I apologize, I think I made a mistake while drawing Network 5. Network 5 takes a **10x5** image, NOT 60x60. The only difference between the network architecture in the diagram below and network 5 are the size of input image though. I used this tool to draw the networks: http://alexlenail.me/NN-SVG/AlexNet.html

Network 3 & 4 and Network 5 do not overlap in their architecture so far. Here’s how the output of Network 3 & 4 is consumed by Network 5:

Outputs

Same or Different

Network 5

10x5x3

Image

Network 4

Custom NUMPY Code

Extract 5x5 Square Items from the original image using the coordinates from the mask and build a 10x5x3 image

60x60 Masks

60x60 Masks

Outputs

Outputs

60x60x3

Input Image

60x60x3

Input Image

Network 3