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**Computer Vision 22928**

**Explanations for Maman11:**

**Question 1:**

Please run **ex1/ex1.py**.

a.

generate\_random\_gaussian\_matrix

parameters:

mean=10, std=5, size=(100, 100)

as requested,.

Linearly normalizing the output to be between 0 and 1, so cv2.imshow can work with it. And show it properly.

b.

draw\_histogram

using 256 bins, setting some arbitrary bin width for visual beauty.

Centering each bar on the average of its data by calculating

center = (bins[:-1] + bins[1:]) / 2

c.

read\_my\_image

reading the image twice-

once into

self.\_\_color\_image

as a color image

and once into

self.\_\_grayscale\_image

as a grayscale image

d.

detect\_edges

applying a canny edge detector by cv2.

Using thresholds: (thres1, thres2) = (300, 250), (500, 300), (1000, 250)

With lower thres1, we see finer details.

With lower thres2 we see lines less broken.

This is given thres1 > thres2.

**Question 2:**

Please run **ex2/blob\_detector.py**