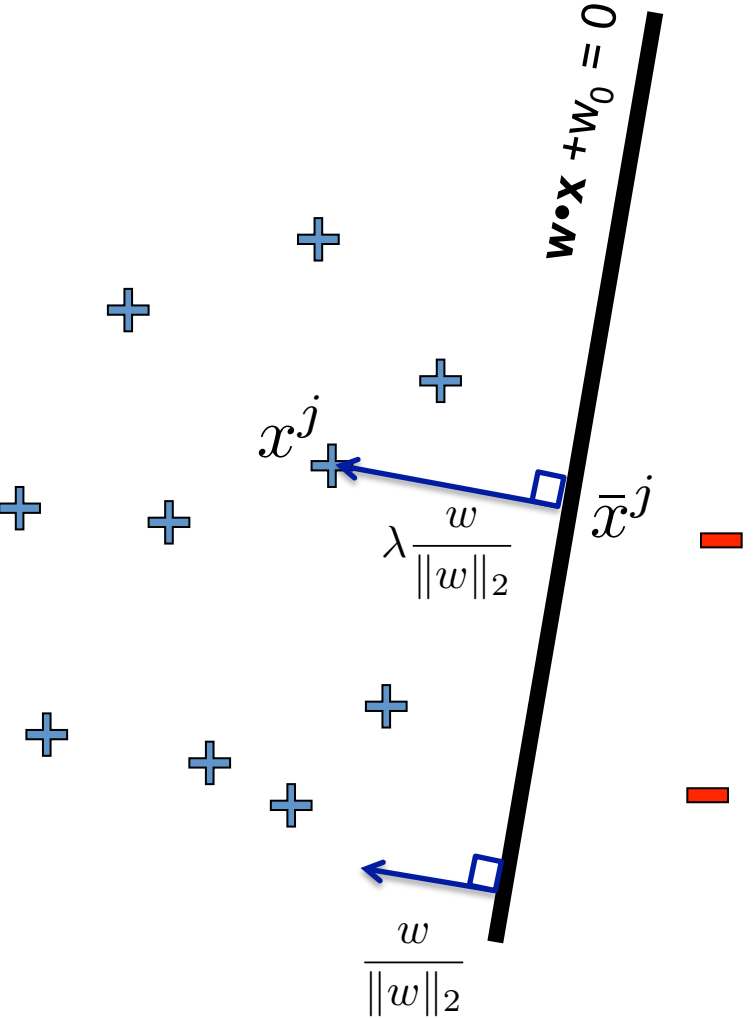

$$x^j = \bar{x}^j + \lambda \frac{w}{\|w\|_2}$$

Key Terms

$\bar{x}^j$ -- projection of x^j onto w

$\frac{w}{\|w\|_2}$ -- unit vector normal to w

$$\|w\|_2 = \sqrt{\sum_i w_i^2}$$