

Street View House Numbers (svhn)



32x32 pixels
10 classes
~70000 train
~25000 test

1 →

20 →

61 →

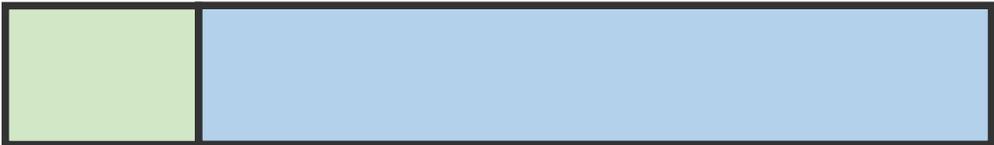
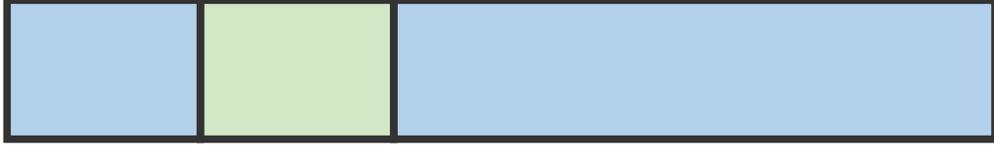
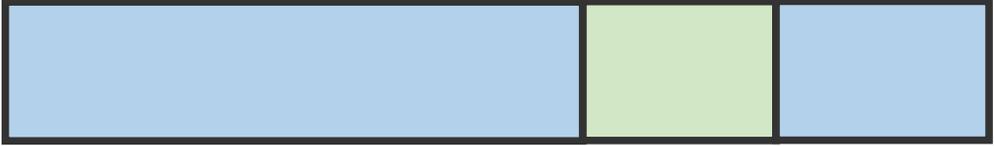
7 →



Train: сохранить цифровые представления каждой картинки в массив

$$L_1 = \sum_i |v_i - u_i| \quad L_2 = \sqrt{\sum_i (v_i - u_i)^2}$$

Predict: вычислить по формуле расстояние до всех точек и найти ближайшего соседа



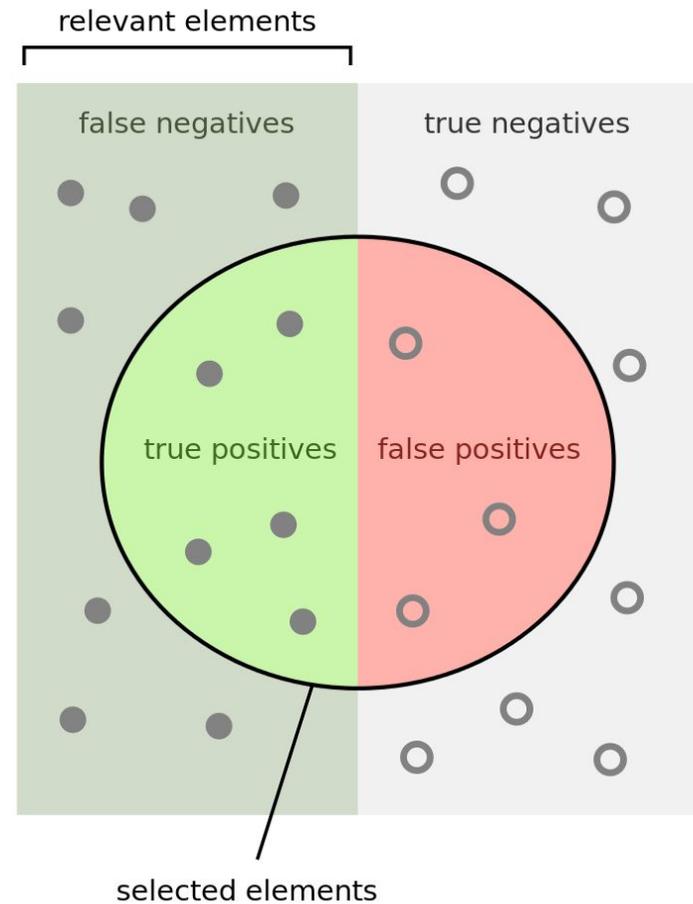


$$\text{Accuracy} = \frac{\text{correct}}{\text{total}}$$

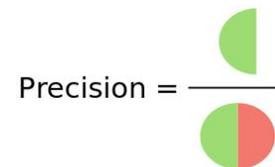
$$\text{Precision} = \frac{TP}{TP + FP}$$

$$\text{Recall} = \frac{TP}{TP + FN}$$

$$F1 = \frac{2}{\frac{1}{\text{precision}} + \frac{1}{\text{recall}}} = \frac{2 * (\text{precision} * \text{recall})}{\text{precision} + \text{recall}}$$

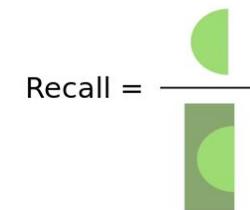


How many selected items are relevant?



Precision =

How many relevant items are selected?



Recall =