

Marketing Data and Technology



Draw Insights from
Marketing Data



Part One: Setting Goals



Identify Key Business Objectives

Key Business Objective: A defined goal or outcome used to plan the desired direction of your company. Write at least 3 but no more than 5 business objectives that support your business model. Each objective should be SMART.

1	<i>Drive at least 50 leads to my website every week</i>
2	<i>Reduce monthly bounce rate by 30%</i>
3	<i>Move customers to action on the customer journey</i>
4	<i>Create Brand Awareness</i>
5	<i>Key Business Objective 5 (optional)</i>



Identify Key Performance Indicators

Key Performance Indicator (KPI): A quantifiable metric used to determine how effectively your key business objectives are being met. Ensure that the specific metric is clearly identified.

1	<i>Number of Ads Click Per Day</i>
2	<i>Number of Website Interactions/Page Views</i>
3	<i>Number of Purchases</i>
4	<i>Number of referred users from third party websites</i>
5	<i>Key Performance Indicator 5 for Key Business Objective 5 (optional)</i>



Part Two: A/B Testing Proposal



A/B Testing Proposal: KPI, Variable, and Hypothesis

KPI used as the basis for an A/B Test:

Number of Ads Click Per Day

Identify a variable that will have an impact on the KPI and metric

Two versions of sponsored ad (Social media ad and email ad)

Determine a hypothesis for your A/B Test. Your hypothesis should include the variable you are testing and your predicted outcome.

I predict that the Social media ad will generate a higher conversion rate at the end of the A/B test than the Email Marketing Ad



A/B Testing Proposal: Testing Process

Describe the steps you would take to perform the A/B test.

For the social media ad, I will promote organic content and also employ the service of a social media influencer to generate more social media ad clicks.

For the email ad clicks, I will send emails with a link to my website's landing page to my target audience

Describe how you would determine the results of the A/B test.

At the end of at least 2 weeks, I'll take a look at the outcomes of the two versions and be able to tell which version generated more clicks to my website. With that information, I can use the more effective version for future campaigns.



Part Three: Data Exploration



Reports Snapshot

From the Reports Snapshot, select a twelve month time period you would like to explore.

Ensure that the following are visible in the screenshot:

- Timeframe
- New users
- Axis values

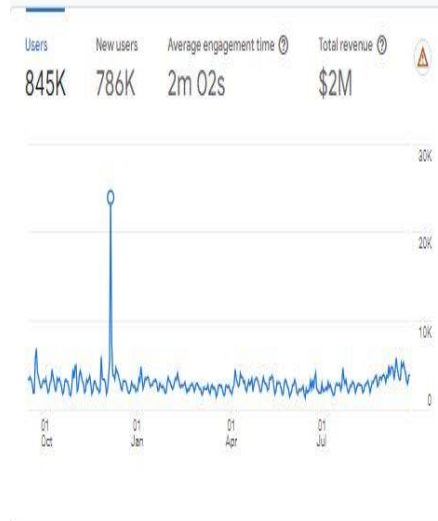


Reports Snapshot

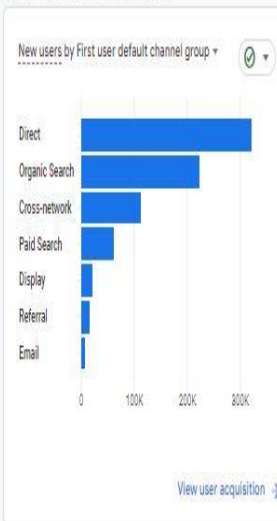
Reports snapshot



You asked: Which month had the most new users, and which month had the ...



WHERE DO YOUR NEW USERS COME FROM?



WHAT ARE YOUR TOP CAMPAIGNS?



Bottom Month by New users for Unestablished Users

Sep 22, 2022 - Sep 21, 2023

MONTH	NEW USERS
03	50K
06	54K
05	58K
02	58K
07	58K
10	63K
04	64K
11	65K
01	66K
08	69K

Was this answer helpful?

