

# 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.

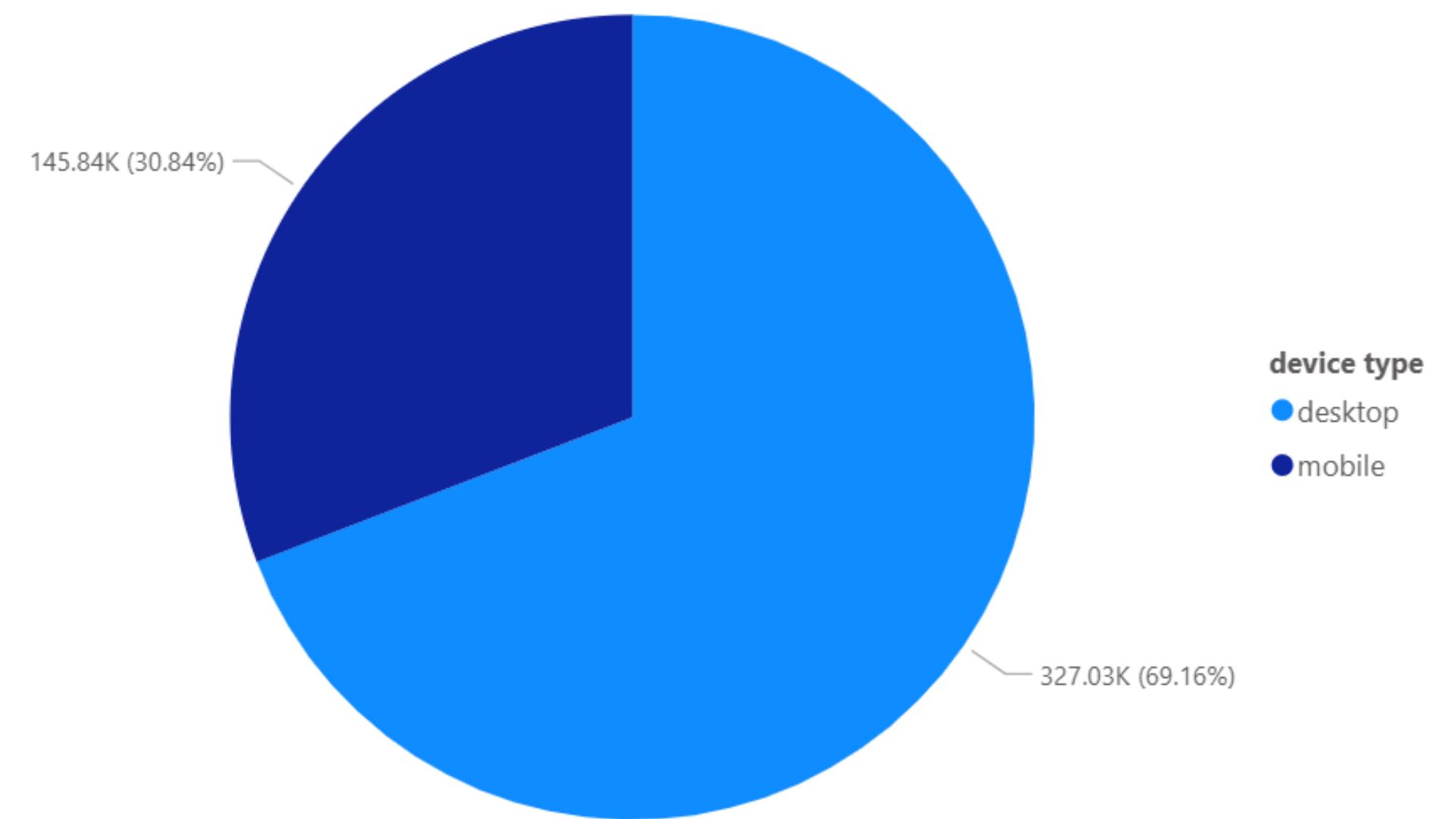
# **GOAL OF ANALYSIS**

The goal is to identify profit contributors

**HOW DID CUSTOMERS GET  
HERE?**

# **MARKETING PATTERNS AND RETENTION ISSUES**

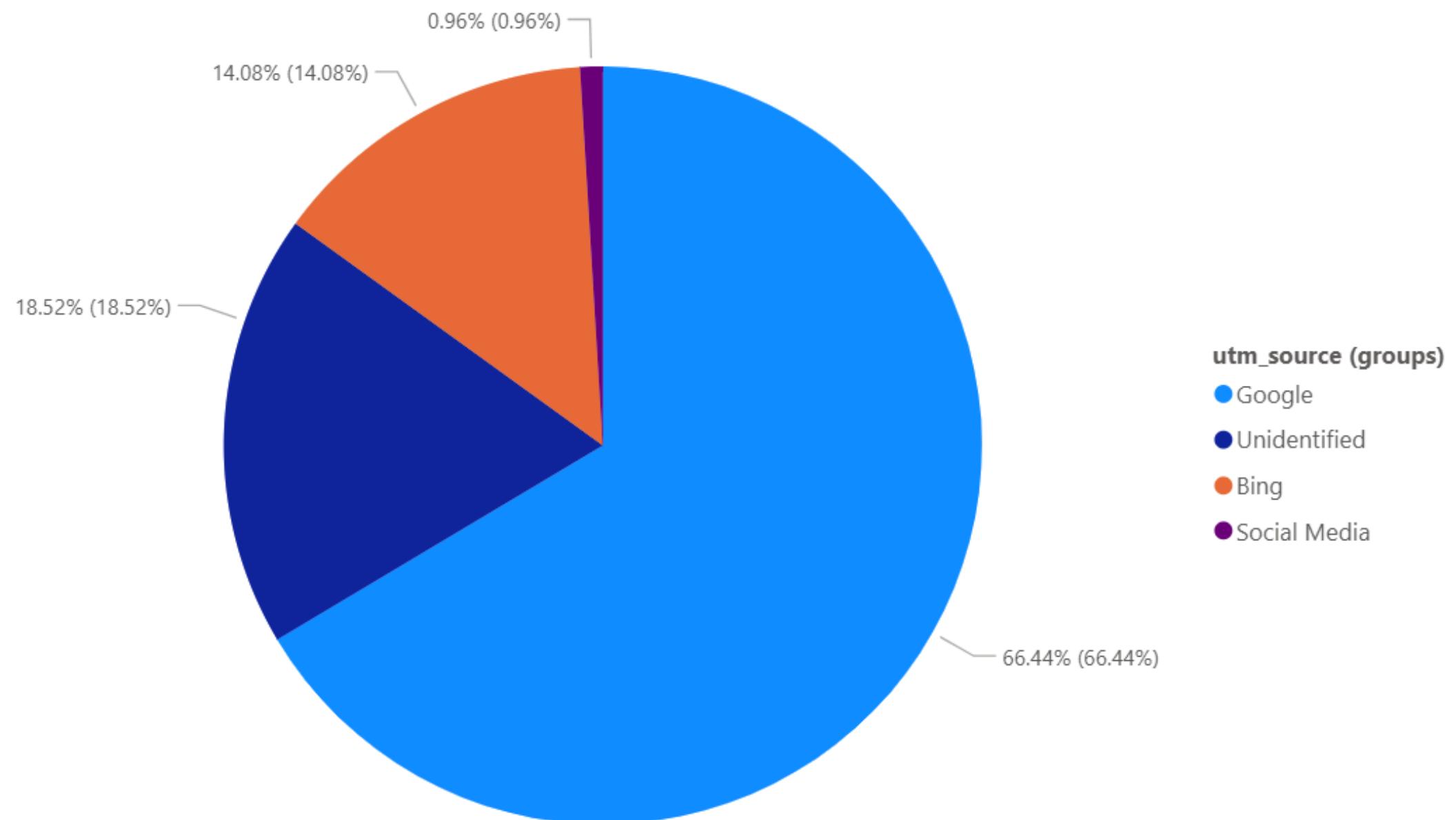
# DEVICE



Global averages (2012–2015):

