

MAVEN FUZZY FACTORY: ECOMMERCE DATA ANALYSIS

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INTRODUCTION

DATASET OVERVIEW

Maven Fuzzy Factory – fictional e-commerce startup

- Product: Stuffed animals.
- Time span: 2012–2015
- Sessions: 472,871 unique user sessions

Features: 6 Tables

Orders

Products

Order Items
Refunds

Website
Sessions

Order Items

Pageviews

IMPORTANT COLUMNS

1. Target Variable – Revenue

- Revenue generated
- Product cost (COGs)
- Refunds.

2. Product-Related Variables

- Product name,
- Product ID

3. Website Traffic

- Traffic source
- Device type
- Pageviews
- Repeat sessions

WHAT WE'RE SOLVING

PROBLEM STATEMENT

What drives revenue performance for *Maven Fuzzy Factory*.

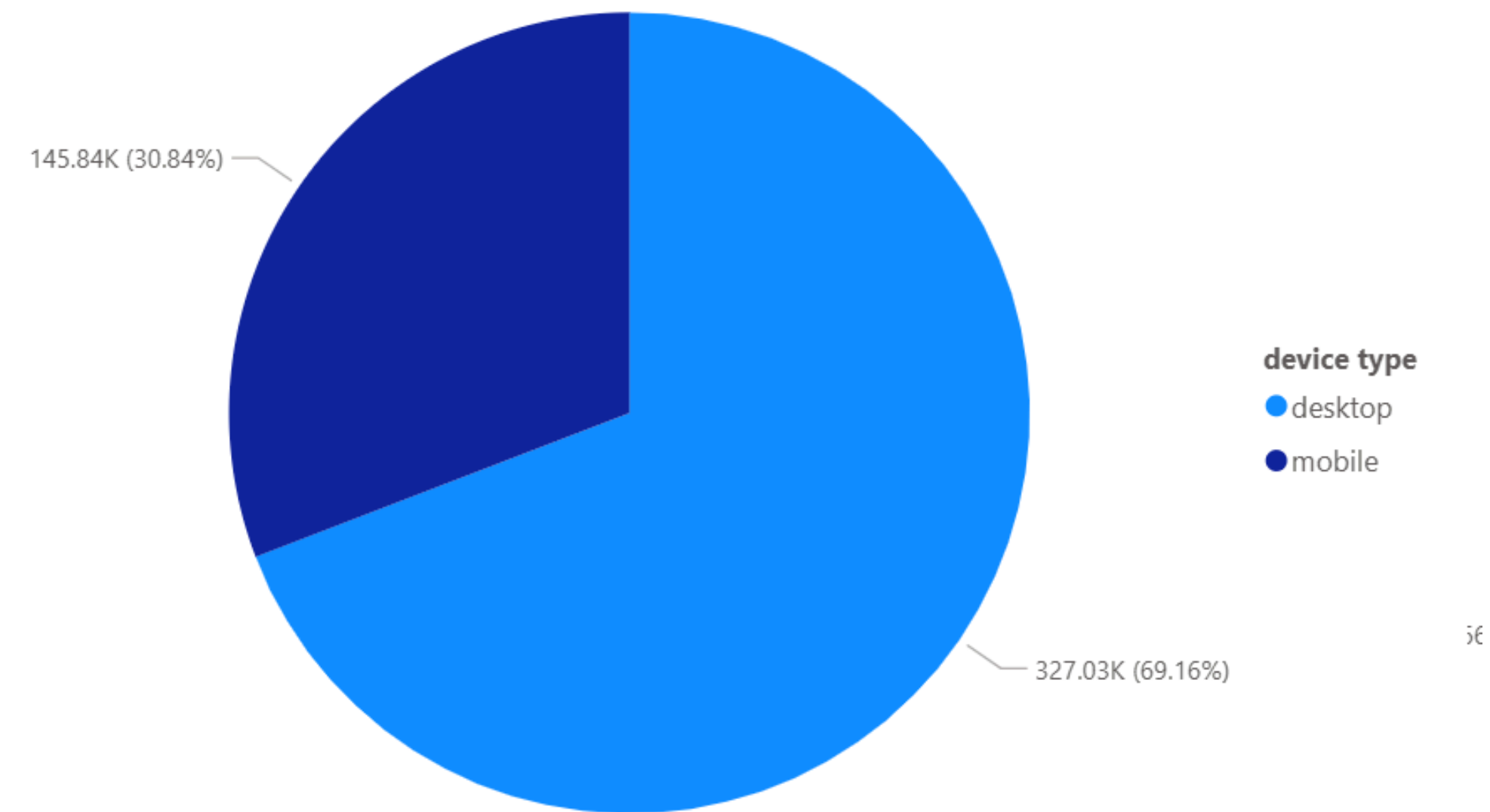
GOAL OF ANALYSIS

The goal is to identify profit contributors

**HOW DID CUSTOMERS GET
HERE?**

MARKETING PATTERNS AND RETENTION ISSUES

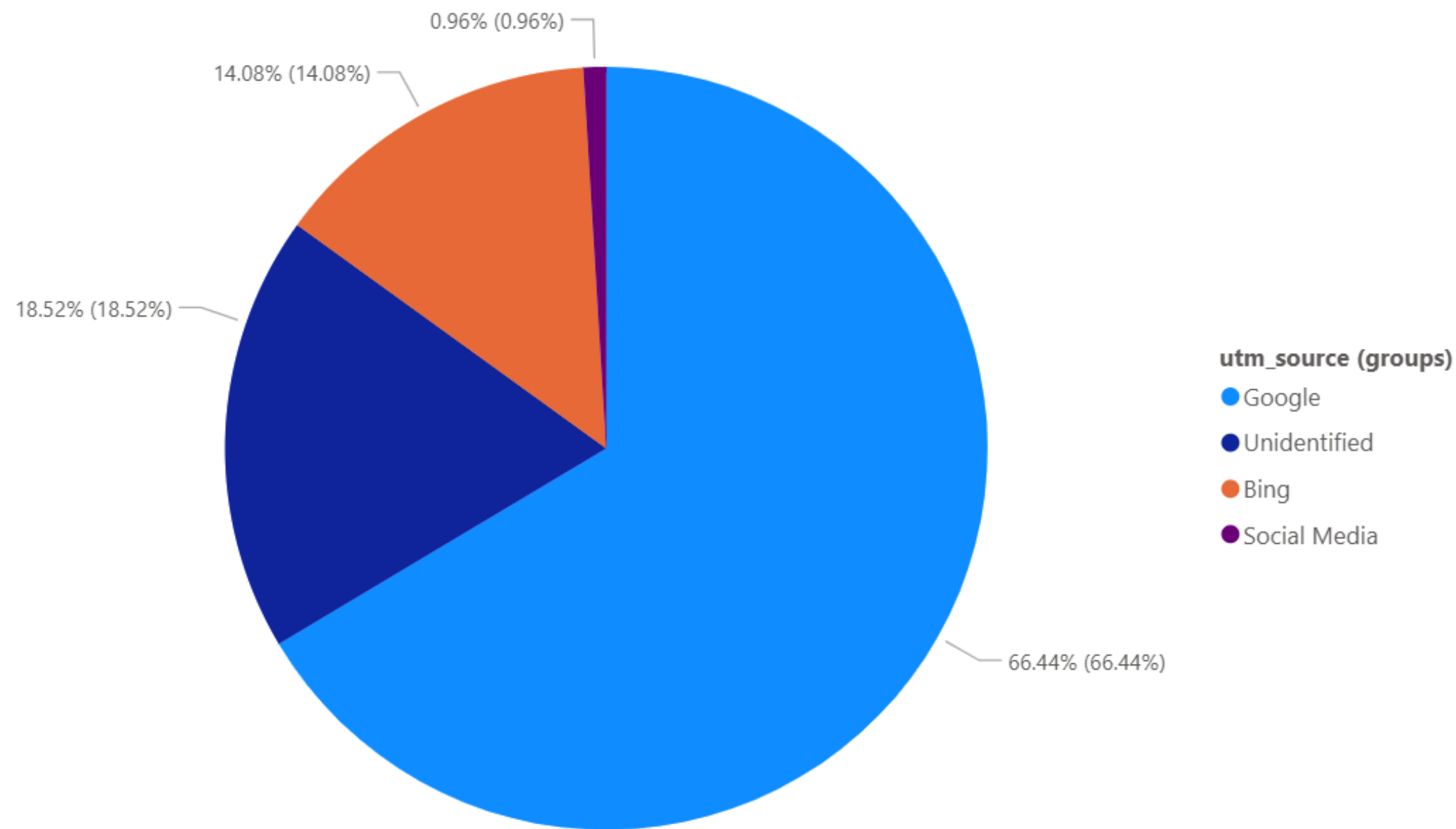
DEVICE



Global averages (2012–2015):