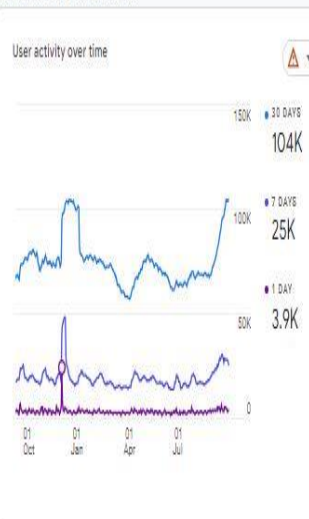
Related Results

Bottom Month by New users for Unestablished Users

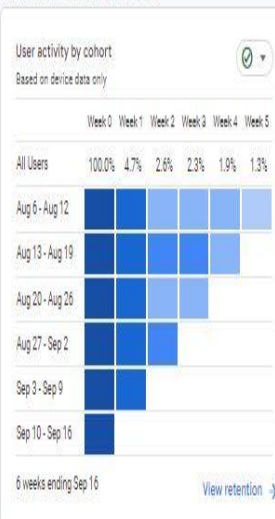
Suggested Questions



HOW ARE ACTIVE USERS TRENDING?



HOW WELL DO YOU RETAIN YOUR USERS?



WHICH PAGES AND SCREENS GET THE MOST VIEWS?



WHAT ARE YOUR TOP EVENTS?

Event count by Event name

EVENT NAME	EVENT COUNT
view_promotion	6M
page_view	5.8M
view_item_list	4.2M
user_engagement	4.1M
scroll	2.3M
session_start	1.3M
view_item	1.1M

WHAT ARE YOUR TOP CONVERSIONS?

Conversions by Event name

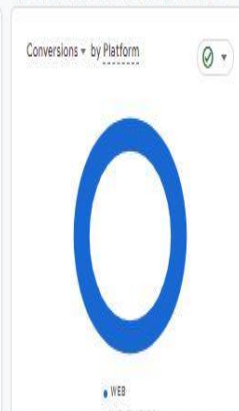
EVENT NAME	CONVERSIONS
page_view	2M
first_visit	807K
view_item	733K
predicted_top_spend...	425K
view_cart	146K
add_to_cart	71K
begin_checkout	53K

WHAT ARE YOUR TOP SELLING PRODUCTS?

Items purchased by Item name

ITEM NAME	ITEMS PURCHA...
Google Pen White	5.5K
Google Cloud Sticker	4.1K
Google Cloud Sticker	3.8K
Google Cloud Sticker	3.3K
Google Cloud Sticker	2.3K
Google Cloud Sticker	2.3K
Google Cloud Sticker	2.1K
Google Cloud Sticker	2K

HOW DOES ACTIVITY ON YOUR PLATFORMS COMPARE?



Activate Windows
Go to Settings to activate Windows.



Reports Snapshot

Which month had the most new users, and which month had the fewest new users?

August had the most new users while March had the fewest new users

Do you have any ideas why certain trends are associated with these specific months?

I assume there are holidays or special celebrations in the month with most new users and little or no activity in the month with the fewest new users in the US because most news users are from the US.

