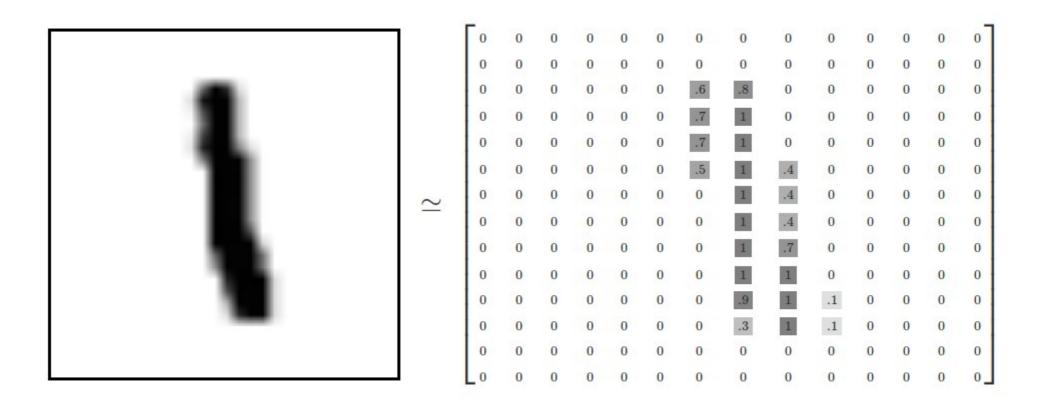
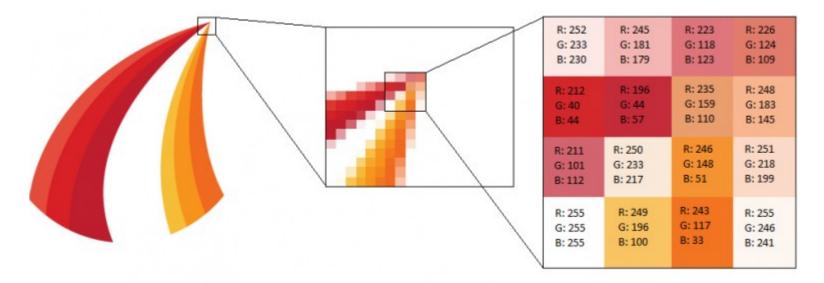
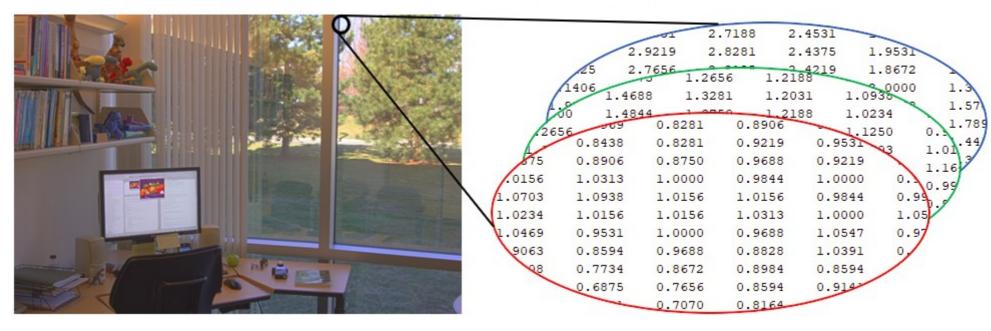
08 Dimensionality Reduction

