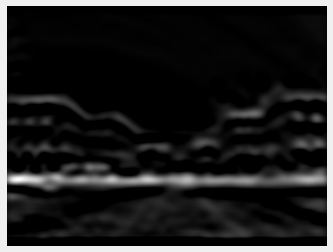
# Project 4 Scene recognition with bag of words

## Q1.1 Extract Filter Responses



Original campus image from the dataset







3 filter responses

I noticed these artifacts: color reversing, blurring, sharpening, horizontal and vertical edge extraction.

CIE Lab color space expresses color using L (lightness), a (from green, negative to red, positive) and b (from blue, negative to yellow, positive). Lab color space is a better approximation to human vision than RGB.

## Q1.2 Collect sample of points from image



Random points on campus image

A picture containing sky, outdoor, ground, grass

Description automatically generated

A picture containing indoor, wall

Description automatically generated

A picture containing indoor, table, floor, wall

Description automatically generated

The results of the corner detector on 3 different images