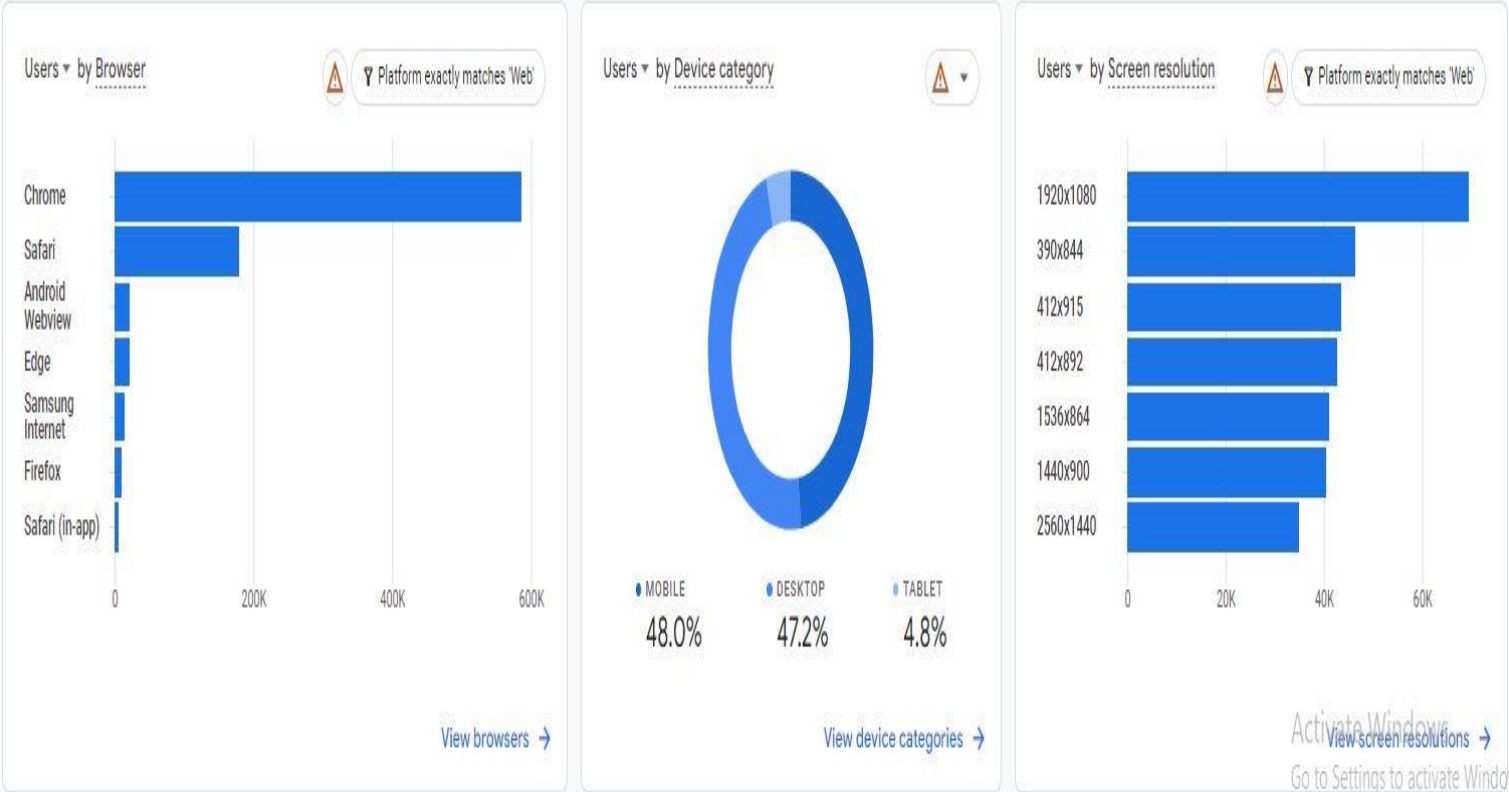
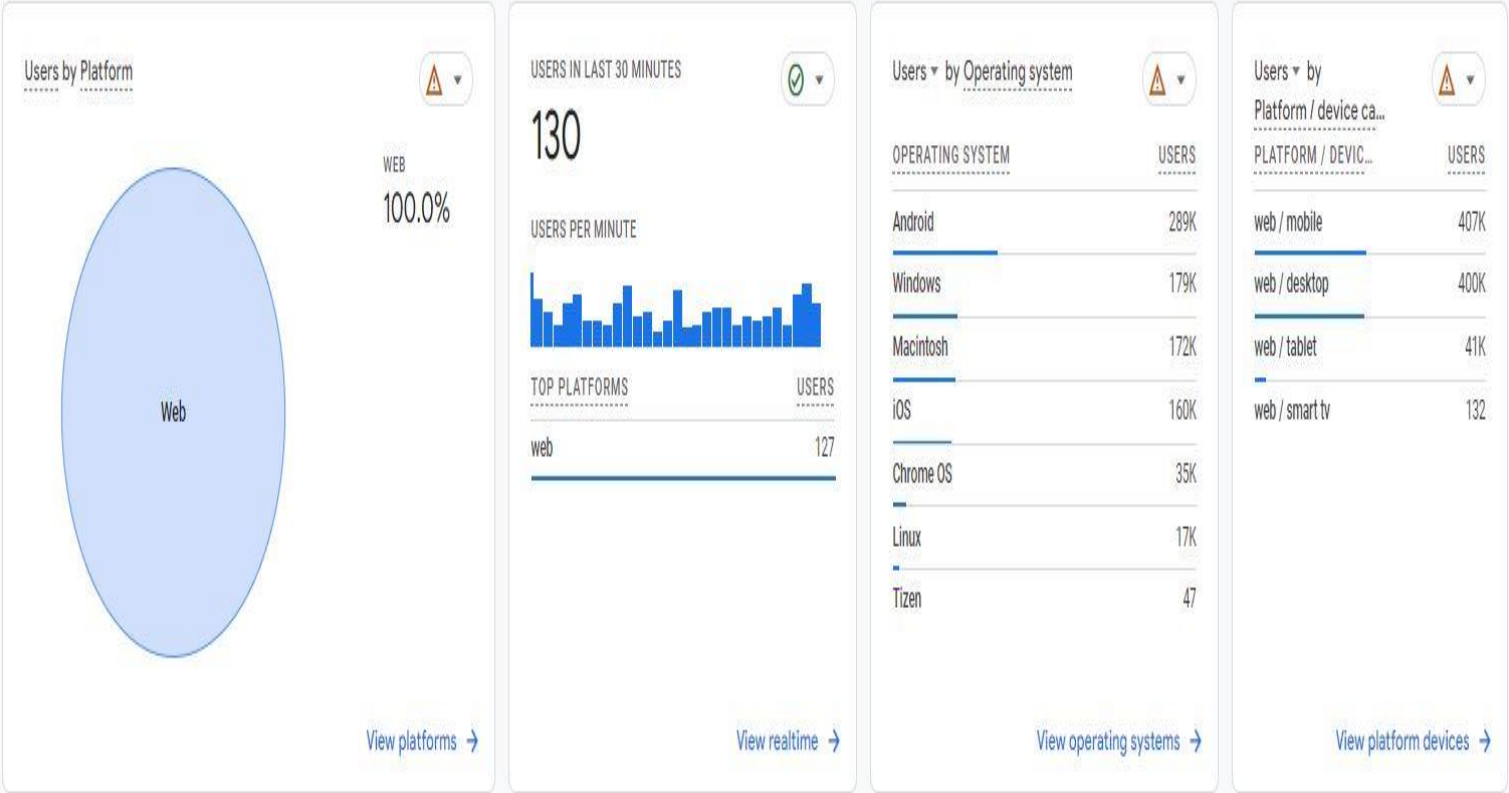
Please go into the User → Tech → Tech overview report for the following:

