1 Matlab Help on hist

HIST  Histogram.
    N = HIST(Y) bins the elements of Y into 10 equally spaced containers
    and returns the number of elements in each container. If Y is a
    matrix, HIST works down the columns.

    N = HIST(Y,M), where M is a scalar, uses M bins.

    N = HIST(Y,X), where X is a vector, returns the distribution of Y
    among bins with centers specified by X. The first bin includes
    data between -inf and the first center and the last bin
    includes data between the last bin and inf. Note: Use HISTC if
    it is more natural to specify bin edges instead.

    [N,X] = HIST(...) also returns the position of the bin centers in X.

    HIST(...) without output arguments produces a histogram bar plot of
    the results. The bar edges on the first and last bins may extend to
    cover the min and max of the data unless a matrix of data is supplied.

    HIST(AX,...) plots into AX instead of GCA.

Class support for inputs Y, X:
    float: double, single

See also histc, mode.