- Desktop: 88–59%
- Mobile: 11–35%

# TRAFFIC SOURCE

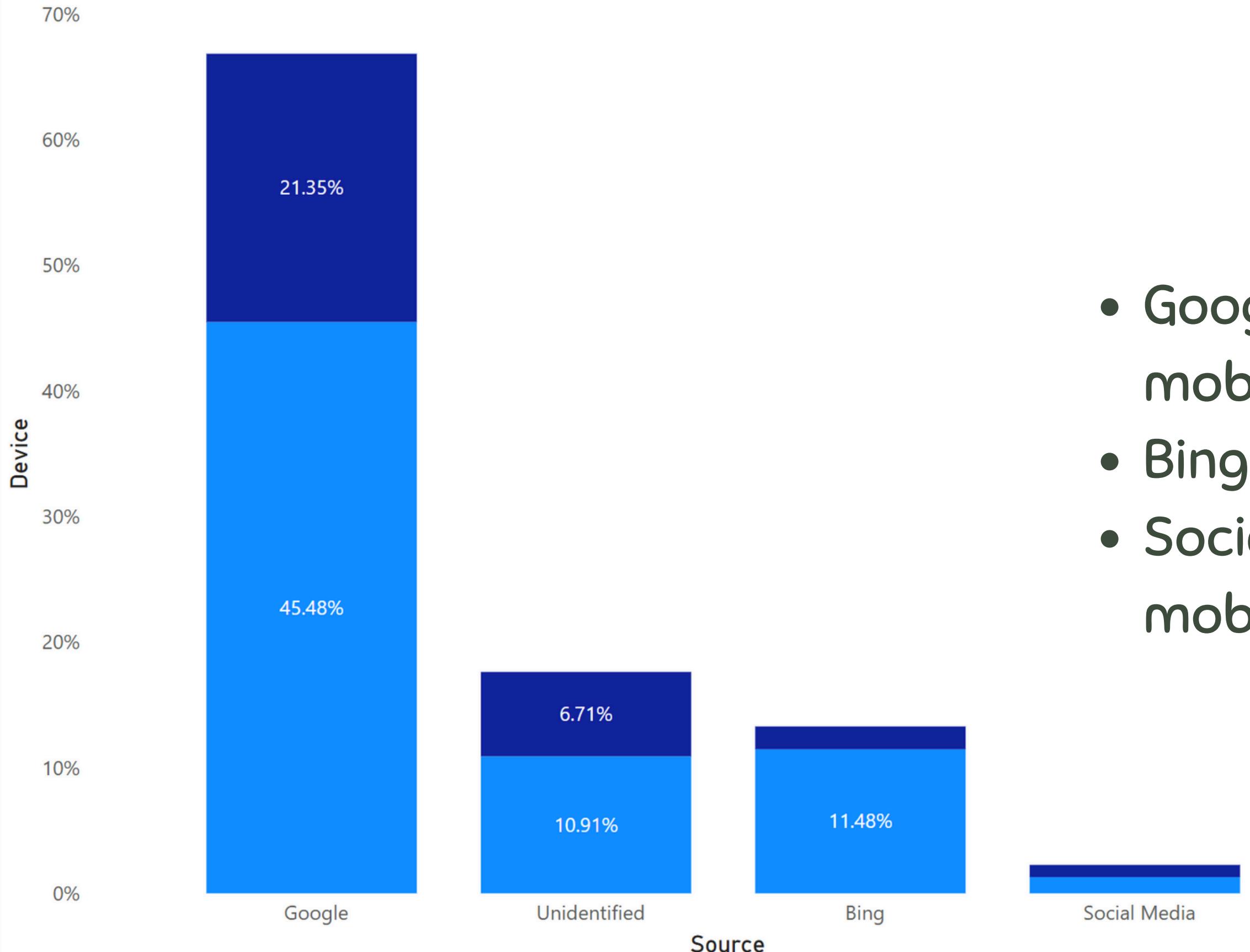


Highest: Google search  
Global stats: 83% users (Google Search)

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

# TRAFFIC SOURCE

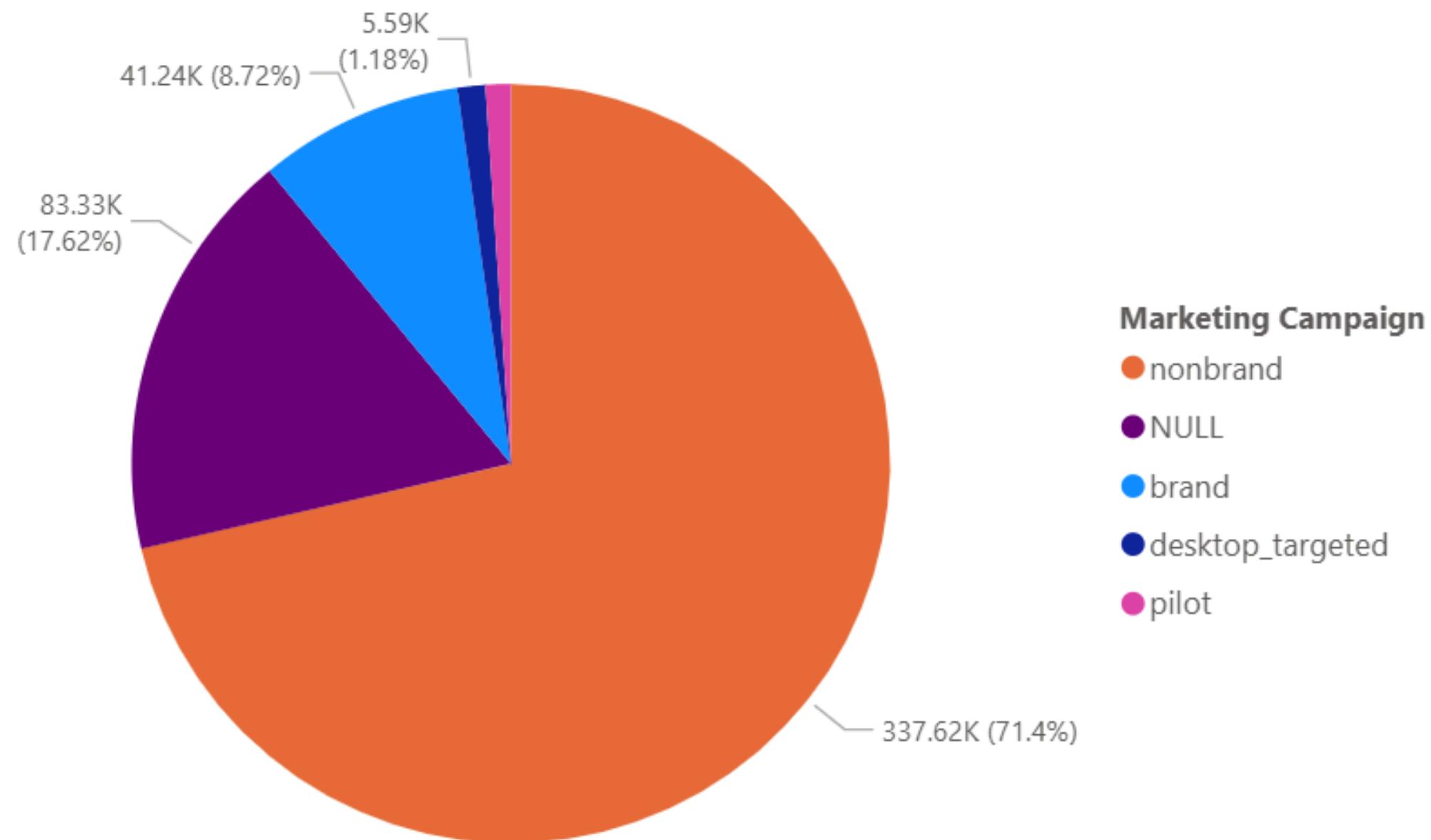
Type ● desktop ● mobile



Global stats (2012-2015)