- Desktop: 88–59%
- Mobile: 11–35%

TRAFFIC SOURCE

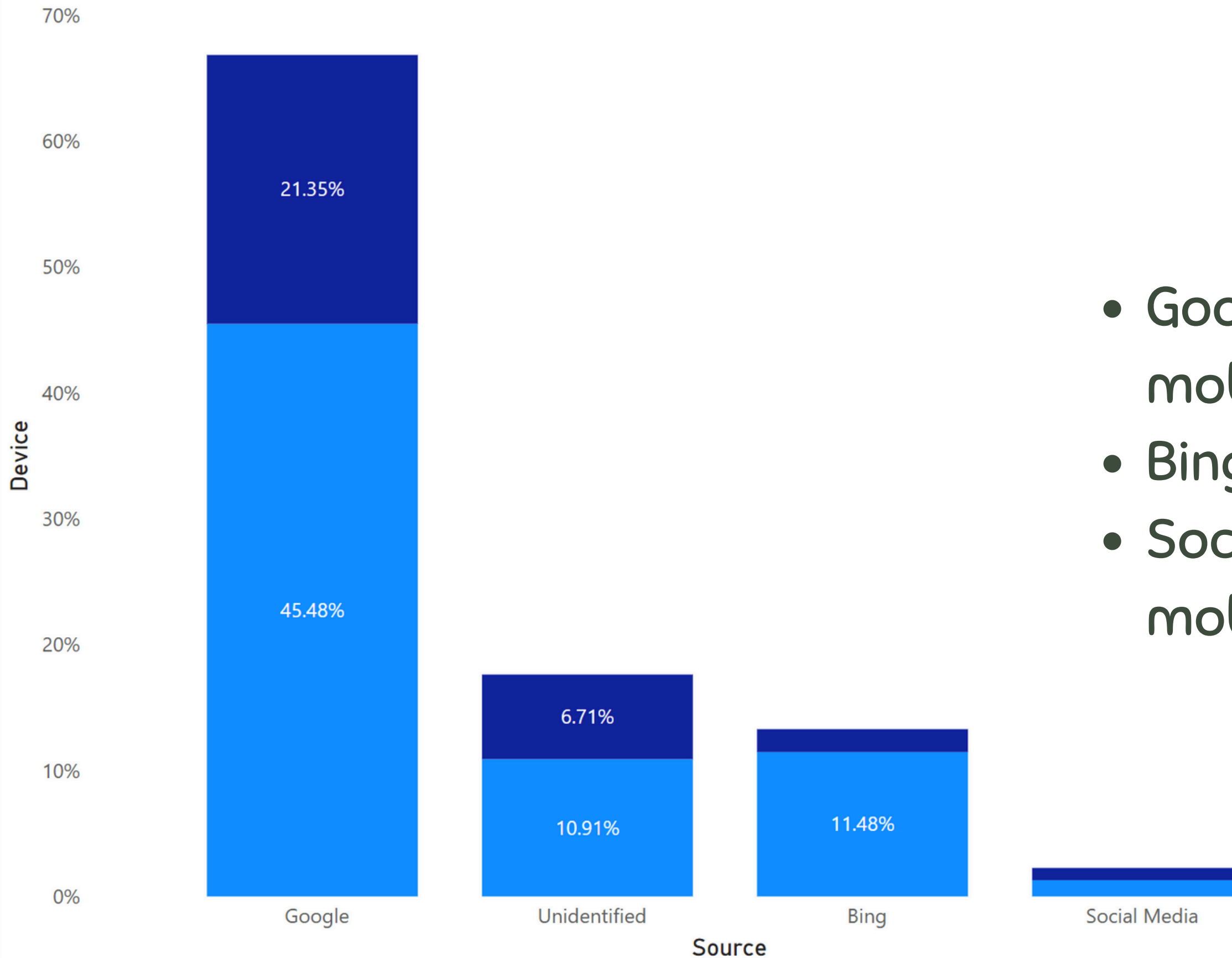


Highest: Google search
Global stats: 83% users (Google Search)

Lowest: Social Media (2012–2015)
Global average: approx 31.24%

TRAFFIC SOURCE

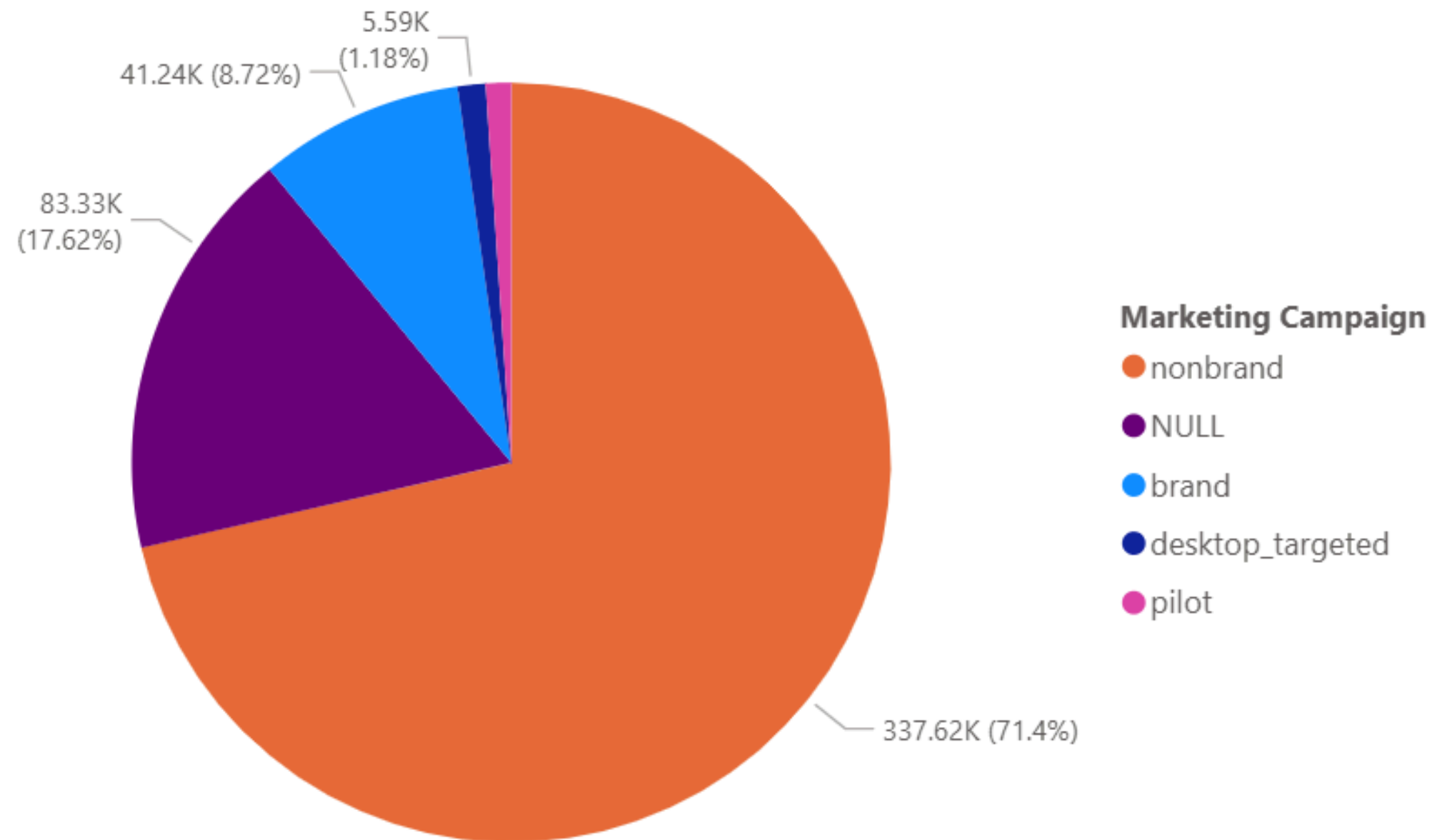
Type ● desktop ● mobile



Global stats (2012–2015)

