

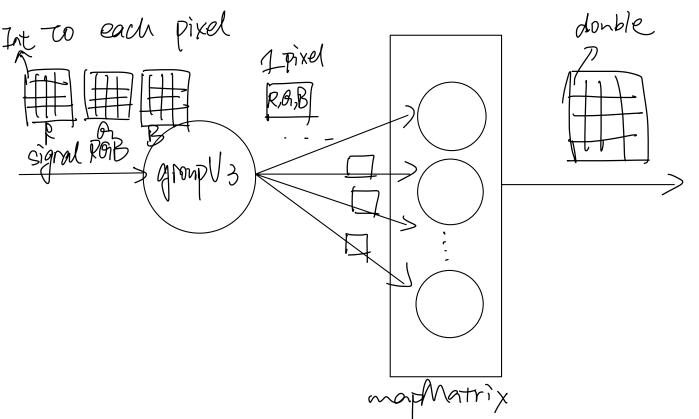
(b) (i)

grayscale = mapMatrix (convert. fromVertor). map (group V3)

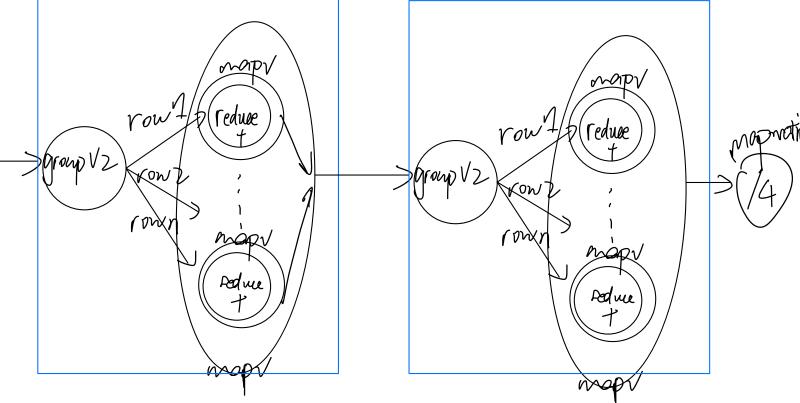
using the function convents the pixel vector group every 3 elements to convert RGB into from its internal representation of each now of the image

a grayscale value so a tuple of 3 values matrix into a vector.

to means RG, B channel first grouping ROB values into pixel then apply the growscale conversion



resize: Image Double > Image Double resize = mapMatrix (/4), sumRows. sum Cols Where apply reduce (+) to each pair group every 2 elements of Sum Cols = map V (map V (reduce V (+)). group V ≥) average pooling Sum Rows = map / (reduce / zipWith / (+))). group / 2 it's a downsampling process. first horizontally downsampling the vertically finally normalize



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