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

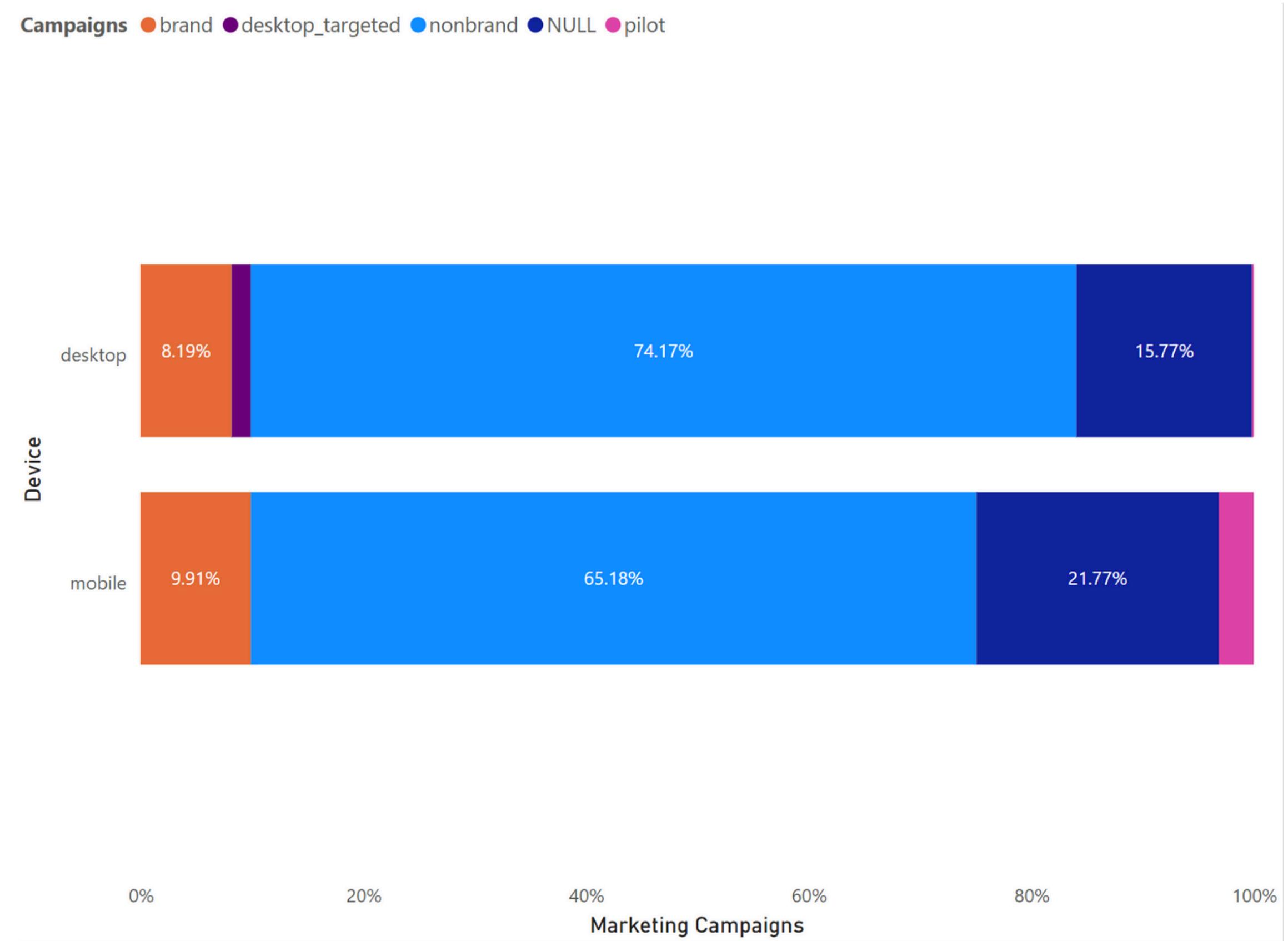
# USER INTERACTIONS



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

# USER INTERACTIONS

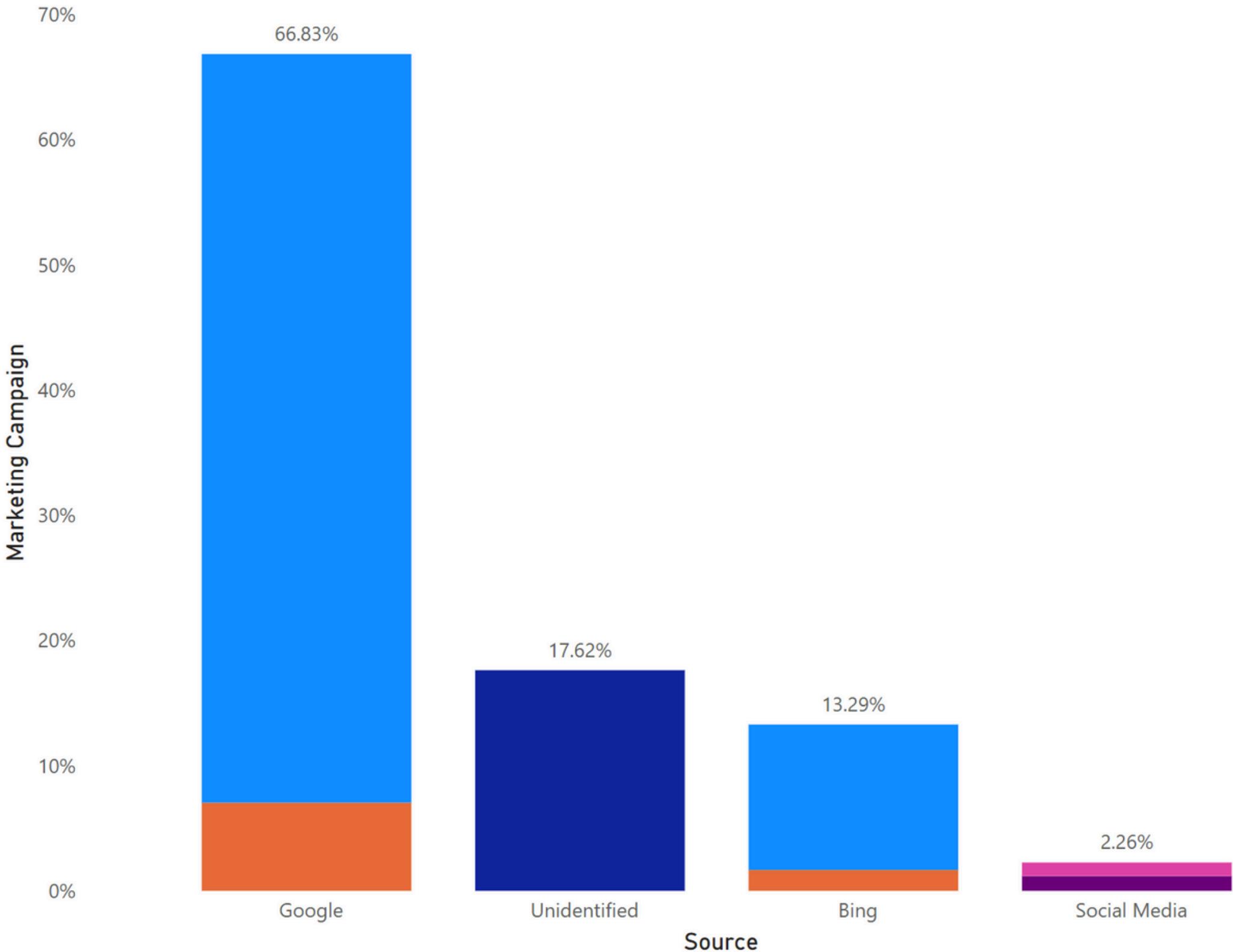
Campaigns ● brand ● desktop\_targeted ● nonbrand ● NULL ● pilot



