carsspeeddist

2025-09-08

{cars$speed_cat <- cut(cars$speed, breaks = c(0, 10, 15, 25), labels = c("Slow", "Moderate", "Fast"))$ cars$log_dist <- log(cars$dist)$, echo=FALSE}

{hist(cars$dist, main = "Histogram of Stopping Distances", xlab = "Distance (in ft)", col = "blue", border = "white") plot(cars$speed, cars$dist, main = "Scatterplot of Speed vs. Stopping Distance", xlab = "Speed (in mph)", ylab = "Stopping Distance (in ft)", pch = 19, col = "red") abline(lm(dist ~ speed, data = cars), col = "blue", lwd = 2), echo=FALSE}