

# ***J.S. Analytics***



***Analyzing key performance indicators in four domains through  
marketing analytics to guide strategic and efficient budget  
distribution***

**By: C524 Analysts**





# Agenda

**01 Introduction**

**02 Location**

**03 Audience**

**04 Creative**

**05 Inventory**

**06 Conclusion**



# 01 Introduction



# About Us



- **Data analytics agency based in New York City**
- **Provide insights and recommendations by analyzing data reports**



# Key Analysts



## Location

Michael Zhang  
Sasha Russell  
Ibrahima Coulibaly

## Creative


Phurba Sherpa  
Nadya Yemane  
GuiJing(Luru) Jiang  
Tausif Islam

## Inventory

Yasiel Parra  
Andrew Qu  
Dash Pugliese  
Priya Saini

## Audience

Esrat Sadya  
Stephanie Medina  
Jonathan Wong  
Celine Lozach





# Our Goals

**01 Identify**

**02 Analyze**

**03 Visualize**

**04 Share**

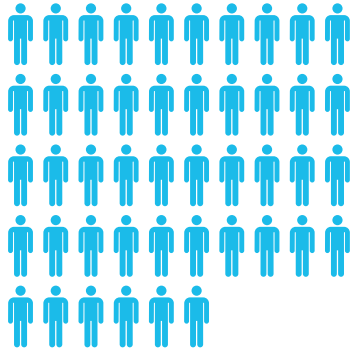
# Data

- **Data Source:** 2 Analytics datasets
- **Data collection date range:** 2024 - 2025
- **KPI focus areas:** Click Through Rate, Cost Per Acquisitions,  
Cost Per Mille, Cost Per Click, Conversion Rate

# User Demographics

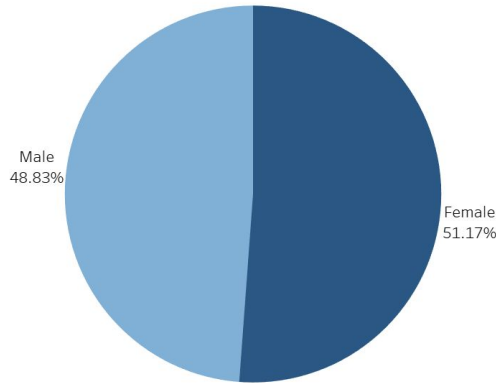
451

Users



51.17%

Female



42.9

Average age



Oregon, North  
Dakota, Montana

U.S. states with most users (28)





# User Demographics

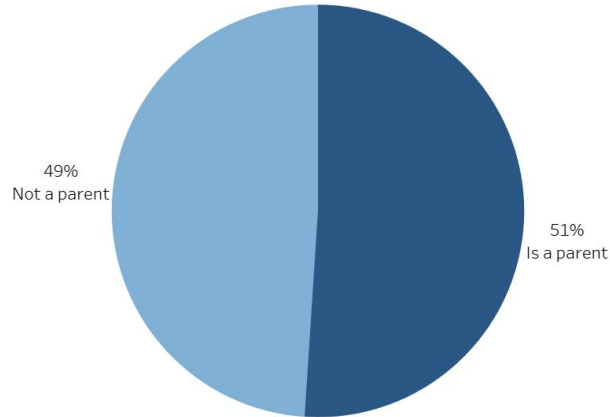
**366**

College  
graduates



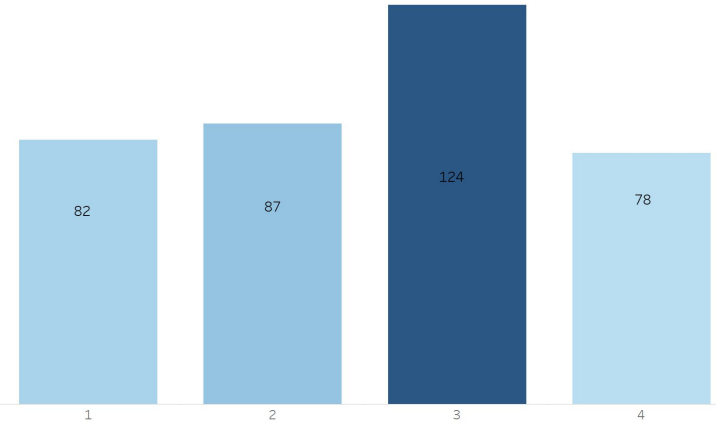
**51.0%**

Parents



**2.53**

Average amount of children (*parents only*)



