



Reaching Revenue Target Through Data Insights

Outline

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Introduction

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Data
Exploration



01

Introduction

1. Introduction

1.1 First Look

1.2 Problem Statement

1.1 First Look

```
## Rows: 61,728
## Columns: 11
## $ customer_unique_id    <dbl> 1, 2, 3, 4, 5, 6, 7, 7, 8, 9, 10, 11, 12, 13, 14...
## $ order_id              <chr> "A000000001", "A000000002", "A000000003", "A0000...
## $ item_quantity         <dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ...
## $ created_day           <dtm> 2019-07-01, 2019-07-01, 2019-07-01, 2019-07-01,...
## $ onsite_original_price  <dbl> 338000, 175000, 520000, 238000, 159000, 135000, ...
## $ selling_price         <dbl> 259000, 139000, 359000, 185000, 129000, 105000, ...
## $ shipping_fee          <dbl> 3000, 0, 14927, 29645, 14927, 0, 3000, 3000, 402...
## $ voucher_platform      <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
## $ voucher_seller        <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
## $ payment_method        <chr> "Airpay GIRO", "Cash on Delivery", "Cybersource"...
## $ order_status          <chr> "CANCELLED", "COMPLETED", "COMPLETED", "COMPLETE..."
```

Sample_Customore_Order

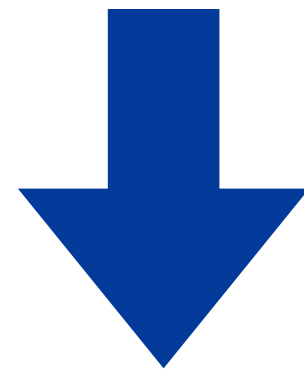
1.1 First Look

```
## Rows: 198
## Columns: 10
## $ `Source / Medium`      <chr> "google / cpc", "youtube / social", "(dire...
## $ Users                  <dbl> 407950, 77785, 64653, 48721, 27718, 14373,...
## $ `New Users`           <dbl> 344502, 55537, 60181, 32781, 17774, 10110,...
## $ Sessions              <dbl> 723208, 163447, 108534, 176662, 42464, 176...
## $ `Bounce Rate`         <dbl> 0.6219013, 0.7881148, 0.5532644, 0.8440015...
## $ `Pages / Session`     <dbl> 3.556041, 2.244324, 4.120340, 1.858996, 2...
## $ `Avg. Session Duration` <dbl> 176.02568, 89.94474, 200.42917, 73.20609, ...
## $ `Ecommerce Conversion Rate` <dbl> 0.009078992, 0.005855109, 0.009655960, 0.0...
## $ Transactions          <dbl> 6566, 957, 1048, 500, 508, 127, 103, 43, 7...
## $ Revenue               <dbl> 6656088123.8, 842907936.0, 1040851446.9, 5...
```

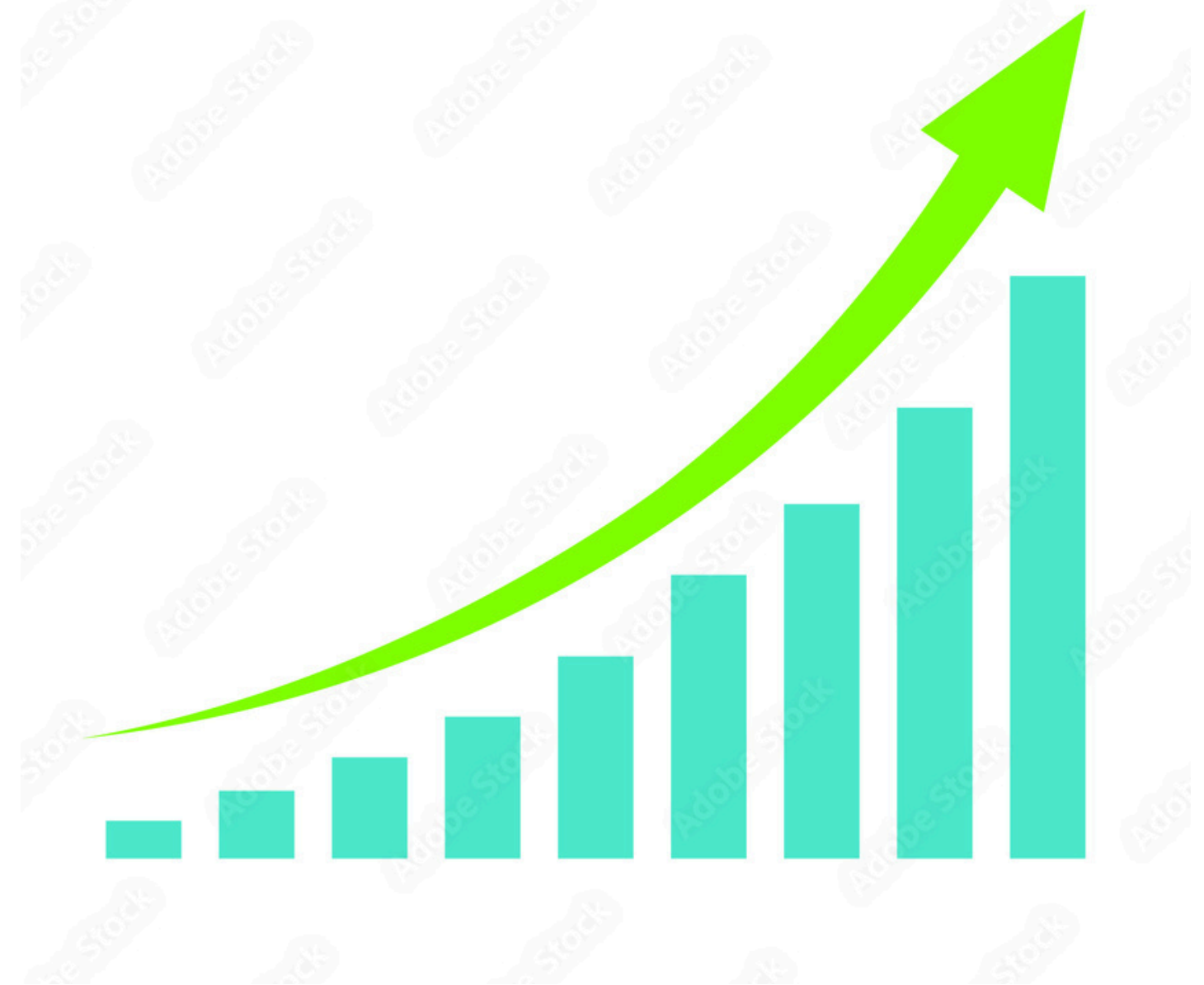
Sample_Customore_Traffic

1.2 Problem Statement

We have to analyze historical sales performance data and traffic source data from Google Analytics.



