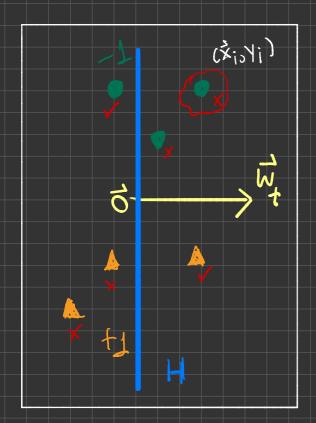


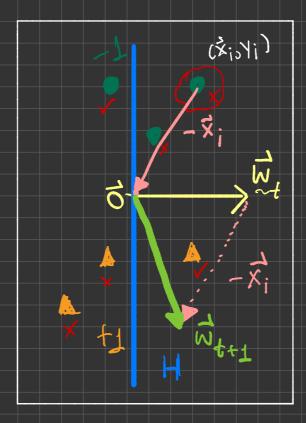
## The algorithm of the Perceptron: $\vec{w} \leftarrow \vec{o}$ while true: m < 0 3. for (xi, yi) & D: 4. if $(g_i)$ (sign $(\vec{\mathbf{w}}^T\vec{\mathbf{x}})) < 0$ : Il if (xi, yi) is méclassified 5. 11 update counter $m \leftarrow m + 1$ 6-// Flx W by using information $\vec{w} \leftarrow \vec{w} + \vec{v}_i \vec{x}_i$ 7 From (xi, yi) if m=0: 8

break

9



At some iteration t



During iteration



At iteration  $t \in \mathcal{X}_i$