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

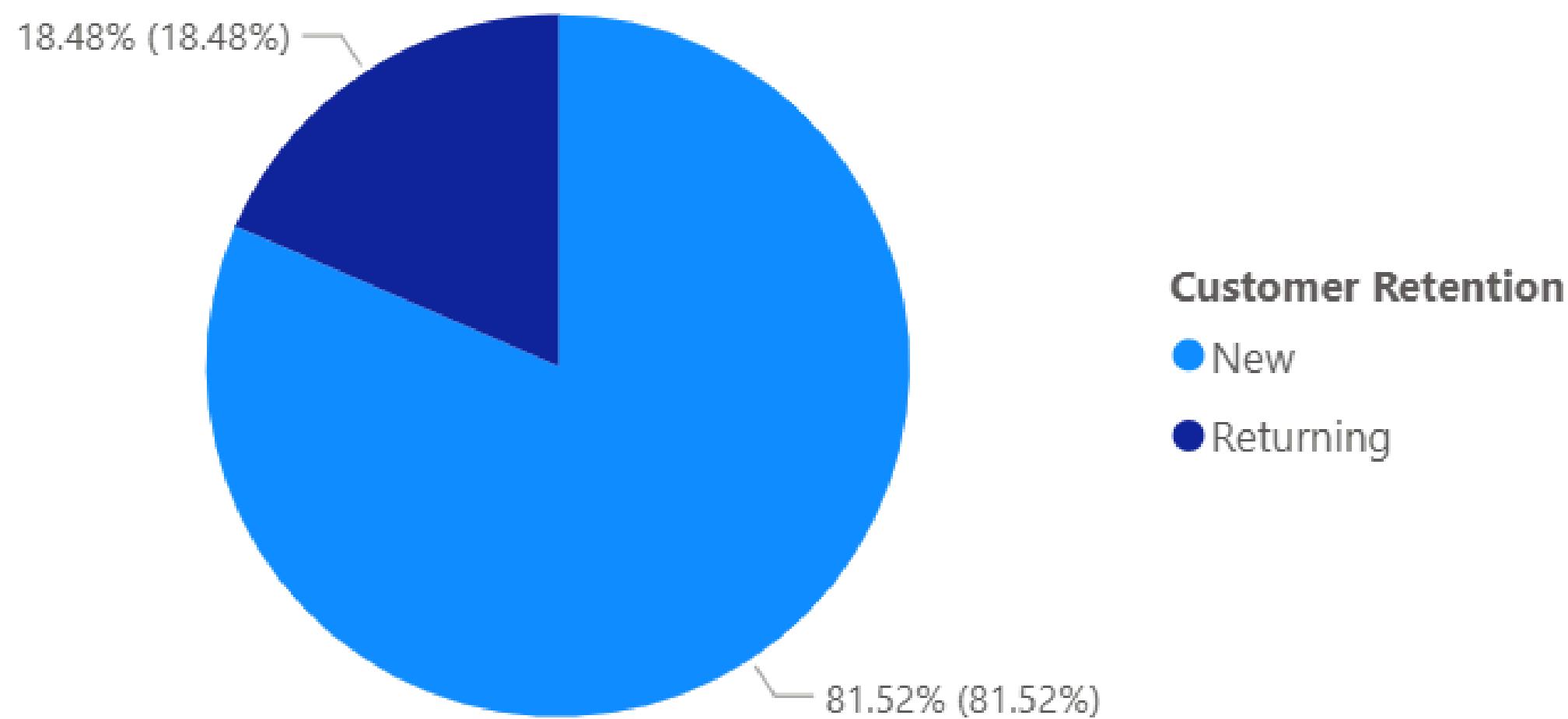
# USER INTERACTIONS

Campaign ● brand ● desktop\_targeted ● nonbrand ● NULL ● pilot



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

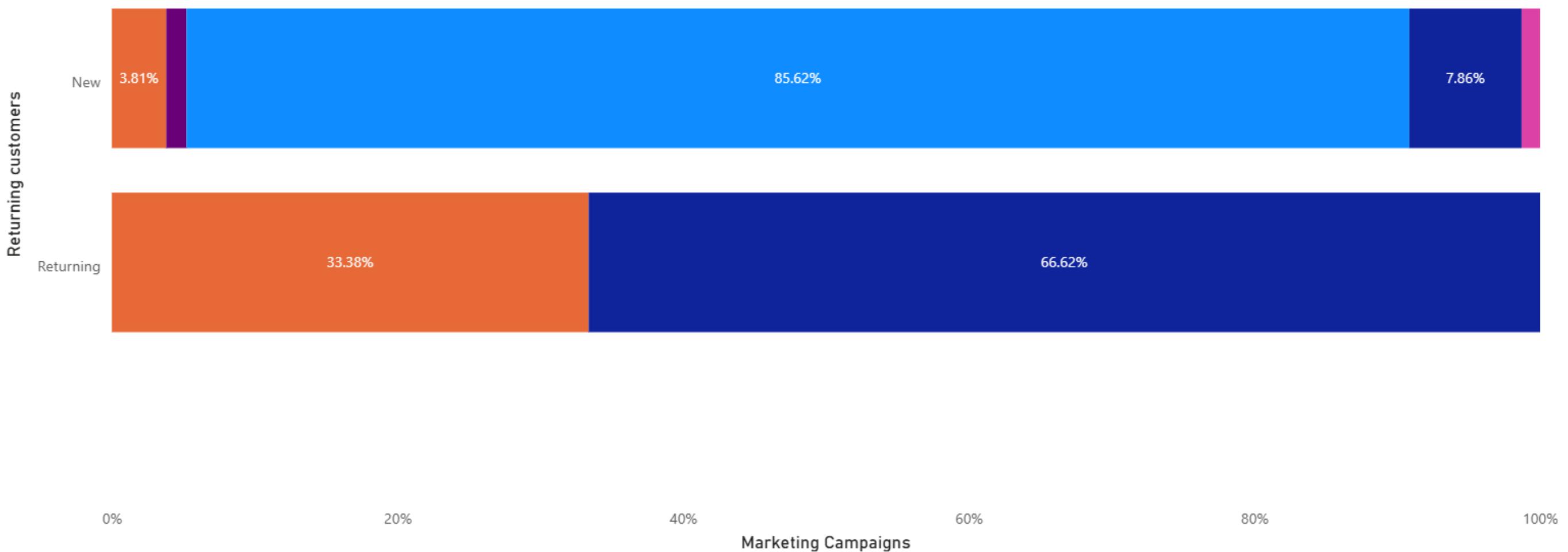
# CUSTOMER RETENTION



Low customer retention= need for different marketing strategies

# CUSTOMER RETENTION

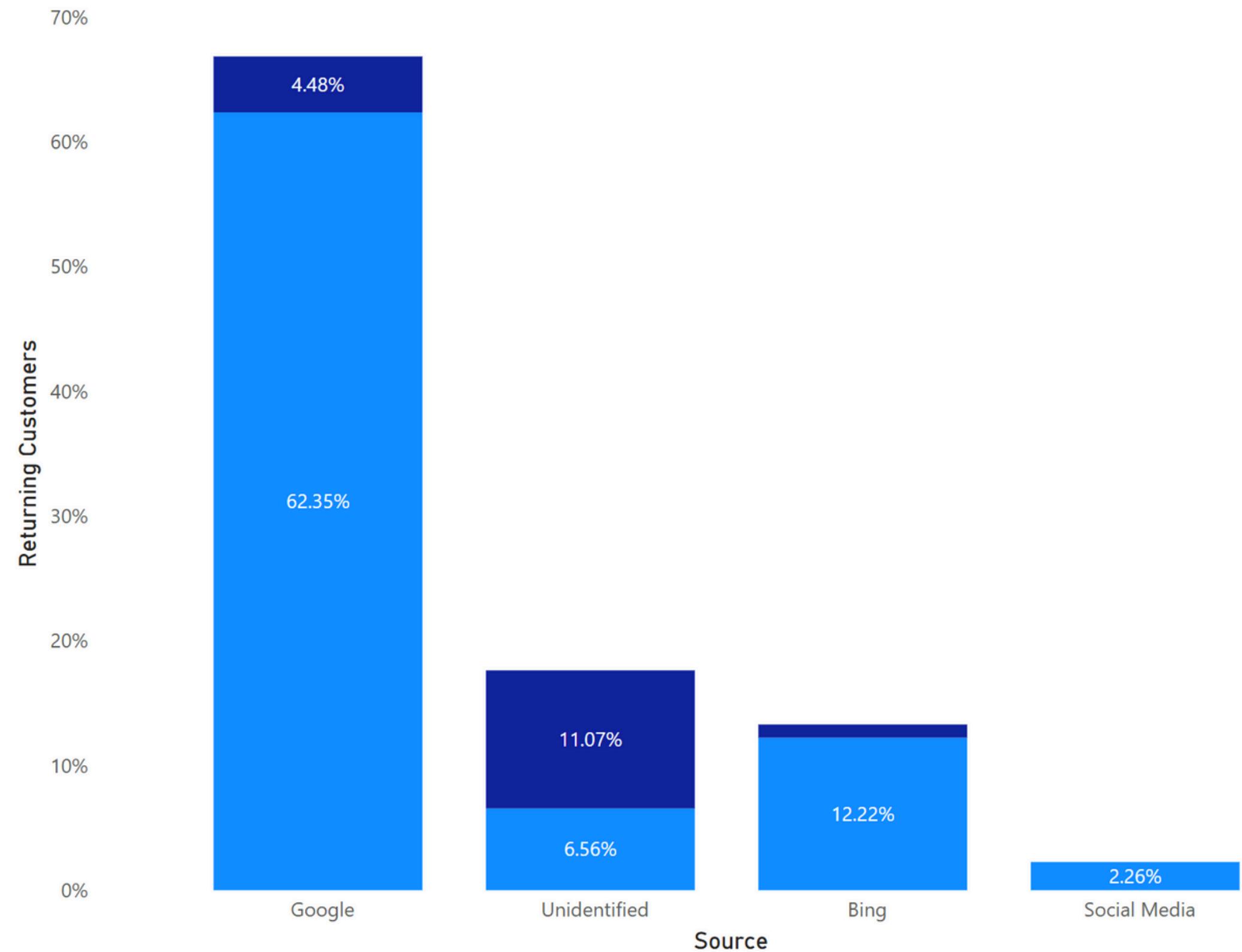
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- No brand awareness
- Product-focused intent
- One-time problem solving
- Weak emotional connection
- Retargeting
- Competition

