

cs3560 HW3 Standard Deviation Report

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$s = \sqrt{\frac{1}{N-1} \sum_{i=1}^N (x_i - \bar{x})^2}$. This file is the equation for standard deviation of a data set where s is the variable for standard deviation, N is the number of values in the set, x_i is the i th element in the set, and \bar{x} is the average of the data set. Standard deviation is a quantity calculated to indicate the extent of deviation for a group as a whole.