## Homework4 - ROC curves

- Create a function that generate a Gaussian distribution of 1000 random values between 1 and 10, and a STD less than 4 . Plot two such distributions with about $30 \%$ overlap. Give the value of d'.
- Write a function that takes a decision threshold (between 0 and 10) and computes the fraction of false alarms and hits.
- Plot the ROC curve, and quantify its departure from the diagonal.

