

Using An SVM

When using SVM, need to specify:

- Choice of parameter C
- Choice of kernel (similarity function)
 - ↳ linear, Gaussian (RBF) - need to choose σ^2 , polynomial

Multi-class classification

one-vs.-all (ova) 적용

Logistic regression vs. SVMs

n = no. of features

m = no. of training examples

- If $n \geq m$: Use Logistic regression (ex. 1-2차)
or SVM w/o a kernel (linear kernel)
- If n is small, m is intermediate : Use SVM with RBF
($n=1-1000, m=10-10,000$)
- If n is small, m is large : Create/add more features,
($n=1-1000, m=50,000+$) then use logistic regression or SVM w/o kernel
- Neural network likely to work well for most,
BUT may be slower to train.