# Overview



**727**

Total  
campaigns



**\$3,815.51**

Average campaign  
gross cost



**233K**

Total clicks



**8.5K**

Total conversions

**85.7M**

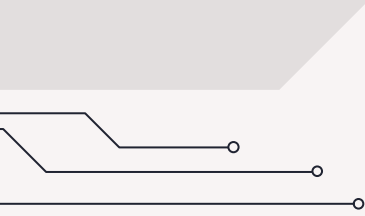
Total  
impressions

**74.1M**


Total  
measurable  
impressions

**41.9M**

Total viewable  
impressions



# 02 Location Performance



# Top and Bottom 5 States by CTR

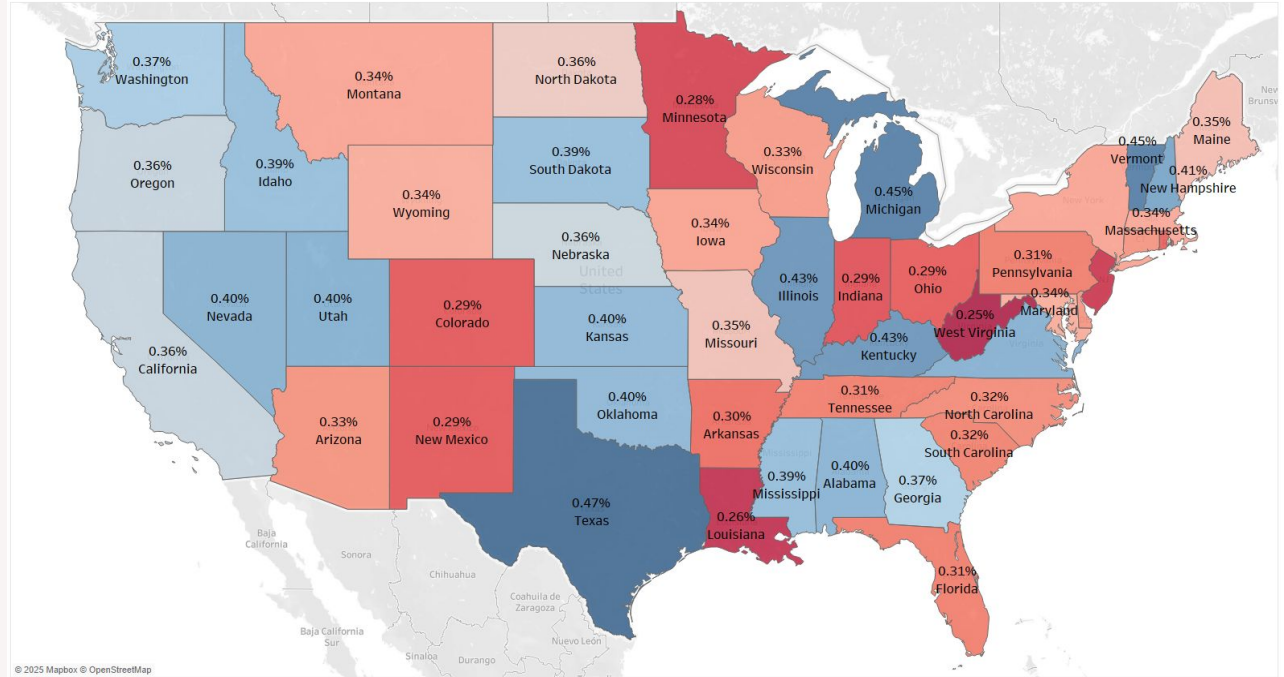
## Top 5 States

1. Texas - 0.47%
2. Michigan - 0.45%
3. Vermont - 0.45%
4. Illinois - 0.43%
5. Kentucky - 0.43%

## Bottom 5 States

1. West Virginia - 0.25%
2. Louisiana - 0.26%
3. New Jersey - 0.27%
4. Minnesota - 0.28%
5. Indiana - 0.29%

Average CTR per State



# Top and Bottom 5 States by CVR

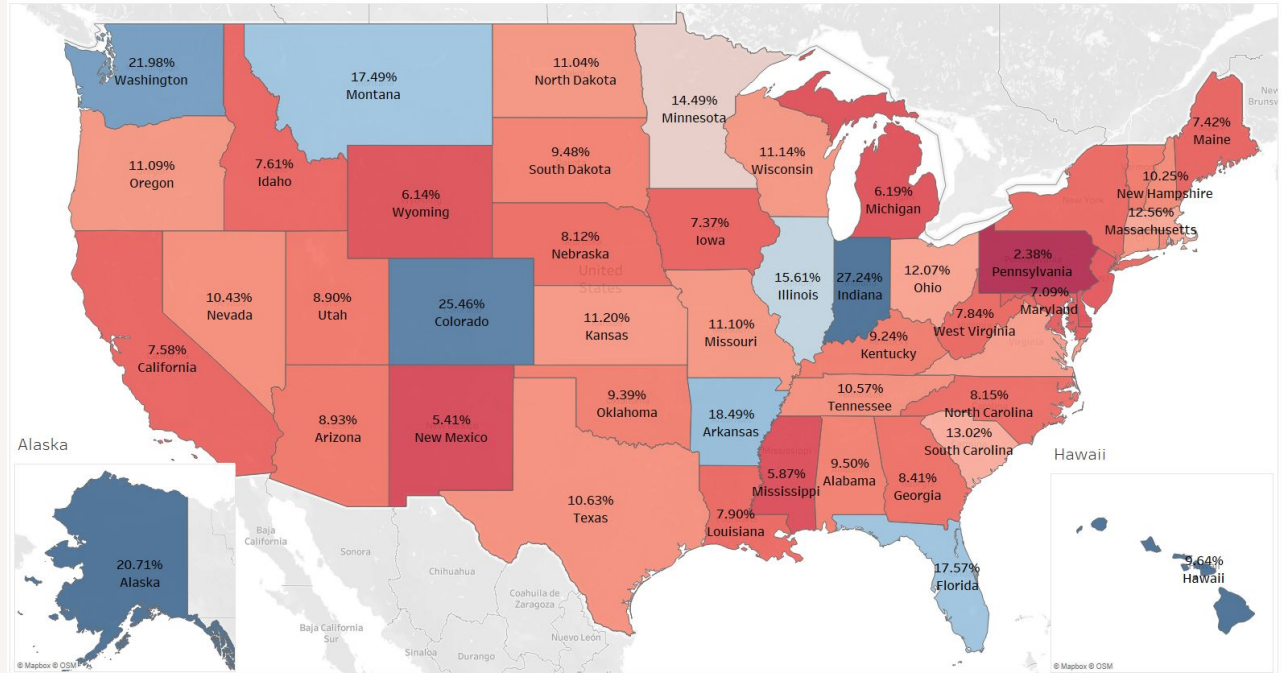
## Top 5 States

1. Indiana - 27.24%
2. Colorado - 25.46%
3. Washington - 21.98%
4. Alaska - 20.71%
5. Arkansas - 18.49%

## Bottom 5 States

1. Pennsylvania - 2.38%
2. New Mexico - 5.41%
3. Mississippi - 5.87%
4. Wyoming - 6.14%
5. Michigan - 6.19%

Average CVR per State



# Top 5 States by CPM vs. CPC

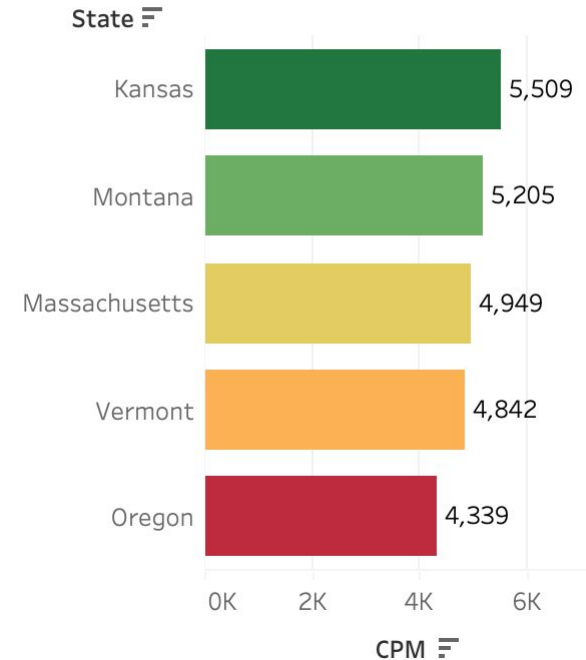
## CPM Top 5 States

1. Kansas
2. Montana
3. Massachusetts
4. Vermont
5. Oregon

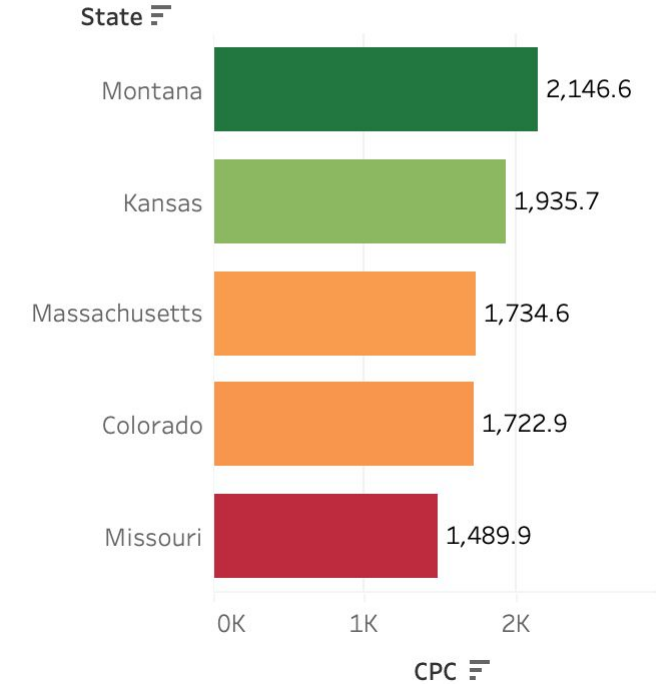
## CPC Top 5 States

1. Montana
2. Kansas
3. Massachusetts
4. Colorado
5. Missouri

### State by CPM



### State By CPC



*Kansas and Montana have strong competition in specific industries relevant to online advertising, leading to elevated CPCs.*

# Bottom 5 States by CPM vs. CPC

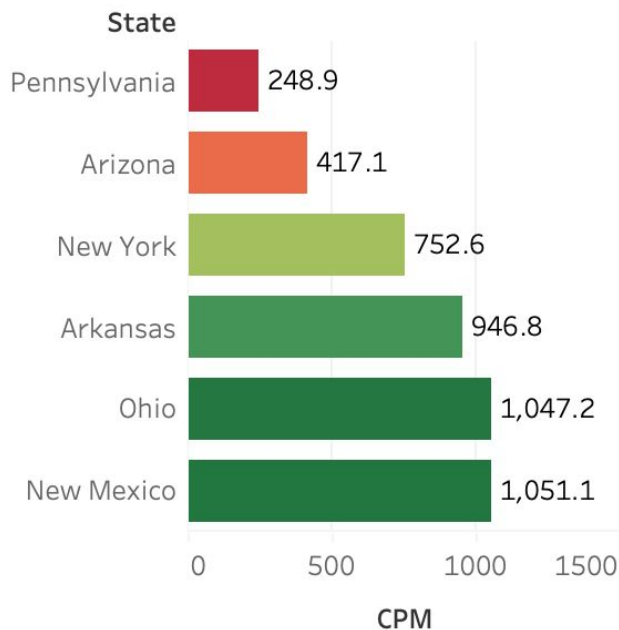
## CPM Bottom 5 States

1. Pennsylvania
2. Arizona
3. New York
4. Arkansas
5. Ohio

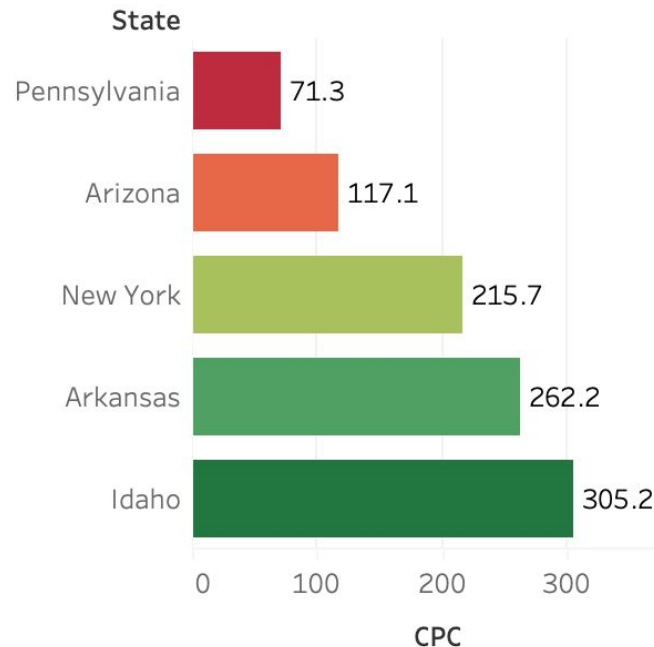
## CPC Bottom 5 States

1. Pennsylvania
2. Arizona
3. New York
4. Arkansas
5. Idaho

### State by CPM

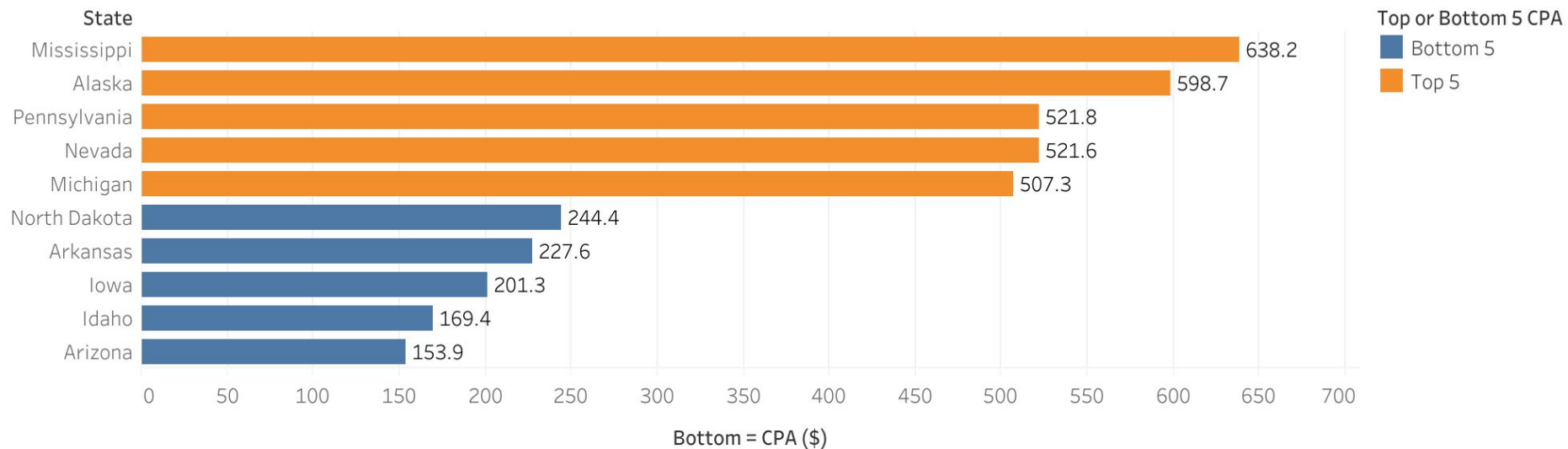


### State By CPC



CPM rates can fluctuate based on the time of year or season. A lower CPM might be acceptable if the campaign is still driving engagement and conversions. Campaigns where the primary goal is to maximize reach and get the ad seen by as many people as possible.

