

Statistical Report

1. Question

Is there a significant difference in weight between Group A and Group B?

2. Data Summary

- Total Rows: 6
- Columns:

```
summarytools::dfSummary(data)
```

```
## Error in match.call(f, call): ... used in a situation where it does not exist
```

```
## Warning in parse_call(mc = match.call(),  
## var_name = get_var_info, var_label =  
## get_var_info, : metadata extraction  
## terminated unexpectedly; inspect results  
## carefully
```

```
## Data Frame Summary  
## Dimensions: 6 x 2  
## Duplicates: 0  
##
```

```
## -----  
## No    Variable      Stats / Values      Freqs (% of Valid)  Graph      Valid      Missing  
## ----  
## 1     Group         1. A                3 (50.0%)           IIIIIIIIII        6          0  
##      [character]    2. B                3 (50.0%)           IIIIIIIIII        (100.0%)   (0.0%)  
##  
## 2     Weight        Mean (sd) : 11.5 (0.8) 10.50 : 1 (16.7%)   III             6          0  
##      [numeric]      min < med < max:      10.80 : 1 (16.7%)   III             (100.0%)   (0.0%)  
##                        10.5 < 11.6 < 12.5 11.20 : 1 (16.7%)   III  
##                        IQR (CV) : 1.1 (0.1) 11.90 : 1 (16.7%)   III  
##                        12.10 : 1 (16.7%)   III  
##                        12.50 : 1 (16.7%)   III  
## -----
```

3. Test Performed

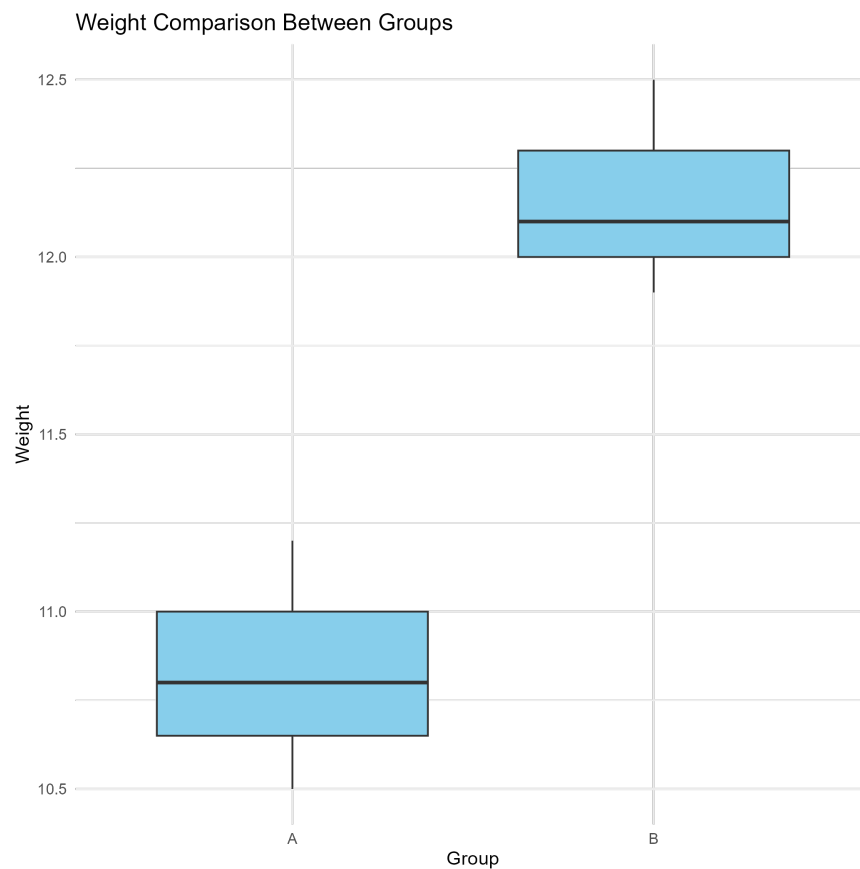
Independent t-test

4. Statistical Output

```
print(test_result)
```

```
##
##  Welch Two Sample t-test
##
## data:  Weight by Group
## t = -4.9614, df = 3.9248, p-value =
## 0.008086
## alternative hypothesis: true difference in means between group A and group B is not equal to 0
## 95 percent confidence interval:
## -2.0851561 -0.5815106
## sample estimates:
## mean in group A mean in group B
##      10.83333      12.16667
```

5. Graph



6. AI Interpretation (by GPT-4)

Based on the t-test, there is a significant difference in average weight between Group A and Group B. The result suggests this difference is unlikely to be due to chance.

7. Conclusion

The difference is statistically significant. We reject the null hypothesis.

Report auto-generated by Roman's AI Statistical Automation System.