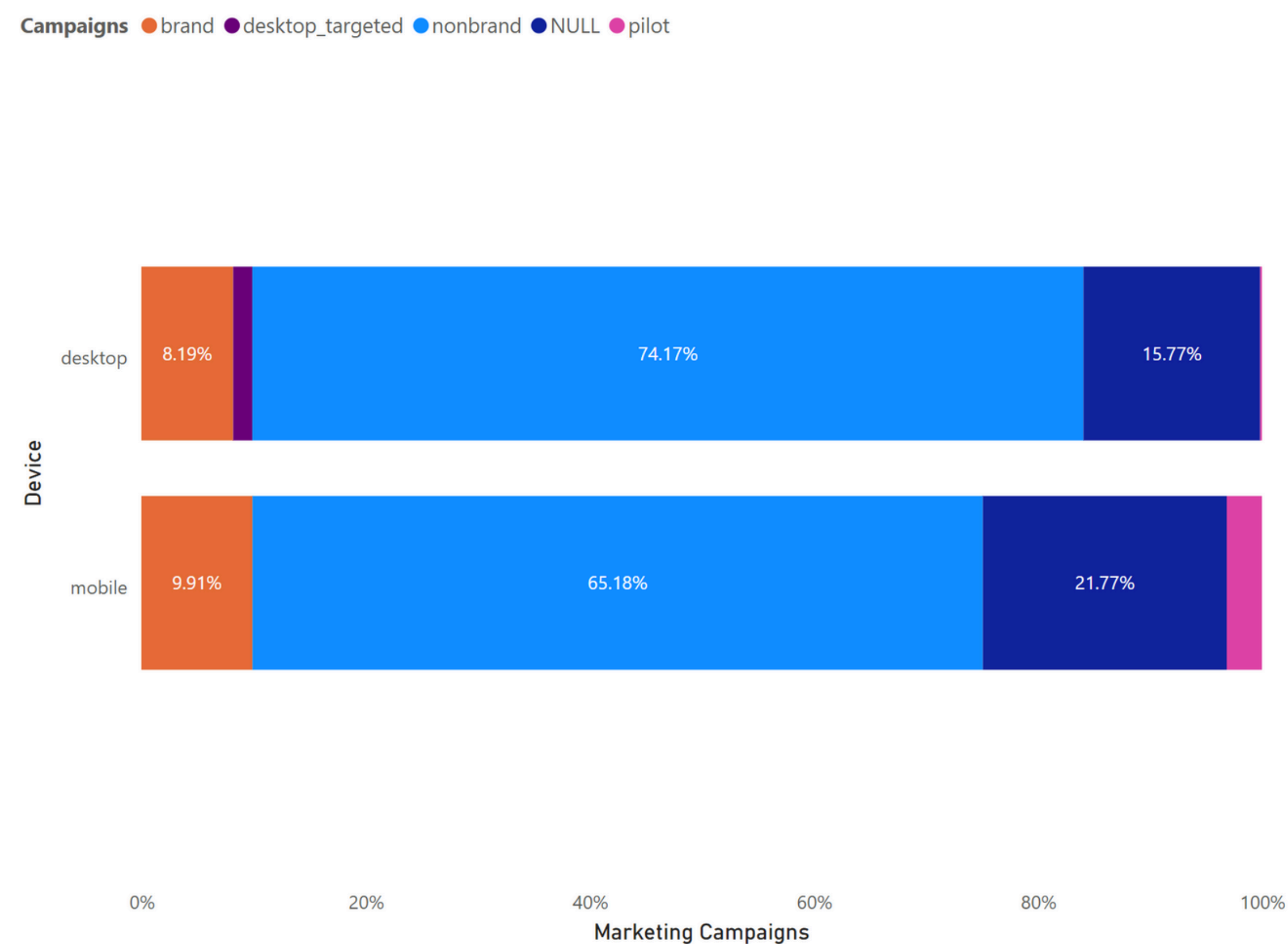
- Google: approx. 57% desktop; 43% mobiles
- Bing: 67% desktop; 33% mobile
- Social Media: 30–40% desktop; 60–70% mobile (2014–2015)

USER INTERACTIONS



- Higher acquisition-focused marketing
- Consequence: low-customer retention

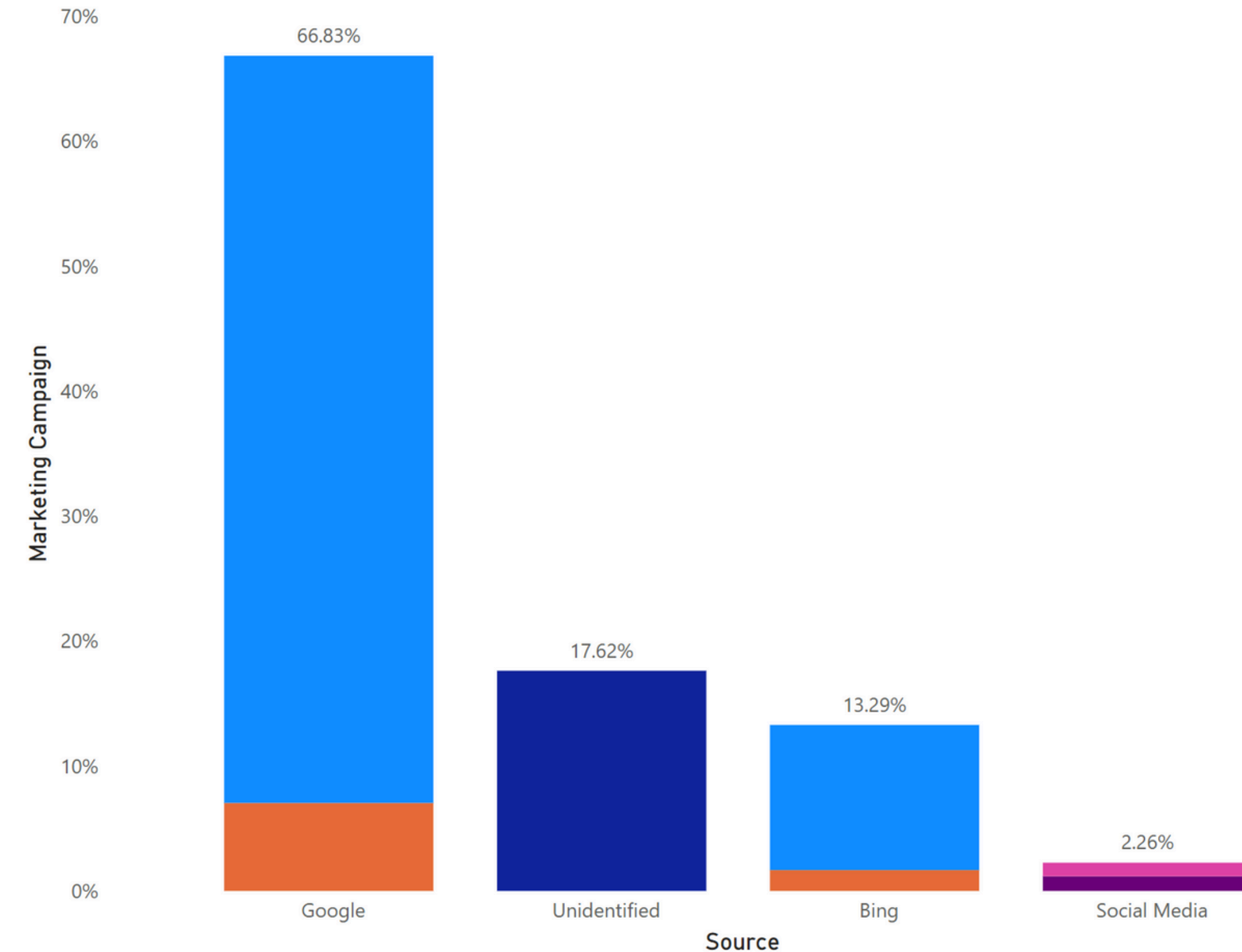
USER INTERACTIONS



- Pilot campaigns only generated mobile-based traffic.
- No significant differences in other campaigns.

USER INTERACTIONS

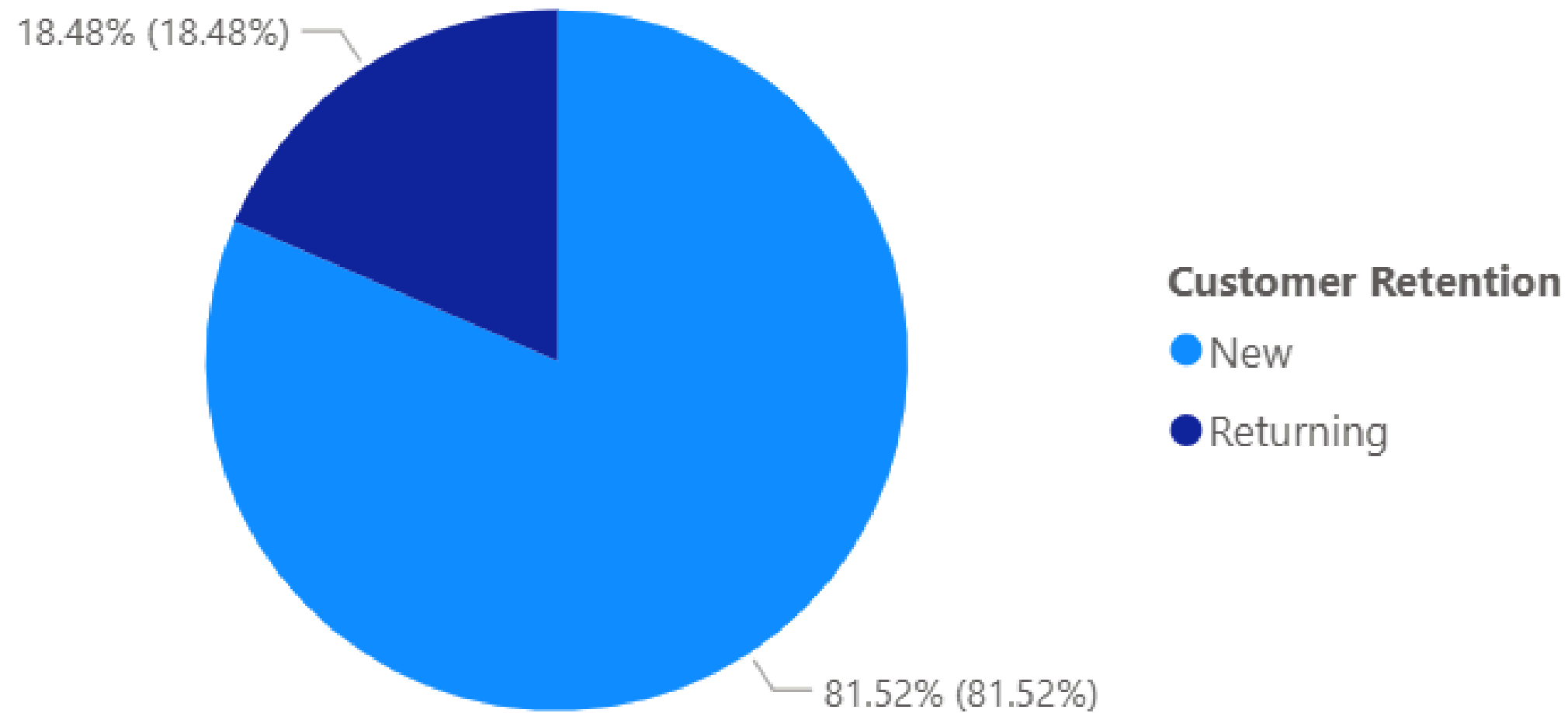
Campaign brand desktop_targeted nonbrand NULL pilot



