# Machine Learning(2016.10.31)

* Example on graphic learning
  + We have Y from the data and Y can go down to many M Xs.
  + Therefore, the probability will be P(Y)\*P(X\_m|Y)
  + Fitting data on probability 🡪 we will use MAXIMUM LIKELIHOOD on model parameter
    - P(Y) \* \prodP(X\_m,y) = P(Y,X)
    - P(Y|X\_bar) is proportional to P(Y) \* \prodP(X\_m|Y)
  + Graphical model name: Naïve Bayes