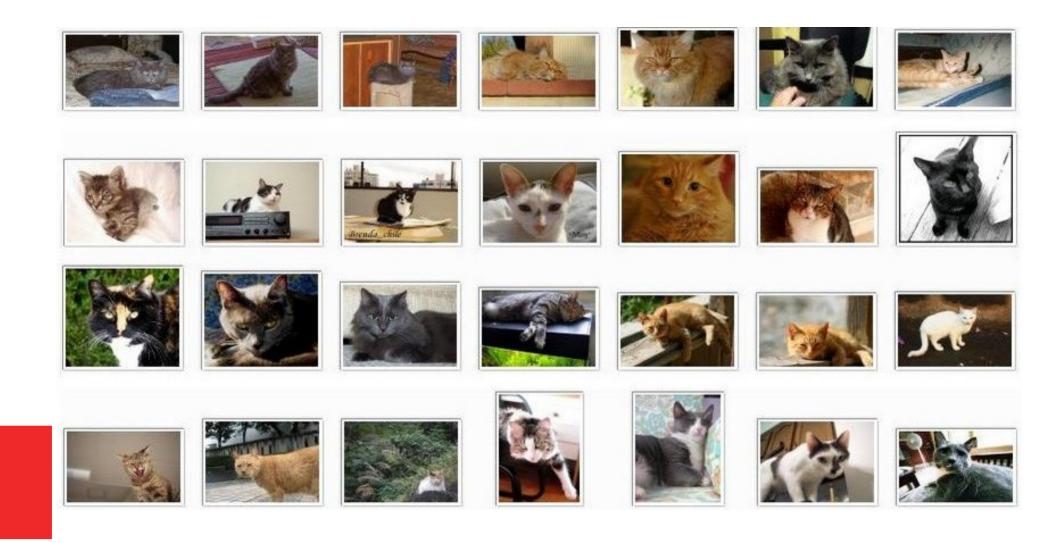
CVL@PIEAS



• Images are arrays of numbers, to a machine.



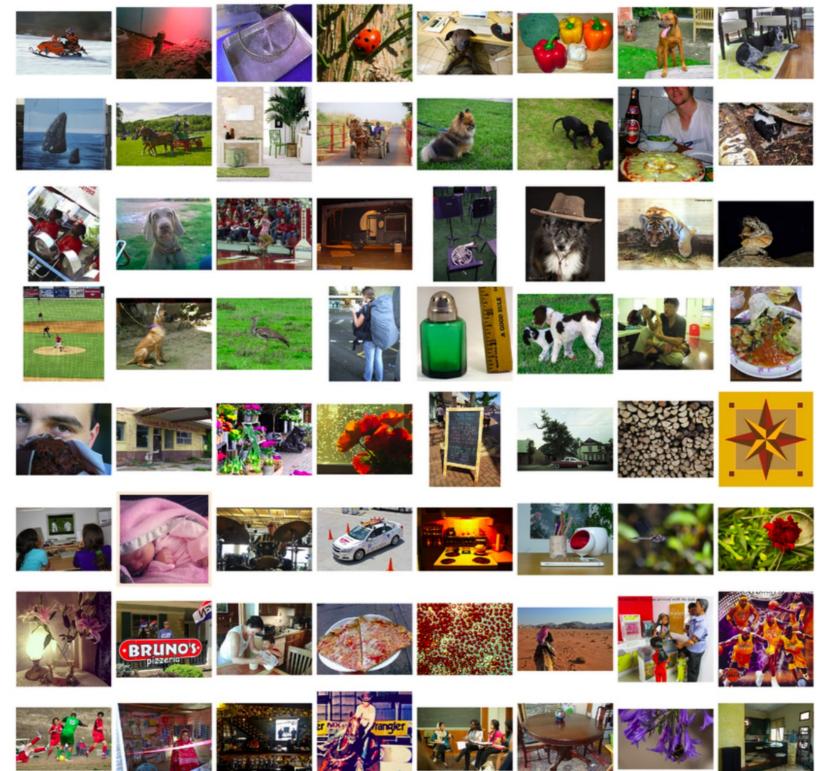


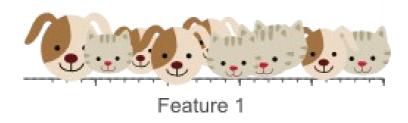


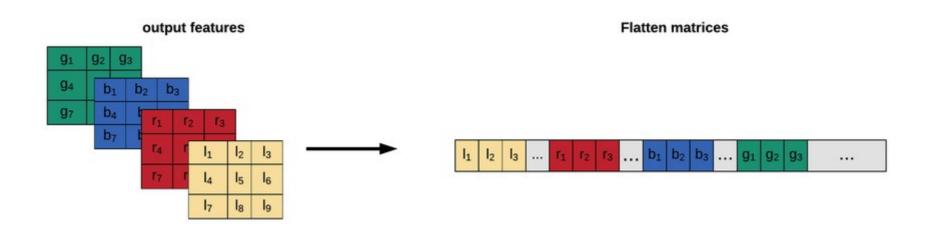
• Are all of these same, how to classify?