- Search engines ran Non-brand and brand campaigns
- Social Media only runs pilot and desktop campaigns

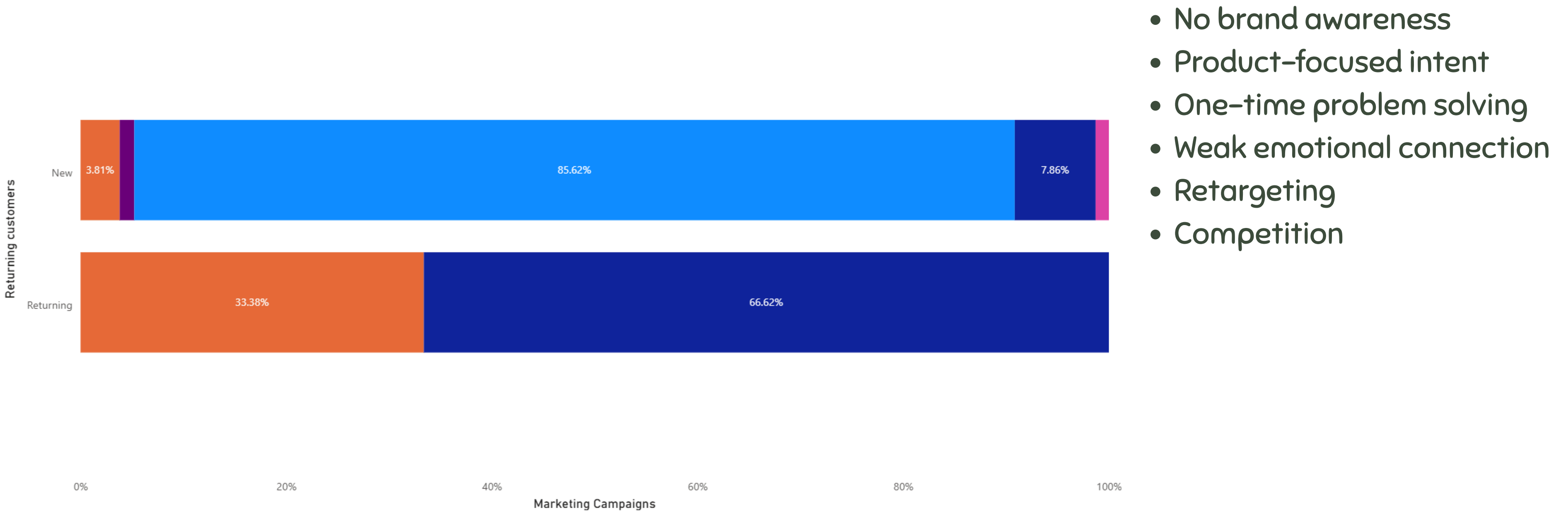
CUSTOMER RETENTION

Low customer retention= need for
different marketing strategies



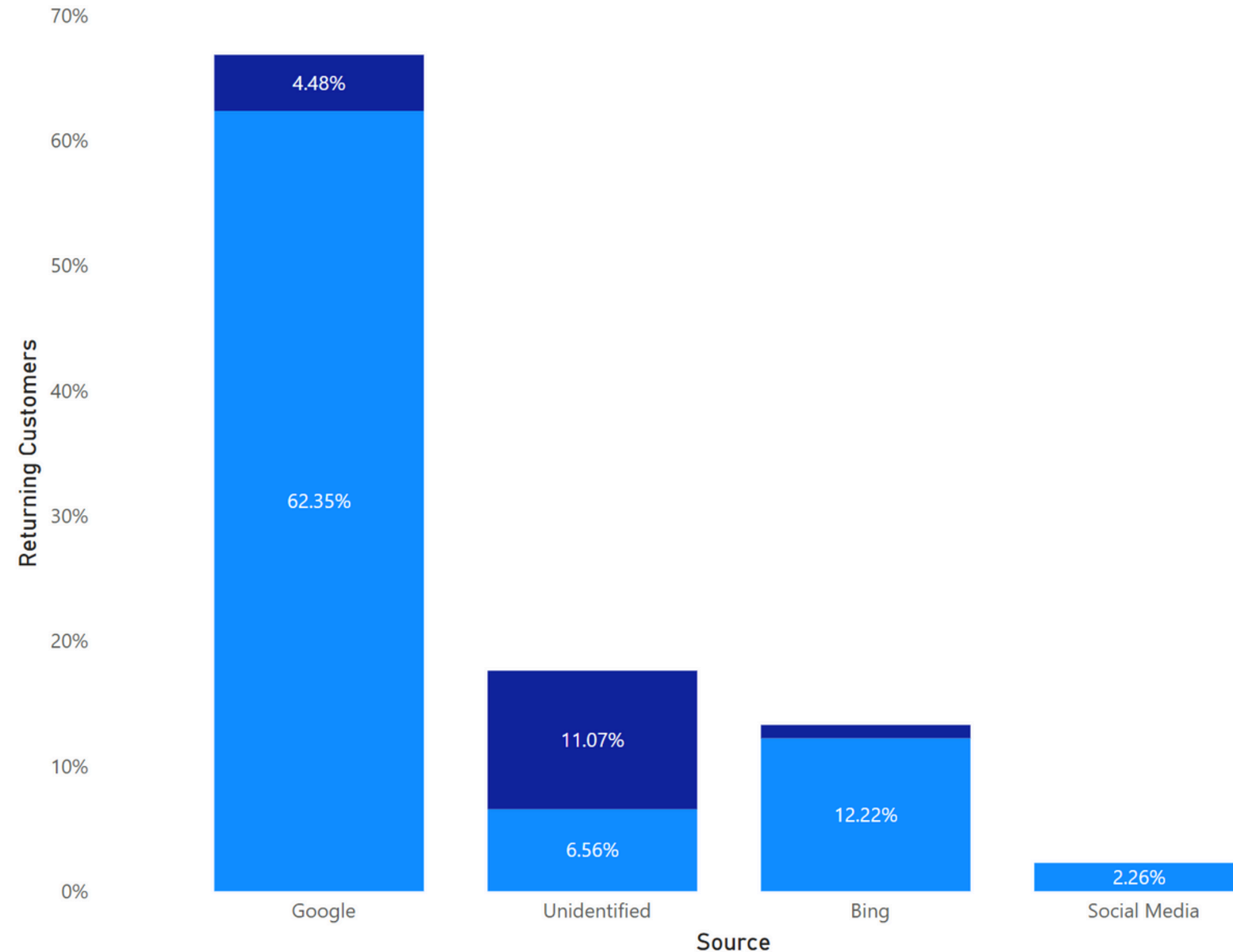
CUSTOMER RETENTION

Campaigns brand desktop_targeted nonbrand NULL pilot



CUSTOMER RETENTION

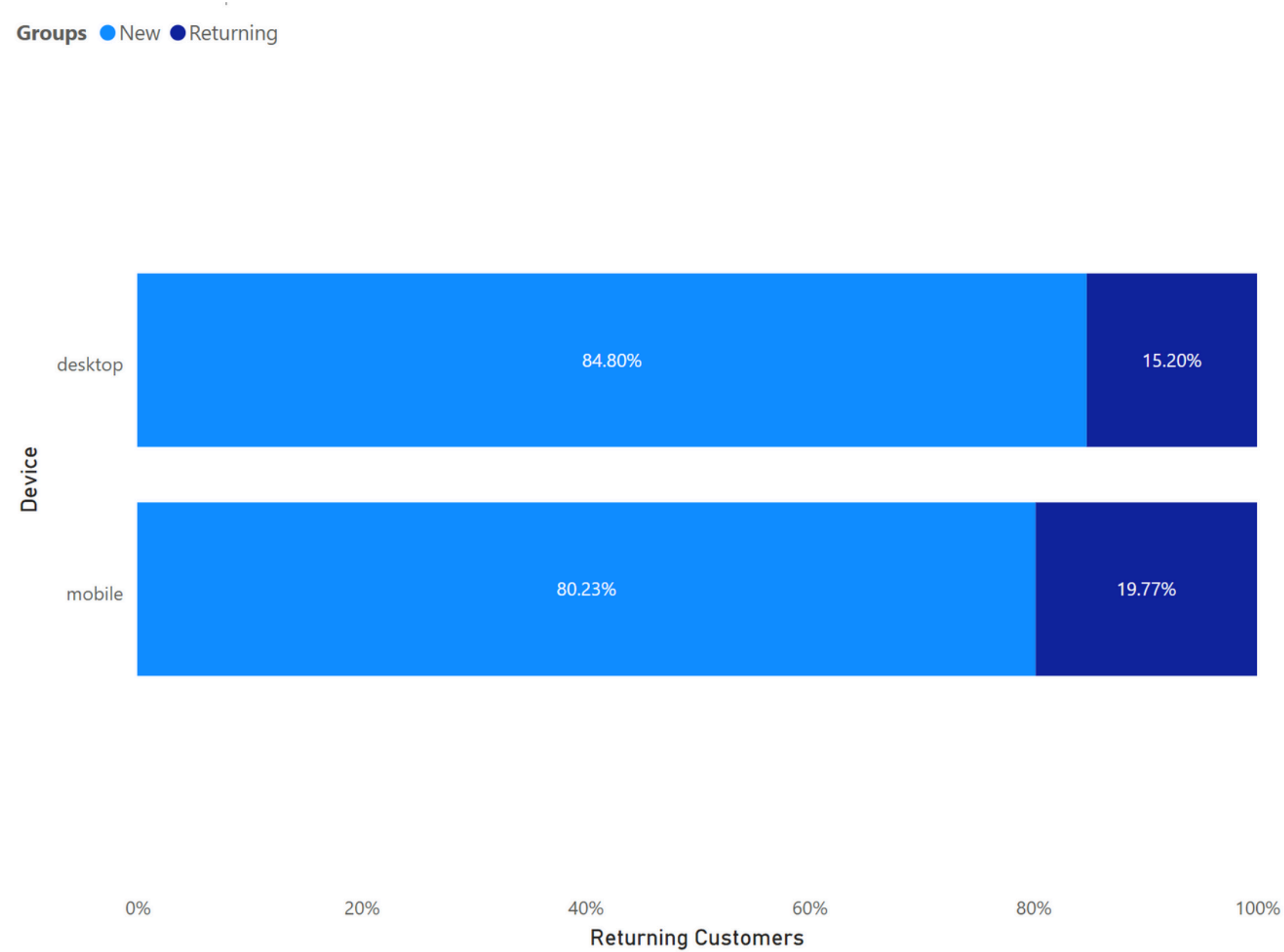
Groups ● New ● Returning



Search engines = New
Returning = Unidentified

Most non-brand campaigns ran on
