

Use This Template for Reports

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Report for Yale University

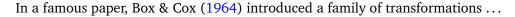
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1 Introduction



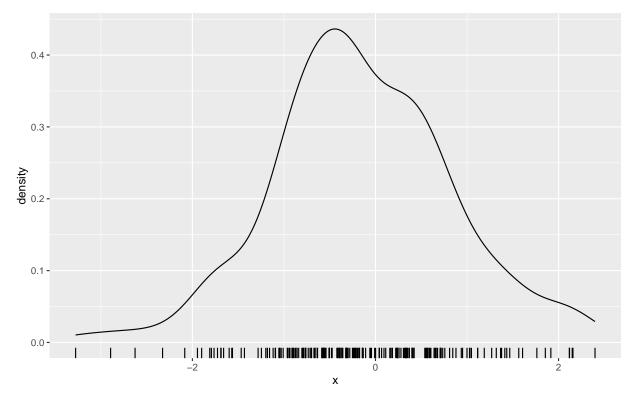


Figure 1: Simulated data from a N(0,1) distribution.

Figure 1 shows a kernel density estimate of simulated data from a N(0,1) distribution. The sample variance is given by

$$s^{2} = \frac{1}{n-1} \sum_{i=1}^{n} (x_{i} - \bar{x})^{2} = 0.98.$$
 (1)

Note that Equation 1 is an unbiased estimate of the variance, but it is not the maximum likelihood estimate (Rice 2007, p. 269).

References

Box, GEP & DR Cox (1964). An analysis of transformations. *Journal of the Royal Statistical Society, Series B* **26**(2), 211–252.

Rice, JA (2007). Mathematical Statistics and Data Analysis. 3rd edition. Duxbury.