

# Sample Title for Technical Report

**Ivo Wengraf**  
PhD, FRGS, FCIHT

**Tim Chatterton**  
PhD

A Technical Report for  
the RAC Foundation

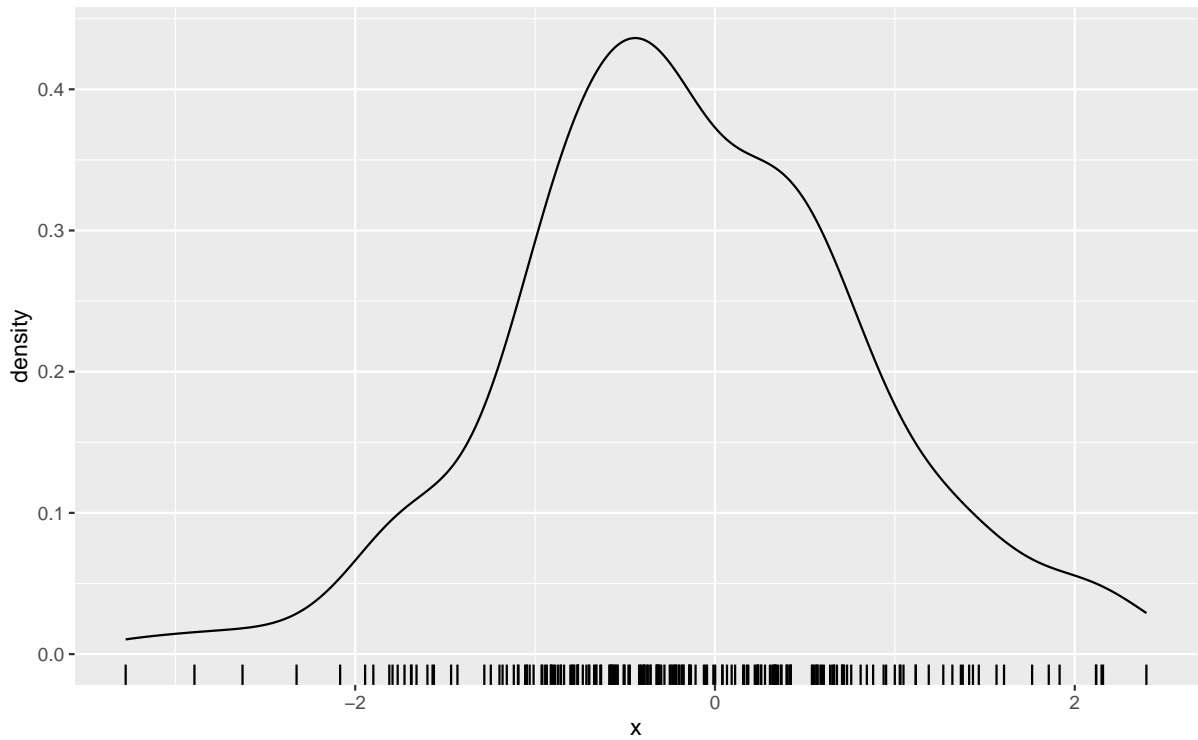
**8 January 2024**

## **Executive Summary**

A short executive summary – no more than 1 – 2 paras/half-a-page tops – stating what analysis the report covers and what that analysis reveals.

## 1 Introduction

In a famous paper, Box and Cox ([1964](#)) introduced a family of transformations ...



**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

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

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 and 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.