Based on these insights, we develop a action plan for our customer to double their revenue





02

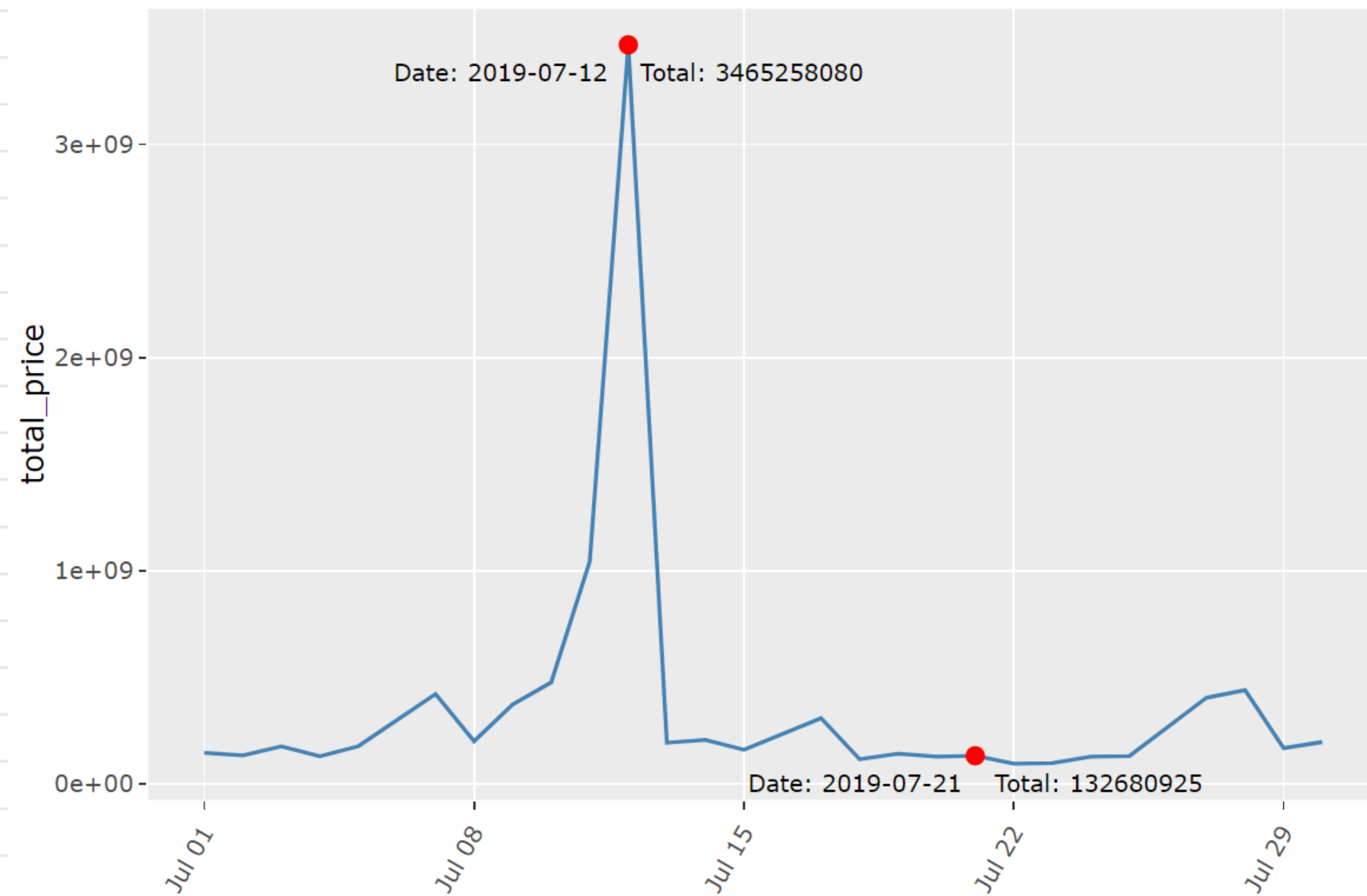
Data Exploration

2. Data Exploration

2.1 Order Data

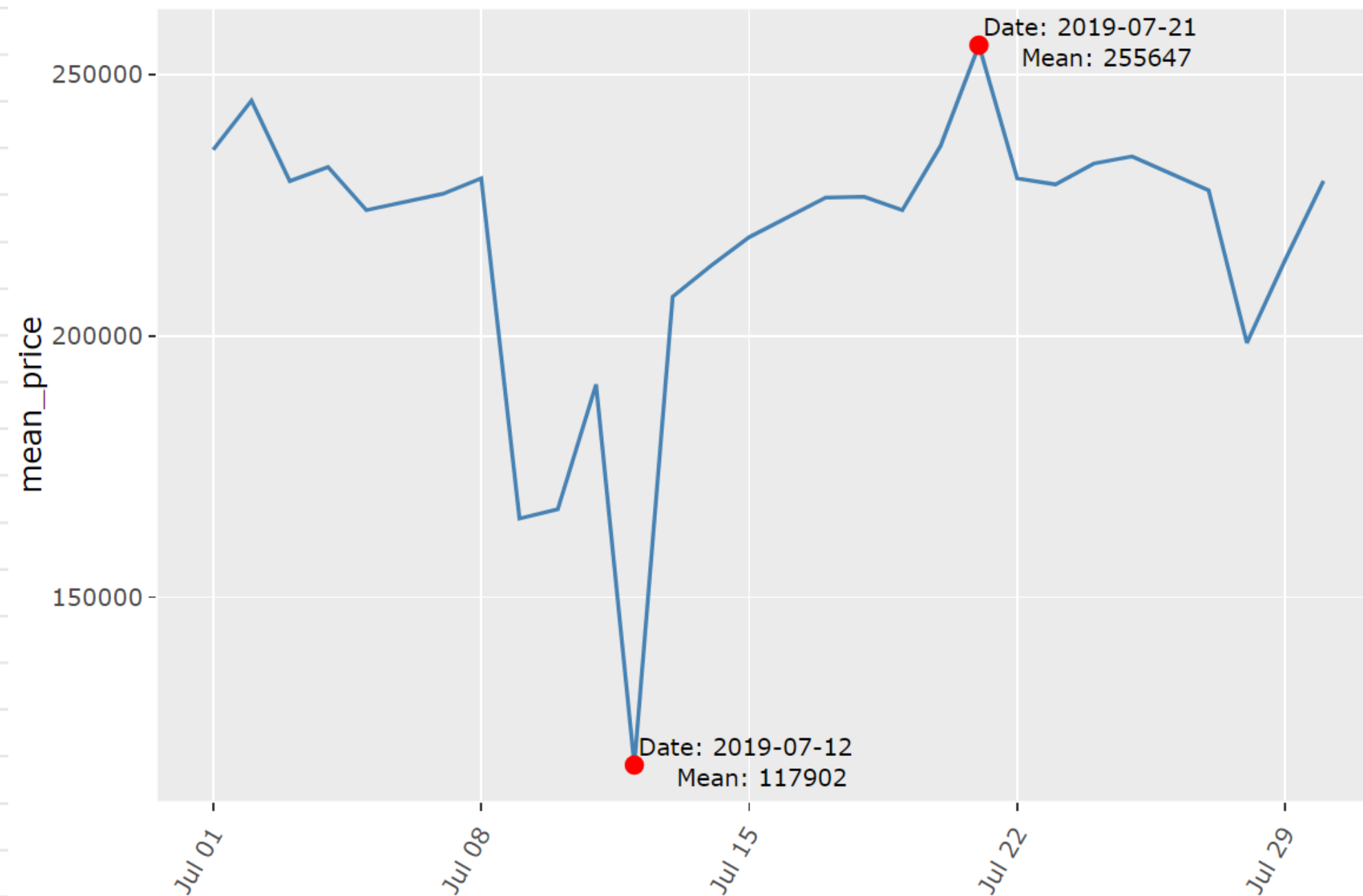
2.2 Traffic Data

2.1 Order Data



Total Selling Price By Date

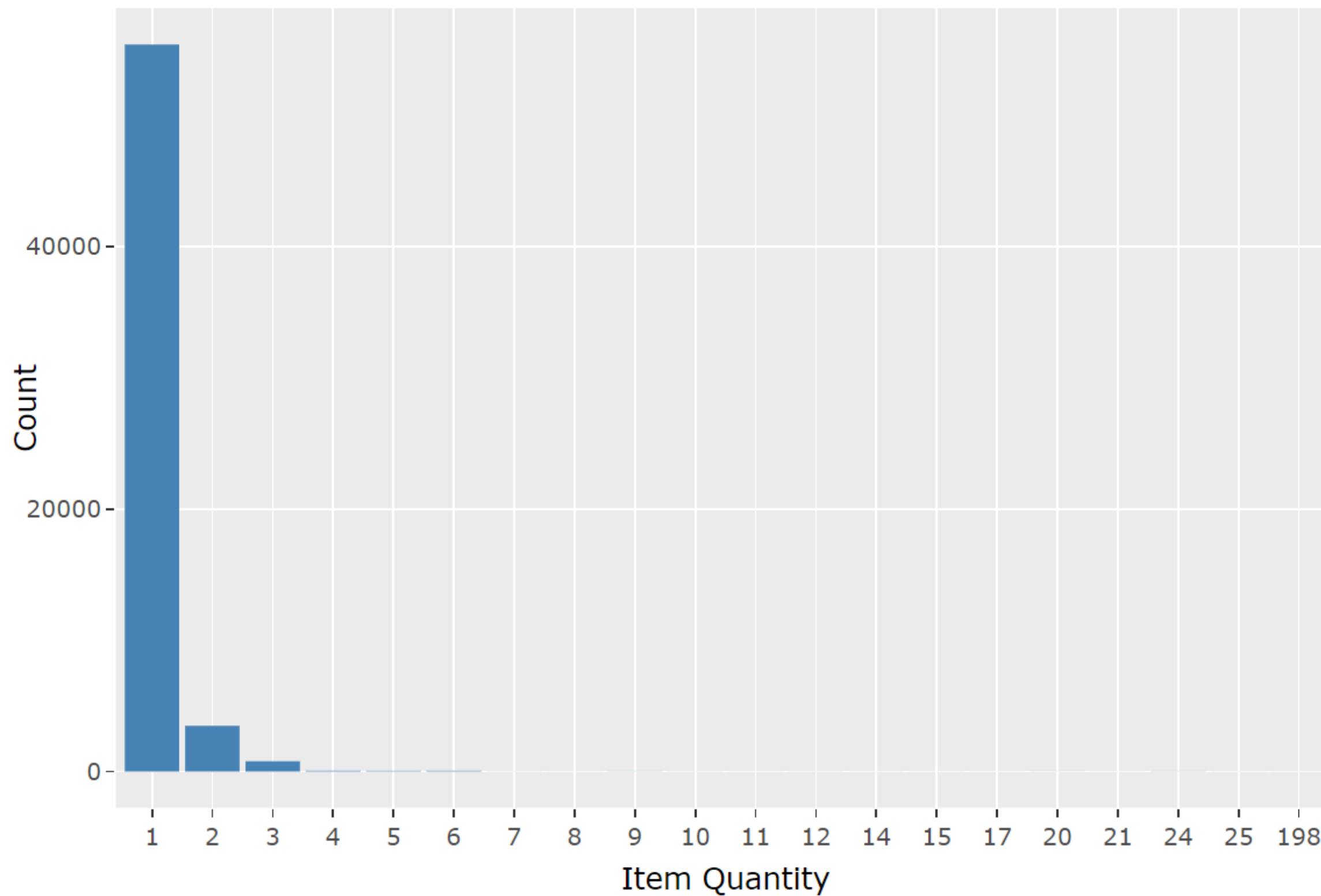
2.1 Order Data



Mean Selling Price By Date

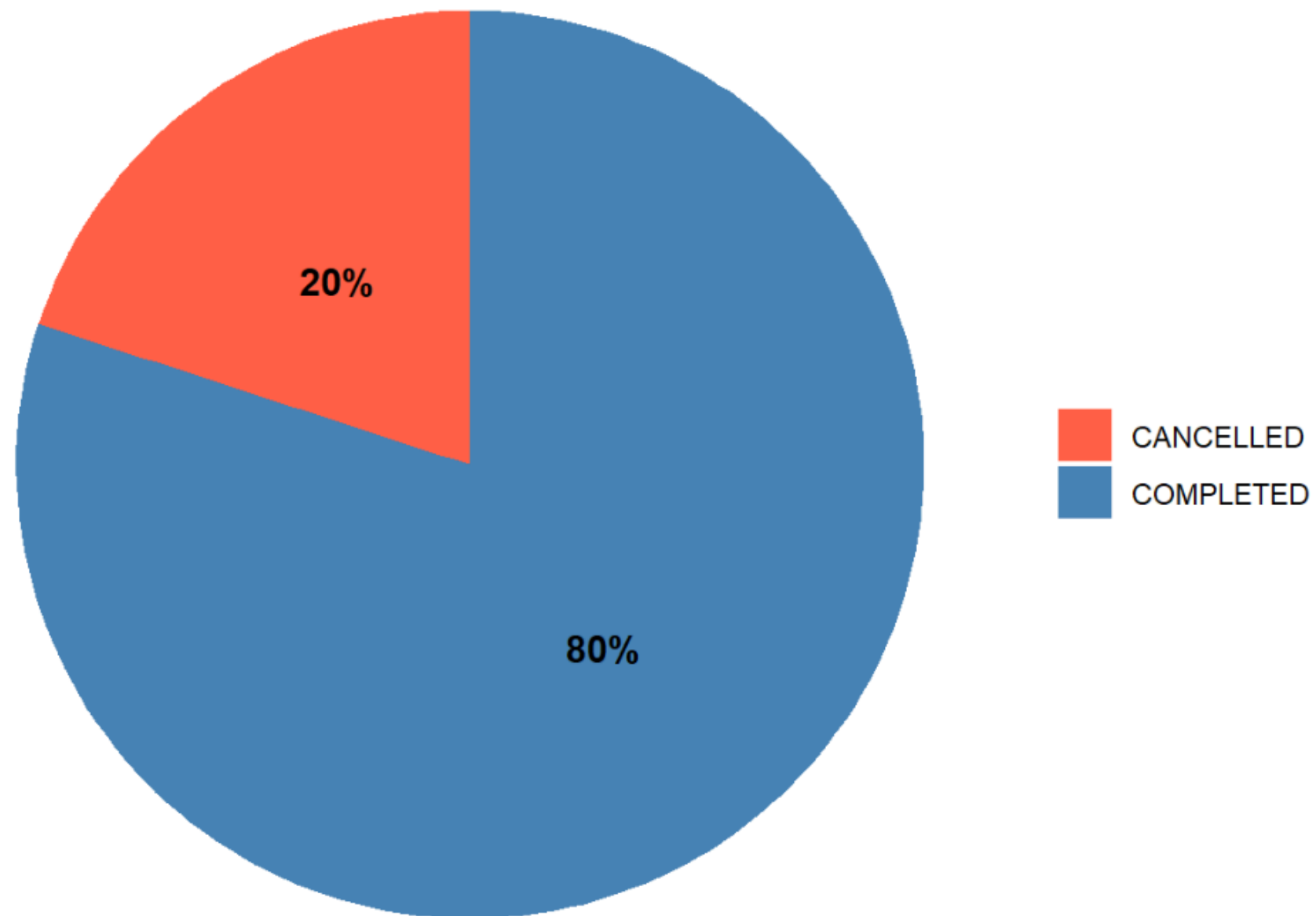
2.1 Order Data