# Top and Bottom 5 States by CPA





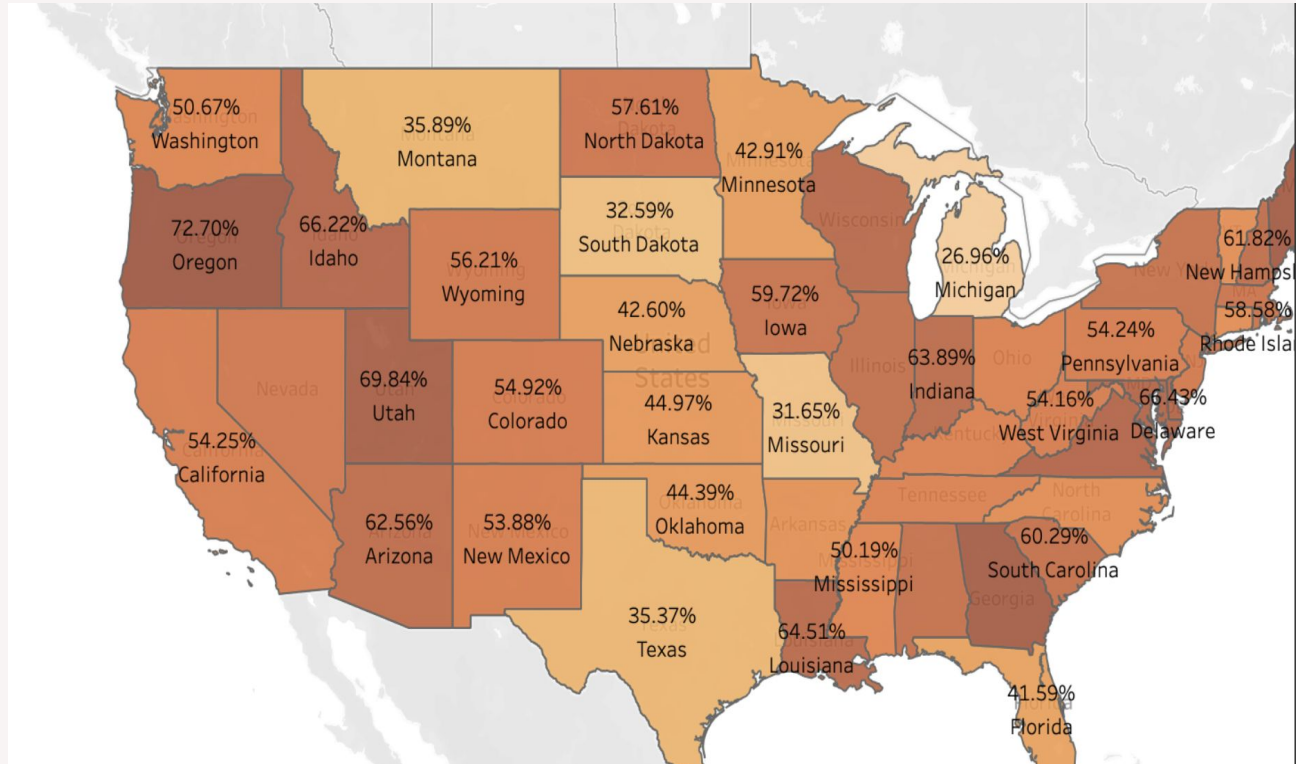
# Viewability Rate by State

## Highest Viewability Rates by States:

1. Oregon (72.7%)
2. Maine (71.3%)
3. Utah (69.8%)
4. Delaware (66.4%)

## Lowest Viewability Rates by States:

1. Missouri (31.7%)
2. South Dakota (32.6%)
3. Texas (35.4%)
4. Michigan (27%)



# Location Strategy Recommendations

- Prioritize states with high conversion rates and click through rates by increasing its performance budget and creating conversion-focused campaigns.
- Reevaluate the messaging of the ads for states with low conversion rates and click through rates. Refine the audience segmentation to increase relevance and engagement.
- A low CPM can be beneficial for brand awareness, in states with higher populations. But a higher CPM might be necessary for campaigns focused on driving conversions.
- Seasonal fluctuations can create higher demand during peak seasons. States focused on brand awareness lead to *elevated CPCs & CPMs* in industries *relevant to online advertising*, campaigns specific advertising formats like billboards.



# **03 Audience Performance**



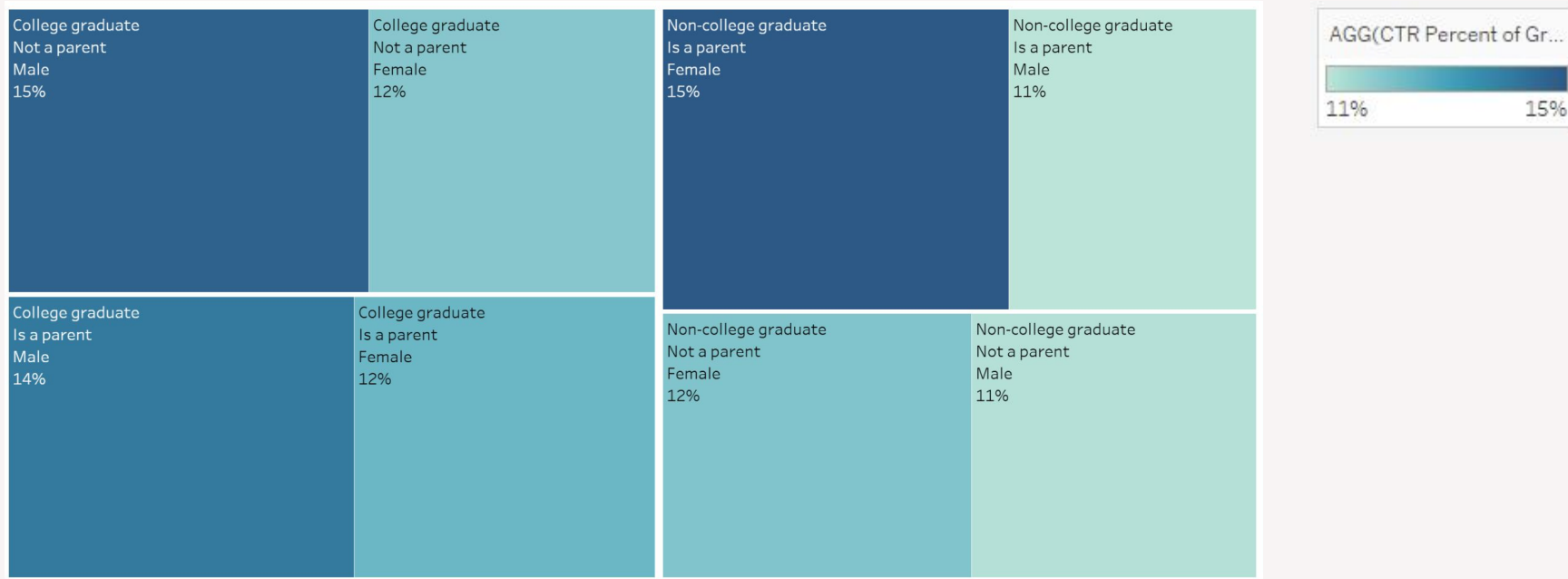
# Top 10 Cost-Effective Audiences (Part 1)

	CPA	CPC	CPM	vCPM	mCPM	CTR	CVR
1	Retail \$68.78	US Technology \$1.84	US Technology \$4.97	US Travel \$27.00	US Technology \$5.29	Online Behavior 46.76%	Online Behavior 56.72%
2	US Travel \$95.77	Retail \$4.03	Retail \$11.79	Retail \$32.69	Retail \$14.23	US 26.44%	US 18.53%
3	US Mail Order Buyer \$100.78	US Travel \$5.78	US Travel \$18.91	US Technology \$43.49	US Travel \$20.11	OnAudience 6.49%	OnAudience 6.25%
4	Tech Enthusiasts \$120.07	US Mail Order Buyer \$5.78	US Mail Order Buyer \$20.56	US Mail Order Buyer \$67.00	US Mail Order Buyer \$27.66	Media and Entertainment 5.22%	Mobile - US 3.79%
5	Mobile Audience \$158.24	Mobile Audience \$14.26	Mobile Audience \$39.05	Tech Enthusiasts \$106.03	Mobile Audience \$60.21	Mobile - US 4.68%	US Financial 3.29%

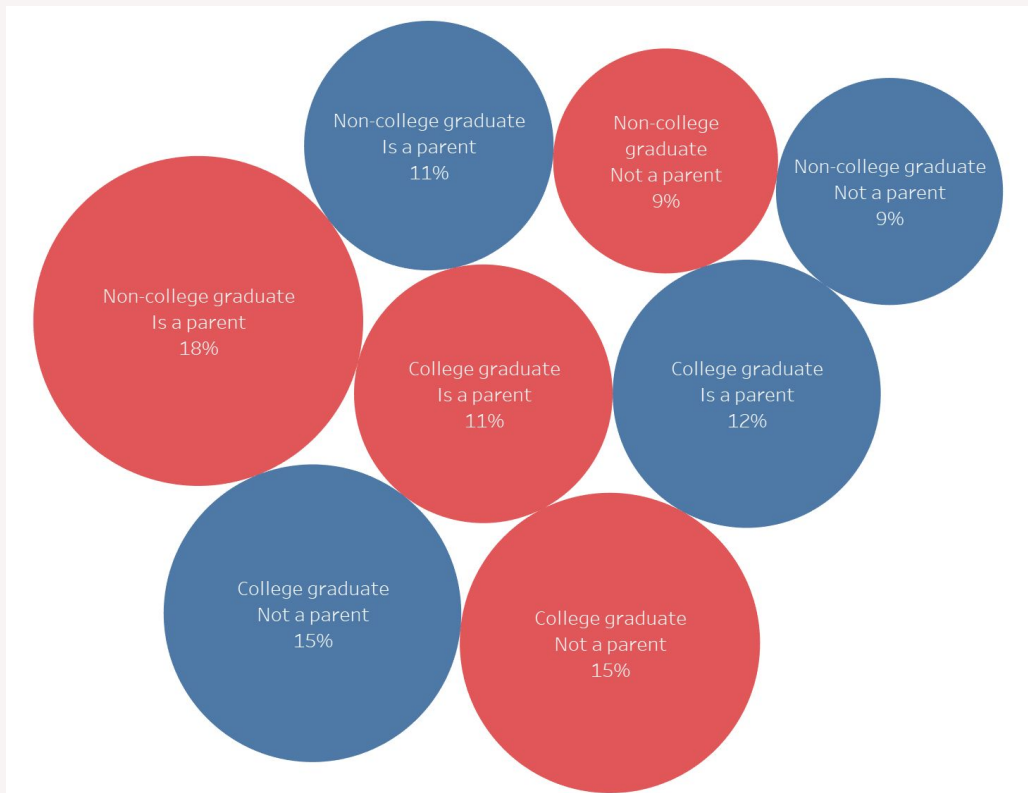
# Top 10 Cost-Effective Audiences (Part 2)

	CPA	CPC	CPM	vCPM	mCPM	CTR	CVR
6	Travel \$238.29	Tech Enthusiasts \$24.01	Tech Enthusiasts \$61.91	Restaurants \$183.65	Tech Enthusiasts \$67.69	Lotame 2.72%	Media and Entertainment 2.71%
7	US Technology \$310.19	Telecommunicatio ns and Mobile Tech \$25.02	Telecommunicatio ns (Telco) \$116.60	Travel \$237.34	Telecommunicatio ns (Telco) \$129.74	US Financial 1.47%	Lotame 2.12%
8	Restaurants \$441.35	US Buying Channel Preference \$28.14	Purchase Behaviors \$122.79	US Buying Channel Preference \$254.58	Purchase Behaviors \$137.92	Travel and Tourism 1.02%	US Interest 1.74%
9	Telecommunicatio ns and Mobile Tech \$525.46	Purchase Behaviors \$33.15	Travel \$135.40	Mobile Audience \$259.20	Telecommunicatio ns and Mobile Tech \$153.87	Real Estate 0.91%	Travel and Tourism 1.32%
10	US Buying Channel Preference \$534.62	Purchase-Based \$33.30	US Health and Fitness \$139.05	Telecommunicatio ns and Mobile Tech \$315.78	US Health and Fitness \$154.01	Purchase-Based 0.62%	US Home 0.83%

# CTR



# CVR



Sex

Female

Male

# Audience Personas

## Persona 1:

### John

- Male
- 60 years old
- Is a college graduate
- Is not a parent
- From Idaho
- Interest in Travel > Vacation > Agritourism
- Farms are continually being closed in Idaho so farmers can be looking for extra income sources

## Persona 2:

### Jane

- Female
- 63 years old
- Is a college graduate
- Is a parent
- From Kansas
- Interest in TV Shows > Dramas
- A Nielsen study revealed older women are spending more time watching TV or online

## Persona 3:

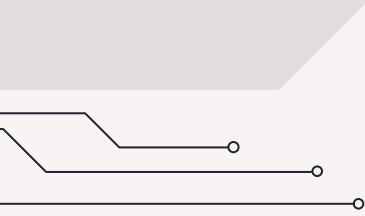
### Mrs. Smith

- Female
- 43 years old
- Is a college graduate
- Is a parent of three children
- From Wisconsin
- Interest in luxury cars specifically Porsche
- Could have children who are older or heading to college soon with more disposable income
- Uncommon but not unfounded according to Porsche 15% of Porsche buyers are women
- Some audiences to explore are buick or Lexus in women




# Audience Recommendations

- Next Top Performing Audiences/Next potential list of audiences to invest in:
  - US Home
  - US Health and Fitness
  - US Buying Channel Preference
  - Travel
  - Telecommunications (Telco)
- Worst Performing Audience Segments/Biggest potential list of audiences to invest in:
  - Mobile - US
  - Media and Entertainment
  - OnAudience
  - US
  - Online Behavior
- Reach out to test further strategies towards non college graduates as well as individuals in their mid to late 20s age range for biggest future payoff potential



# 04 Creative Performance



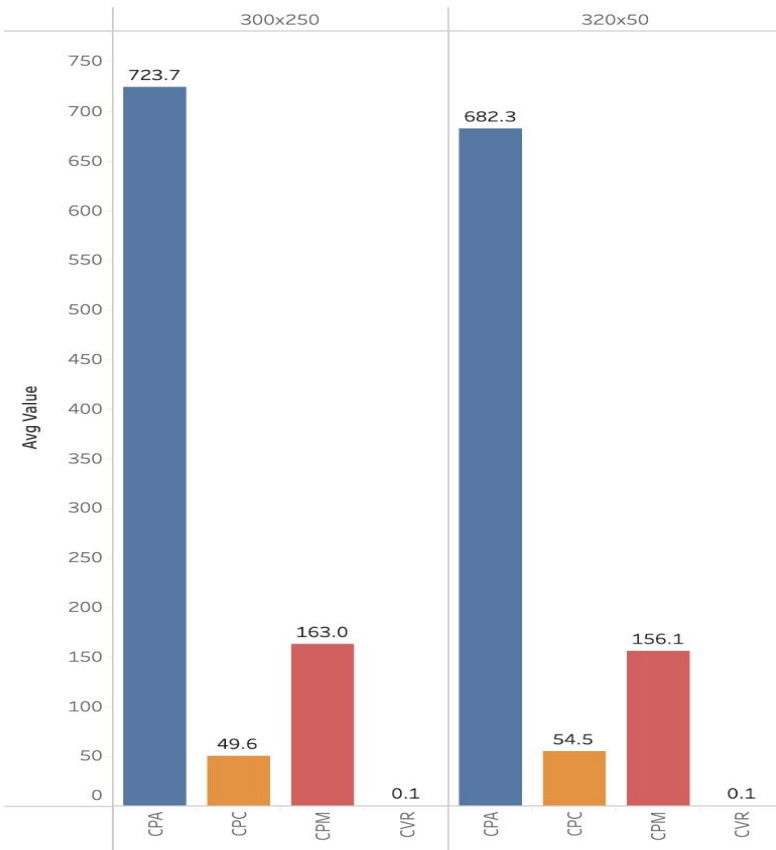
# Performance Metrics

Creative Size	CPA (Avg)	CPA (Sum)	CVR (Avg)	CPC (Avg)	CPC (Sum)	CPM (Avg)	CPM (Sum)
300x250	723.66	256,899.80	0.11	49.59	17,605.36	163.03	57,874.85
320x50	682.26	213,546.59	0.12	54.53	17,067.18	156.14	48,871.49
300x50	723.66	256,899.80	0.11	49.59	17,605.36	163.03	57,874.85

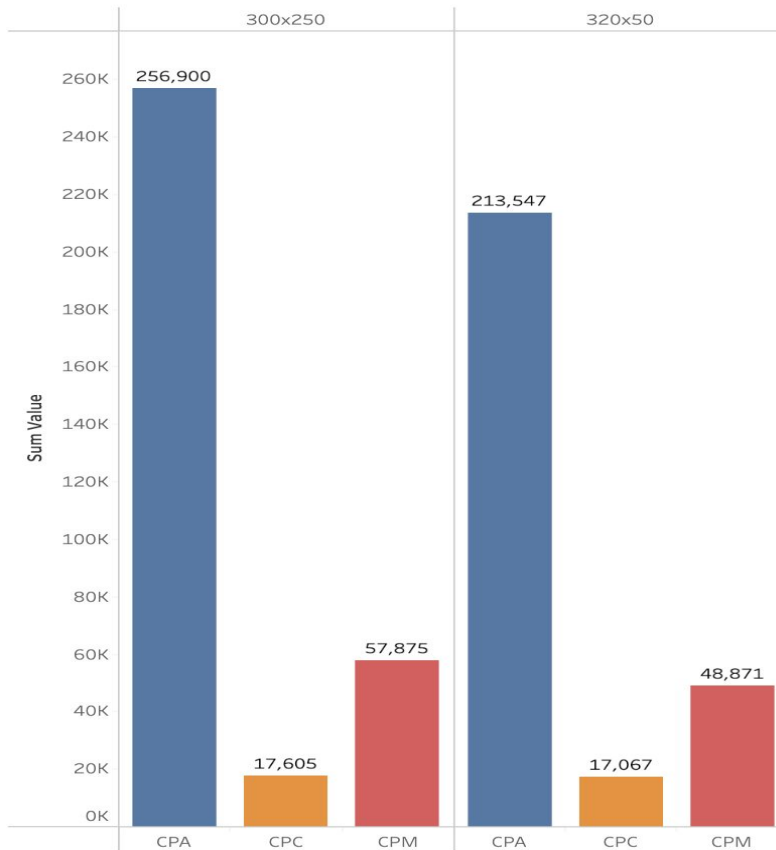
## Key Insight:

320x50 delivers better conversions at lower costs, while both 300x50 and 300x250 underperform with higher acquisition costs and weaker conversion rates. The identical metrics for 300x50 and 300x250 suggest either duplicate reporting or identical creative performance.

