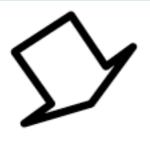
Hypotheses \mathcal{H}

Labeled data

$$h: \mathcal{X} \mapsto \mathcal{Y}$$

 $(\mathbf{x}^{(i)}, \mathbf{y}^{(i)})$





Learning

find $h \in \mathcal{H}$

s.t. $\mathbf{y}^{(i)} \approx h(\mathbf{x}^{(i)})$



New data

Prediction

y = h(x)



 \mathbf{X}