**YOLO Reproduction-3**

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1. RDmap dataset structure

D:/Datasets/RD\_maps/

├─checks

├─images

├─labels

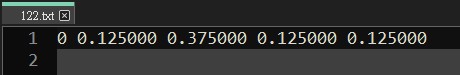
├─mats

├─mesh\_figures

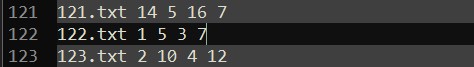
└─scaled\_colors



D:/Datasets/RD\_maps/labels/122.txt

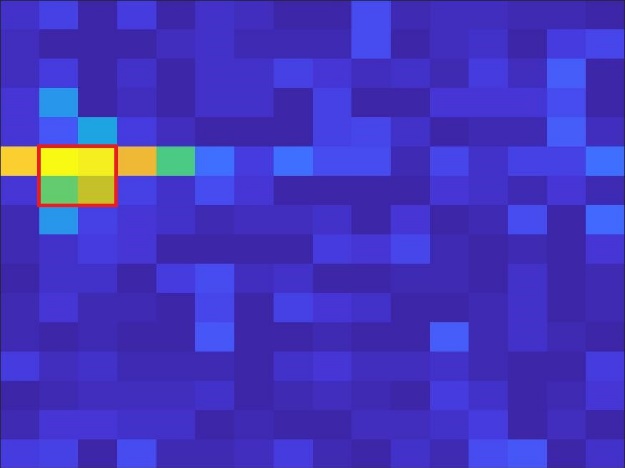
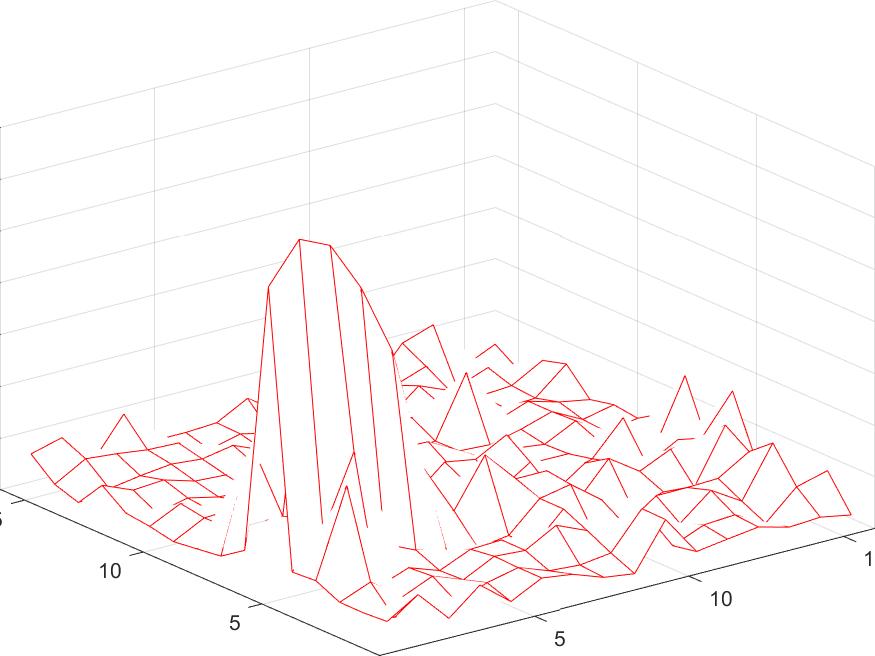