# CUSTOMER RETENTION

Groups ● New ● Returning

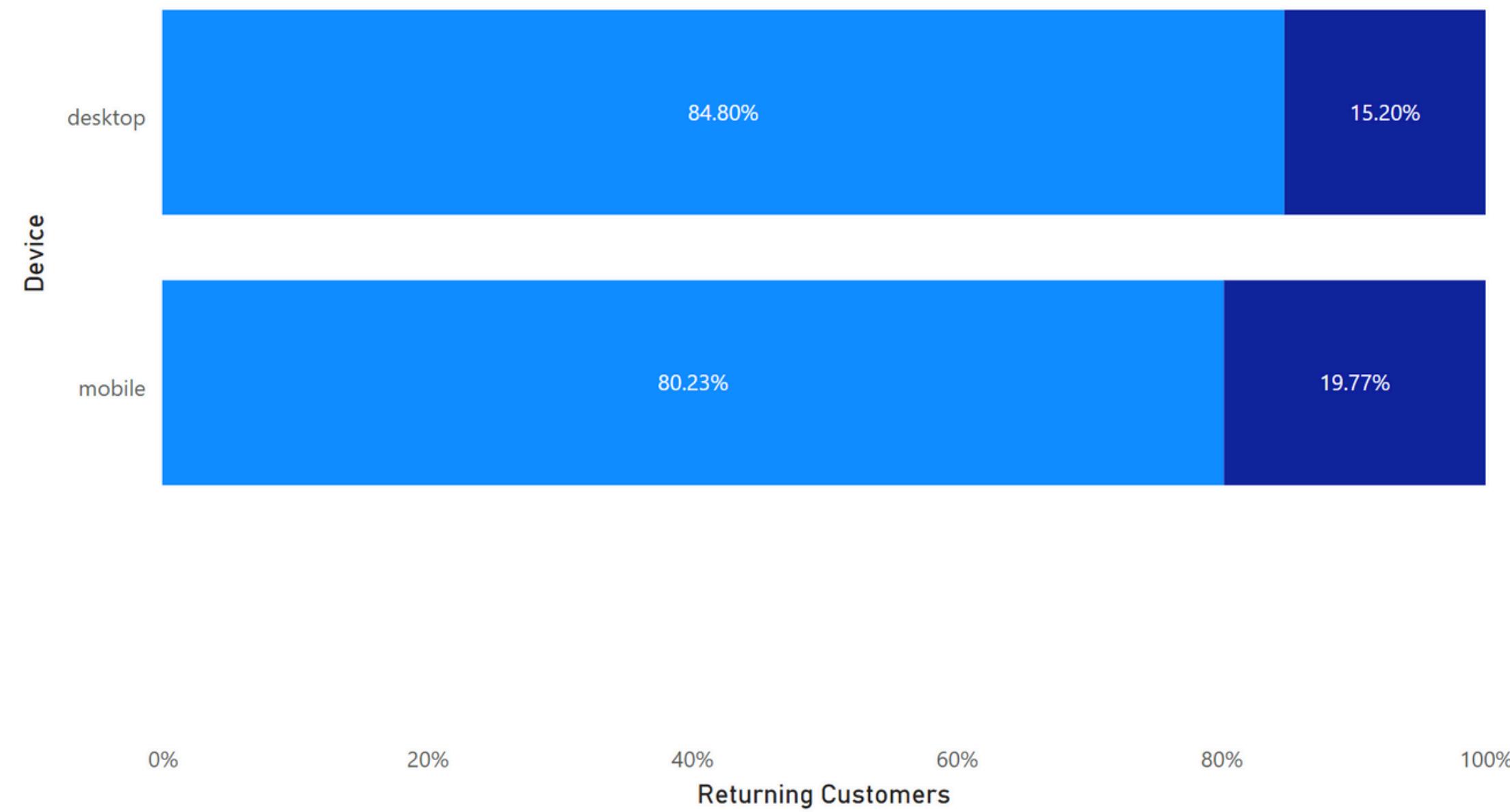


Search engines = New  
Returning = Unidentified

Most non-brand campaigns ran on  
search engines

# CUSTOMER RETENTION

Groups ● New ● Returning



- 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.

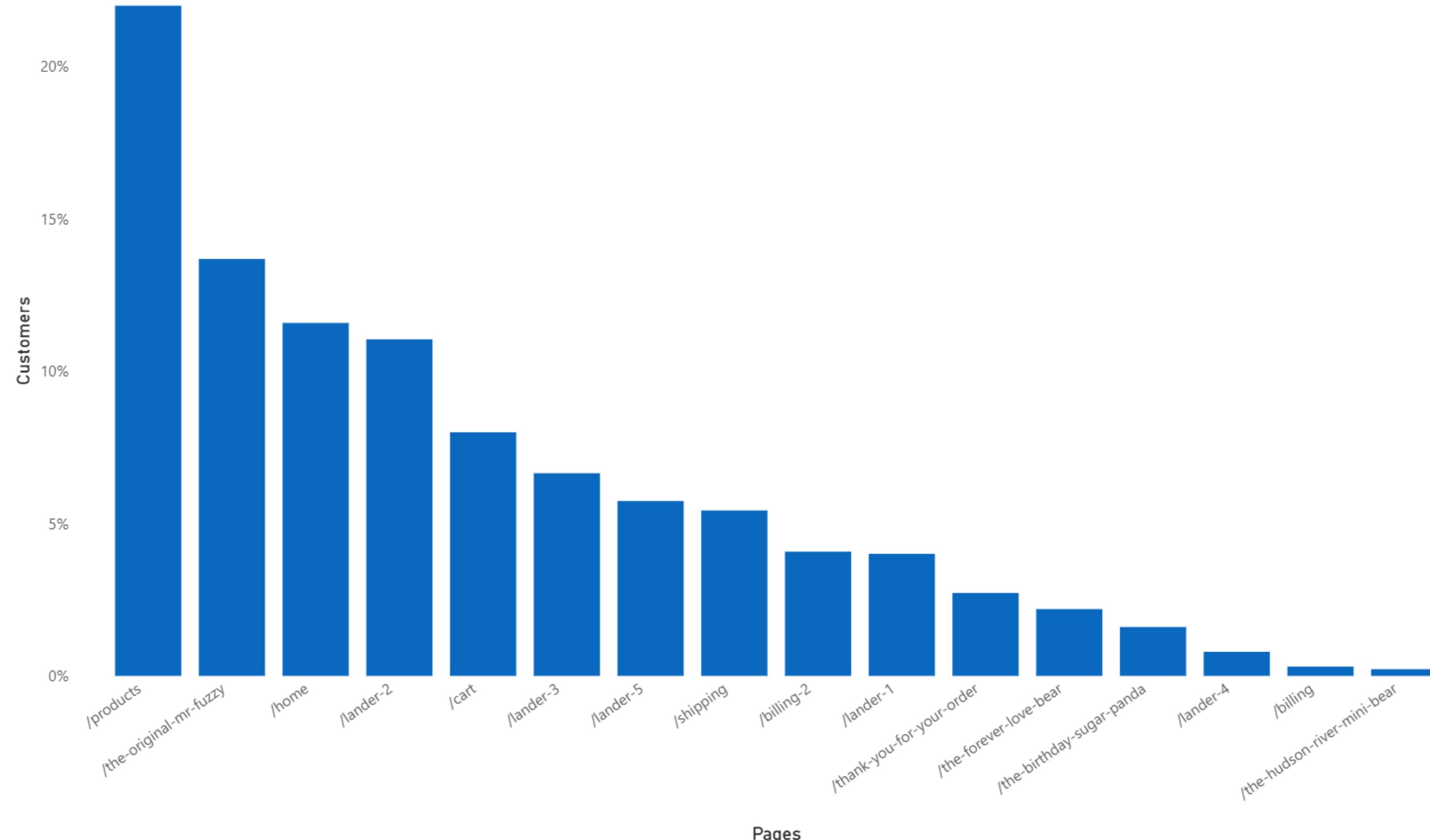
## Recommendations:

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

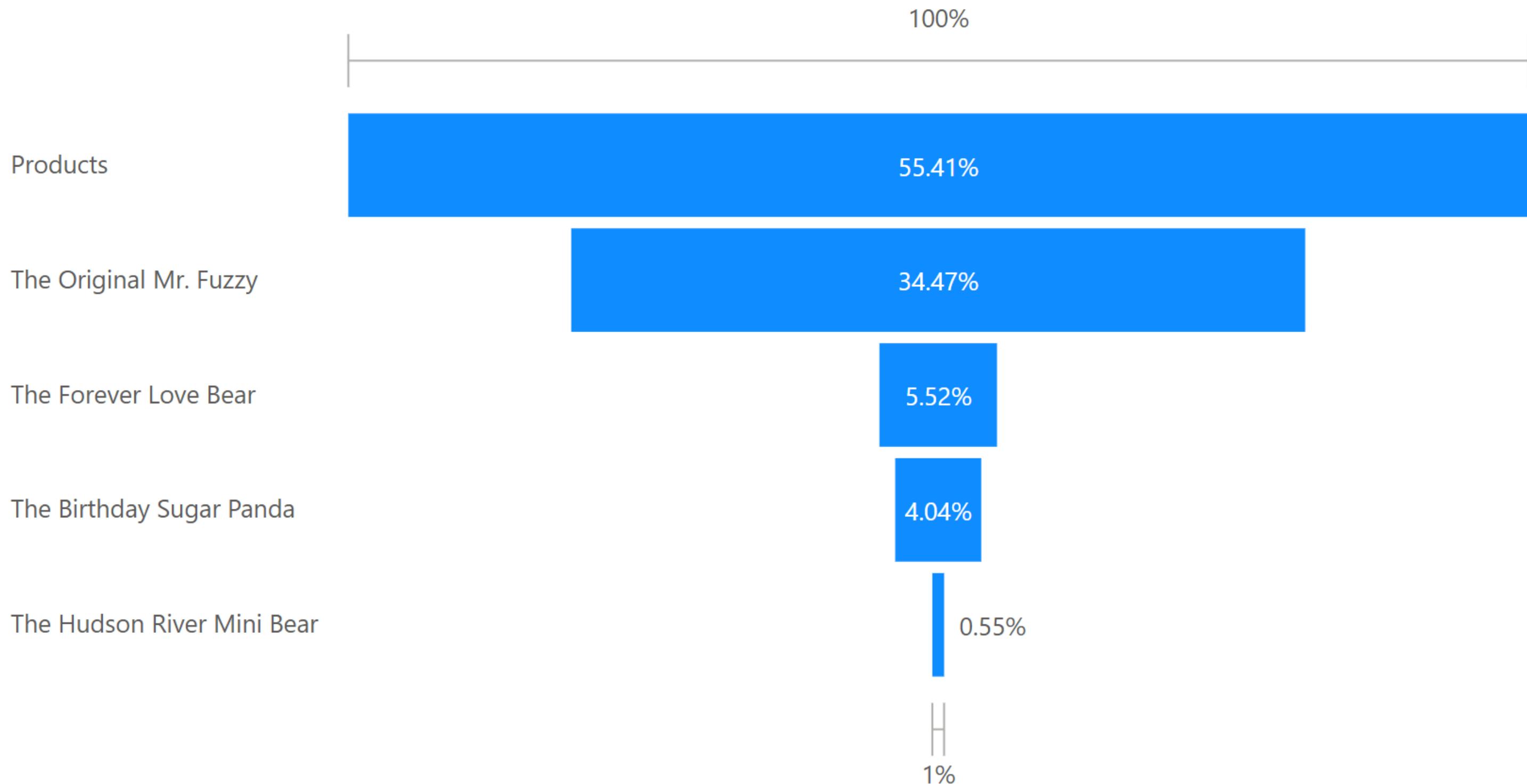
**WHERE DID THEY GO?**

# CUSTOMER WEBSITE BEHAVIOR

# WHAT USERS DO

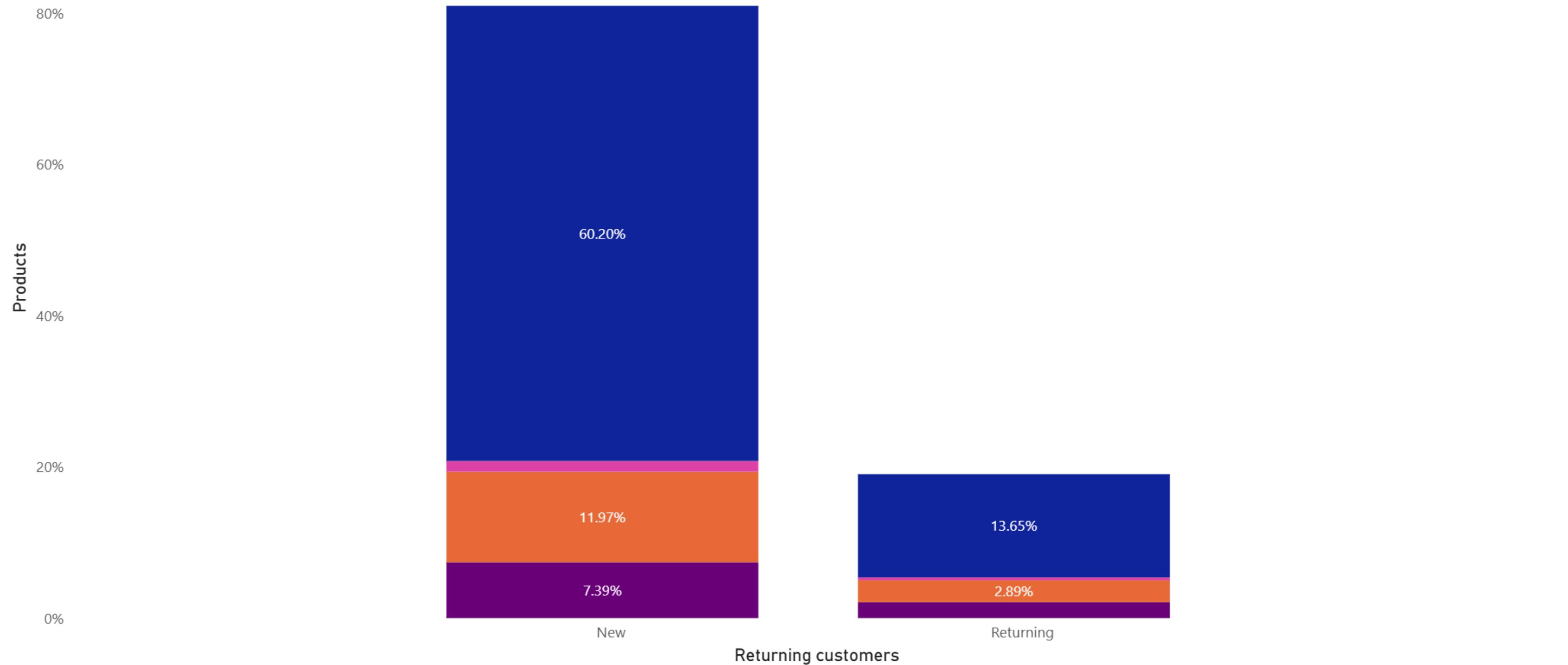


# WHAT USERS DO



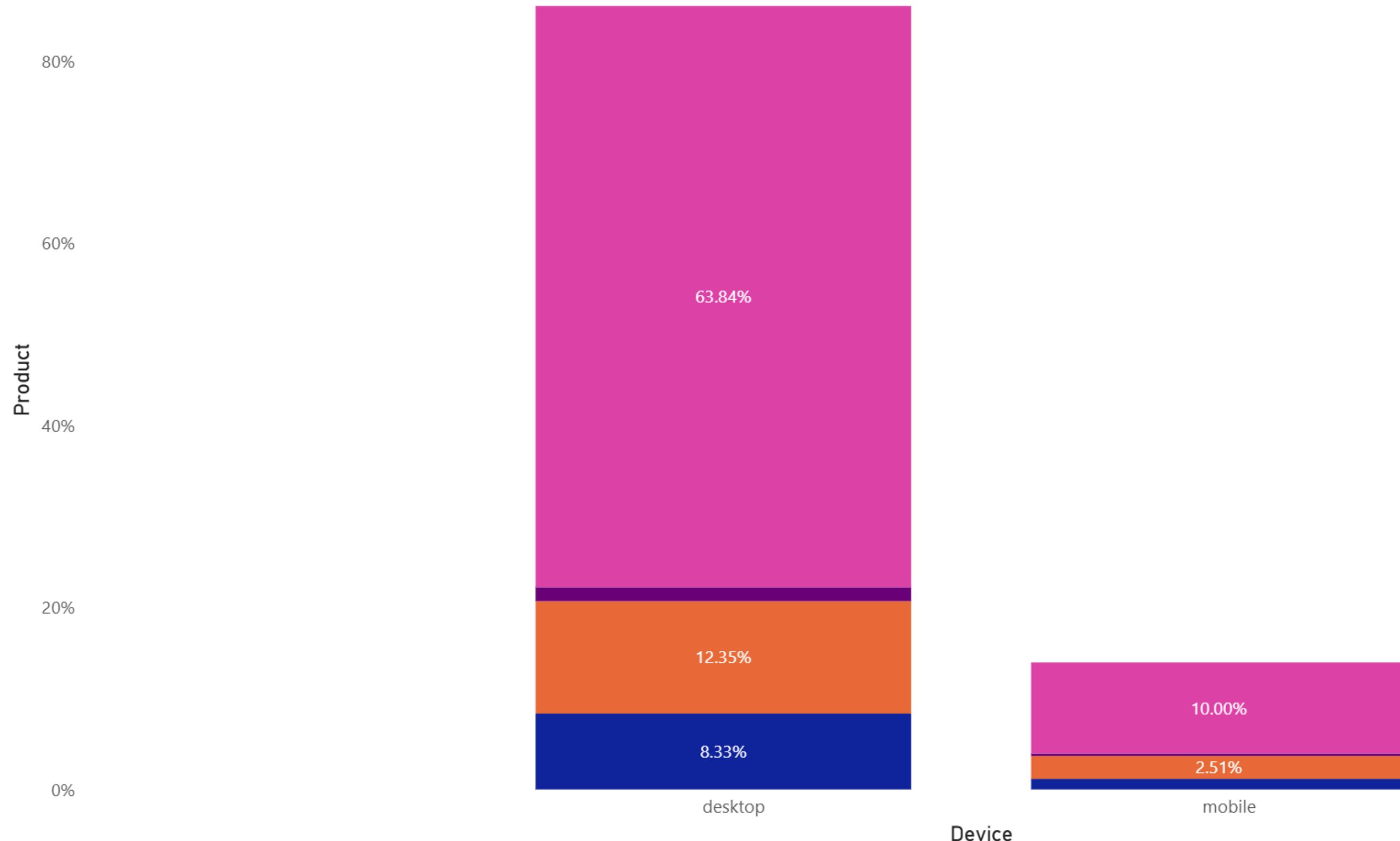
# WHAT USERS DO

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



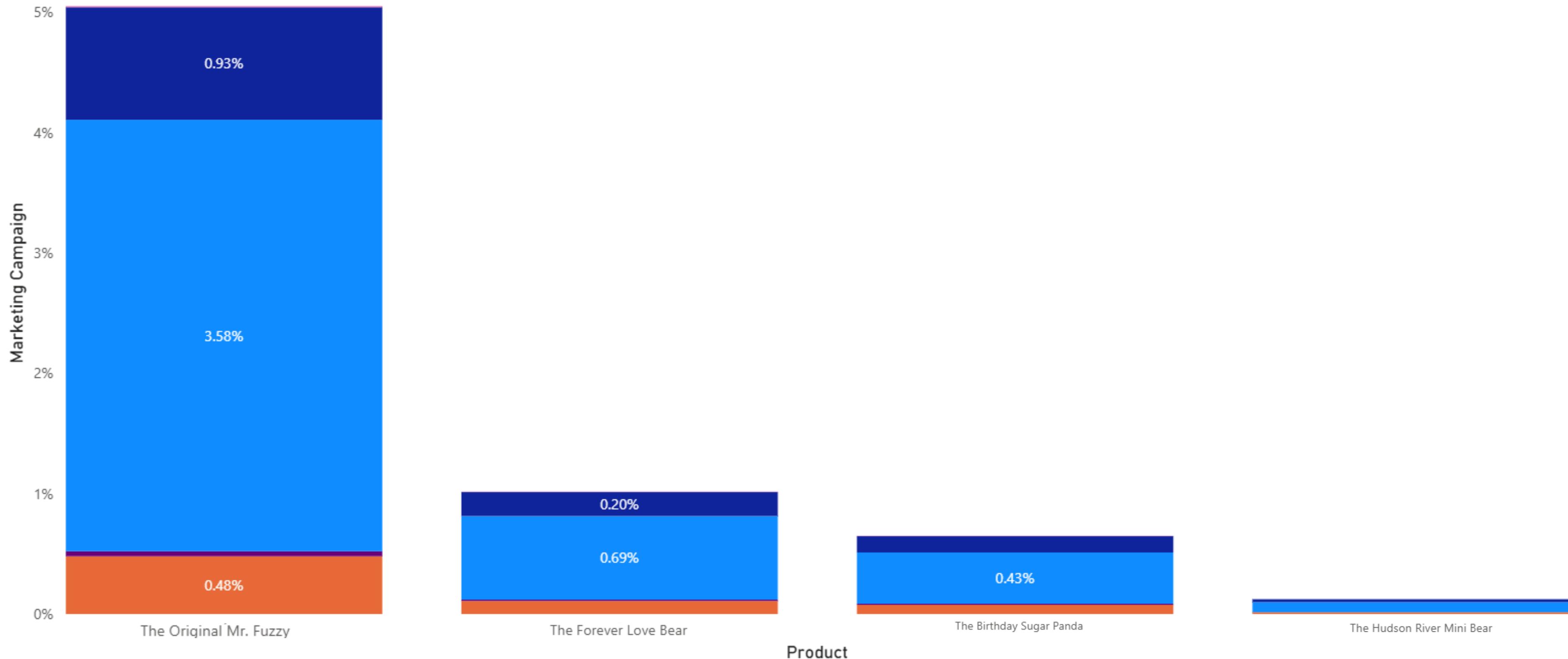
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**Groups** ● The Birthday Sugar Panda ● The Forever Love Bear ● The Hudson River Mini Bear ● The Original Mr. Fuzzy