search engines

CUSTOMER RETENTION



- No significant difference
- Reason: *Marketing strategies*
- Need of times: *Mobile Optimization*

Traffic Insights

- Google Search dominates; social media is lowest.
- Non-brand campaigns bring traffic but low retention.
- Desktop users lead, showing stronger engagement than mobile.

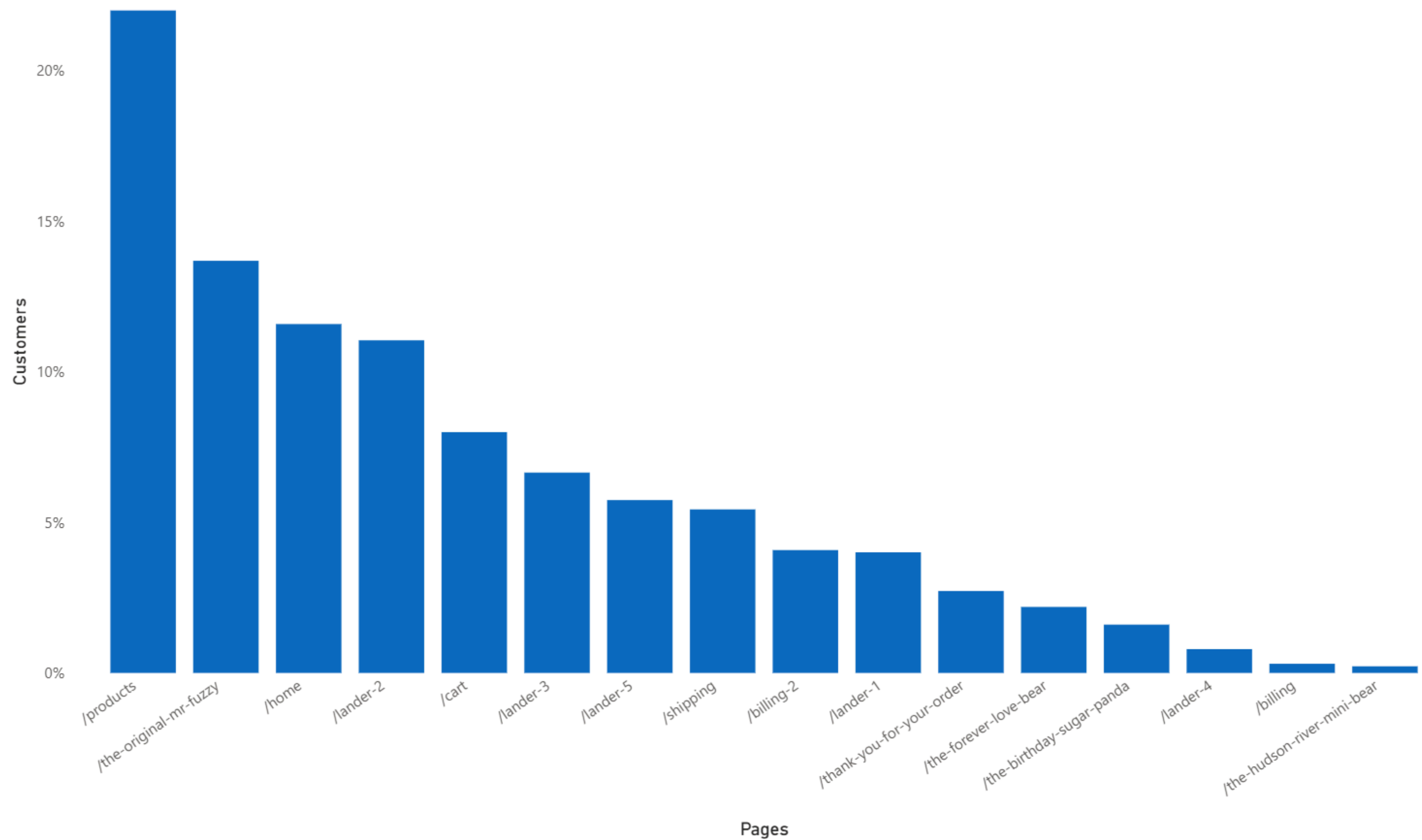
Recommendations:

- Post-purchase experience
- Loyalty programs
- Retargeting ads
- Social-Media and Product-based retention
- Personalization
- Mobile Optimization

