Assessing normality

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In this document we will discuss methods to assess the normality of a distribution of data sample. We will discuss both graphical and hypothesis testing methods and then give guidlines when each should be use.

# Quantiles

Quantiles are cutpoints dividing a set of observations into equal sized groups. There are one fewer quantiles than the number of groups created. Thus quartiles are the 3 cut points that will divide a dataset into four equal-size groups. For exanple suppose we we have a set of 100 normal random variables where is a random variable from a normal distribution with mean and standard deviatiom