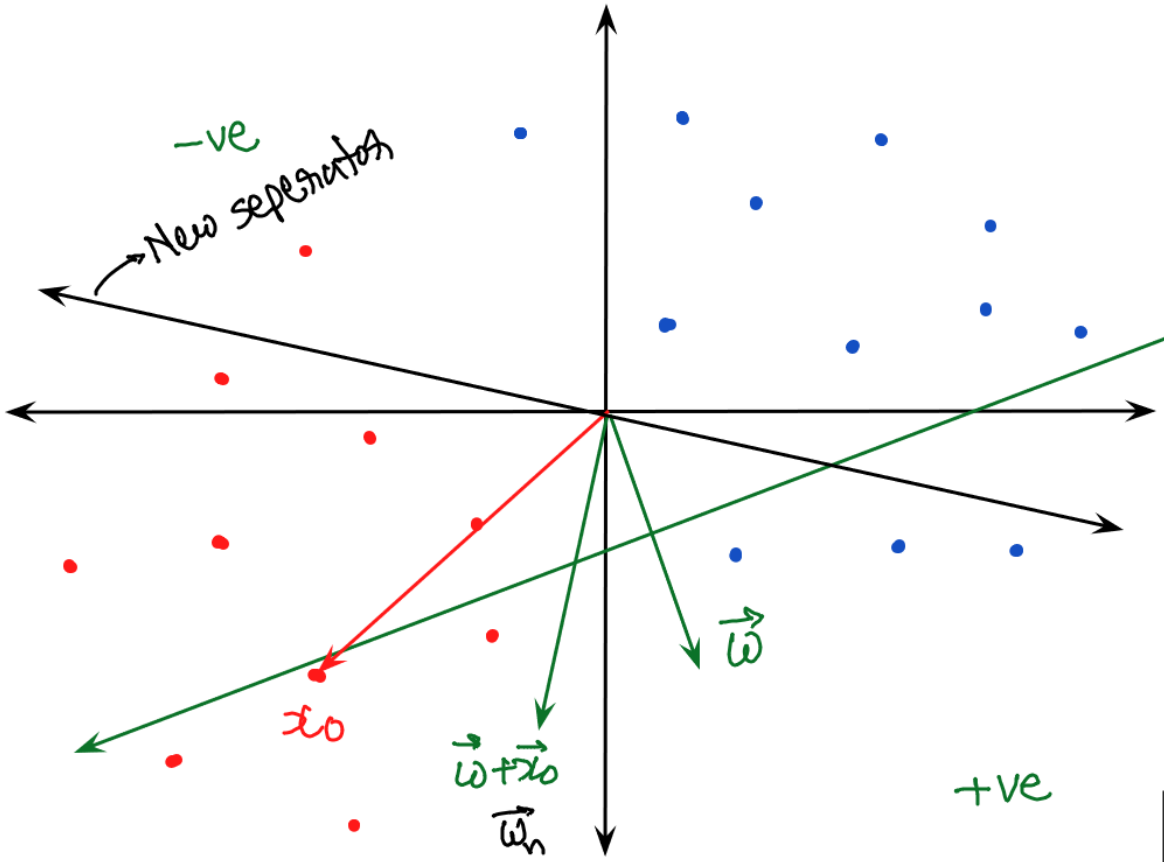
✡ Perceptron Algorithm

Suppose the label of all the blue dots is +1 & the label of all the red dots is −1



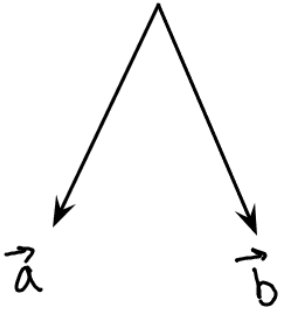
→ Now let's take any misclassified point $\vec{x_0}$

→ Find $\vec{w}+\vec{x_0}$ & call it new $\vec{w}$.

→ Draw a new seperator perpendicular to this new $\vec{w}$.

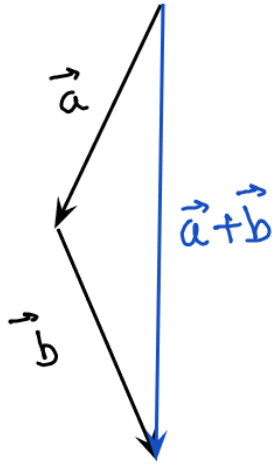
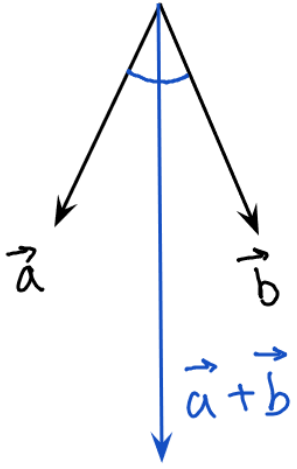
→ Keep repeating these steps until you get desired accuracy.

Another approach for vector addition. (on next page)



Conventional vector addition:

$\vec{a} + \vec{b} =$



New approach to vector addition: