

A thick black L-shaped frame is positioned on the left and bottom edges of the slide, framing the central text.

# MUSCLEHUB A/B-TEST

An analysis of two strategies for attracting more  
visitors to become purchasing members

# Visitor experience

## Standard procedure (A)

- Take a test with a personal trainer
- Fill in an application to the gym
- Send payment for first month's membership

## Suggested procedure (B)

- Fill in an application to the gym
- Send payment for the first month's membership

**Hypothesis:** Visitors in group B will be more likely to purchase a membership

# The dataset

## Visits

- First name
- Last name
- Email
- Gender
- Visit date

## Fitness test

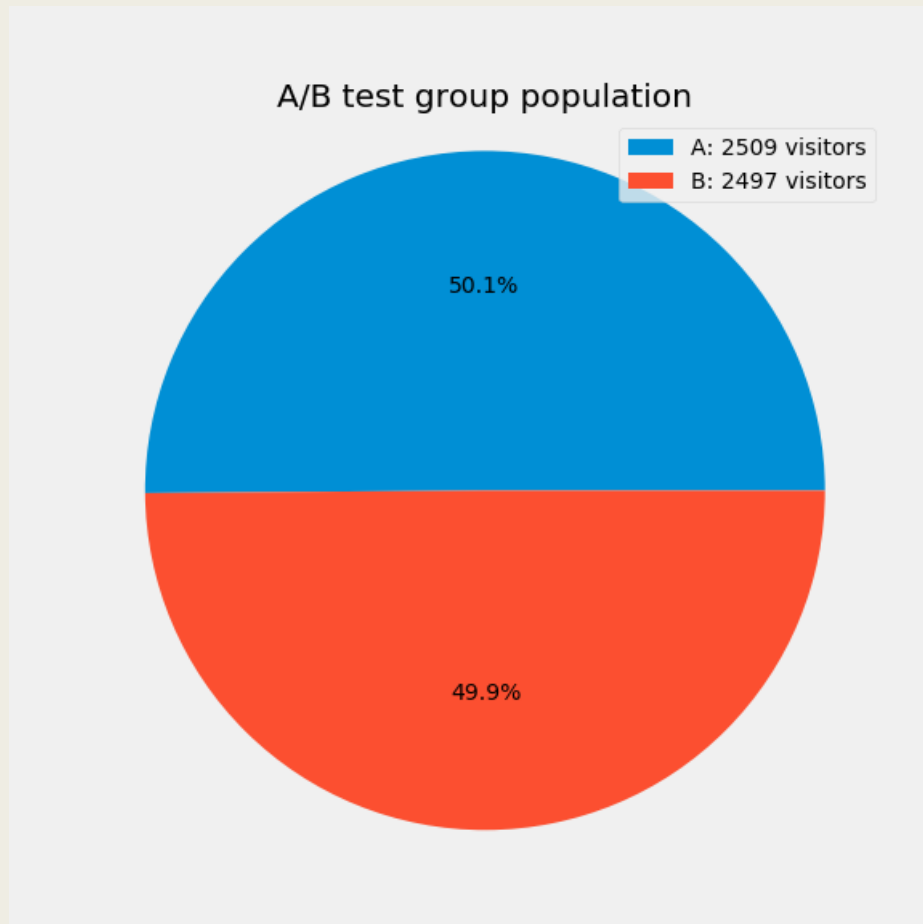
- First name
- Last name
- Email
- Gender
- Fitness test date

## Applications

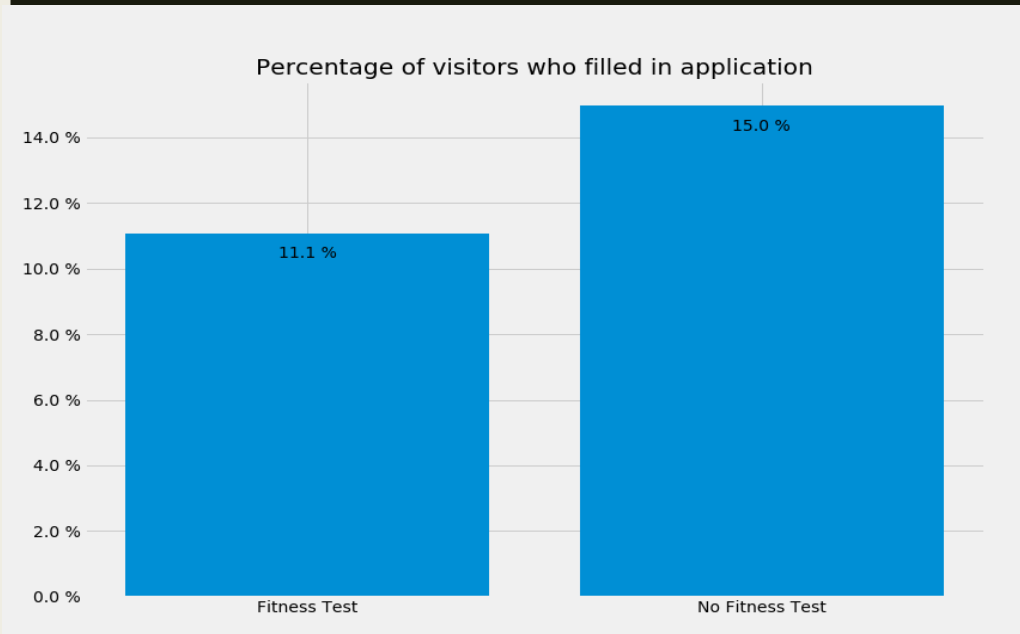
- First name
- Last name
- Email
- Gender
- Application date

## Purchase

- First name
- Last name
- Email
- Gender
- Purchase date



# POPULATION DISTRIBUTION



## TEST 1: VISITORS WHO FILL IN APPLICATION

Group A: 11.1 %

Group B: 15.0 %

Chosen test: Chi-squared with 95 % significance level. Used because the data is categorical

P-value: 0.0029

Conclusion: There is a significant difference in the amount of visitors who fill in an application.

