

# **Report Lab expierience 7**

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## **Experience Gained**

In this lab I understand how to :

- Extract Features and Descriptors (SIFT one's) from an Image with  
`cv::Ptr<cv::SIFT> detector = cv::SIFT::create()` and `detector->detectAndCompute()`
- Match features between two images with `cv::Ptr<cv::BFMatcher> matcher = cv::BFMatcher::create(cv::NORM_L2)` and `matcher->match()`
- Apply a transformation to an image with `cv::warpPerspective()` function.

## Unexpected Issues

The main difficulties of this Lab were :

- Computing the exact final size of the image stitched
- Understand how to combine more two images together
- One thing to notice is that, almost all dataset works well except the one called "dolomities". Here, due to some irregularities obtained during the computation of the translations matrix (i.e. `cv::warpPerspective()`) some matrices where not 100

## Results

In this section we talk about the experimental results : (Name specified are the name of the folders containing the images)

dolomites:



data :



kitchen :



dataset\_auto :



dataset\_manual :



Notice that all the images where created with the parameter called "ratio" equals to 10