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library(ggplot2)

# Create a simple data frame

data <- data.frame(

Sales = c(150, 200, 250, 300, 350, 400, 450, 500, 550, 600,

650, 700, 750, 800, 850, 900, 950, 1000, 1050, 1100),

Engagement = c(20, 30, 40, 50, 60, 70, 80, 90, 100, 110,

120, 130, 140, 150, 160, 170, 180, 190, 200, 210),

Category = c('A', 'B', 'A', 'B', 'A')

)

# Scatter plot of Sales vs Engagement, colored by Category

ggplot(data, aes(x = Sales, y = Engagement, color= Category)) +

geom\_point(size = 3) +

labs(

title = "Sales vs Engagement",

x = "Sales",

y = "Engagement"

)

# Create a line plot for Sales

ggplot(data, aes(x = Sales, y = Engagement)) +

geom\_line(size = 1) +

labs(

title = "Sales Over Index",

x = "Index",

y = "Sales"

)

#Histogram

ggplot(data, aes(x=Sales)) +

geom\_histogram(binwidth = 30, color = "blue") +

labs(

title = "qwerty",

x = "qwerty",

y = "qwerty"

)

# Box plot of Sales by Category

ggplot(data, aes(x = Category, y = Sales, fill = Category)) +

geom\_boxplot() +

labs(

title = "Box Plot of Sales by Category", # Title of the plot

x = "Category", # X-axis label

y = "Sales" # Y-axis label

)

ggplot(data, aes(x = "", y = Sales, fill = Category)) +

geom\_bar(stat = "identity", width = 1) +

coord\_polar(theta = "y") +

labs(title = "Sales by Category")