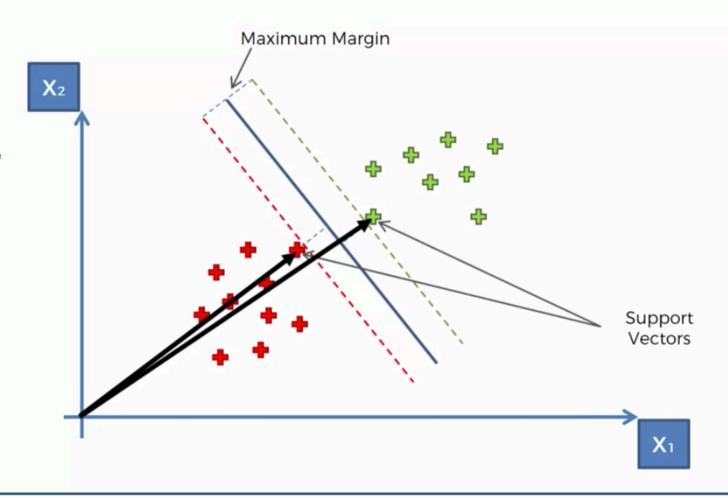
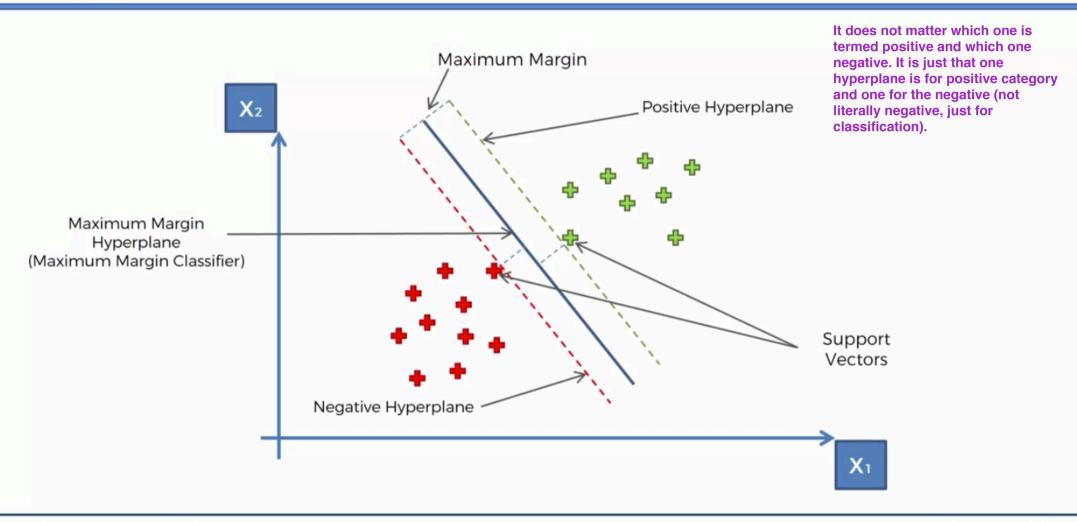
## **Support Vectors**

Data points are called vectors because in higher dimensions they may not be representable in the form of a graph plot. But they may be easily representable in the form of multivariate vectors.

Support Vectors mean that the model can still learn to classify even when the other training vectors are not available.



## Hyperplanes

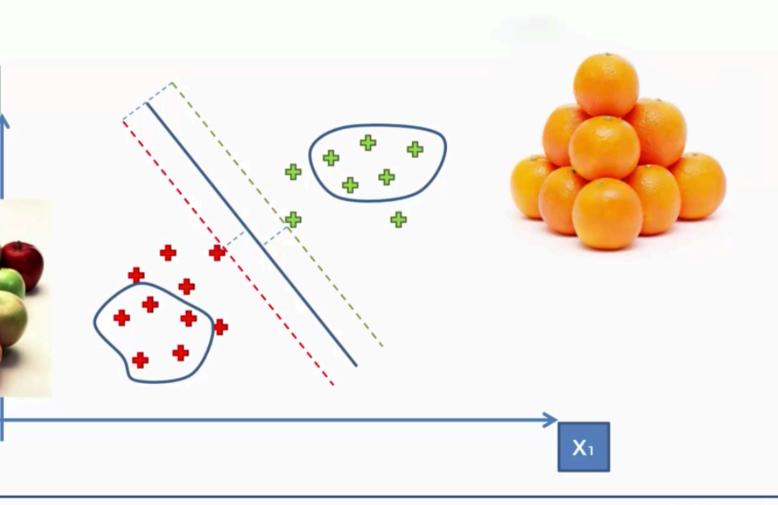


## What's So Special About SVMs?

How traditional machine learning algorithms work?

They use data to learn which is more likely to be like other items in the same category. Example, apples which are more like other apples and oranges which are more like other oranges.

 $X_2$ 



## What's So Special About SVMs?