Count of Item Quantity



2.1 Order Data

Ratio of Completed to Canceled Orders



**What affects the
cancellation rate?**

2.1 Order Data

Does the shipping fee of an order influence whether a customer accepts or cancels it?

A

Order with higher shipping fee

B

Order with lower shipping fee

2.1 Order Data



*The group consists of customers who meet both of the following conditions: they have canceled at least one order and have completed at least one order.

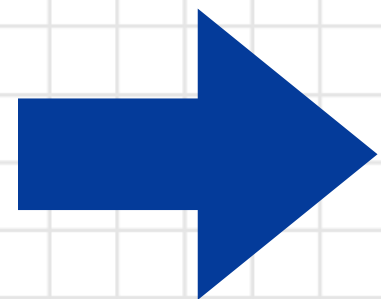
2.1 Order Data

$$\begin{cases} H_0 : \mu_1 = \mu_0 \\ H_1 : \mu_1 < \mu_0 \end{cases}$$

Where μ_0 is the average shipping fee of canceled orders, and μ_1 is the average shipping fee of completed orders.

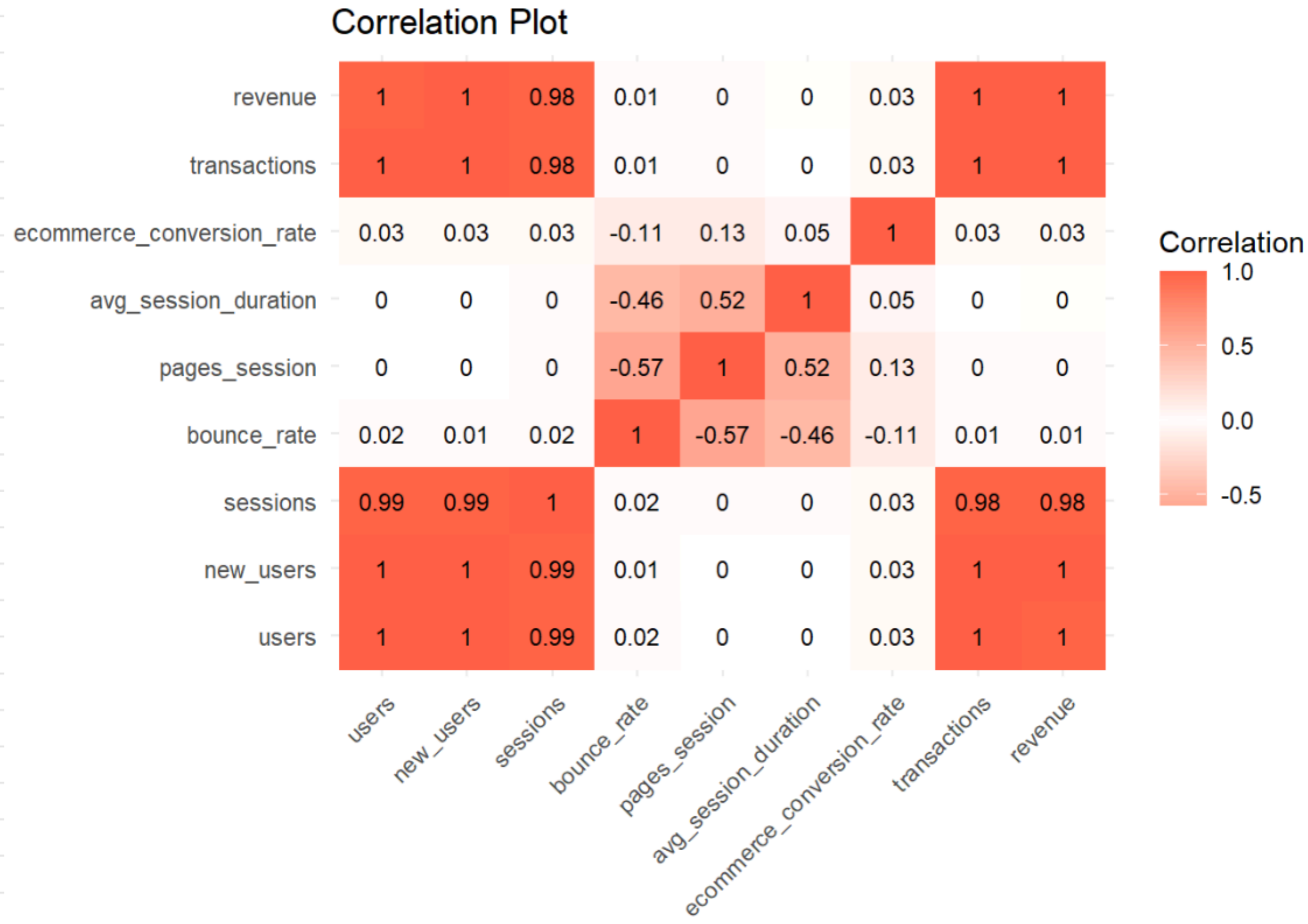
$$\begin{cases} p - value = 0 \\ alpha = 0.05 \end{cases}$$

Since the p-value = 0 is smaller than significance levels of 0.05, we reject the null hypothesis.

