

slack

$$|y - w^T x| \leq \epsilon + |\xi_i|$$

Kernel Trick

$\phi(x)$ — Transform from lower dim. to higher dim.
(kernel)

① Polynomial

$$\phi(x) = x^2$$

② RBF (Radial Basis fn) / Gaussian kernel

$$\phi(x) = e^{-\gamma \|x - y\|^d}$$