For the twelve month period you've chosen, provide a screenshot showing percentage chart (donut charts) of All Users that came from mobile, desktop, and tablet devices.

Ensure that the following are visible in the screenshot:

- Device Category
- Donut chart showing % breakdown by device

Note that the time frame selected does not need to be visible in the screenshot..





User Acquisition

For this section, if you are using your own business's Google Analytics data but do not have eCommerce capabilities established, please use the Google Analytics demo data provided from the Google Merchandise store.

Take a screenshot that shows the Engagement rate of the different acquisition channels over a 12 month period.

Ensure that the following are visible in the screenshot:

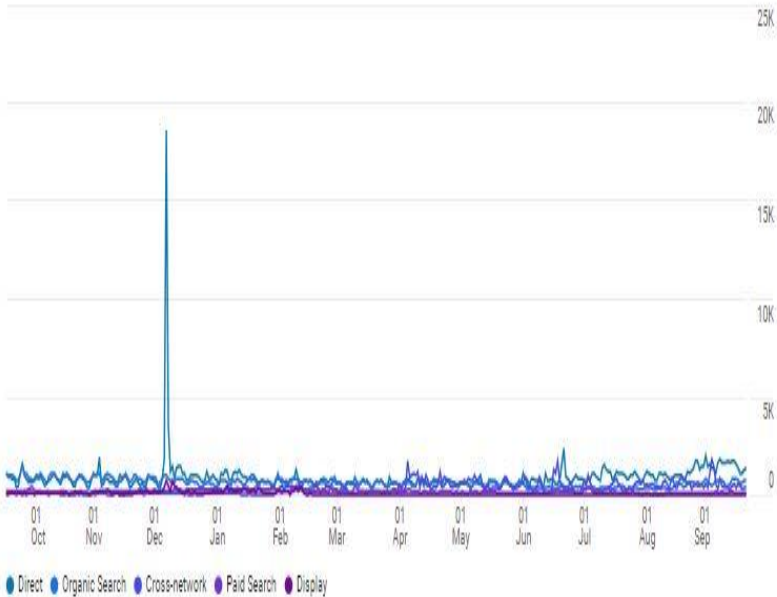
- Channel group
- Users
- Engagement Rate

Note that the time frame selected does not need to be visible in the screenshot, but will be reflected by the number of users.

