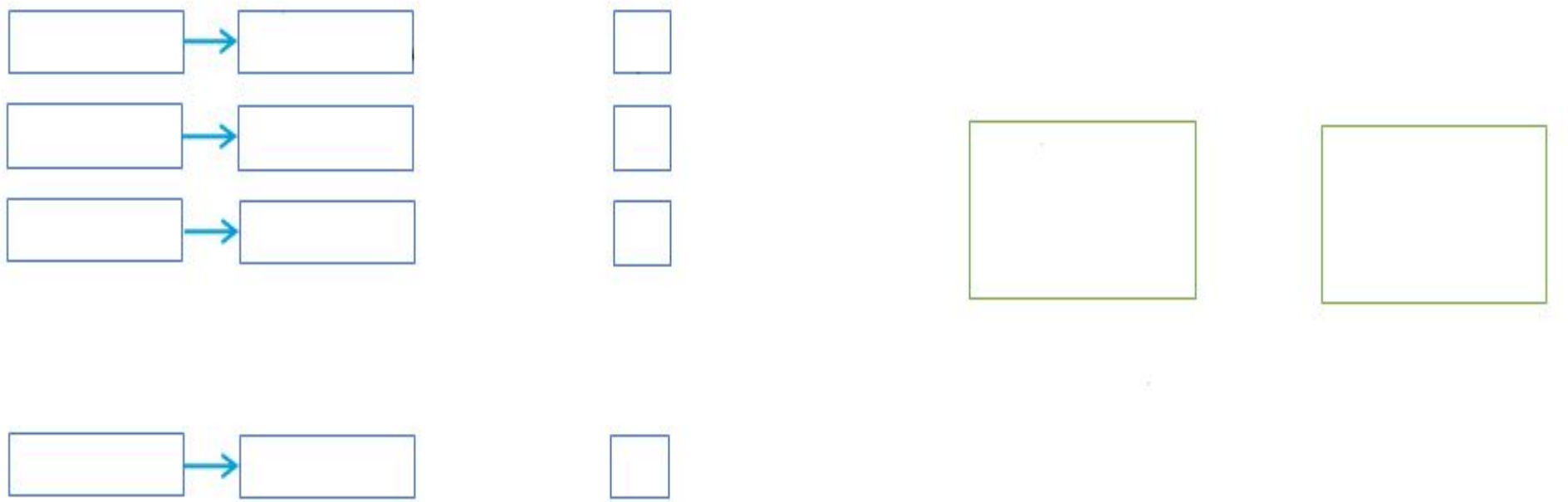
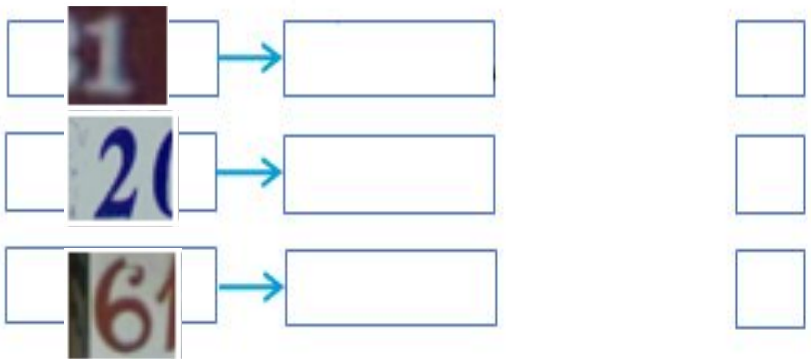


Street View House Numbers (svhn)