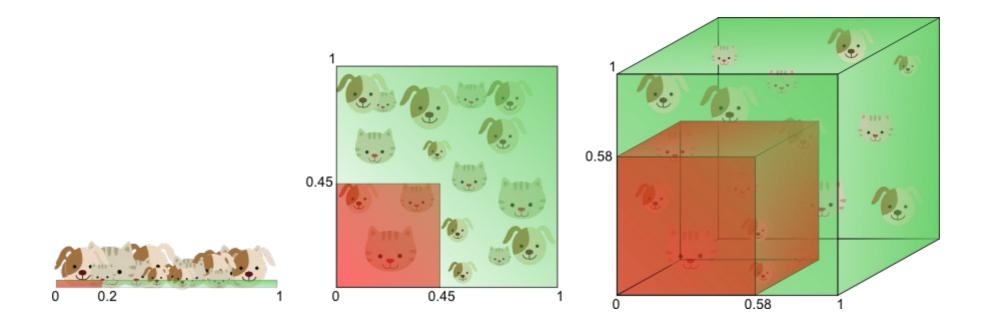
• Simple value for image measuring "catness"





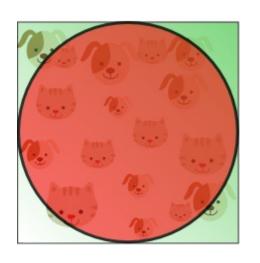


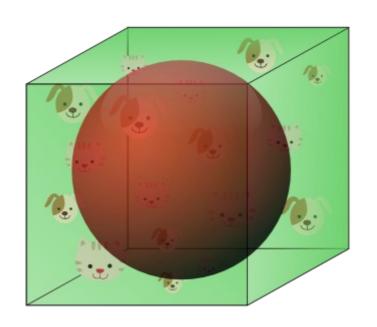
• Real Image > 128*128*3 = 49152 dimensional!

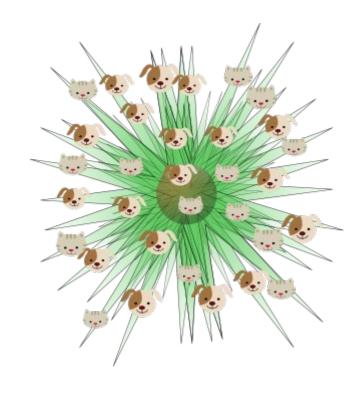


How many types of "*ness" to measure?

Which ones ?