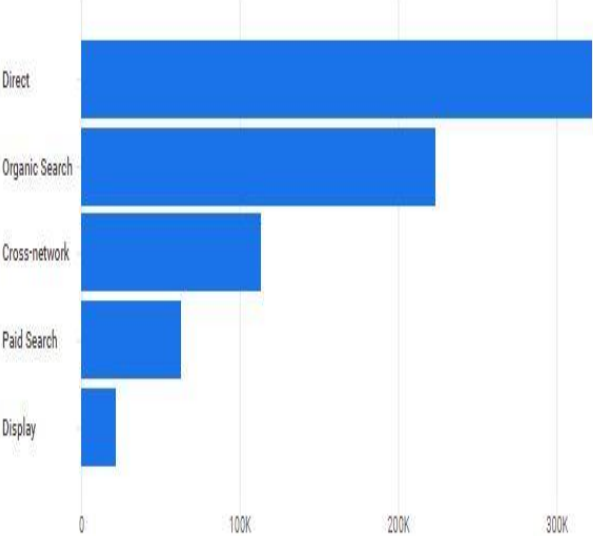
User Acquisition



New users by First user default channel group over time



New users by First user default channel group



Search...

Rows per page: 10 Go to: 1 < 1-10 of 13 >

First user default channel group		New users	Engaged sessions	Engagement rate	Engaged sessions per user	Average engagement time	Event count	Conversions	Total revenue
		786,017 100% of total	1,032,726 100% of total	80.5% Avg 0%	1.22 Avg 0%	2m 02s Avg 0%	28,423,578 100% of total	4,331,316.00 100% of total	\$1,966,022.85 100% of total
1	Direct	322,566	487,463	75.99%	1.31	2m 32s	15,001,250	2,012,565.00	\$1,351,720.13
2	Organic Search	223,380	281,652	83.49%	1.24	1m 37s	7,406,849	1,055,306.00	\$381,661.33
3	Cross-network	113,341	132,443	91.16%	1.15	1m 16s	1,886,388	436,659.00	\$36,614.22
4	Paid Search	62,881	73,233	81.03%	1.16	0m 41s	842,468	168,763.00	\$15,139.33
5	Display	22,156	20,690	68.13%	0.93	0m 35s	344,903	44,222.00	\$0.00
6	Referral	16,118	24,649	85.89%	1.46	2m 59s	908,727	93,363.00	\$62,857.89
7	Email	7,034	13,706	79.22%	1.93	6m 24s	628,133	50,360.00	\$88,081.66
8	Organic Social	6,827	9,812	80.58%	1.39	3m 16s	329,605	45,411.00	\$28,349.64
9	Organic Video	3,577	2,984	67.15%	0.83	0m 50s	65,328	5,471.00	\$159.60
10	Unassigned	3,233	2,628	60.25%	0.82	0m 09s	927,457	407,207.00	\$0.00



User Acquisition

During the twelve month period you've selected, which channel groups had the highest and lowest engagement rates and the highest and lowest total revenue?

The channel with the highest engagement rate is the Cross Network channel while lowest engagement rate is the unassigned channel

The channel with the highest total revenue is the direct channel while Organic video channel has the lowest total revenue. Unassigned & Display has 0 as total revenue.

What do these metrics mean, based on your experience?

The metrics means that most new users visited the Google Merchandise store by directly searching for the website on their browser, users that visited the website through the direct channel also has the highest engagement sessions, conversion and total revenue

Monetization



For this section, if you are using your own business's Google Analytics data but do not have eCommerce capabilities established, please use the Google Analytics demo data provided from the Google Merchandise store.

During the twelve month period you've selected, provide a screenshot that shows the Item name that contributed the highest number of unique purchases and the item name that was responsible for the largest percentage of revenue? (Screenshot(s) only; no annotation required.)