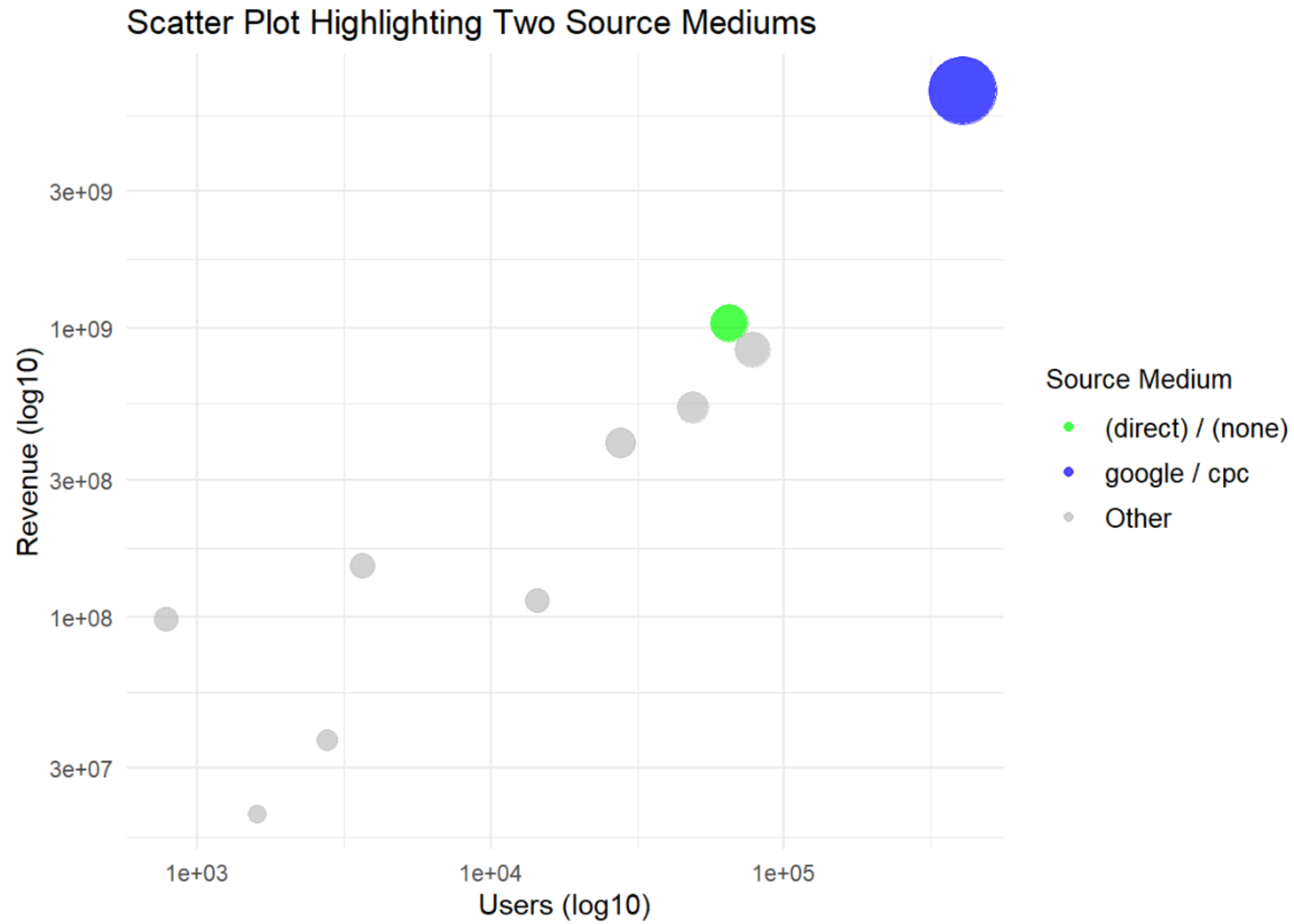


Given the statistical significance, it suggests that higher shipping fees are indeed associated with a higher likelihood of order cancellation.