Avg Value



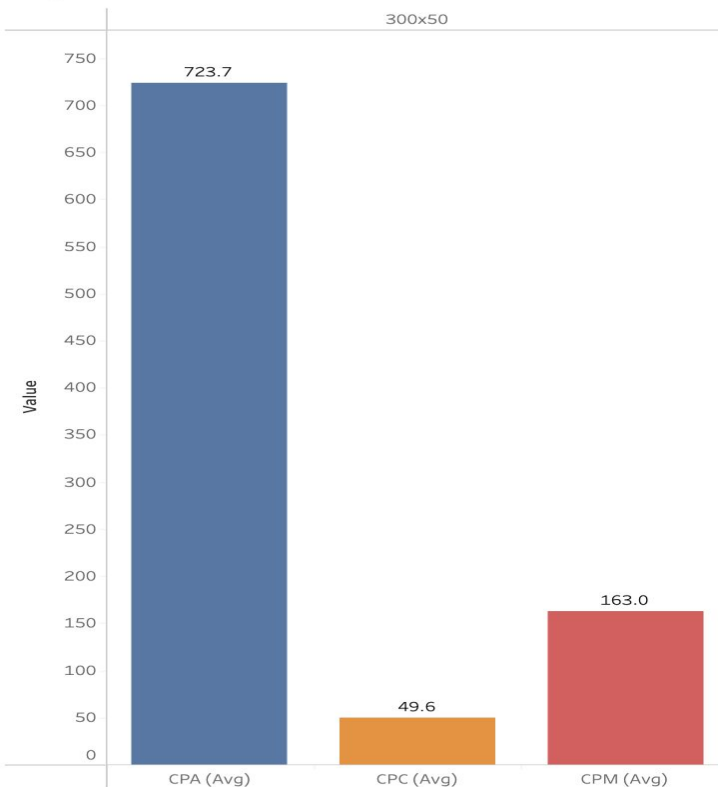
Sum Value



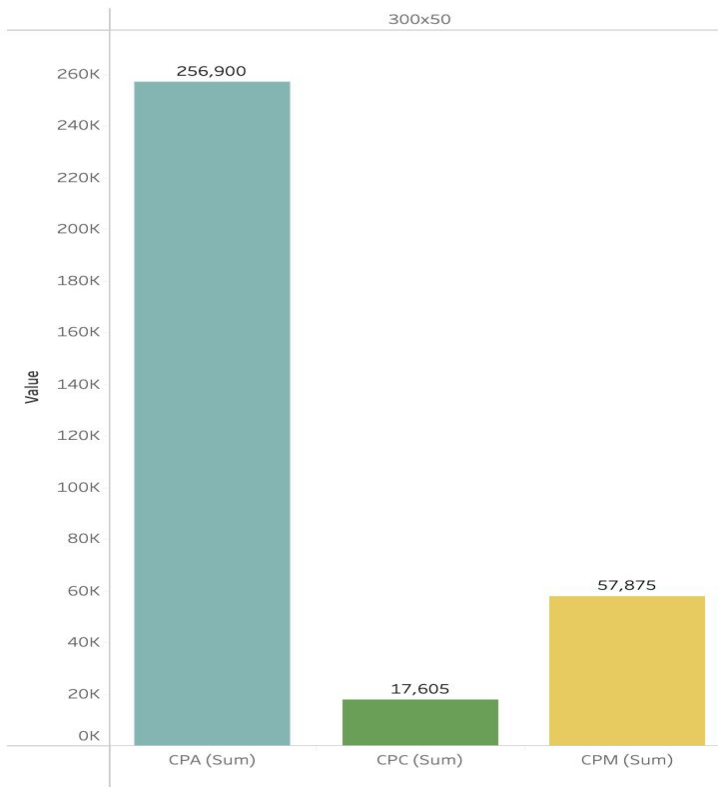
The 300x250 and 320x50 ad formats outperform other metrics, indicating higher effectiveness.

However, repeated values for cost-related metrics suggest potential data inconsistencies.

Avg Value

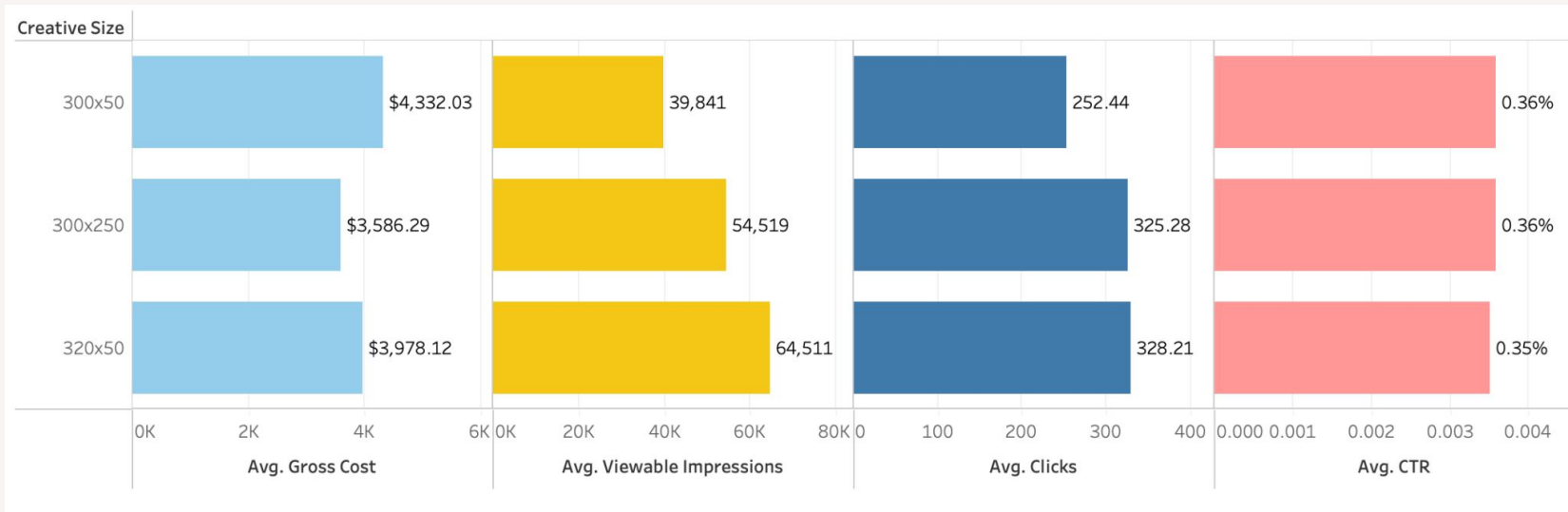


SUM Value

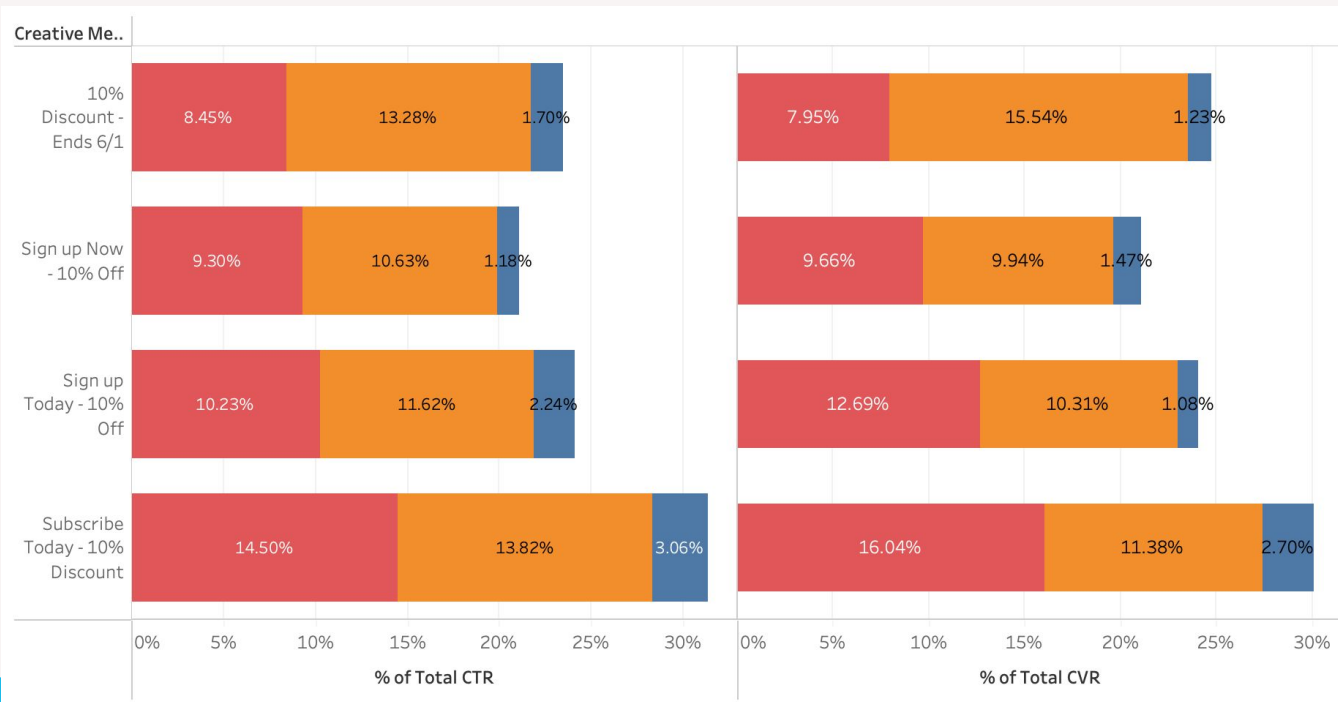


The 300x50 ad format shows strong performance in both average and total values, while cost metrics (CPA/CPC/CPM) remain relatively low. No data anomalies are evident in this dataset.