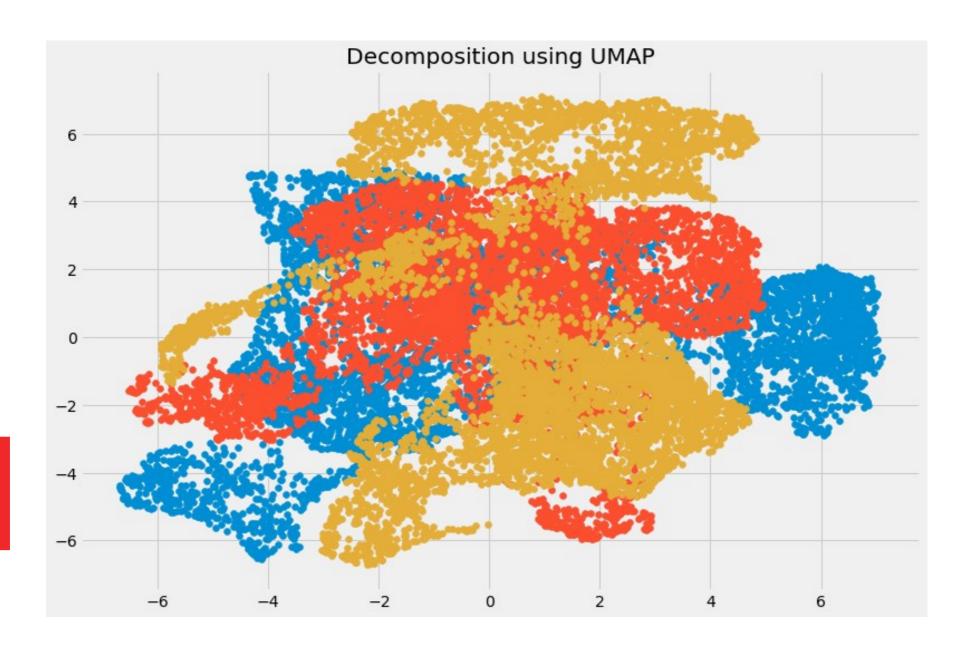




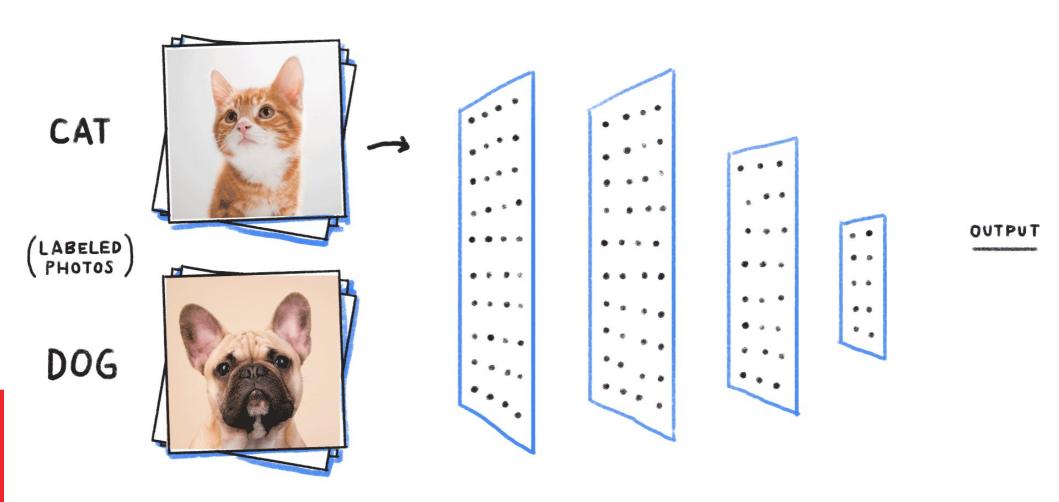


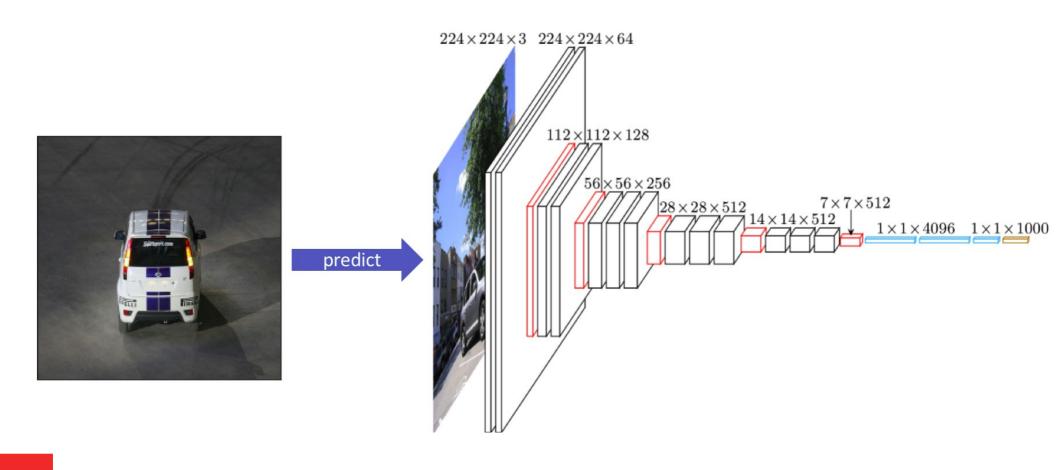
Curse of Dimensionality, High Dimensional Data,

