

Assignment 2

COMPUTATIONAL COGNITIVE SCIENCE

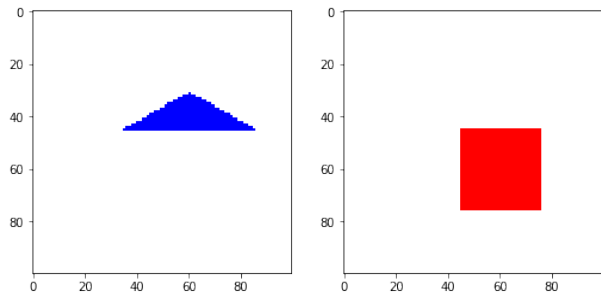
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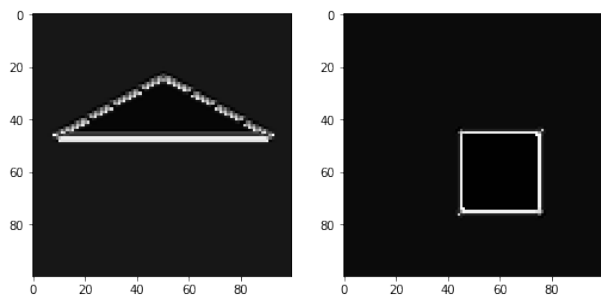
March 8, 2019

Question 1: Orientation-selective 2D Gabor filters

Generated triangle and square images, shown below,



The *compute_feats* function computes features, by convolving Gabor filter kernel with the image.

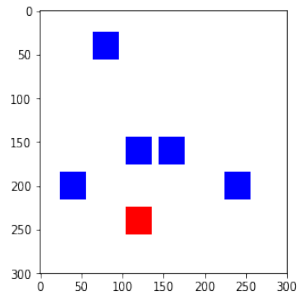


For detection, We have used three gabor filters to filter out the edges, and used *match* function to compare referenced images with generated output.

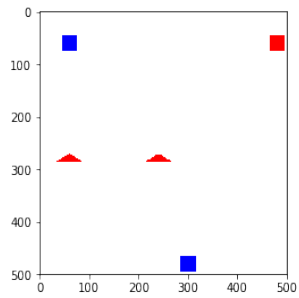
Result of question 1 is triangle, square.

Question 2: Visual search paradigm of Triesman

For Feature map, we randomly choose the shape and the color of odd object, for creating the map.



For Conjunction map, we randomly choose the shape and color of the odd object, for creating this map.



Question 3: Plotting graph time vs of objects

