

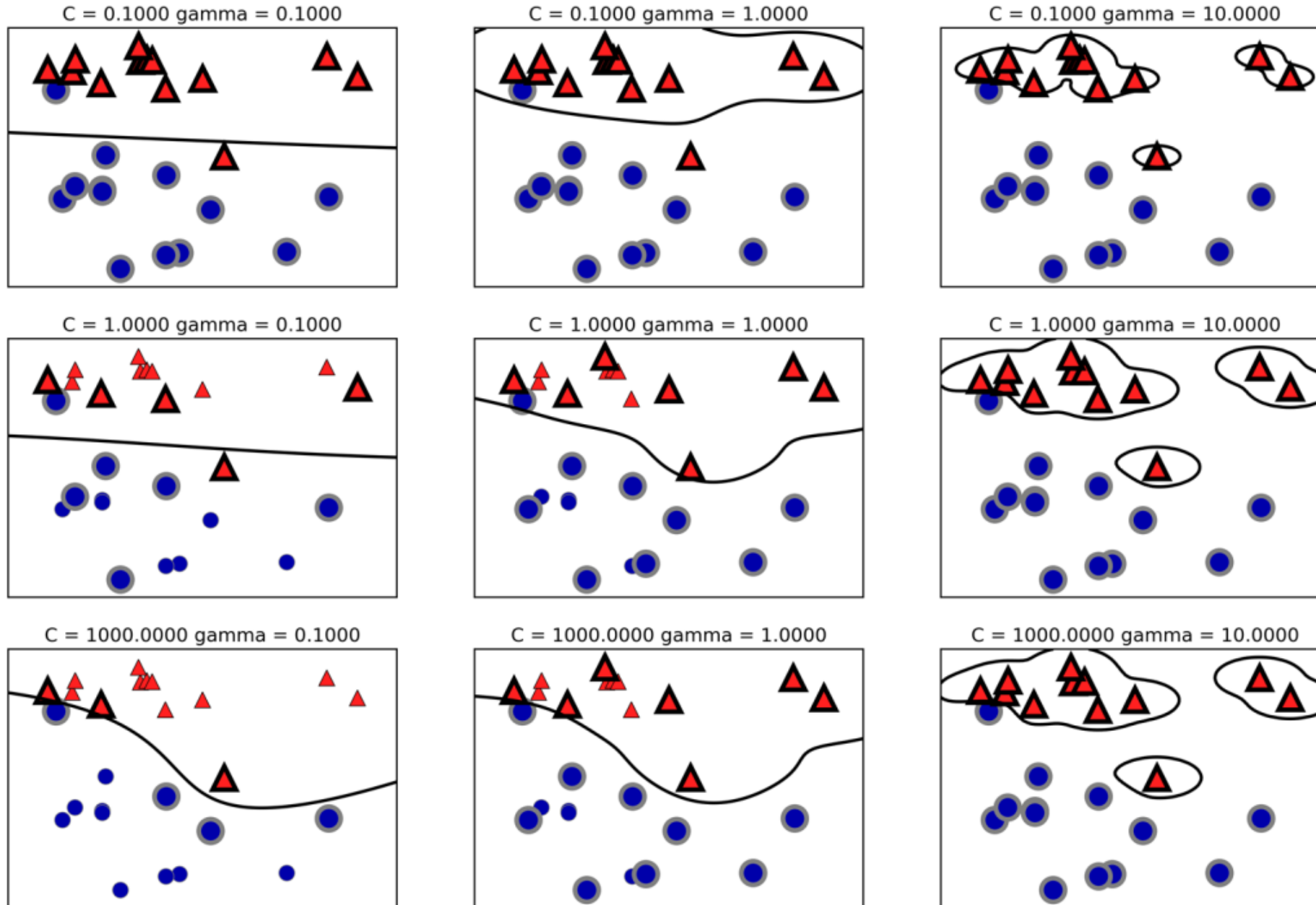
SVM – Final Remarks

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RBF Kernel Parameters

- **C** controls tradeoff between smooth decision boundary and classifying training points correctly.
- **Gamma** Controls how much importance to give to near by points.

The effect of C and Gamma Hyperparameters



SVM Final Remarks

- **Strengths:**

- SVMs are good when you have not idea about data distribution
- Works well on structured as well as unstructured data (text / images)
- The kernel trick is real strength of SVM
- It scales relatively well to high dimensional data.

- **Weaknesses:**

- Choosing a “good” kernel function is not easy and computationally expensive.
- Long training time for large datasets.