

Perceptron Geometric Interpretation

What is the geometric interpretation of the perceptron model

1. b can now take real values, and slope can change by varying w
2. $x_1 + x_2 - b = 0$
3. $w_1x_1 + w_2x_2 - b = 0$
4. $x_2 = -(w_1/w_2)x_1 + (b/w_2)$
5. This results in more freedom than MP Neuron.
6. However, it only works with linearly separable data