Right image with 4 selected points

Figure (1) **Panorama without averaging the colors on the overlapping area.** The fact that the line separating the two images is clearly visible makes us think that our eyes are extremely sensitive to the contrast.

(a) Left image with 10 selected points

(b) Right image with 10 selected points

Figure (2)   **Panorama without averaging the colors on the overlapping area.** We can see that the stitching of the two images is better!

(a) Left image with 10 selected points   (b) Right image with 10 selected points

Figure (3)   **Panorama obtained while averaging the colors on the overlapping area.** The points are roughly the same ones as in the previous figure. Some of them may be shifted by some pixels. This case persuades us that averaging on overlapping area doesn't necessarily make the panorama more appealing.
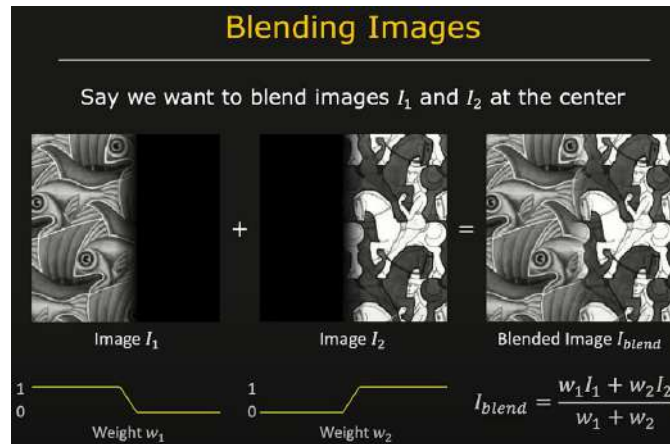

Figure (4)   An image illustrating a more sophisticated way to blend the two images. Source: **here.**

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(a) Left image with 12 selected points

(b) Right image with 12 selected points

Figure (5) **Panorama obtained while averaging the colors on the overlapping area.** I carefully took these photos with my smartphone in order to test the program on other data but it fails. This is mostly due to the distortion.