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# Load the built-in airquality dataset
data("airquality")

# View first few rows
head(airquality)

# Extract the Temperature column (assumed to be max daily temp at La Guardia)
temperature_data <- airquality$Temp

# Basic histogram using base R
hist(temperature_data,
     main = "Daily Maximum Temperature at La Guardia (May–Sep 1973)",
     xlab = "Temperature (°F)",
     col = "lightblue",
     border = "black")

# Load ggplot2 package
if(!require(ggplot2)) install.packages("ggplot2", dependencies = TRUE)
library(ggplot2)

# Convert to data frame
temp_df <- data.frame(Temperature = temperature_data)

# Plot with ggplot2
ggplot(temp_df, aes(x = Temperature)) +
  geom_histogram(binwidth = 5, fill = "skyblue", color = "black") +
  labs(title = "Daily Maximum Temperature at La Guardia (May–Sep 1973)",
       x = "Temperature (°F)", y = "Frequency") +
  theme_minimal()
```