## TEST 2: APPLICANTS WHO PURCHASED MEMBERSHIP

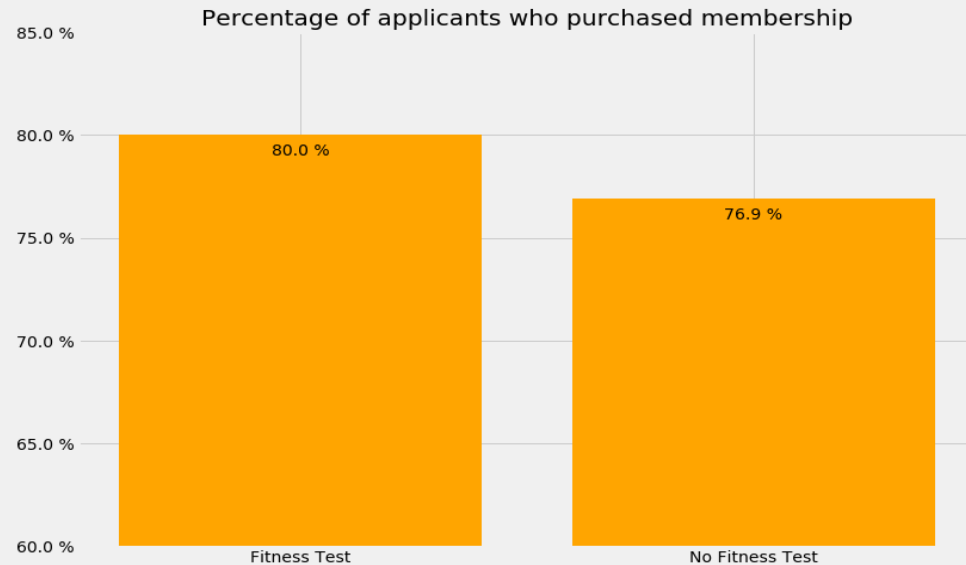
Group A: 80.0 %

Group B: 76.9 %

Chosen test: Chi-squared with 95 %  
significance level. Used because the  
data is categorical

P-value: 0.54

Conclusion: There is no significant  
difference in the amount of visitors who  
purchased a membership after filling in  
an application.



### TEST 3: VISITORS WHO PURCHASED MEMBERSHIP

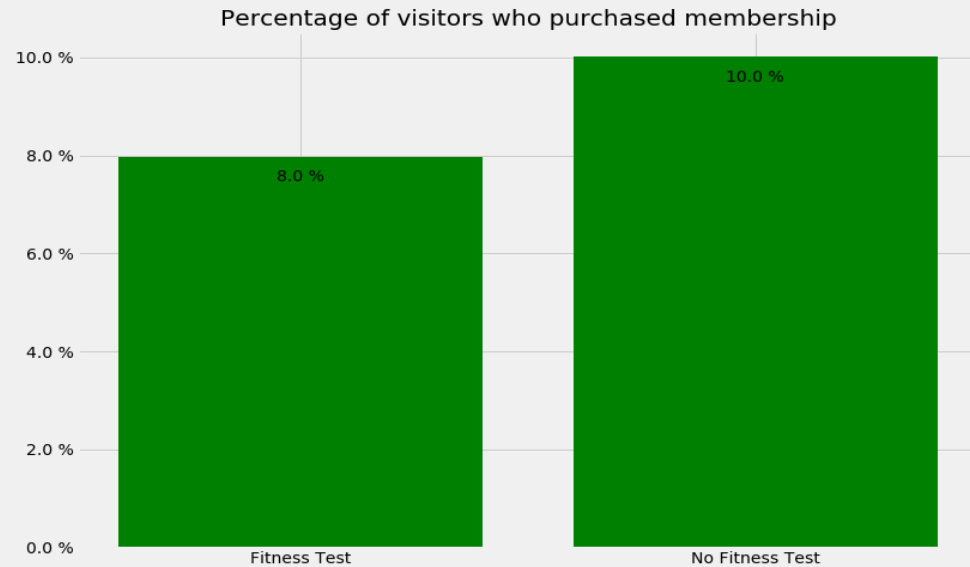
Group A: 8.0 %

Group B: 10.0 %

Chosen test: Chi-squared with 95 %  
significance level. Used because the  
data is categorical

P-value: 0.024

Conclusion: There is a significant  
difference in the amount of visitors who  
purchased a membership



# Summary

## Visitors who fill in an application

- Group A: 11.1 %
- Group B: 15.0 %
- P-value: 0.0029
- Best procedure:  
No fitness test

## Applicants who purchase membership

- Group A: 80.0 %
- Group B: 76.9 %
- P-value: 0.54
- Best procedure:  
No significant difference

## Visitors who purchase membership

- Group A: 8.0 %
- Group B: 10.0 %
- P-value: 0.024
- Best procedure:  
No fitness test



# RECOMMENDATION

Since 2/3 tests indicate that test B was more successful than test A, and the remaining test did not indicate a significant difference, my recommendation is to implement procedure B: No fitness test should be required before visitors fill in an application

# SUGGESTIONS FOR FURTHER ANALYSIS

Were there significant differences between  
the genders in the two test groups?

Are there significant differences considering the time taken  
between first visit, fitness test, application and purchase?