

A/B Testing Analysis: Evaluating the Impact of Advertising Banner on Mobile Website



Overview

Context

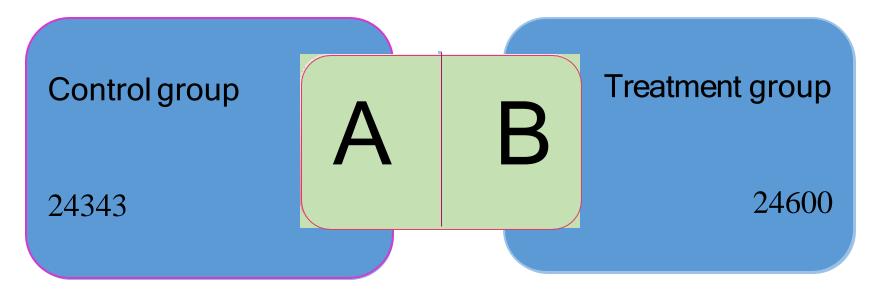
- ► A/B groups
- Conversion rate VS Average amount Spent(Metrics)
- ► The probabilitythat our findings are due to chance(p-value)
- Differences between both metrics
- Metrics VS Different Objects

Key results

Recommendation

Context (A/B groups)

▶ During 13 days in 2023



Conversion rate VSA verage amount Spent (Metrics)

- Converted: People who purchased
- ► Conversion rate: converted / all users
- Average spent: Average of total spent

Conversion rate 3.92%

Average amount Spent 3.375\$

A B

Conversion rate 4.63%

Average amount Spent 3.391\$

KEY FINDING

Conversion rate

Null hypothesis=Reject

Result strong evidence of the positive impact of the advertising banner

Average amount spent

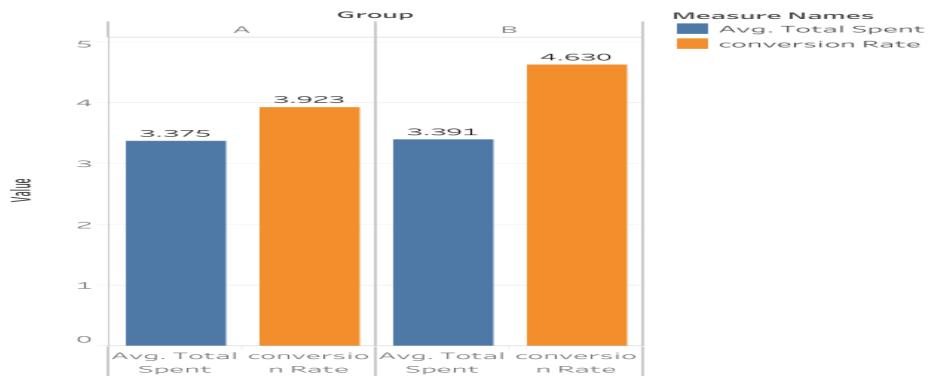
Null hypothesis= Fail To Reject

Result:

lack of significant evidence advertising banner

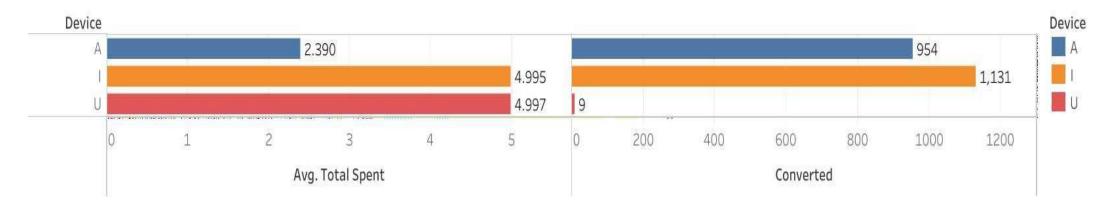
Differences between both metrics

Compare the conversion rate and average amount spent between the test groups.