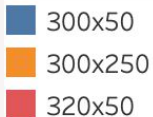
# Branding



# Creative Messaging



## Creative Size



- **Subscribe Today - 10% Discount**
  - Performed best with 300x50 and 320x50
- **Sign up Today - 10% Off**
  - Performed best with 300x250

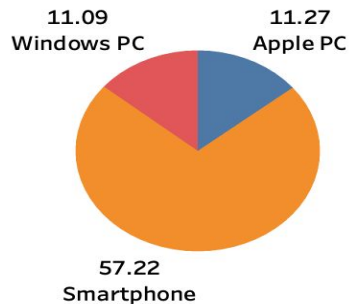
# Creative Sizes in comparison to Devices

Creative Size	Smartphone	Mac (Apple PC)	Windows PC
300×50	✓ Common	✗ Rare/Not used	✗ Rare/Not used
320×50	✓ Common	✗ Rare/Not used	✗ Rare/Not used
300×250	✓ Common	✓ Common	✓ Common

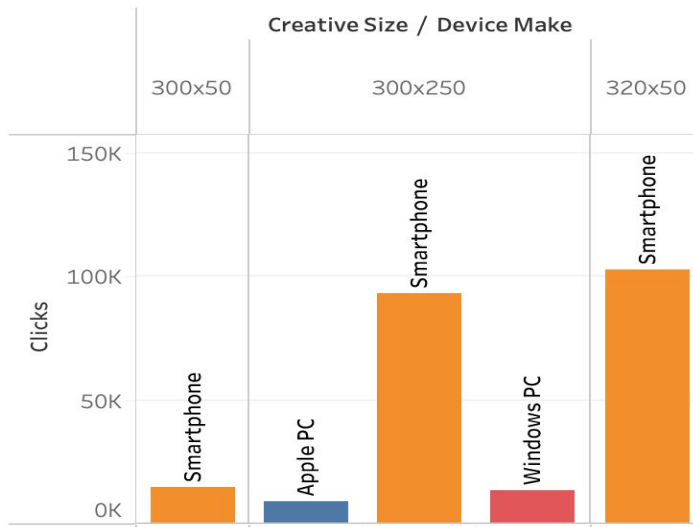
## INSIGHTS

- 300×50 and 320×50 are mobile-focused formats.
- 300x250 is the only size used across all three device types.

## Total Conversions



## Total Clicks

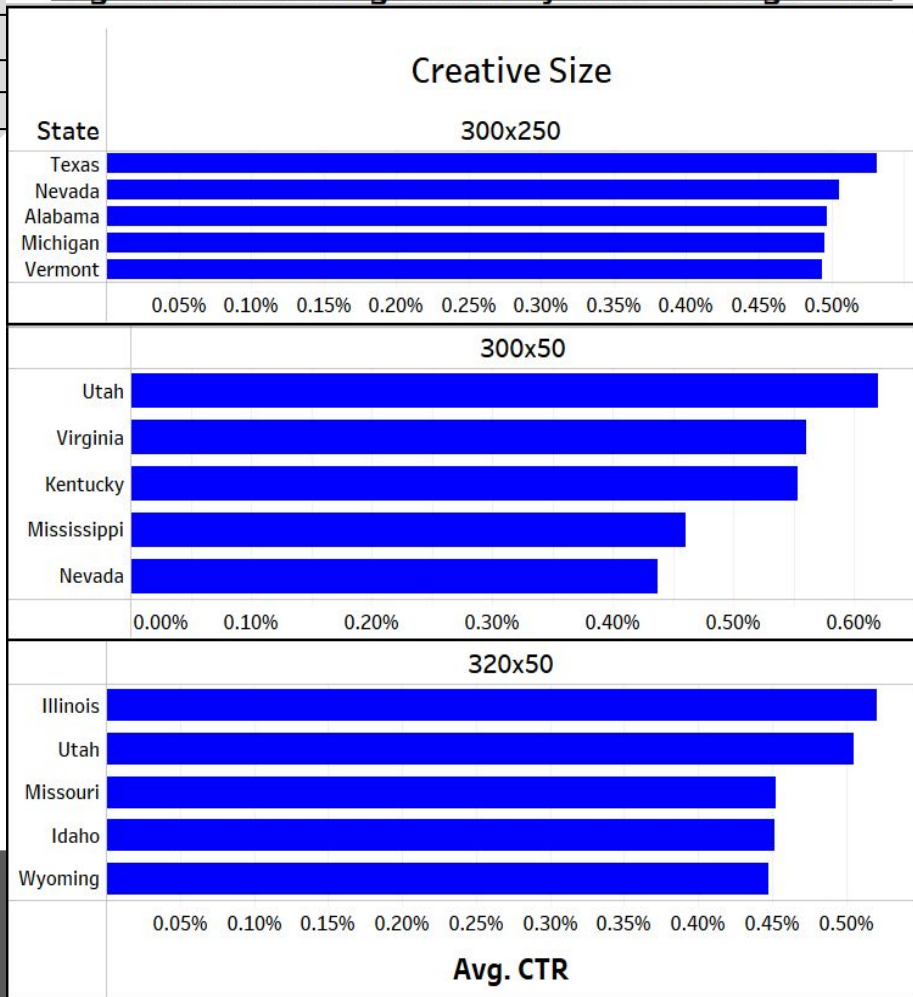


## Device Make

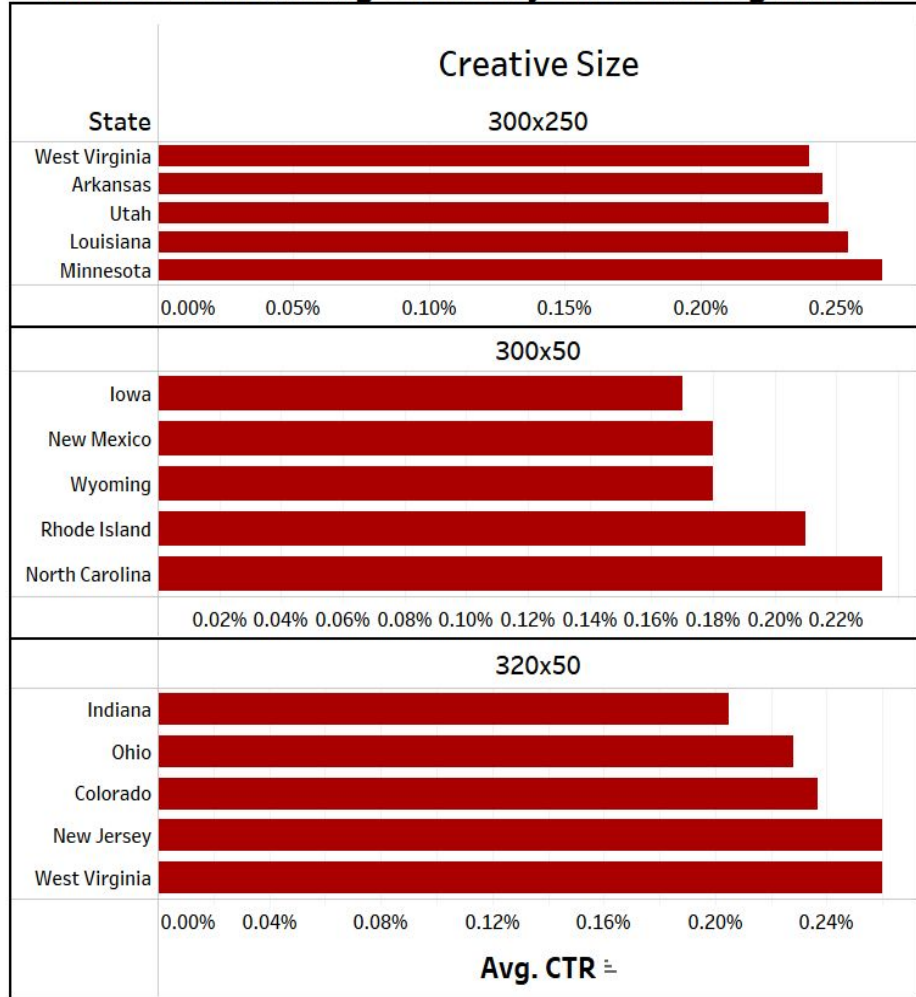




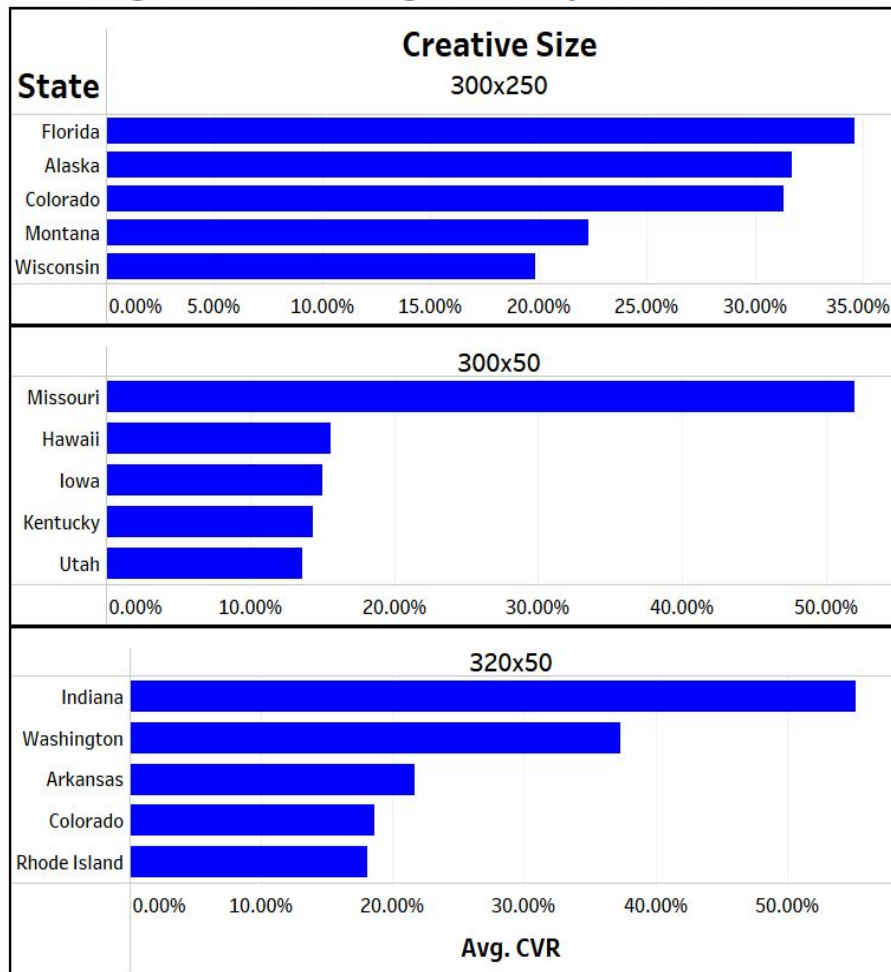
## Highest Performing States by Click-Through Rate