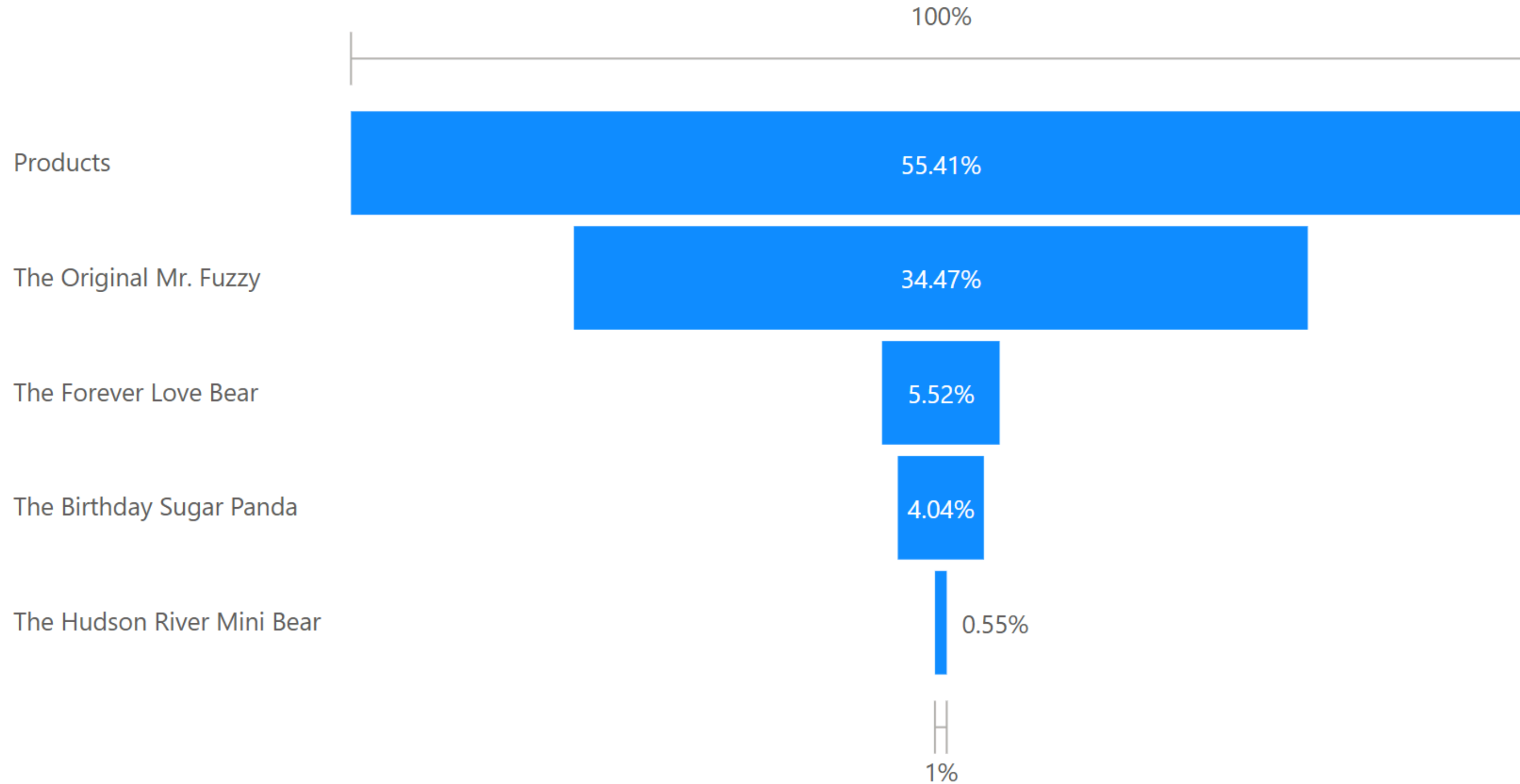
WHERE DID THEY GO?