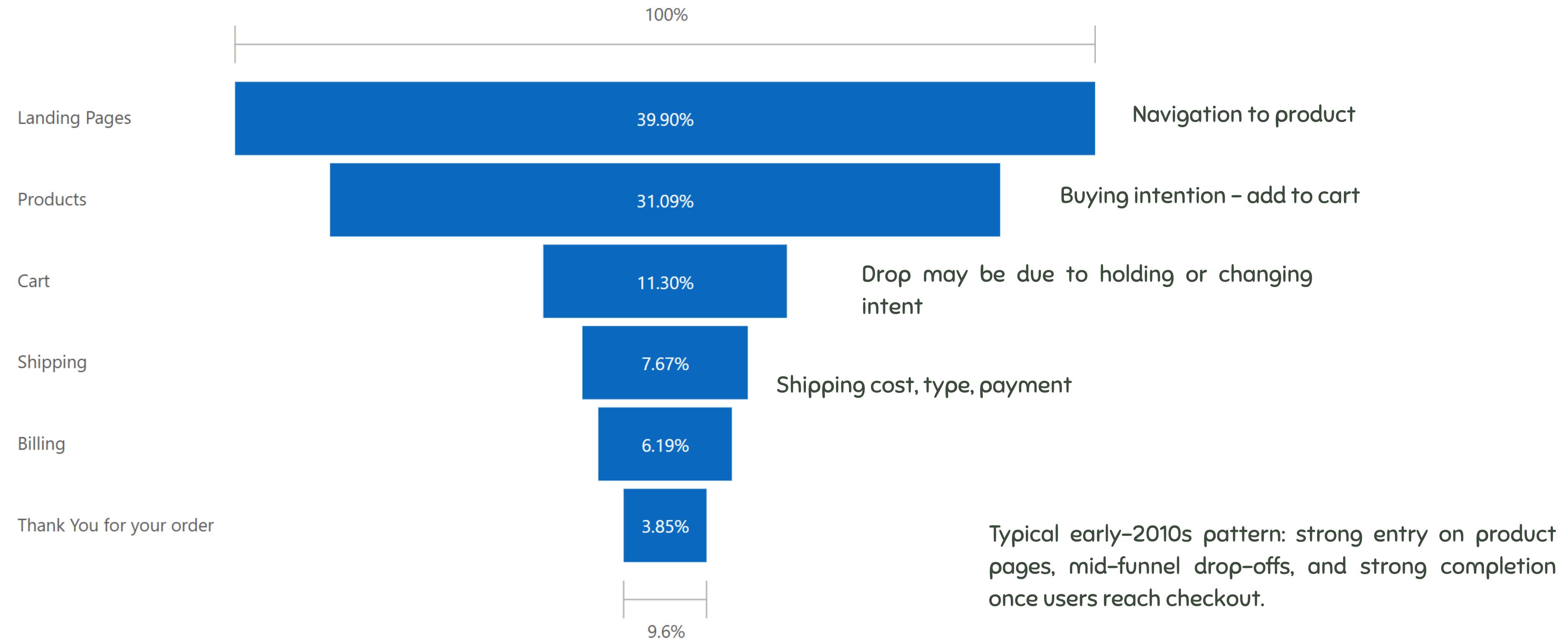


# WHAT USERS DO

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# USER JOURNEY



# CONVERSION RATE

Total Sessions

472.871K

Conversion rate: 6.83%

Orders

32.313K

Global average (2012-2015): 1-4%

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

## Behavior Insights

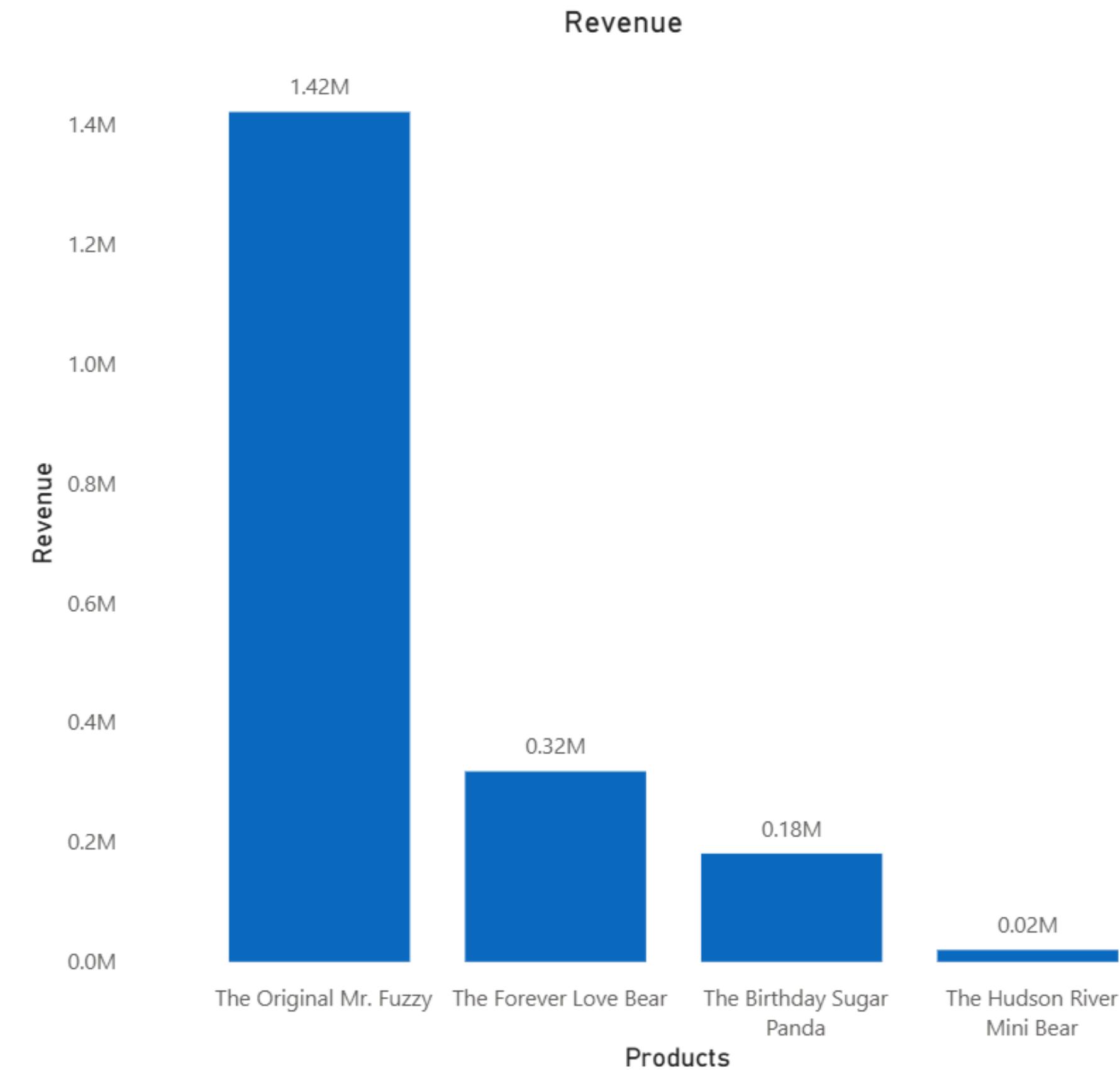
- Top pages: Product page (esp. Mr. Fuzzy), Home, and Landing Page 2.
- Lowest: Hudson River Mini Bear page.
- Product trends = Marketing trends
- Conversion rate: 6.83% (well above global 1-4%).

Overall: Product pages drive intent

**WHAT WERE THE  
OUTCOMES?**

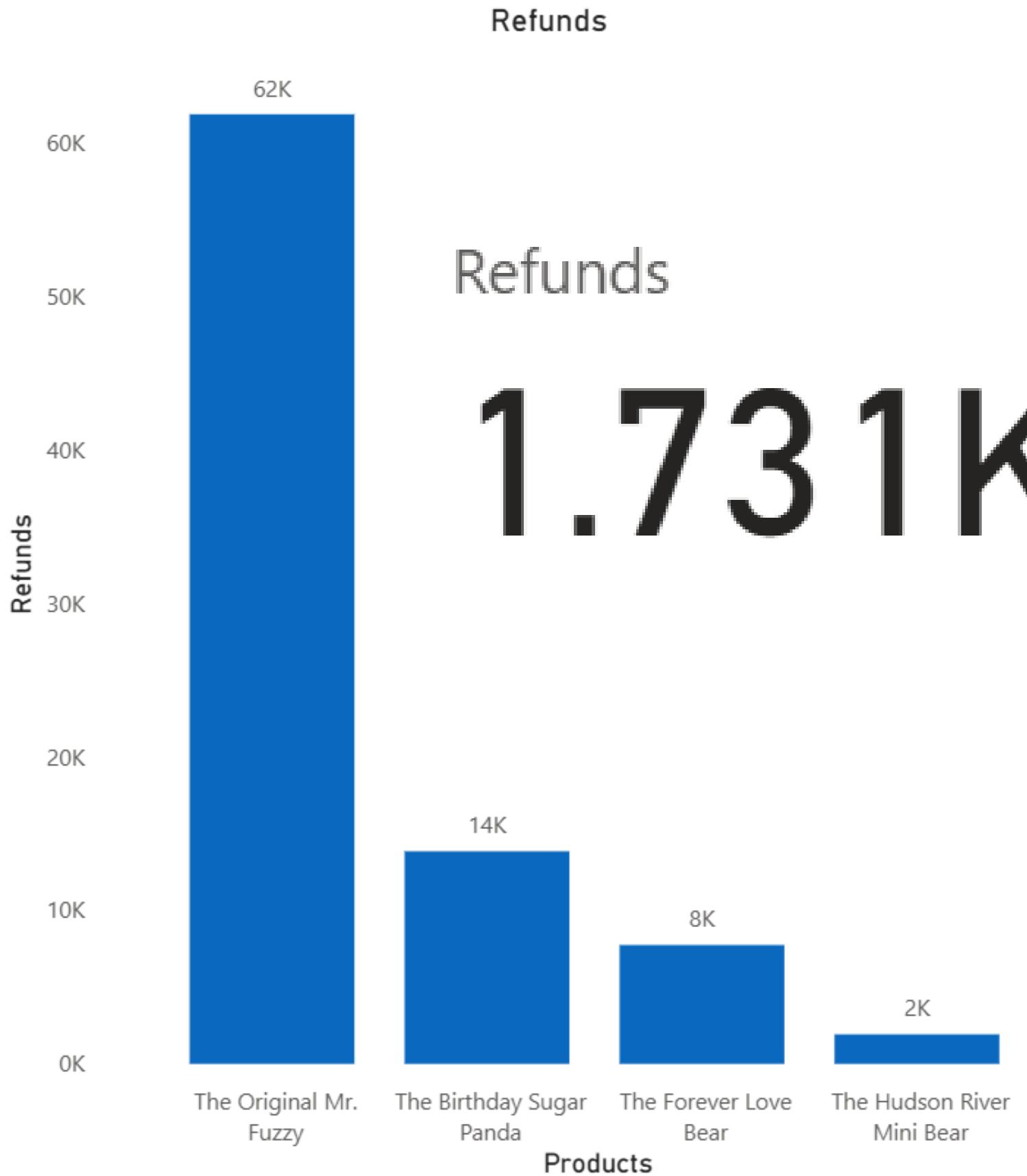
# **PROFITABILITY AND COSTS**

# 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



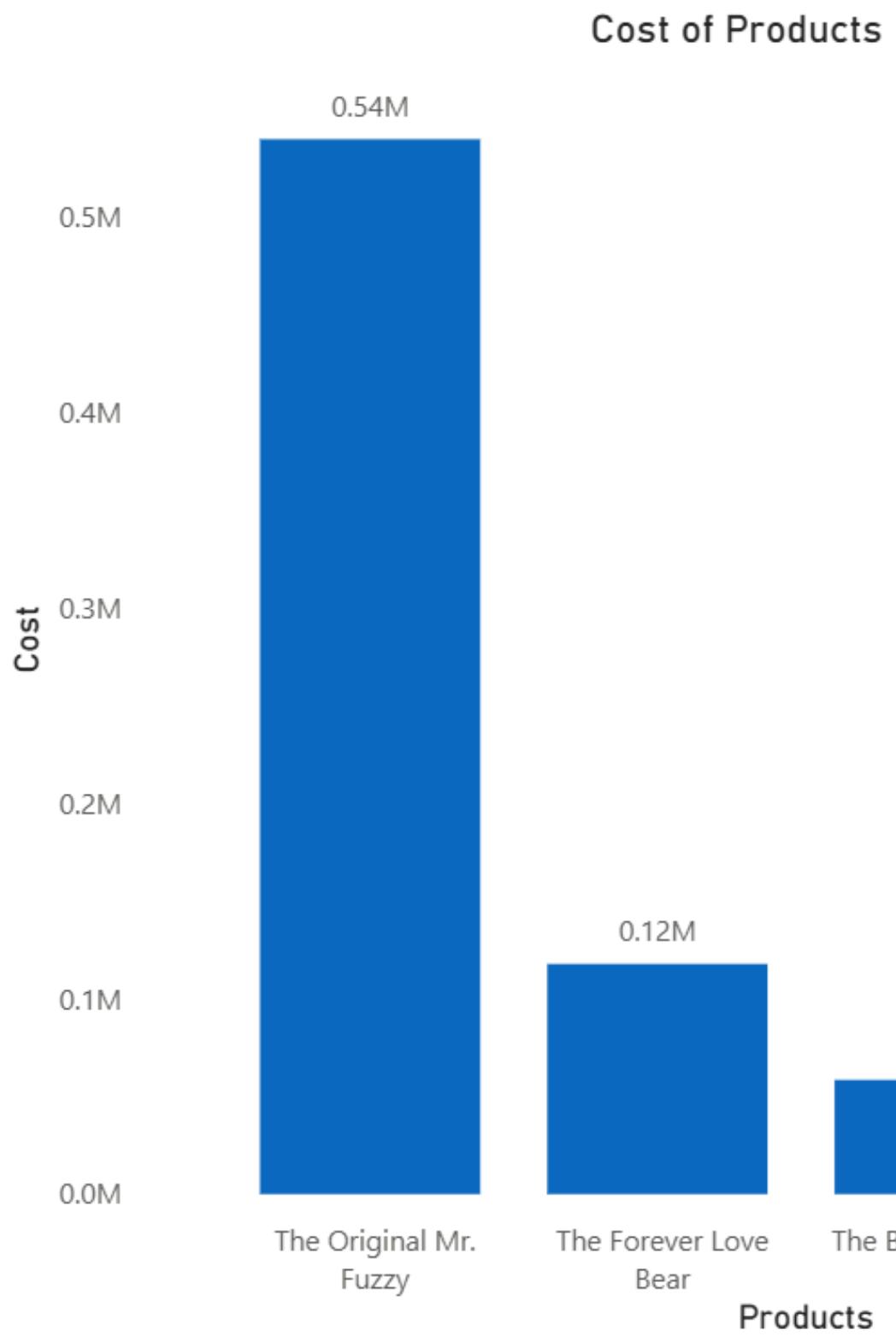
Refunds

1.731K

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

Global average: 15-30% (Google Search)

# MANUFACTURING



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.