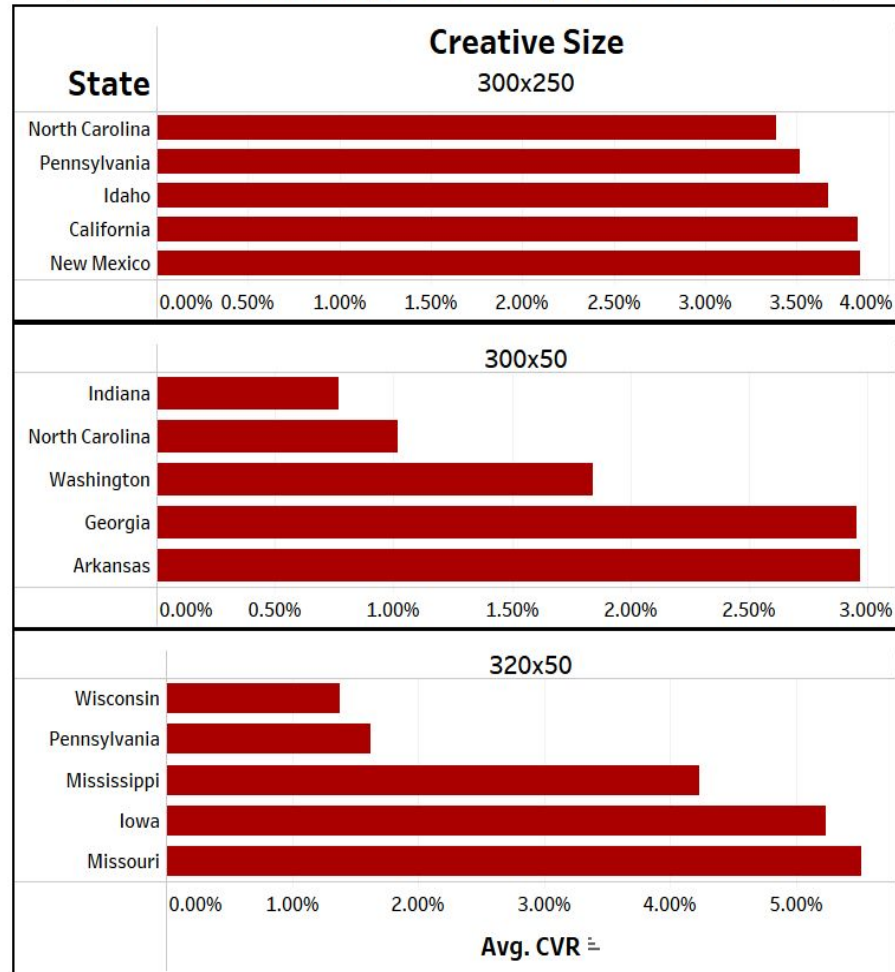
## Lowest Performing States by Click-Through Rate



## Highest Performing States by Conversion Rate




## Lowest Performing States by Conversion Rate



# Creative Recommendations

- Reallocate 70-80% of budget to higher-performing 320x50 creatives (6% lower CPA, 9% higher CVR) and limit 300x250 to 20-30% with strict \$700 CPA caps for optimal ROI
- Move more of the budget toward smartphone campaigns, as mobile users not only account for a high volume of traffic (with over 200,000 clicks within a year) but also convert in greater numbers. Focus on mobile ad networks to reach users where they're most engaged and most likely to take action
- Double down on the 320x50 format using proven messaging ("Subscribe Today–10% Discount" and "Sign Up Today–10% Off") and consider phasing out or minimizing investment in the 300x50 and 300x250 formats
- Consider phasing out the 300x250 format in Utah and reallocate the budget for that size towards the 300x50 and 320x50 sizes
- Consider phasing out the 320x50 format in Iowa and reallocate the budget for that size towards the 300x50 size
- Consider phasing out the 300x50 format in Indiana and test out the 320x50 size, while creating more 320x50 sizes



# **05 Inventory Performance**

# Top 5 Performing Exchanges

## Cost

- Kargo
- GumGum
- Sovrn

## CTR

- Index Exchange
- Google Ad Manager
- Sovrn

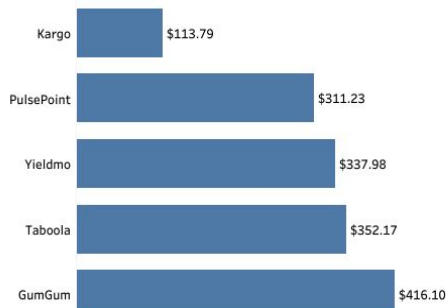
## CVR

- PubMatic
- Magnite DV+
- Google Ad Manager

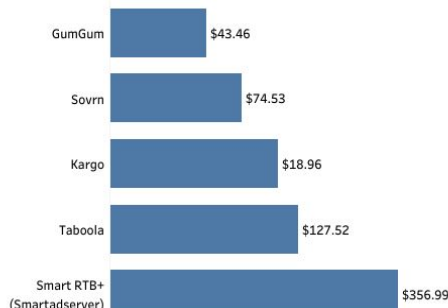
## Viewability

- Google Ad Manager
- AppNexus
- Index Exchange

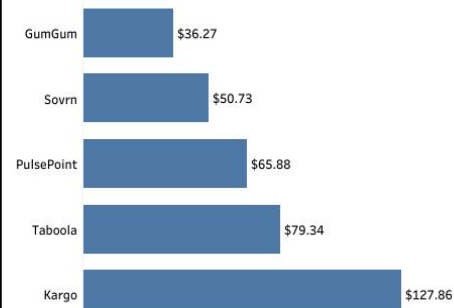
### AVG CPA (Cost Per Acquisition)



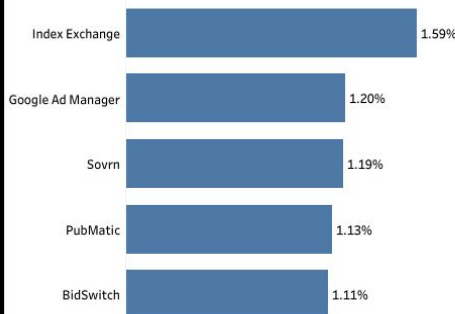
### AVG CPC (Cost Per Click)



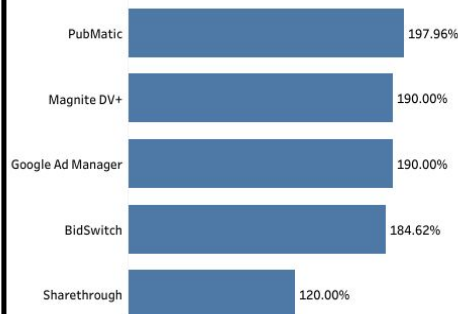
### AVG CPM (Cost per Mille)



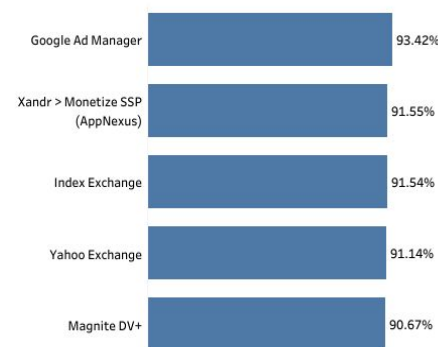
### CTR (Click Through Rate)



### CVR (Conversion Rate)



### Viewability

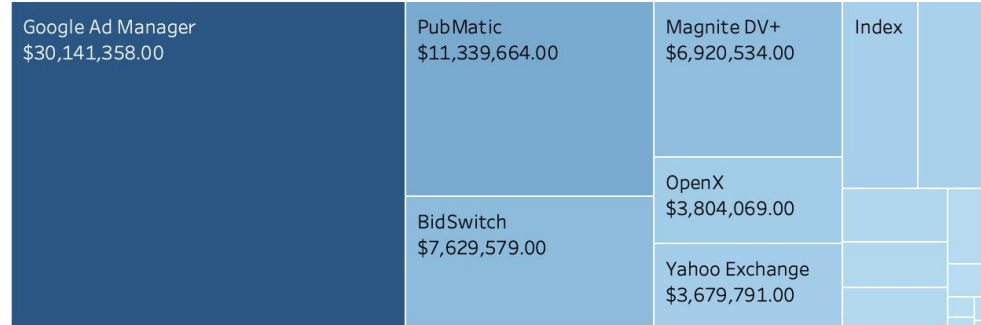


# Impressions

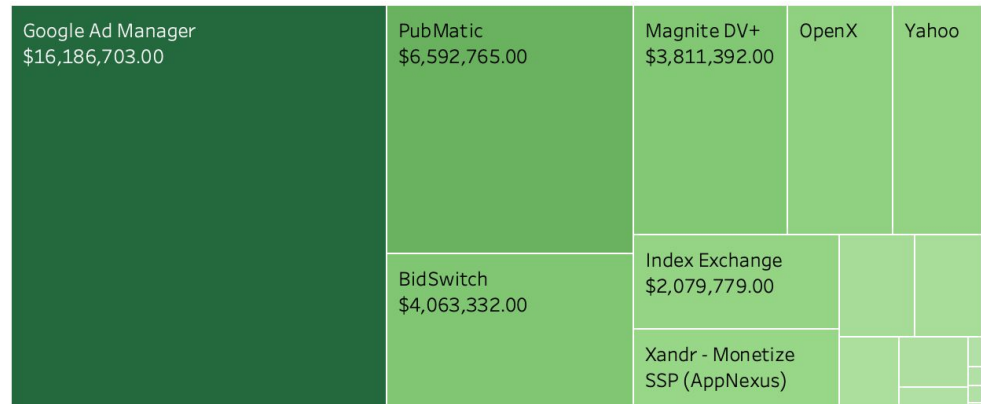
## Google Ad Manager

- **Measurable Impressions:** \$30.14M
- **Viewable Impressions:** \$16.19M
- It has the highest totals, but also shows a decrease from measurable to viewable impressions.
- All platforms show fewer viewable impressions than measurable ones