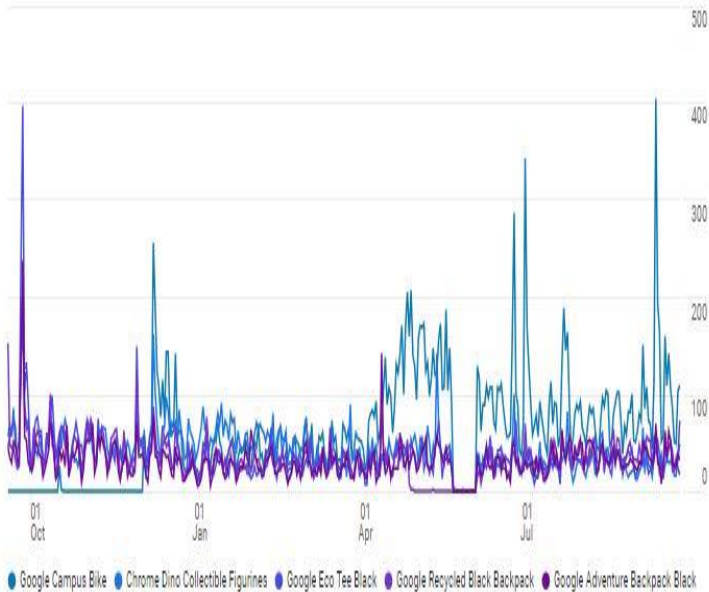
Ensure that the following are visible in the screenshot:

- Item names
- Number of items purchased
- Item revenue

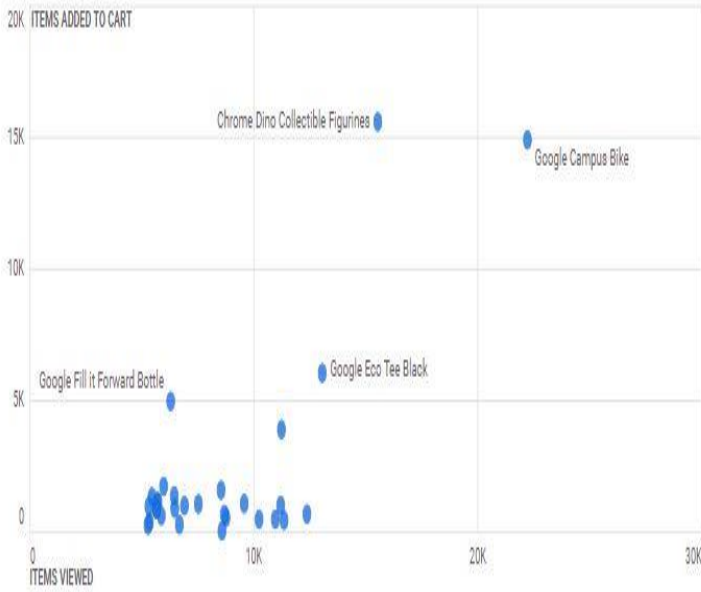
Monetization



Items viewed by Item name over time



Items viewed and Items added to cart by Item name



Search...		Rows per page: 10 Go to: 1 1-10 of 697			
Item name		Items viewed	Items added to cart	Items purchased	Item revenue
		1,132,294 100% of total	164,148,883,538,535 100% of total	138,568 100% of total	\$1,965,982.85 100% of total
1	(not set)	27,857	0	2	\$0.00
2	Google Campus Bike	22,233	14,891	400	\$17,811.00
3	Chrome Dino Collectible Figurines	15,549	15,573	292	\$8,988.00
4		14,772	0	0	\$0.00
5	Google Eco Tee Black	13,069	6,024	0	\$0.00
6	Google Recycled Black Backpack	12,387	660	208	\$15,750.00
7	Google Adventure Backpack Black	11,363	427	134	\$14,185.60
8	Super G Timbuk2 Recycled Backpack	11,247	3,879	198	\$20,500.00
9	Chrome Dino Dark Mode Collectible	11,214	990	302	\$8,292.00
10	Pixel Superfan Dark Mode Bottle	10,972	466	202	\$10,086.10

