Data

$$\{x^{(i)}, y^{(i)}\}_{i=1}^{N} \rightarrow$$

Learner

Objective

$$\mathcal{L}(f_\theta(x), y) = (f_\theta(x) - y)^2$$

Hypothesis space

$$f_\theta(x) = \sum_{k=1}^{K} \theta_k \phi_k(x)$$

Optimizer

$$\theta^* = (\mathbf{\Phi}^T \mathbf{\Phi})^{-1} \mathbf{\Phi}^T \mathbf{y}$$

$$\rightarrow f$$