D:/Datasets/RD\_maps/labels/checks/ original\_coordinates.txt



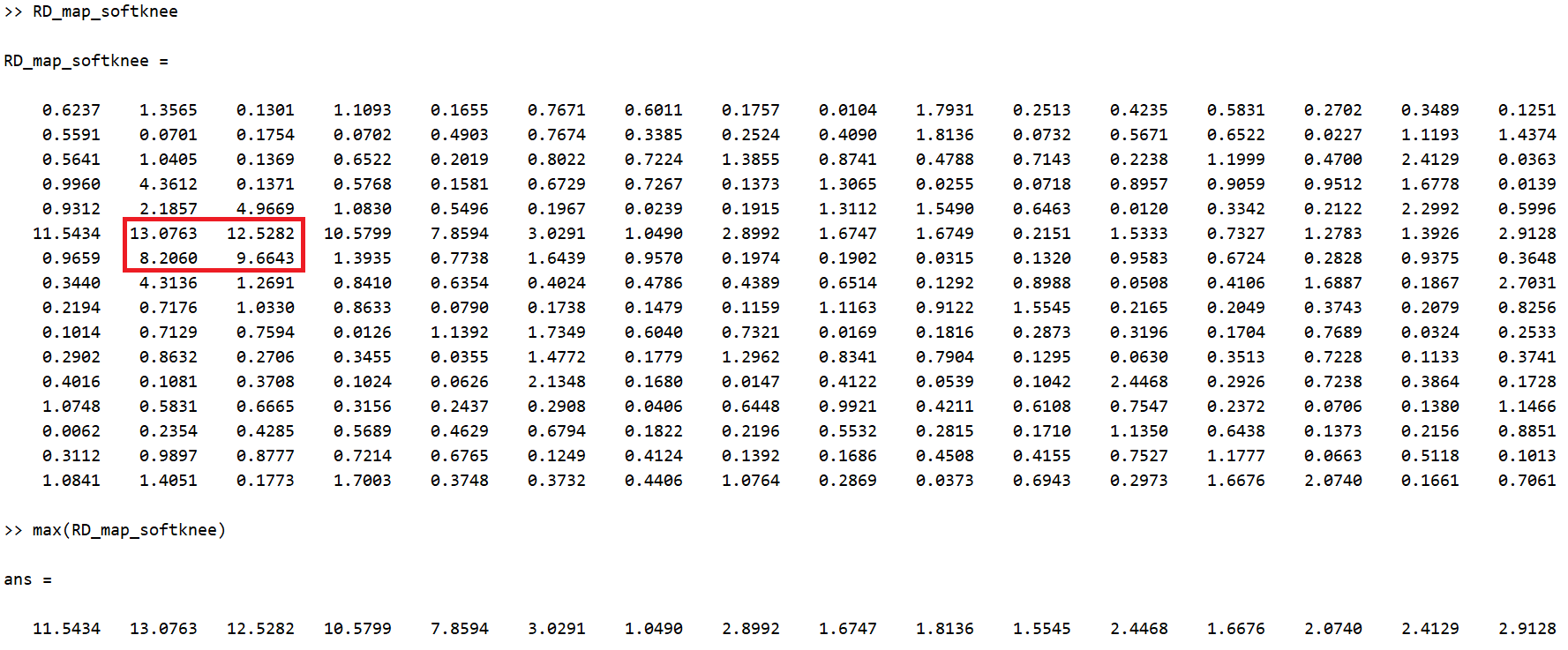
D:/Datasets/RD\_maps/scaled\_colors/122\_sc.jpg

D:/Datasets/RD\_maps/mesh\_figures/122\_mesh.jpg



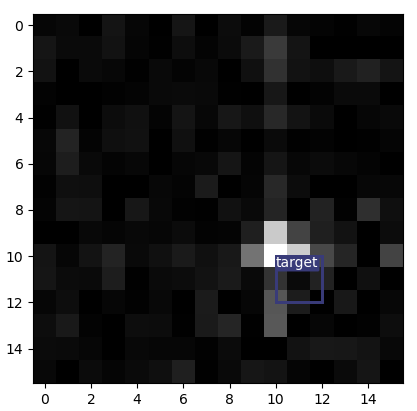
122\_sc.jpg 122\_mesh.jpg

D:/Datasets/RD\_maps/images/122.mat



1.1 Dataset problems

(1) Every Anchor box are with fixed size (w, h) = (2, 2)

(2) Have not figure how to fit .mat files in

(3) Will rescaling dramatically change features? rescale every .mat file to [0, 255] grayscale and store them as 16-by-16 .jpg files, for convenient

(4) In grayscale, the labels seems not correct?

2. YOLOv3 problem

(1) currently untrainable (

(2) the proposed YOLO network seems not the same as the one described in the source code

(3) the output channel (output dimension) of scale prediction seems not [2, 4, 8] but [13, 26, 52]

(4) hyper-parameters like padding, stride size, anchors etc., are not the same as original Darknet, but unspecified?  
(5) my current hyper-parameter settings