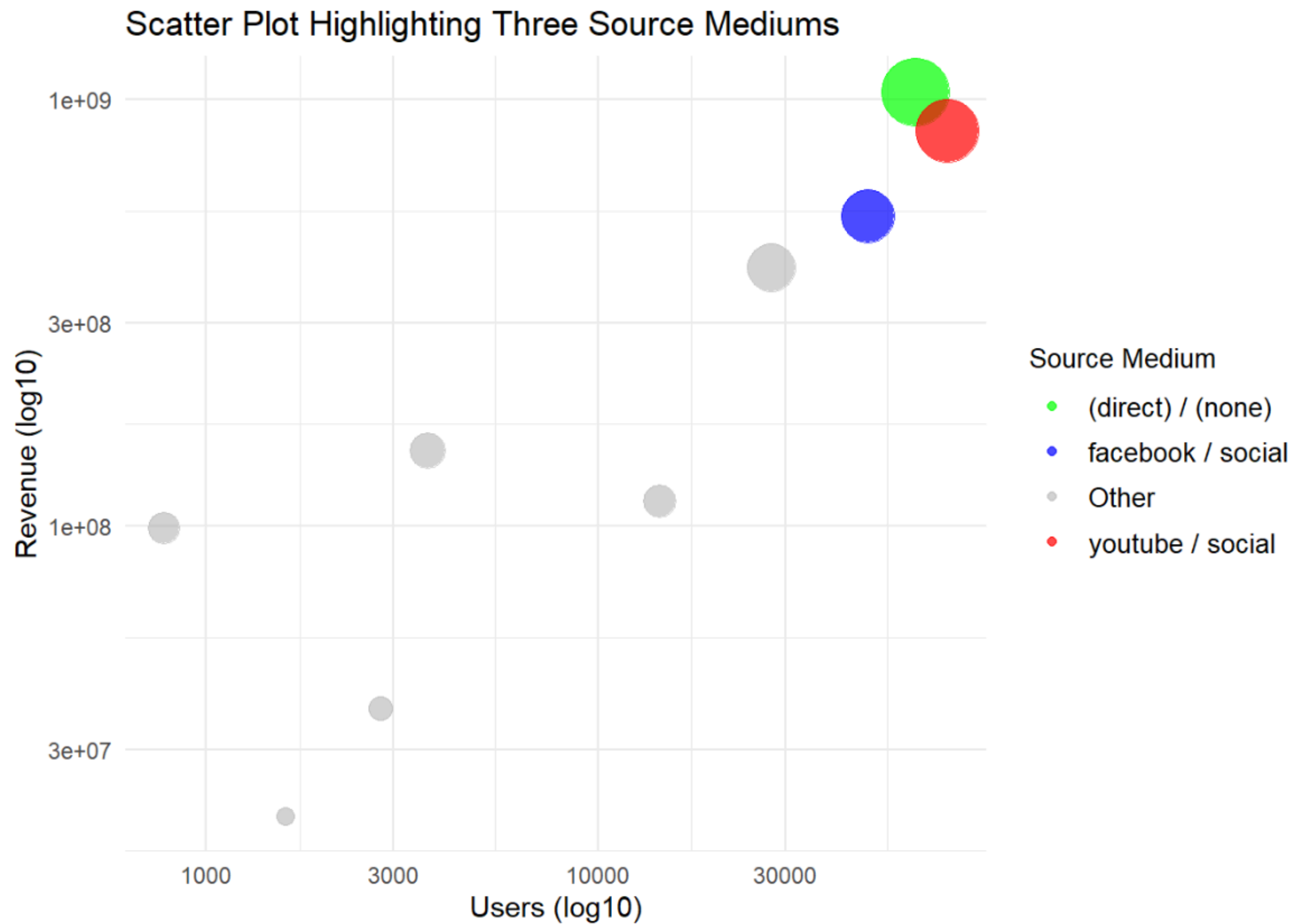
2.2 Traffic Data



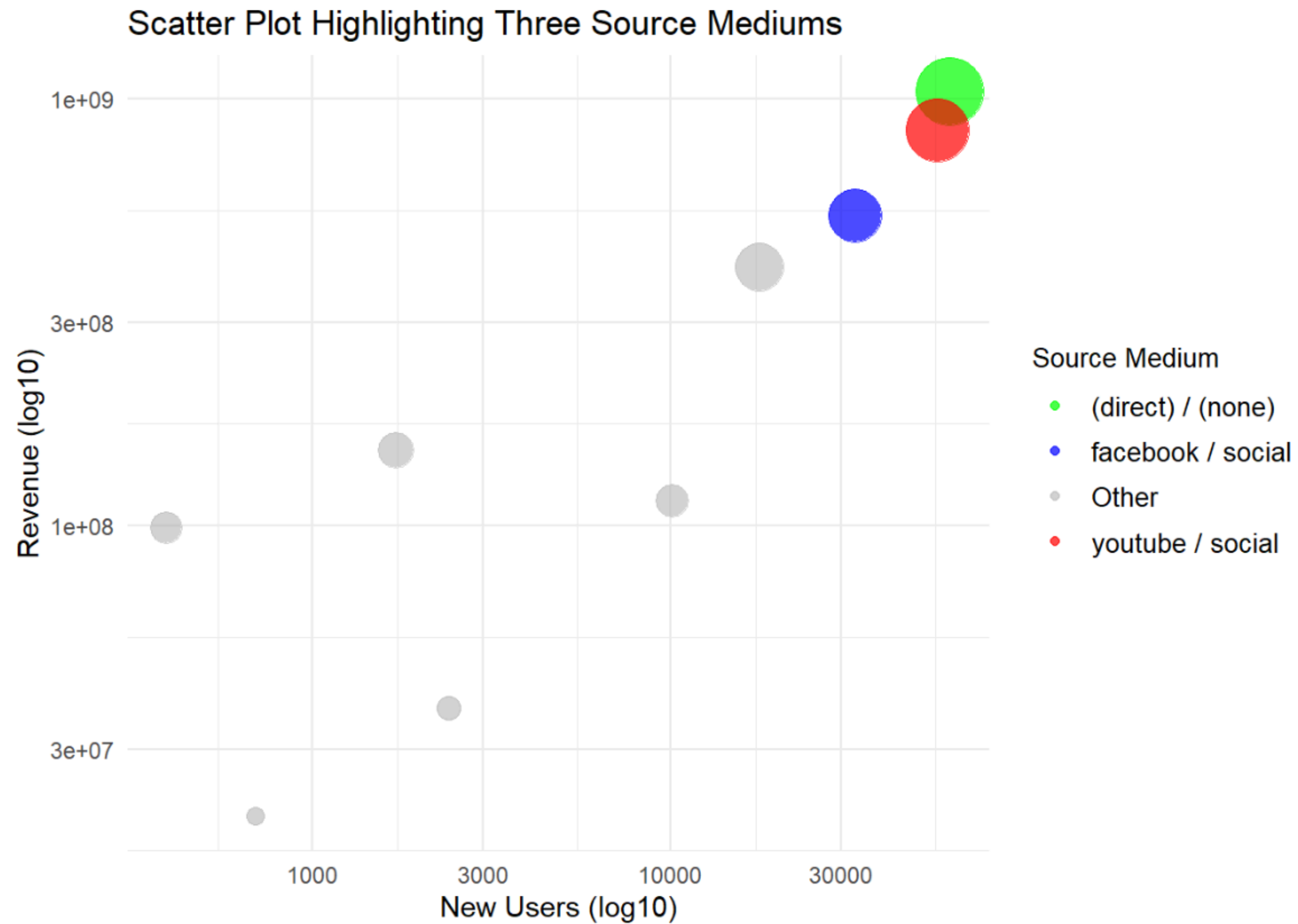
2.2 Traffic Data



2.2 Traffic Data

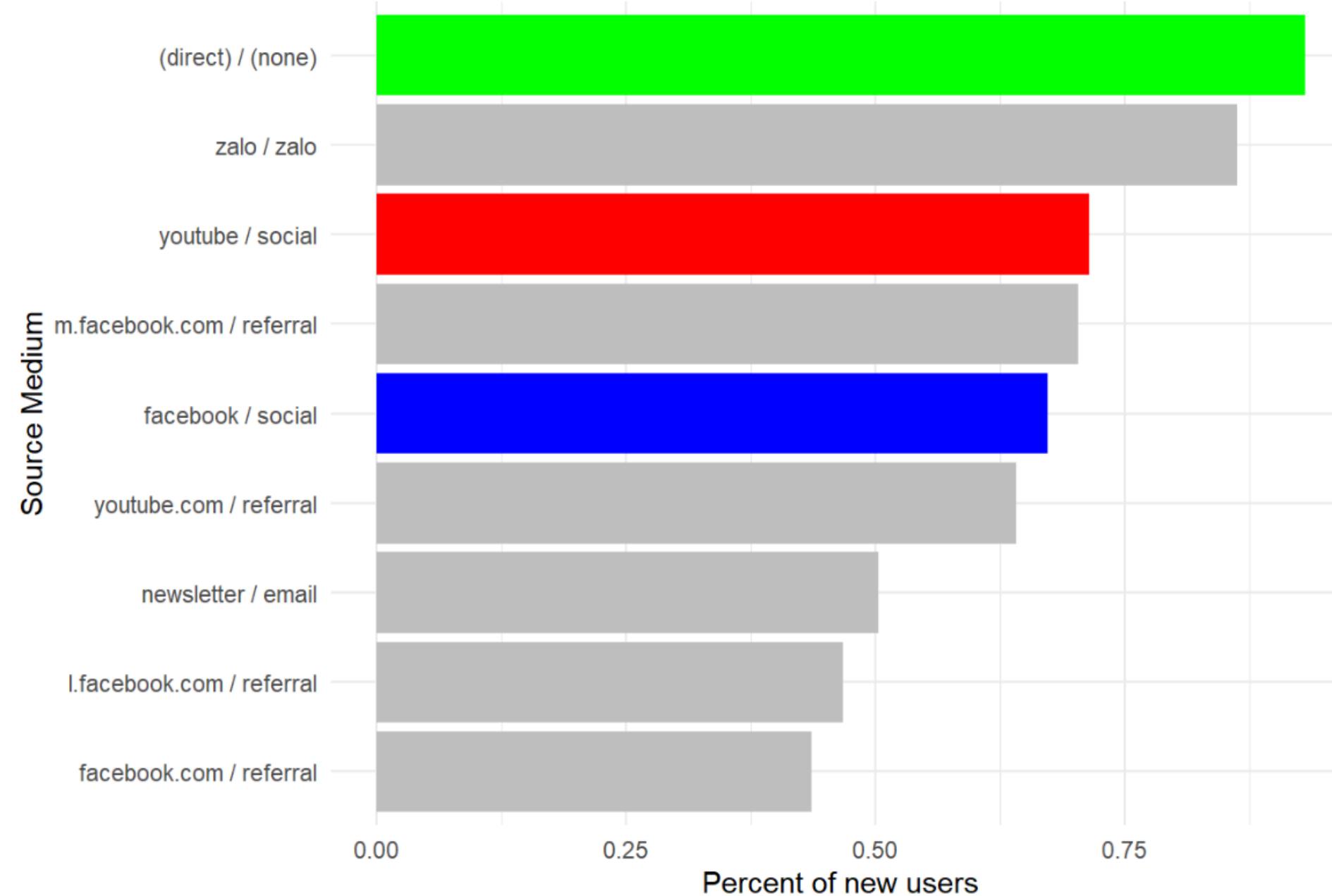


2.2 Traffic Data

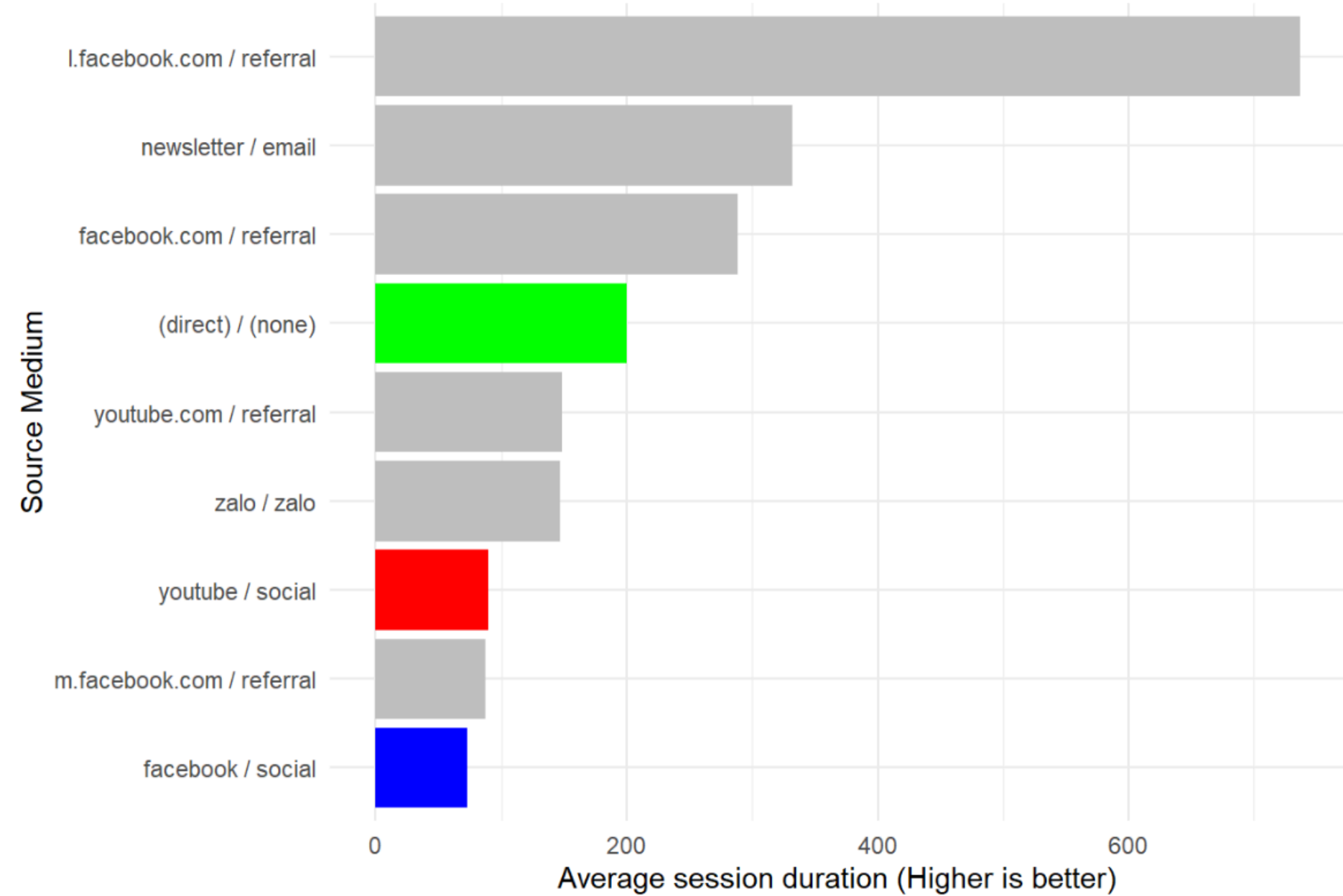


2.2 Traffic Data

Percent of new users by Source Medium

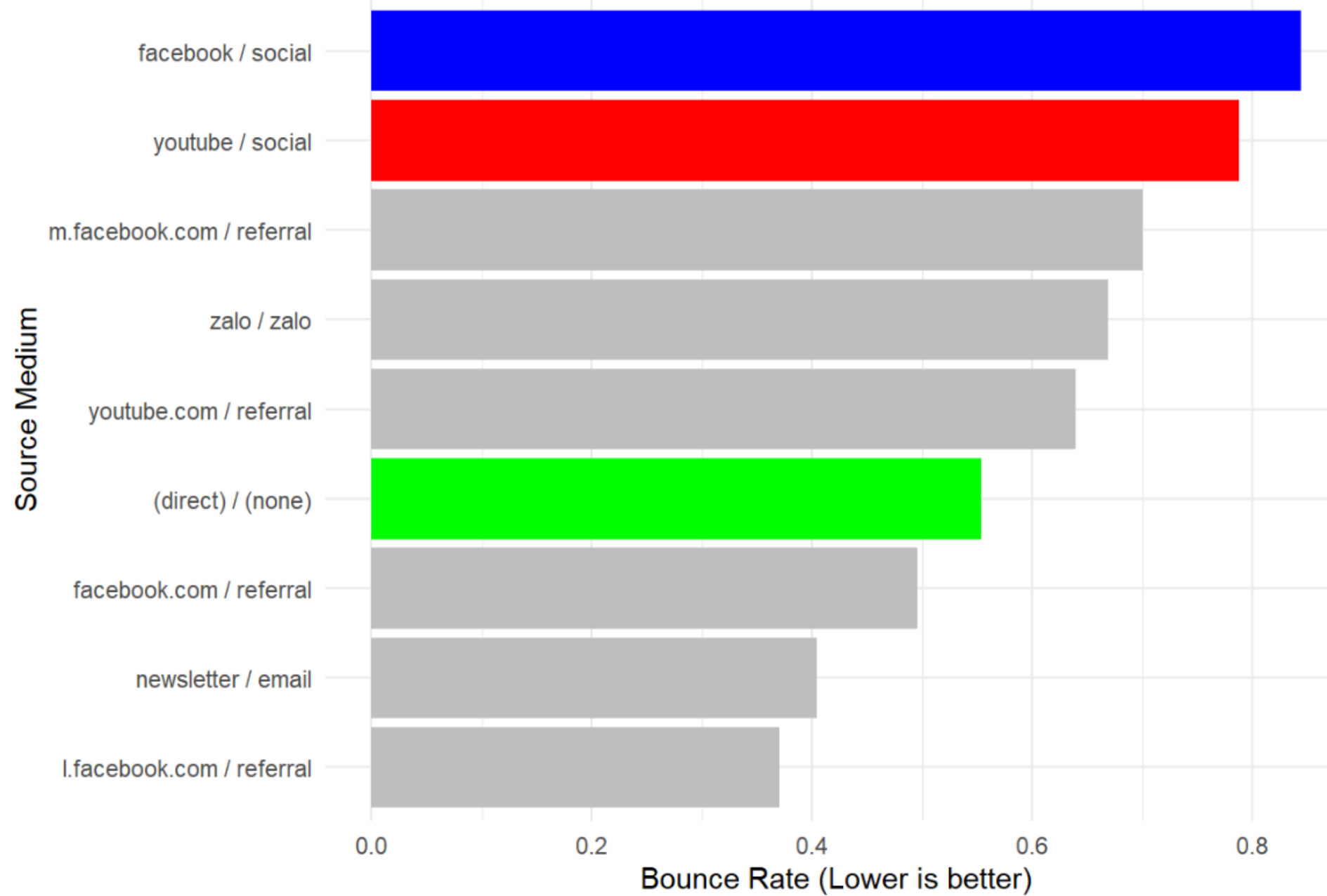


Average session duration by Source Medium

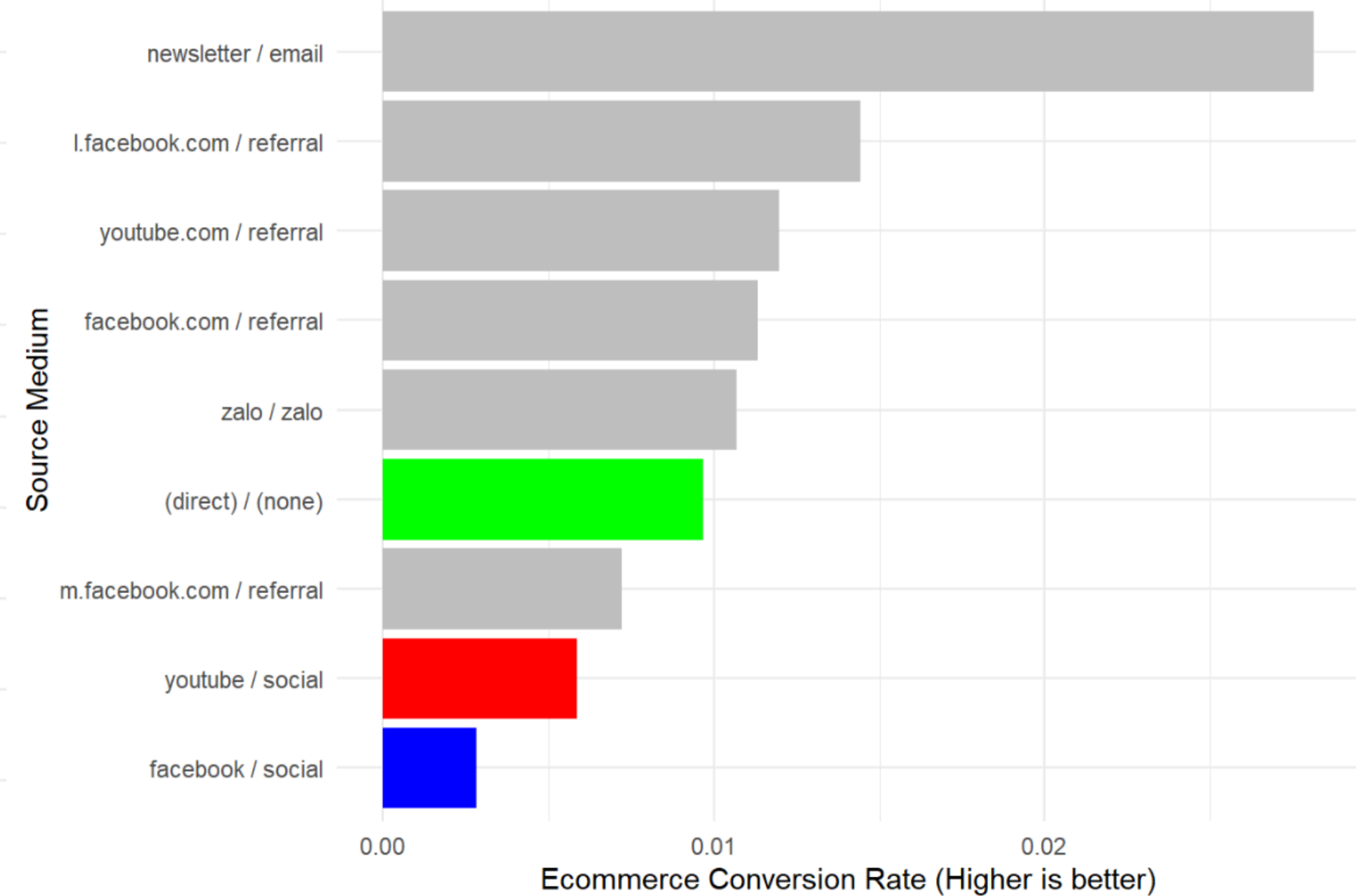


2.2 Traffic Data

Bounce Rate by Source Medium



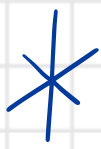
Ecommerce Conversion Rate by Source Medium





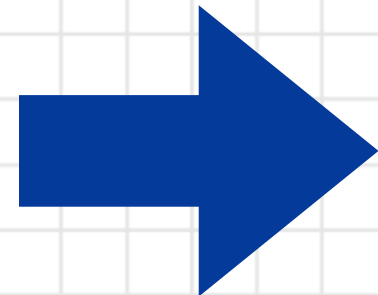
03

Strategy