 https://www.visiondummy.com/2014/04/curse-dimensionality-affectclassification/

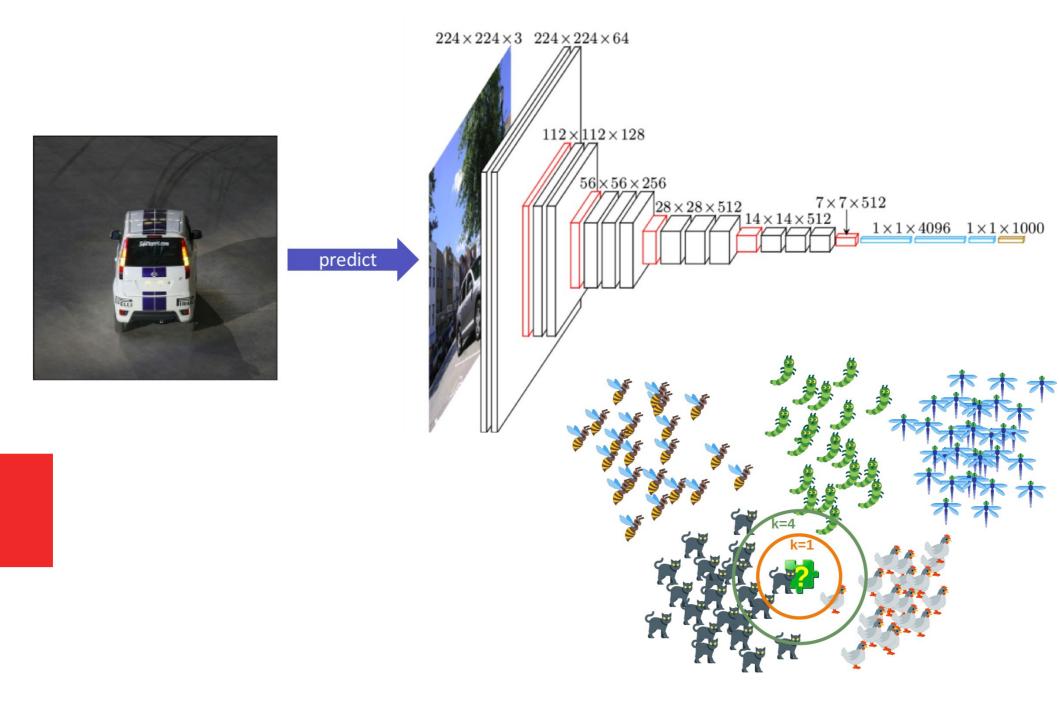


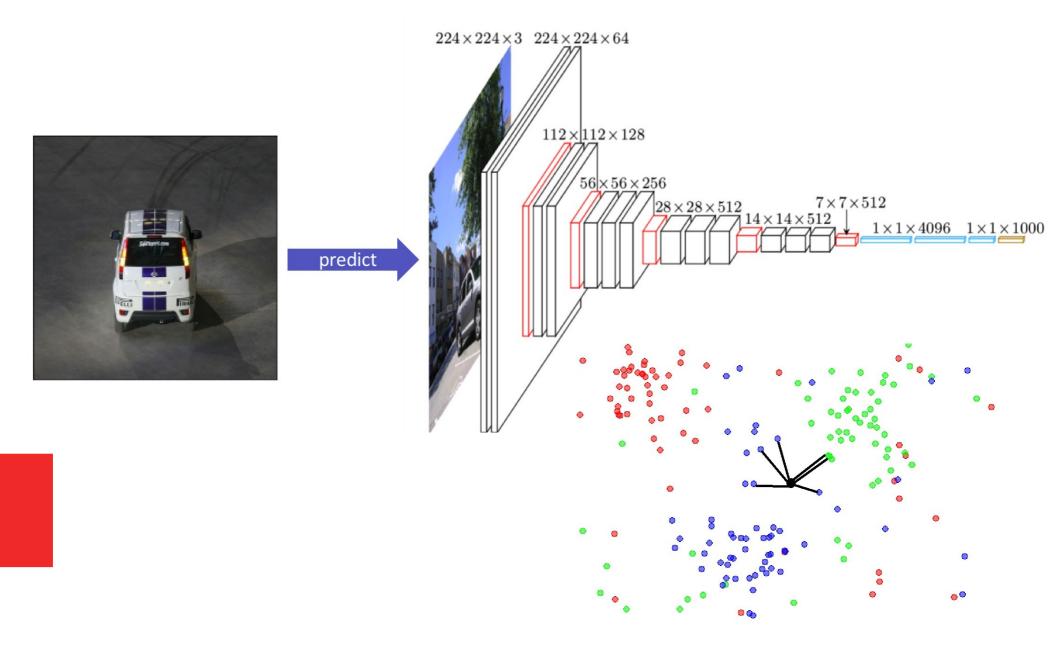
Extra Information

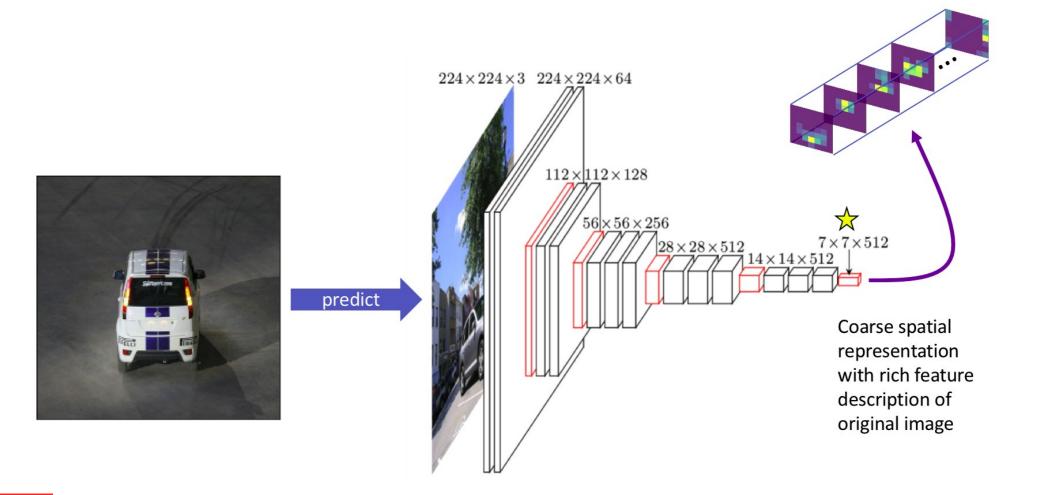


