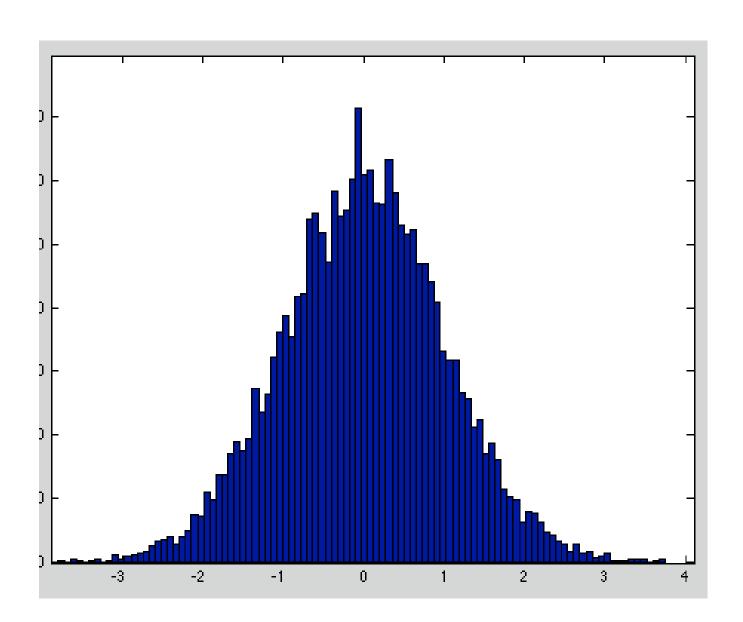
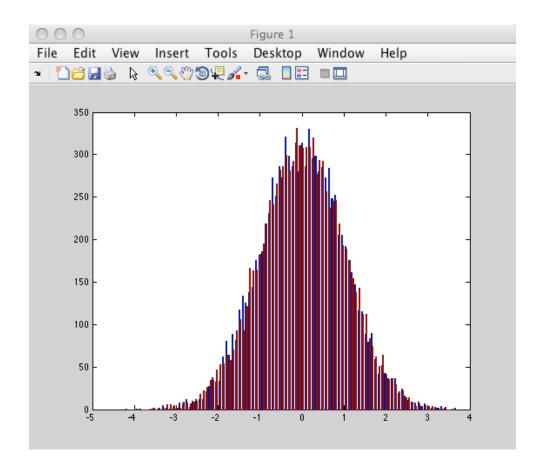
Modeling And Identifying Neurosystems

Lecture 2: Probability and Likelihood

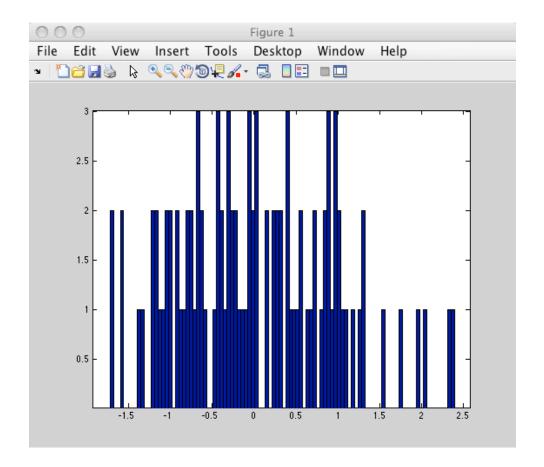


Olivia Tong



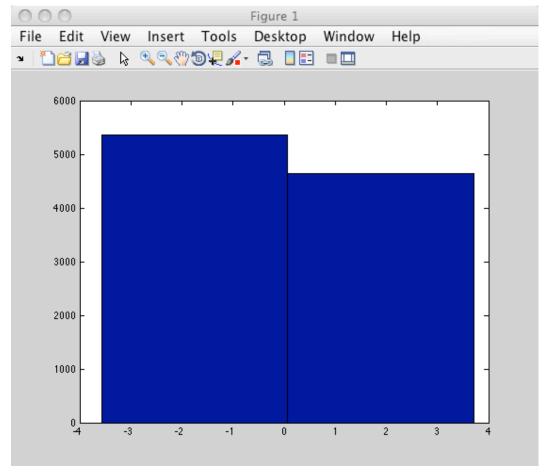
- A = randn(10000,2)
- hist(A,100)

