dataTable <- matrix(data = NA, nrow = 9, ncol = 3, byrow = TRUE)

dataTable <- as.data.frame(dataTable)

colnames(dataTable) <- c("You", "Opponent", "Outcome")

# Fill in columns

dataTable[, 1] <- c(rep("Rock", 3), rep("Paper", 3), rep("Scissors", 3))

dataTable[, 2] <- c(rep(c("Rock", "Paper", "Scissors"), 3))

dataTable[, 3] <- c(c("Draw", "Lose", "Win"), c("Win", "Draw", "Lose"), c("Lose", "Win", "Draw"))

# Check:

dataTable

#### Alternate Table Creation:

choices <- c("Rock", "Paper", "Scissors")

cartesianProd <- expand.grid(choices, choices)

cartesianProd <- as.data.frame(cartesianProd)

# Check:

cartesianProd

# Convert Outcome as Factors:

dataTable[, 3] <- as.factor(dataTable[, 3] )

str(dataTable)

ggplot(dataTable,aes(x = dataTable[, 1],y = dataTable[, 2],fill = dataTable[, 3])) +

geom\_tile() +

scale\_fill\_manual(values = c('blue','red', "green")) +

labs(x = "Your Choice", y = "Opponent's Choice",

title = "Rock, Paper, Scissors Chart", fill = "Your Outcome") +

theme(plot.title = element\_text(hjust = 0.5),

axis.title.x = element\_text(face="bold", colour="#FF7A33", size = 12),

axis.title.y = element\_text(face="bold", colour="#FF7A33", size = 12),

legend.title = element\_text(face="bold", size = 10))