

The key property of this model is that it is a linear function of the parameters !

$$y(\mathbf{x}, \mathbf{w}) = w_0 + \sum_{j=1}^{M-1} w_j x_j \quad \text{Linear in } \mathbf{x} \text{ and } \mathbf{w}$$

$$y(\mathbf{x}, \mathbf{w}) = w_0 + \sum_{j=1}^{M-1} w_j \phi_j(\mathbf{x}) \quad \text{Linear in } \mathbf{w} \text{ and } \phi(\mathbf{x})$$

The key property of this model is that it is a linear function of the parameters !

$$y(\mathbf{x}, \mathbf{w}) = w_0 + \sum_{j=1}^{M-1} w_j x_j \quad \text{Linear in } \mathbf{x} \text{ and } \mathbf{w}$$

$$y(\mathbf{x}, \mathbf{w}) = w_0 + \sum_{j=1}^{M-1} w_j \phi_j(\mathbf{x}) \quad \text{Linear in } \mathbf{w} \text{ and } \phi(\mathbf{x})$$

Basis functions

