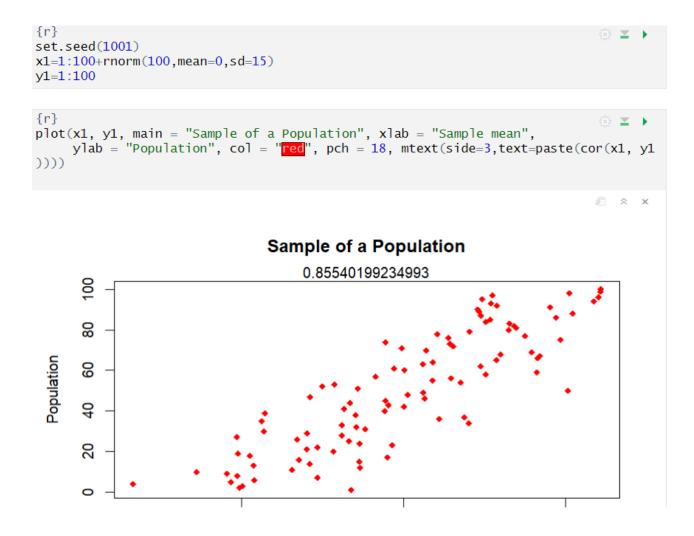
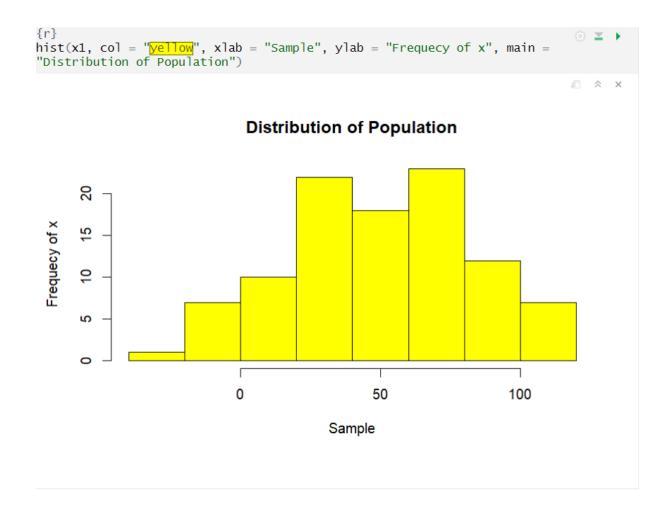
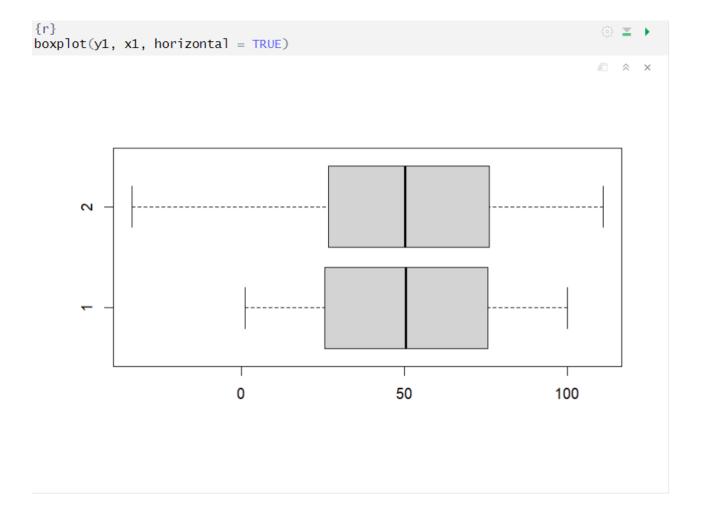
Extreme Plotting in R

A scatter plot was generated to analyze the relationship between vectors x1 and y1. The chart was titled using the main argument, while the x1ab and y1ab arguments defined the axis labels. Data points were formatted with red color and diamond shapes (pch = 18). The Pearson correlation coefficient, quantifying the linear dependence between the variables, was calculated and displayed on the plot using the mtext and paste functions.

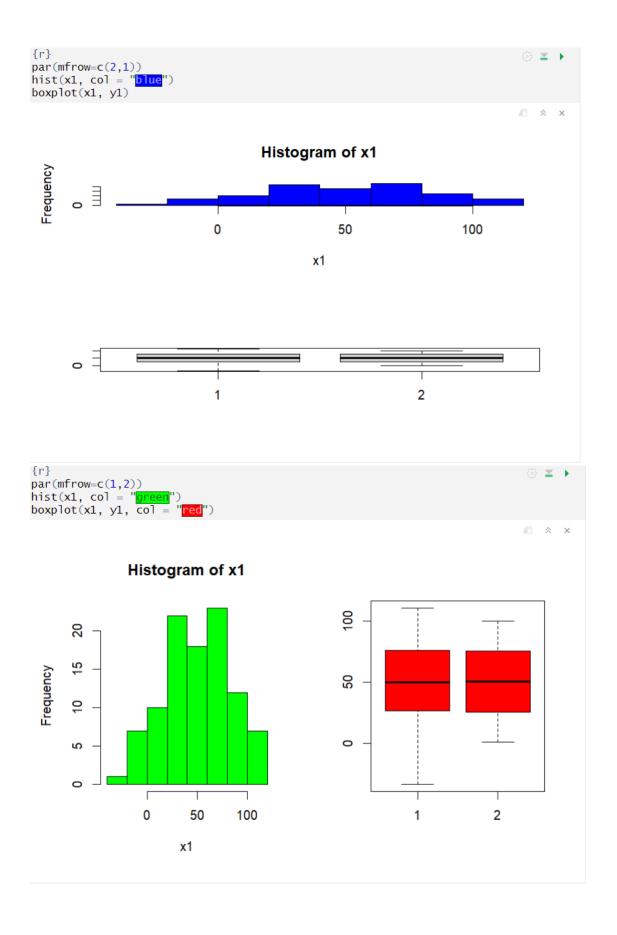


Using R's hist() function, I created a histogram to display the distribution of values in the $\times 1$ vector. The chart was formatted with yellow bars and includes a title for context, an x-axis label describing the data variable, and a y-axis label (typically "Frequency" or "Density").





The distributions of variables $\times 1$ and y 1 were compared by plotting them as horizontal boxplots arranged on the same figure. This side-by-side arrangement allows for direct visual comparison of their medians, quartiles, and potential outliers.



The data distribution was visualized using a combined panel of plots. The par(mfrow = c(1, 2)) and par(mfrow = c(2, 1)) function was used to create a multi-frame layout respectively, displaying a boxplot and a histogram side-by-side for comparative analysis.