32x32 pixels
10 classes
~70000 train
~25000 test

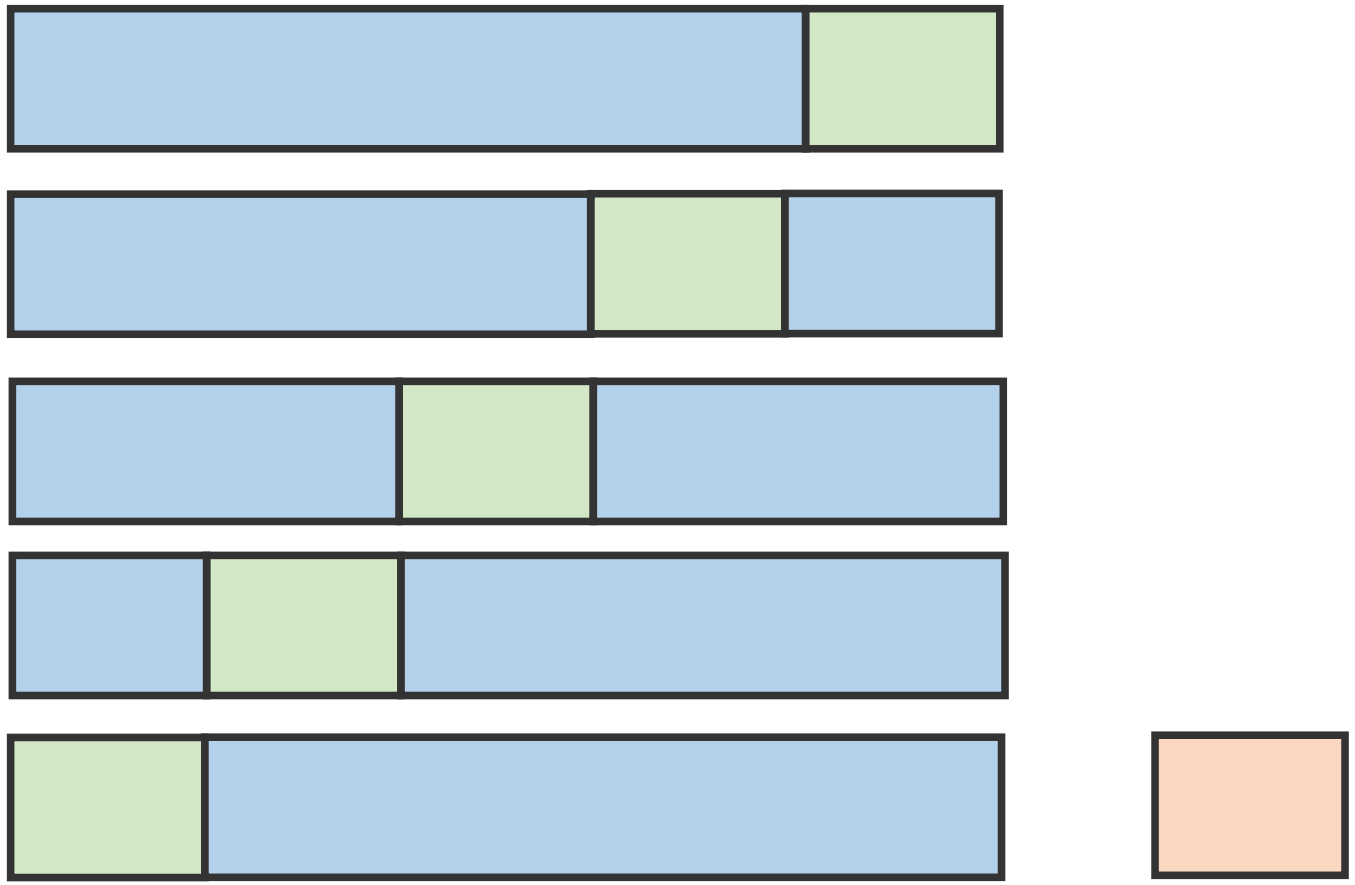
http://ufldl.stanford.edu/housenumbers/



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

Train: сохранить цифровые представления каждой картинки в массив

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

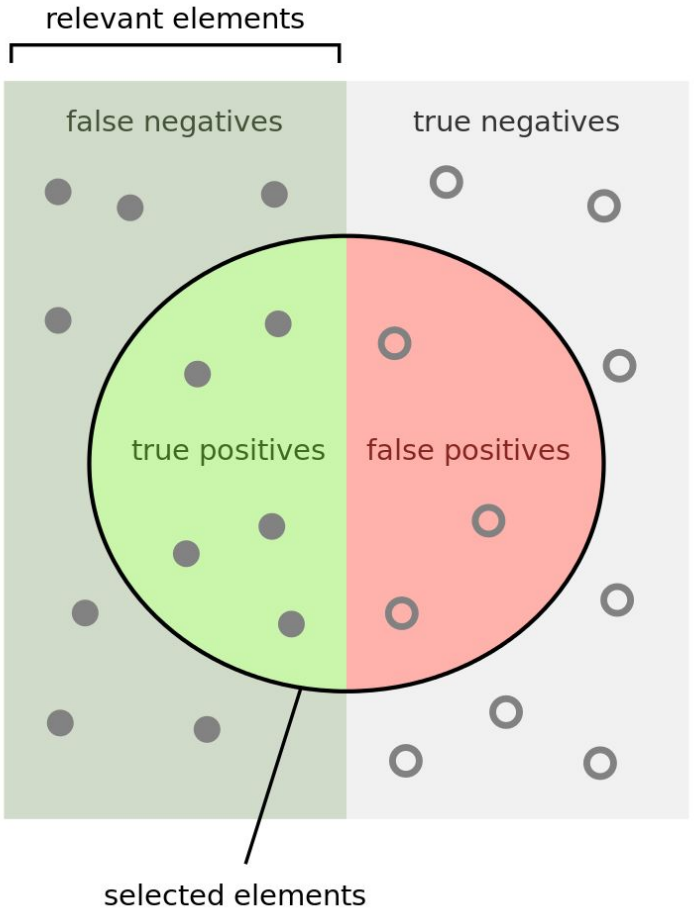


$$Accuracy = \frac{correct}{total}$$

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

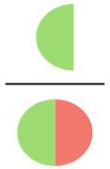
$$Recall = \frac{TP}{TP + FN}$$

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



How many selected items are relevant?

Precision =



How many relevant items are selected?

Recall =