two sets of bars,
randomly generated
2 columns of 10000
numbers



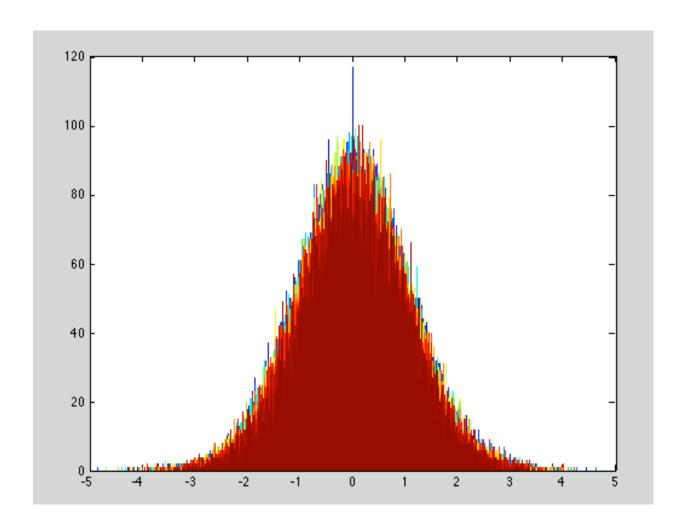
- A = randn(100,1)
- hist(A,100)

fewer values, only
100 random values
generated

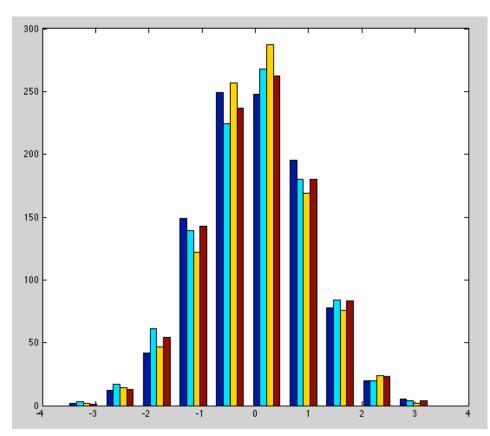


- A = randn(10000,1)
- hist(A,2)

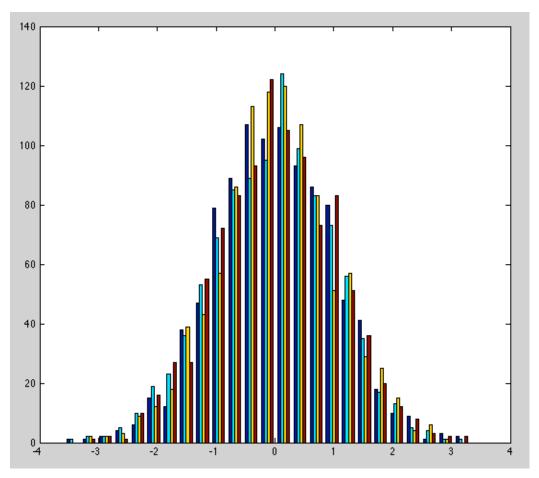
histogram chose 2values from the10000 randomlygenerated numbers



- Commands used: A = randn(10000,50); hist(A,500)
- A appears to have been set to a 2d array with 10000 rows and 50 columns, with numbers randomly assigned on what appears to be a normal distribution. The histogram was broken into 500 segments as opposed to the 100 in the assignment. (so there are fewer at each point/ each point covers a small numerical value.) As each column is represented by a distinct color on the histogram it has 50 colors. (The histogram is effectively a collection of 50 differently colored histograms overlayed on top of each other.



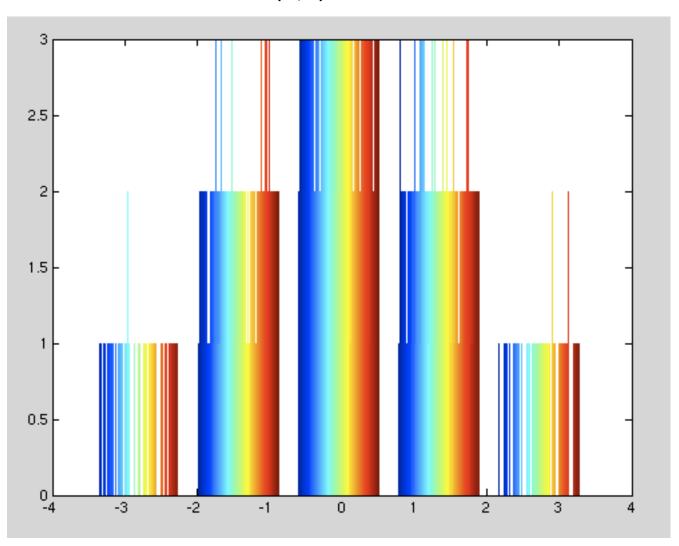
A=randn(1000,4); hist(A,10)



A=randn(1000,4); hist(A,25)

What else could you do?

What about: A = randn(3,1000); hist(A,5)



New tools for doing new things in MATLAB

Will be given at the top of the lab.