Metrics\script{S} device types

The relationship between the test metrics and the user's device



Result:

Conversion rate:

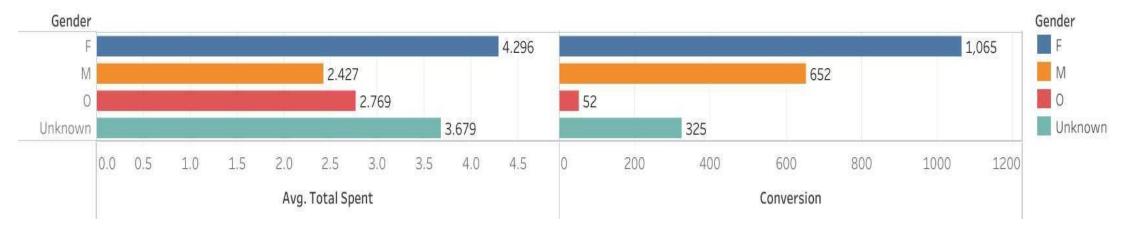
Iphone>Android>Unknown Device

Average amount spent:

Unknown device>lphone> Android

Metrics VS Gender

The relationship between the test metrics and the user's gender



Result:

Conversion rate:

Female>Non-

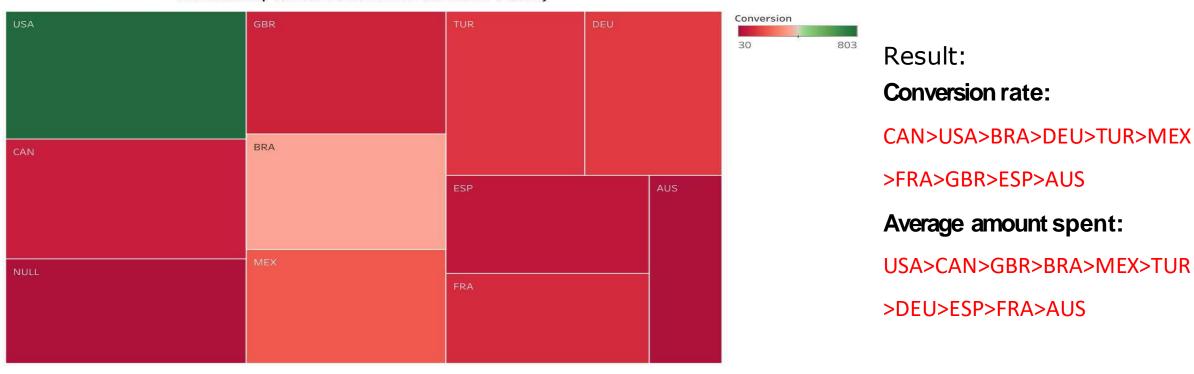
available>Male>Other

Average amount spent:

Female>Non- available>Other> Male

Metrics VS Country

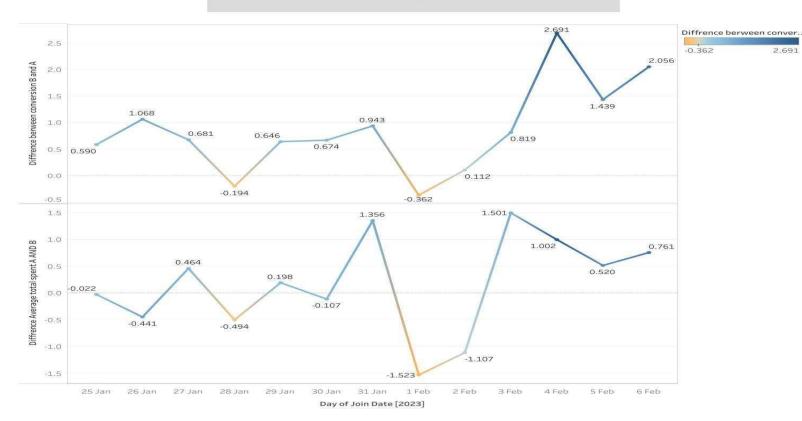
The relationship between the test metrics and the user's country



Novelty Effect

Novelty Effect

After thoroughly analyzing the difference in conversion rate and average amount spent rate between two groups, namely Group A (no banner) and Group B (banner), we have .



Result:

2.691

There is no evidence of the novelty effect

Key Results

Advertising banner had a impact on the "conversion rate"

Banner may attract more users to make purchases, but it does not directly influence the "average amount spent per user"

Recommendation

- ► Continue using the advertising banner on the mobile website.
- ► Considering its positive impact on the conversion rate.
- Additional strategies may be required to further enhance the average amount spent per user.
- ➤ Continuous monitoring and analysis of user behavior and testing various approaches can provide valuable insights for future optimization efforts.