CUSTOMER WEBSITE BEHAVIOR

WHAT USERS DO

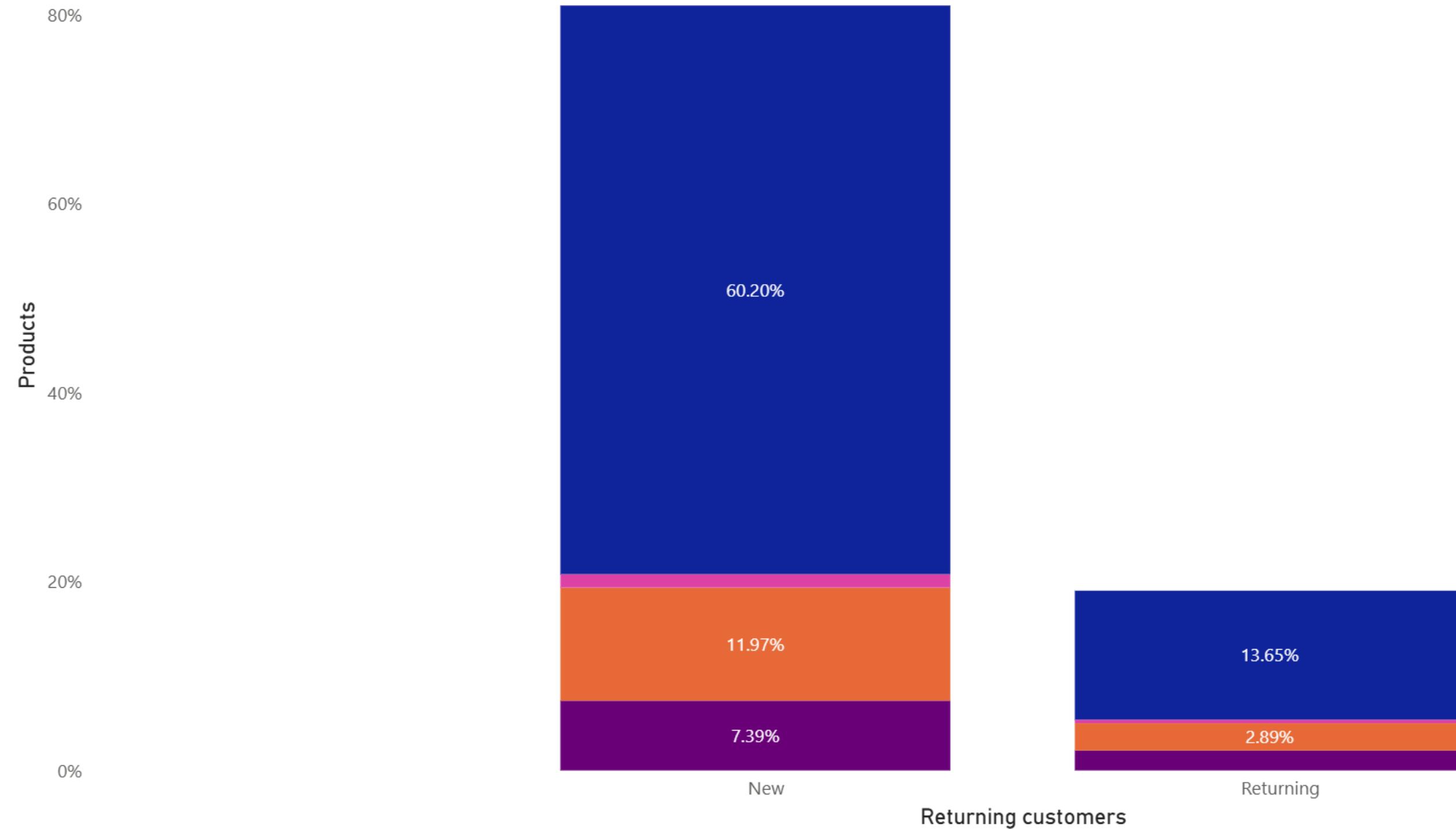


WHAT USERS DO



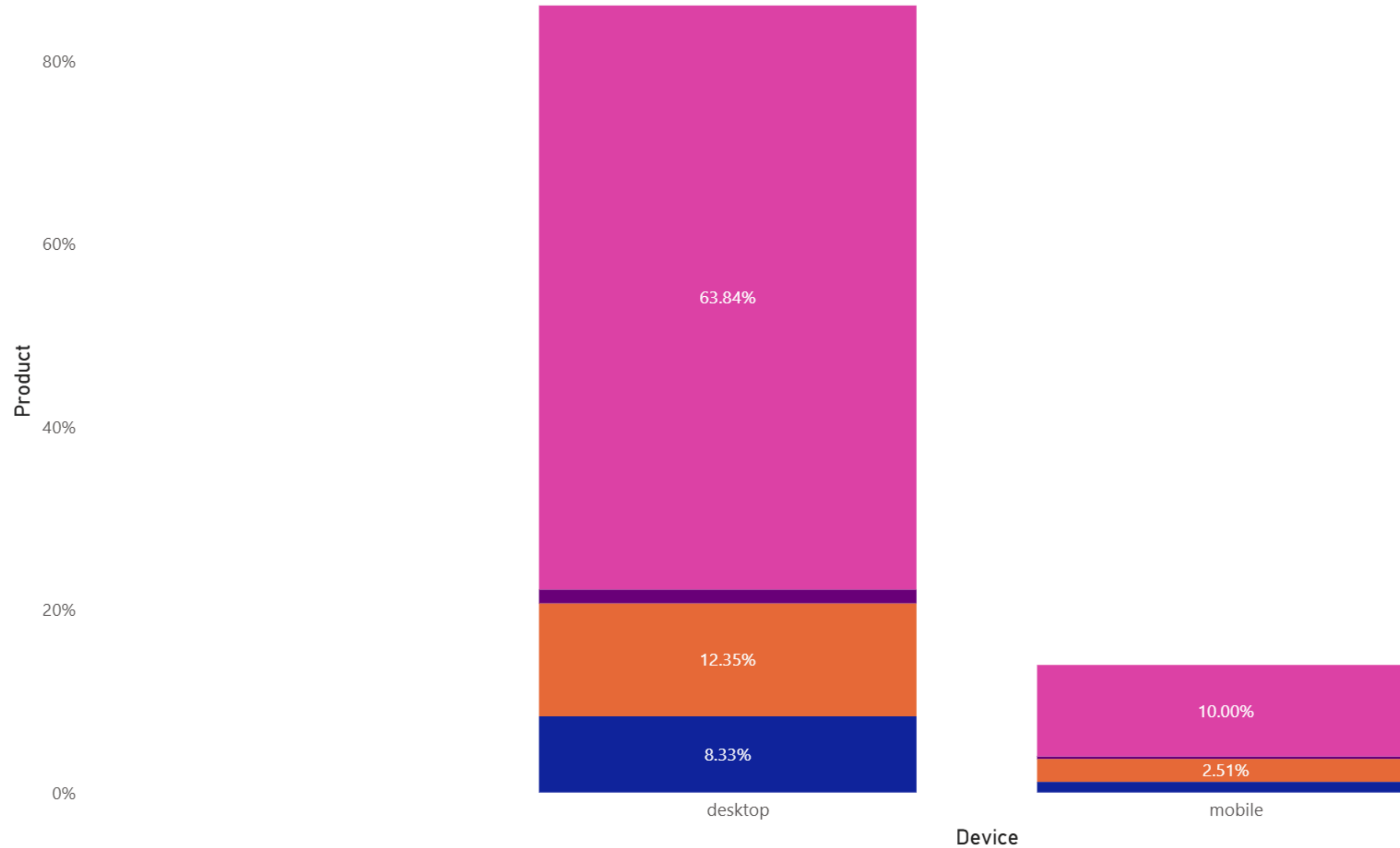
WHAT USERS DO

Groups ● The Birthday Sugar Panda ● The Forever Love Bear ● The Hudson River Mini Bear ● The Original Mr. Fuzzy



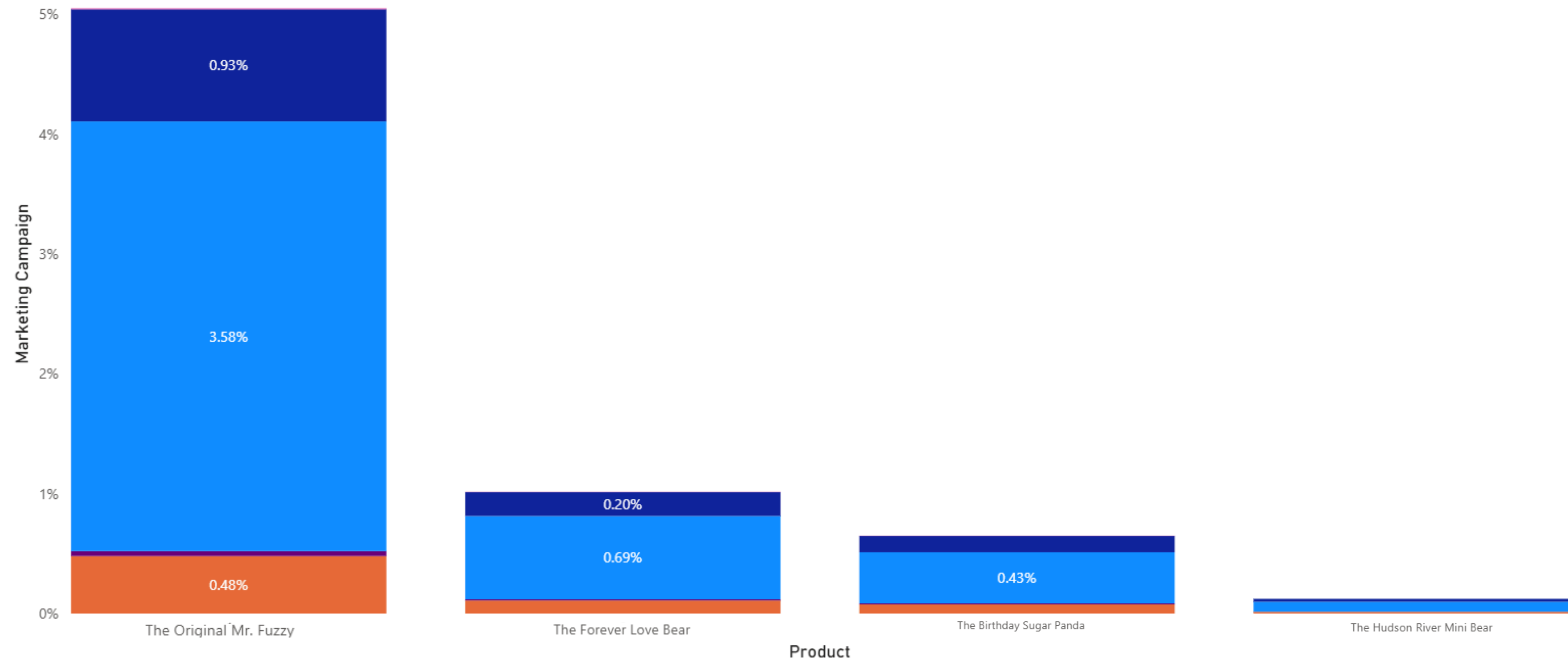
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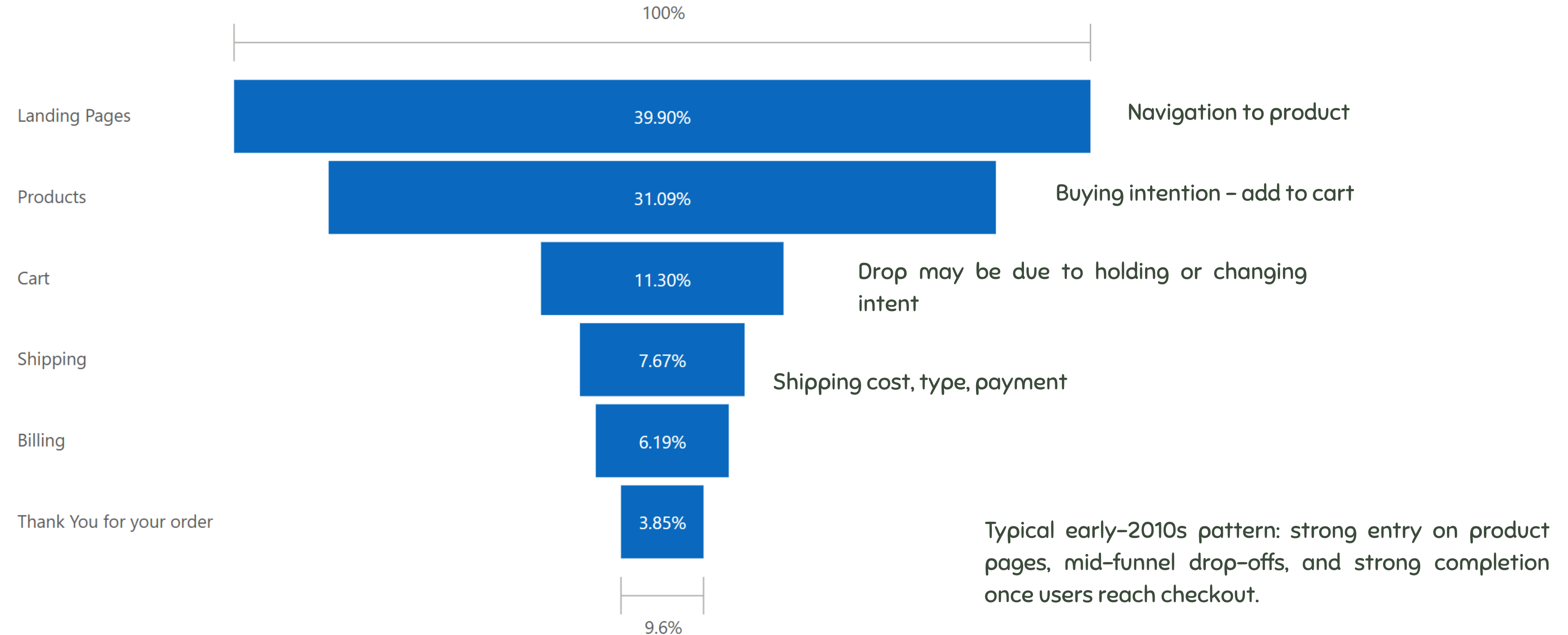