### Measurable Impressions



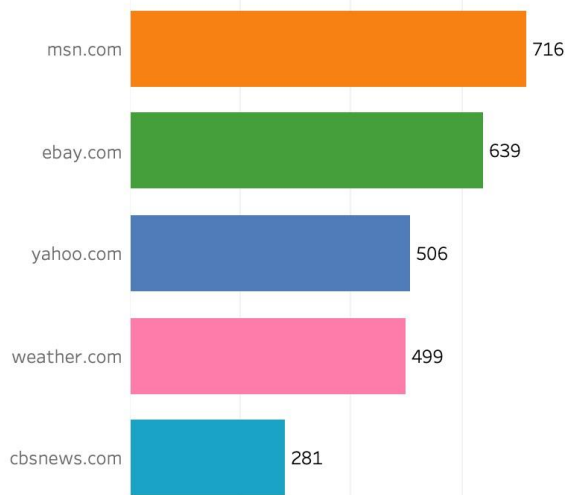
### Viewable Impressions



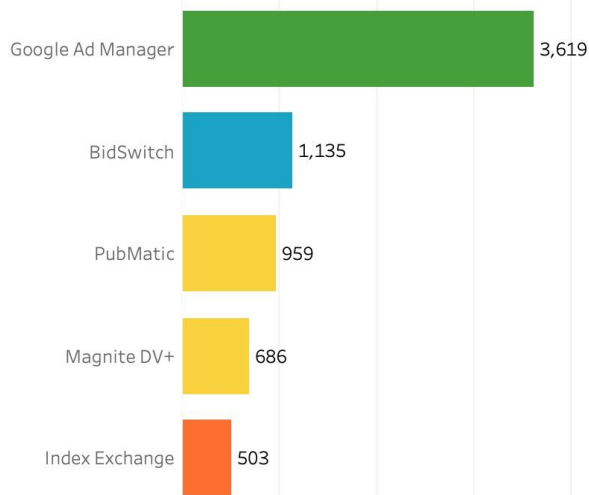
# Conversion Rates

Based off of the dataset provided, these were the Top 5 Websites and Exchanges calculated for Total Conversions made

Top 5 App URL (Websites) by Total Conversions



Top 5 Exchanges (Publishers) by Total Conversions

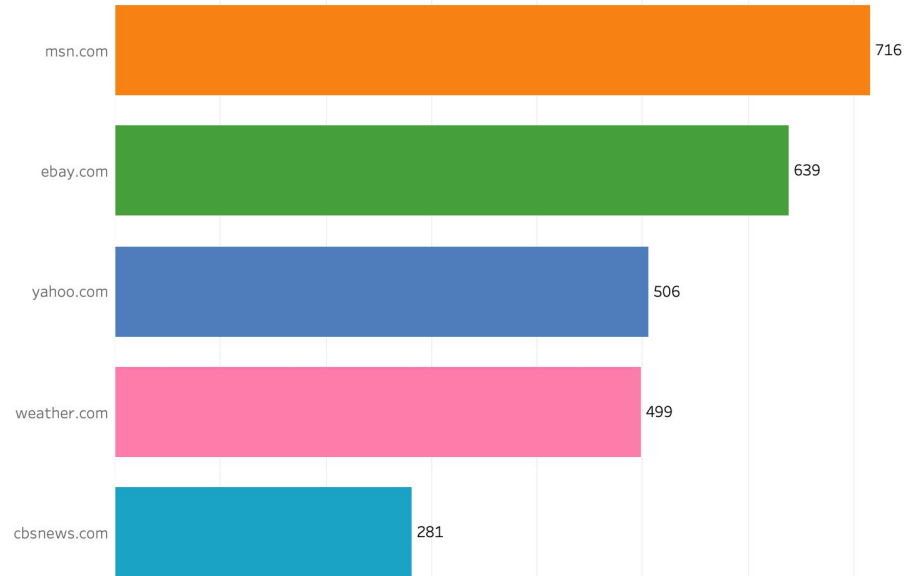


# Conversion Rates (Cont.)

## Top 5 Websites

- **MSN.COM** - a webportal provided by Microsoft that offers news, weather, sports, finances, and other content
- **EBAY.COM**- a multinational e-commerce company based in San Jose, California that allows users to buy and sell items via online marketplaces
- **YAHOO.COM** - a webportal that provides a search engine and related services such as e-mail, finance, sports and entertainment.
- **WEATHER.COM** - a pay television channel owned by Weather Group, LLC, a subsidiary of Allen Media Group
- **CBSNEWS.COM** - news division of the American television and radio broadcaster CBS.

Top 5 App URL (Websites) by Total Conversions



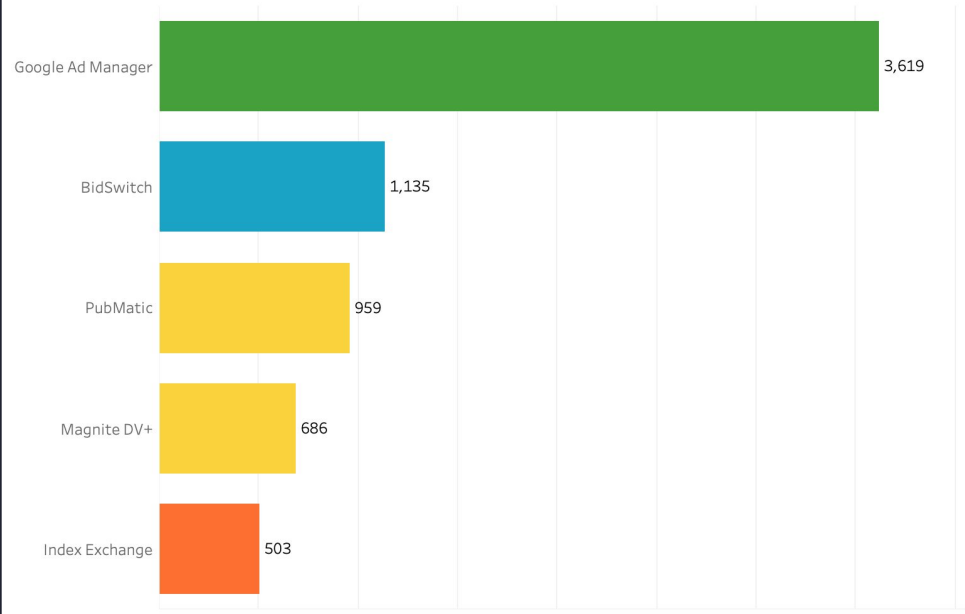


# Conversion Rates (Cont.)

## Top 5 Exchanges

- **GOOGLE AD MANAGER** - ad management platform introduced by Google for large publishers who have significant direct sales
- **BIDSWITCH** - subsidiary of CRITEO, an advertising company that provides online display advertising
- **PUBMATIC** - developer and implementer of online advertising software and strategies for digital publishing ad advertising industry.
- **MAGNITE DV+** - cross-channel programmatic advertising
- **INDEX EXCHANGE** - platform that enables media owners to grow revenue and marketers to reach consumers on any screen, through an ad format

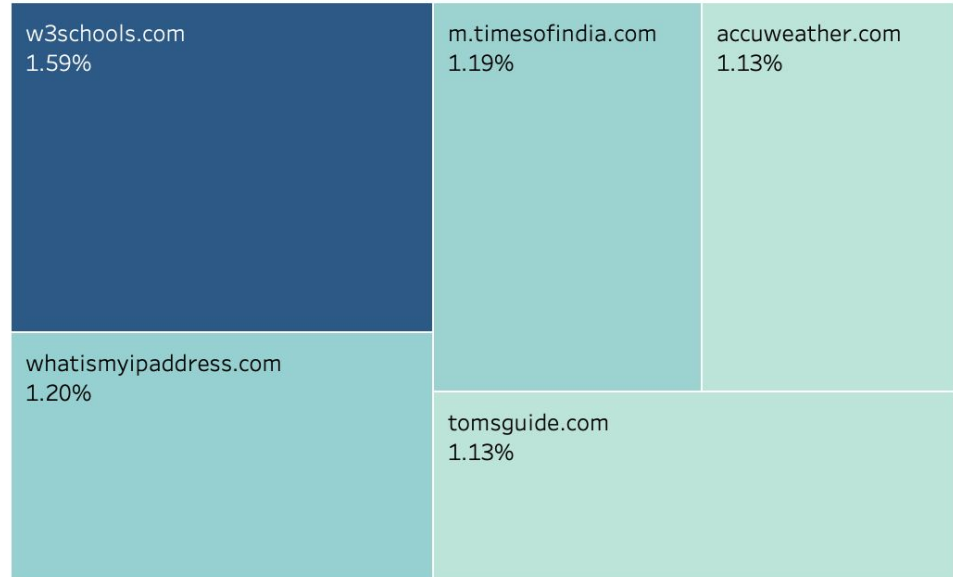
Top 5 Exchanges (Publishers) by Total Conversions



# Top 5 Websites to Contract for Direct Buy by Click Through Rate

- W3schools.com (1.59%)
  - An educational website that is free and teaches web development.
- Whatismyipaddress.com (1.20%)
  - A website that makes it easy for users to quickly find out and understand what their IP address is.
- m.Timesofindia.com (1.19%)
  - Major news outlet that provides articles and information in a format optimized for a mobile version.
- Accuweather.com (1.13%)
  - A website that provides weather-related services, such as weather forecasts and warnings.
- Tomsguide.com (1.13%)
  - A popular online publication that is known for product reviews, guides and news articles that focuses on content related to technology

## CTR



# Inventory Recommendations

- **Focus marketing efforts towards Google Ad Manager**

We recommend this since Google Ad Manager brings in nearly three times more conversions than any other exchange.

- **Review Google Ad Manager Inventory**

Consider reviewing ad placements to find ways to improve viewability, such as where ads appear on the page or how quickly the page loads.

- **Consider improving spending towards high-viewability platforms**

Due to platforms like Pubmatic and Magnite DV+ showing better viewability rates, we recommend increasing spending on these platforms because it would be beneficial for viewability KPI.

- **Focus direct buys on high-CTR websites to boost user engagement and improve ad performance.**

[W3Schools.com](https://www.w3schools.com) Performs well likely due to its educational content. We recommend using this website for campaigns aimed at tech-savvy or professional audiences.



# 06 Conclusion



# THANKS!



**Do you have any questions?**

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