

Case 5

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```
library(ggplot2)

bundesliga <- readRDS("bundesliga.rds")

dortmund_home_df <- subset(bundesliga, HomeTeam == "Dortmund")
dortmund_away_df <- subset(bundesliga, AwayTeam == "Dortmund")

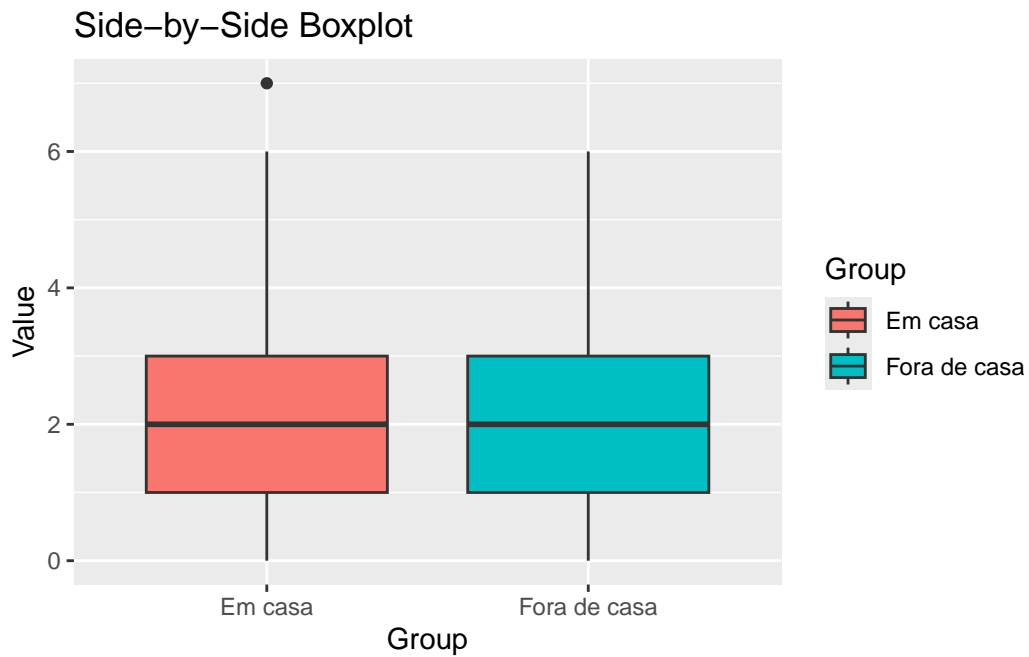
dortmund_goals_home <- dortmund_home_df$FullTimeHomeGoals
dortmund_goals_away <- dortmund_away_df$FullTimeAwayGoals

data1 <- data.frame(
  Group = rep("Em casa", length(dortmund_goals_home)),
  Value = dortmund_goals_home
)

data2 <- data.frame(
  Group = rep("Fora de casa", length(dortmund_goals_away)),
  Value = dortmund_goals_away
)

# Combine data frames
data <- rbind(data1, data2)

# Create the boxplot
ggplot(data, aes(x = Group, y = Value, fill = Group)) +
  geom_boxplot() +
  labs(title = "Side-by-Side Boxplot",
       x = "Group",
       y = "Value")
```



```
"Em casa:"
```

```
[1] "Em casa:"
```

```
print(summary(dortmund_goals_home))
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
0.000	1.000	2.000	2.465	3.000	7.000

```
"Fora de casa:"
```

```
[1] "Fora de casa:"
```

```
print(summary(dortmund_goals_away))
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
0.000	1.000	2.000	1.924	3.000	6.000