WHAT USERS DO

Campaign brand desktop_targeted nonbrand NULL pilot



USER JOURNEY



CONVERSION RATE

Total Sessions

472.871K

Orders

32.313K

Conversion rate: 6.83%

Global average (2012–2015): 1–4%

Toys and Gift Items (2012–2015): 2–3.5%

Behavior Insights

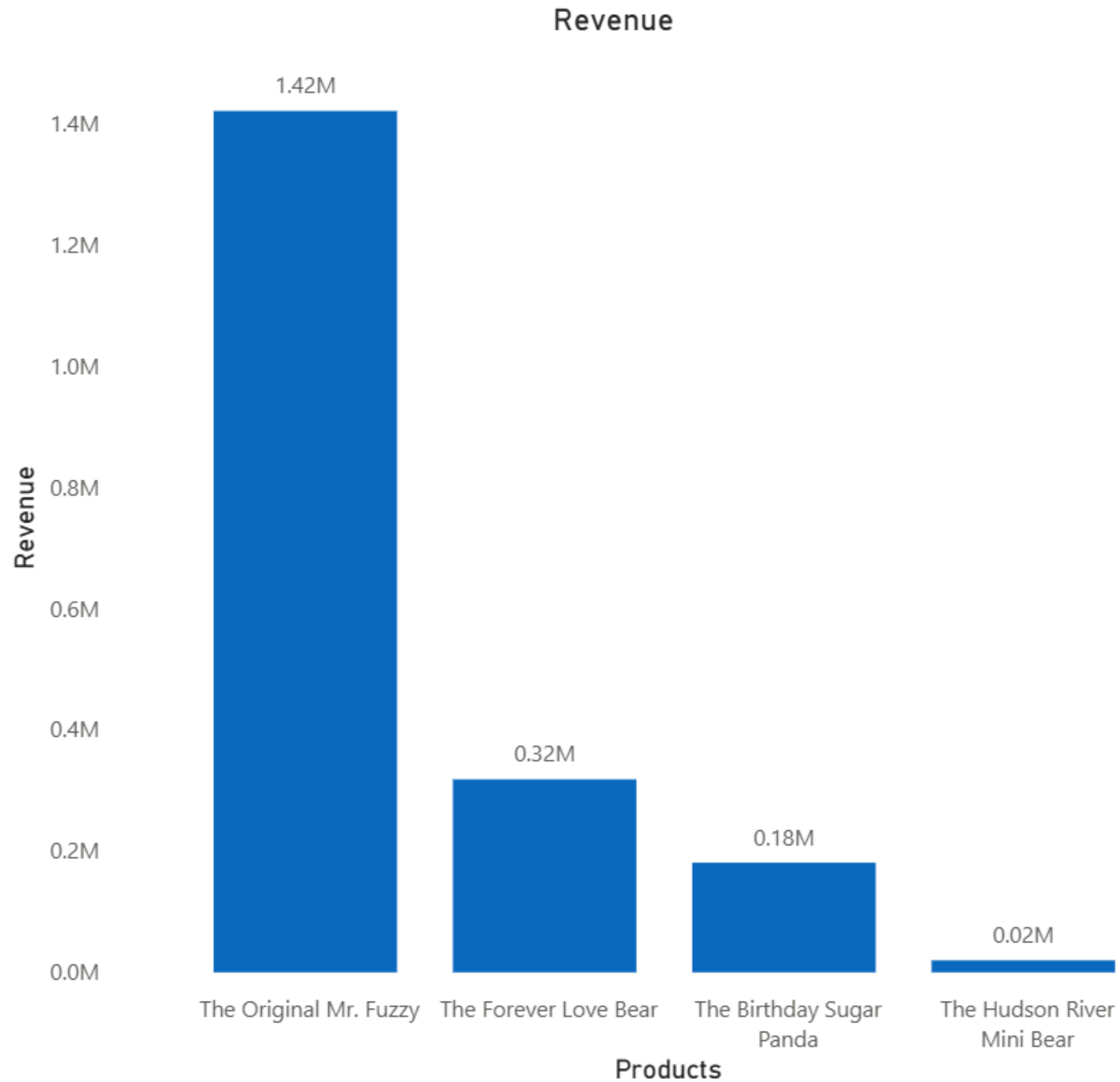
- Top pages: Product page (esp. Mr. Fuzzy), Home, and Landing Page 2.
- Lowest: Hudson River Mini Bear page.
- Product trends = Marketing trends
- Conversion rate: 6.83% (well above global 1–4%).

Overall: Product pages drive intent

**WHAT WERE THE
OUTCOMES?**

PROFITABILITY AND COSTS

REVENUE



1st: The Original Mr. Fuzzy (\$49.99)

2nd: The Forever Love Bear (\$59.99)

3rd: The Birthday Sugar Panda (\$45.99)

4th: The Hudson River Mini Bear (\$29.99)

REFUNDS

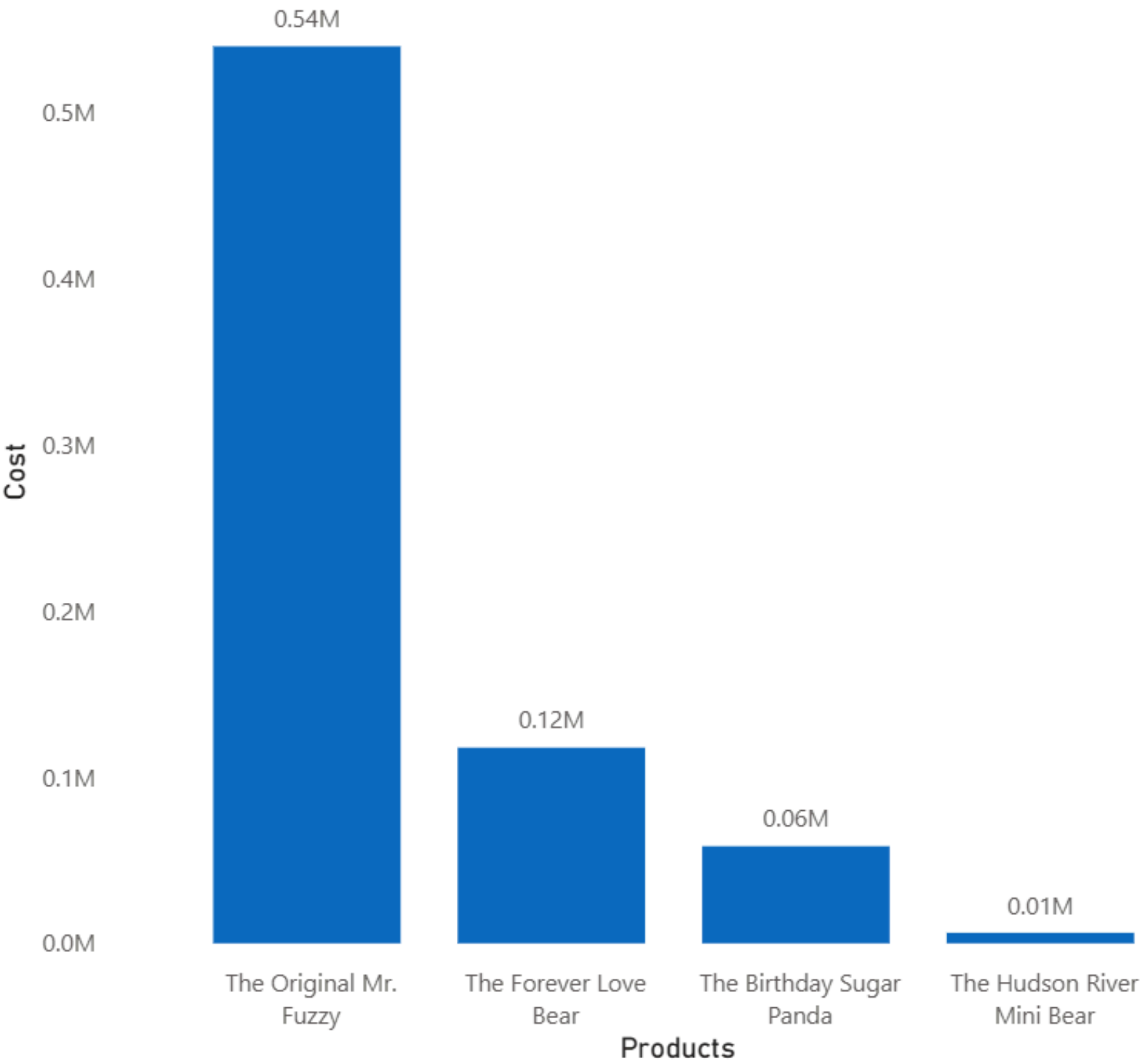


The Original Mr. Fuzzy: 4.3%
Total refund rate: 4.40%.

Global average: 15–30% (Google Search)

MANUFACTURING

Cost of Products



The Original Mr. Fuzzy: \$19.49
The Forever Love Bear: \$22.49
The Birthday Sugar Panda: \$23.98
The Hudson River Mini Bear: \$9.49

REVENUE DRIVERS SUMMARY

- Mr. Fuzzy: Top seller, strong margins despite higher COGS and refunds (below global averages).
- Mid-tier products: Steady performance; monitor costs.
- Mini Bear: Low demand and low risk, but minimal growth.

Overall: Prioritize Mr. Fuzzy, optimize mid-tier, reconsider Mini Bear strategy.

CONCLUSION AND RECOMMENDATIONS

- Mr. Fuzzy – top-performing, profitable product,
- Mini Bear – low demand.
- Low retention.
- Focus: Optimizing Mr. Fuzzy, improving retention and mobile experience, and reassessing the Mini Bear.