$$\frac{loss}{\varphi w} = x^{T} (y - xw) = 0$$

 $w^{\hat{}} = (x^T x)^{-1} (x^T v)$

 $loss = \sum (y_{i-} x^{T} w) = (y - xw)^{T} (y - xw)$

Locally weighted linear regression

 $w_{(i,i)} = \exp\left(\frac{|x^i - x|}{-2k^2}\right)$

 $\mathbf{w}^{\hat{}} = (x^T w x)^{-1} (x^T w v)$