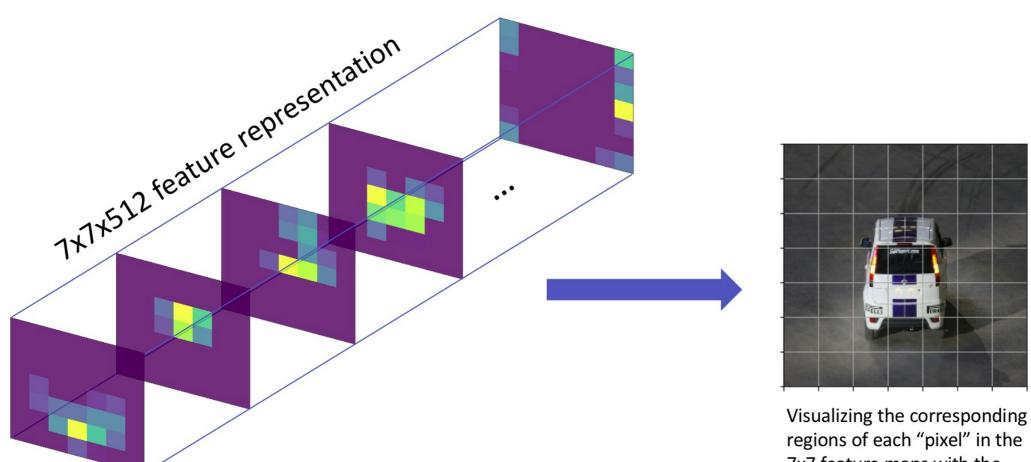


https://www.jeremyjordan.me/object-detection-one-stage/









regions of each "pixel" in the 7x7 feature maps with the original 224x224 image

• 512 images for one image, small but many