3 Strategy

Lower the overall price (including shipping fee)

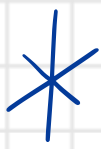


Offer Bundled Discounts: Encourage customers to purchase multiple items by offering bundled pricing or free shipping for orders above a certain value

Optimize Fulfillment Centers: Reduce shipping costs by utilizing multiple warehouses or fulfillment centers closer to key customer locations

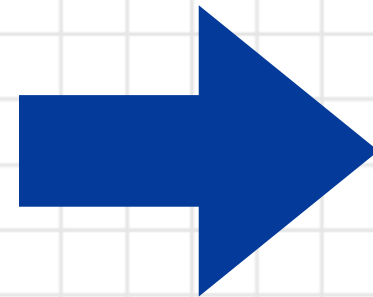
Economy Shipping: Offer slower, economy shipping options as a default, while charging a premium for faster shipping.

Promotional Free Shipping: Use promotions like free shipping for a limited time to boost order volumes.



3 Strategy

Improving
Marketing
Campaign



Optimize on viral content: Tap into current trends, memes, or viral challenges.

A/B Testing: Experiment with different versions of your campaign elements (emails, ads, landing pages) to determine which performs best.

Optimize Landing Pages: Ensure that landing pages are user-friendly, relevant to the campaign, and designed to drive conversions. Include clear calls to action and minimize distractions.

Enhance Content Relevance: Make sure your content matches the expectations set by your headlines, meta descriptions, and ads.

THANKS FOR LISTENING