- For many real world applications, error or accuracy is not great measure to try to understand whether classifier is doing the right thing for you.

- Precision: Fraction of positive predictions that are actually positive.
- Recall: Fraction of positive data predicted to be positive.

- True positive: The truth is positive and the predict is positive.
True negative: The true label is -1, the prediction is -1.
False negative: A truly positive review, but the predicted is negative.
False positive: The true label is -1, but the prediction is +1.

- Precision – Formula

$$Precision = \frac{\# \ true \ positives}{\# \ true \ positives + \# \ false \ positives}$$

- Recall – Formula

$$Recall = \frac{\# \ true \ positives}{\# \ true \ positives + \# \ false \ negatives}$$