The true risk of a kNN algorithm

- \bullet Always decreases when k grows.
- **b** Is lower bounded by ϵ_B .
- Tends towards 0 when the number of training examples tends to infinity.

The optimal predicted label y^* of the Bayesian model is given by:

- $arg \max_c p(x|y_c).p(x).$
- arg max_c $p(x|y_c).p(y_c).$

What is the best speed-up procedure of the NN calculation among the following three:

- The triangle inequality of the distance function.
- The growth of the number of training examples.
- The deletion of the outliers.

The decision boundaries around a training example x of the 1-nearest neighbor classifier are given by

- The boundaries of the Voronoi cell of x.
- **1** The boundaries of Delaunay triangle of x.
- \bullet The boundaries of the sphere centered at x.

What is the definition of the Precision P?

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

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

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

$$P = \frac{TN}{TP + TN}$$

What is the value of the *F*-measure of a classifier which would always predict the negative class?

- F = 1
- F = 0
- F = -1

What does the Recall mean?

- The part of the positive examples that are missed by the classifier.
- The part of the negative examples that are retrieved by the classifier.
- The part of the examples that are predicted as positive and that are actual positives.