

Classification

SUPERVISED LEARNING

The background of the slide is dark gray with several thin, light blue wavy lines that flow from the bottom left towards the top right, creating a sense of movement and depth.

IRON
HACK

A series of approximately 15 horizontal, wavy lines in a light blue/cyan color, creating a layered, wave-like effect across the upper half of the slide.

Key concepts

FEATURES

Features are the data we use to train our model and predict with.

LABELS

Labels are the ground truth of the train set with which our model will learn.

METRICS

In Classification we use different metrics than in Regression.



Classification Metrics



ACCURACY



PRECISION



RECALL



FSCORE



CONFUSION MATRIX

Have I seen this before?

High
Precision



Low
Precision

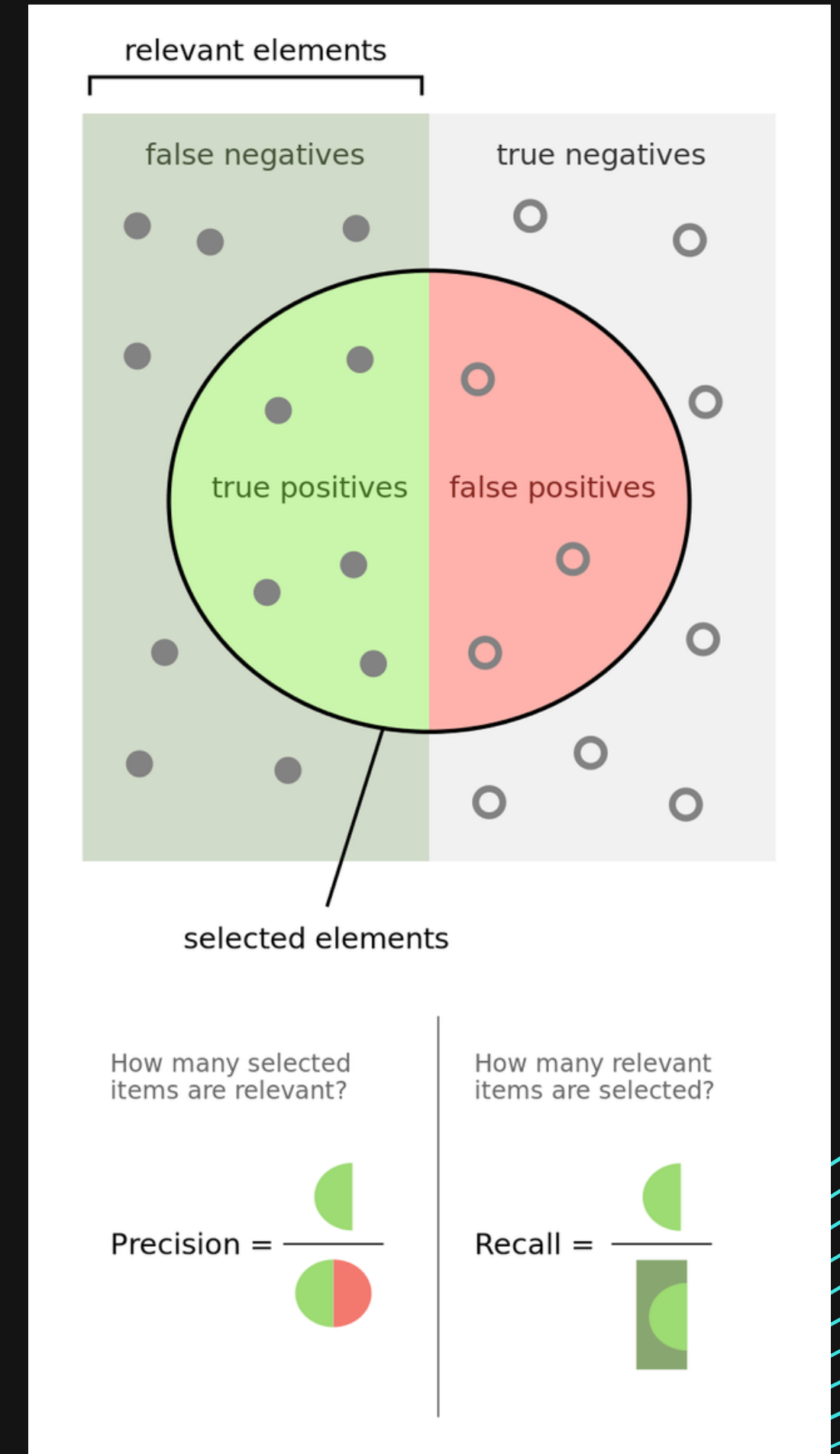


High
Accuracy

Low
Accuracy

Precision, Recall and F-Score

$$F_1 = 2 \cdot \frac{\text{precision} \cdot \text{recall}}{\text{precision} + \text{recall}} = \frac{TP}{TP + \frac{1}{2}(FP + FN)}$$



KNN

K Nearest Neighbors

