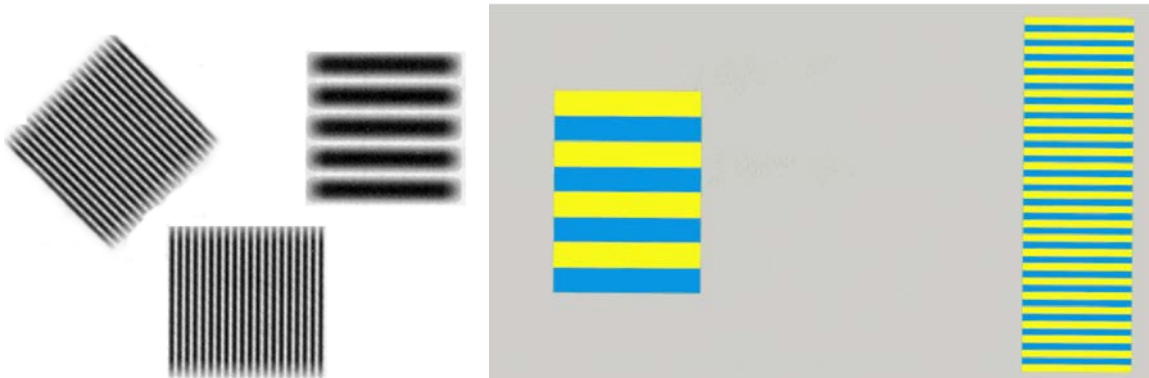


Assignment 1 (CO1, CO2)

Deadline for submission: 16<sup>th</sup> August 2022

Periodicity in Space and inter-play of colours:



We can observe that some periodicity exists in Spatial domain in the above images. Enjoy the space Periodicity and Experiment with your friend's ability to perceive it. Find the number of repetitions from shift in blue-yellow to greenish (and vice-versa) impressions on his/her perception.

Explicitly mention in your report:

1. If your friend is a sensor whom you are doing this experiment with, will you get the same results? Will the sensor ever lose its ability to perceive the colours?
2. Is there any relation of this with the wavelength of colours chosen? Can you think of some other colour combinations?
3. Going from yellow-blue to greenish and the reverse way, is there a difference between number of repetitions? If yes can you guess why is it happening? Correlate it with the Hysteresis.
4. Can you suggest some applications where this feature of periodicity may be used?

Also write in a line or two about What new things did you learn from this experiment-based Assignments?

Submit ONE-PAGE report.