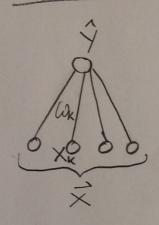


Blackboard 1.3:

simple perceptron



$$\hat{y} = g\left(\frac{Z}{k}\omega_{k}\times_{k}\right)$$

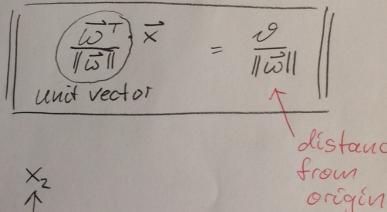
$$= \begin{cases}
1 & \text{if } Z \cdot \omega_{k} \times_{k} > 0 \\
0 & \text{if } Z \cdot \omega_{k} \times_{k} < 0
\end{cases}$$

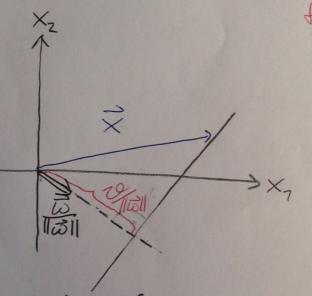
conside critical case

Schalar product $\vec{\omega}^{\intercal} \cdot \vec{x} = 0$ vector notation:

$$\vec{\omega}^{\intercal} \cdot \vec{x} = \vec{v}$$

equation of hyperplane



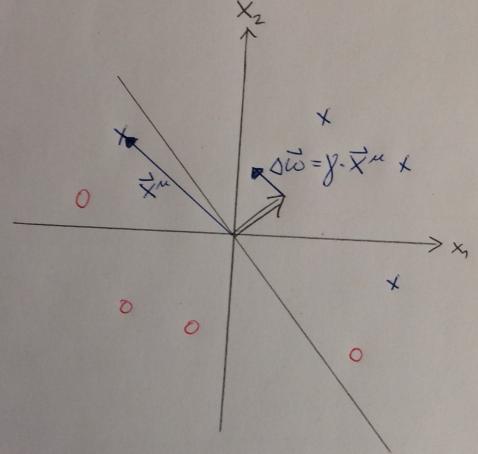


linear distinuinant function

Blackboard 1.4: geometry of

perceptron algo

X2



separating hyperplan turns!