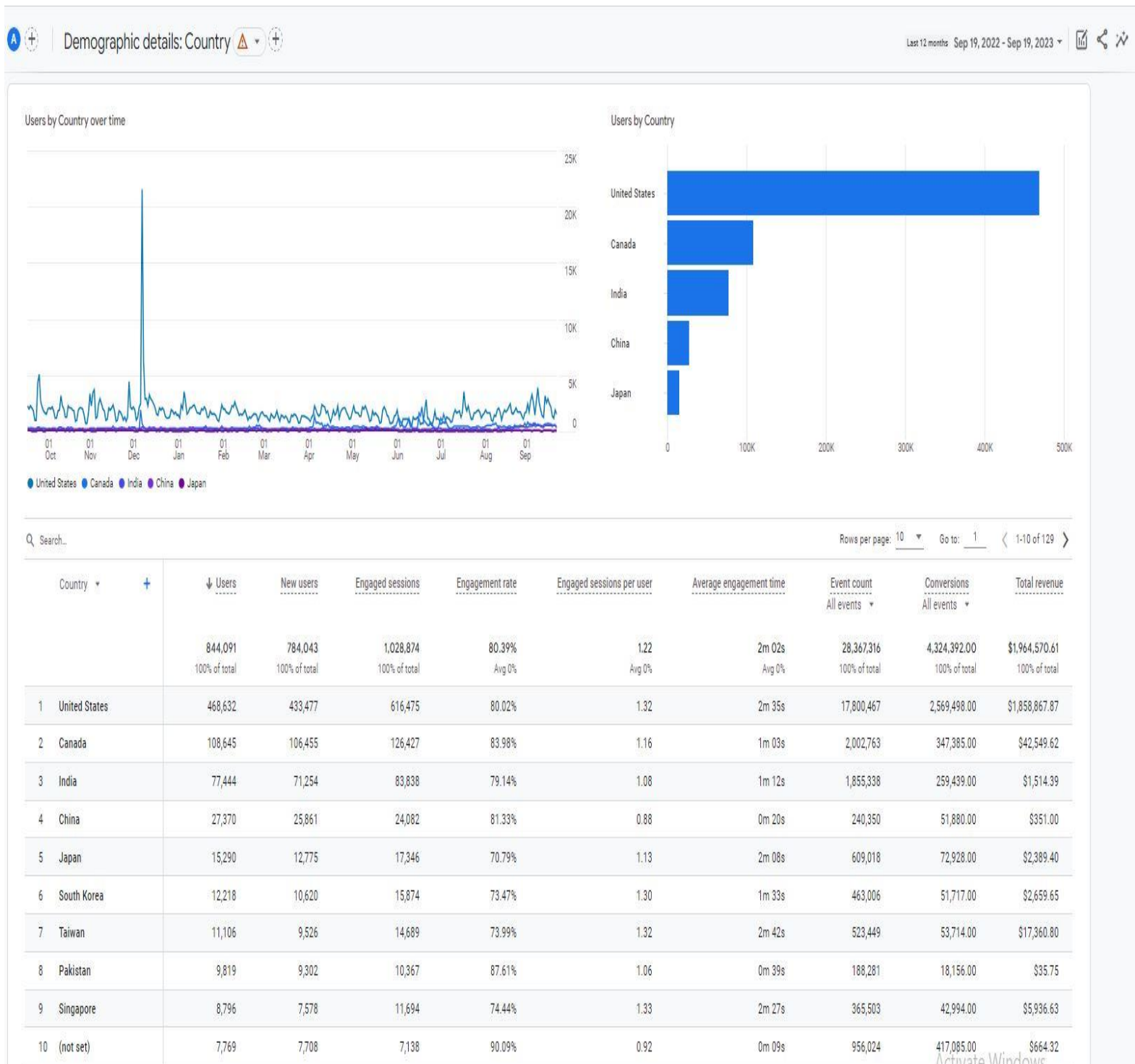


Part Four: Segmentation

Audience Segment: Demographics

Insert the screenshot of a view (such as the Reports snapshot) that includes a comparison of your chosen Audience Demographic segment and “All Users”.

Write down or include a screenshot of the values used to create the segment.





Audience Segment: Demographics

Total number of users within the period Sep 19 202 – Sep 19 2023 is 844,091 as shown in the screenshot.

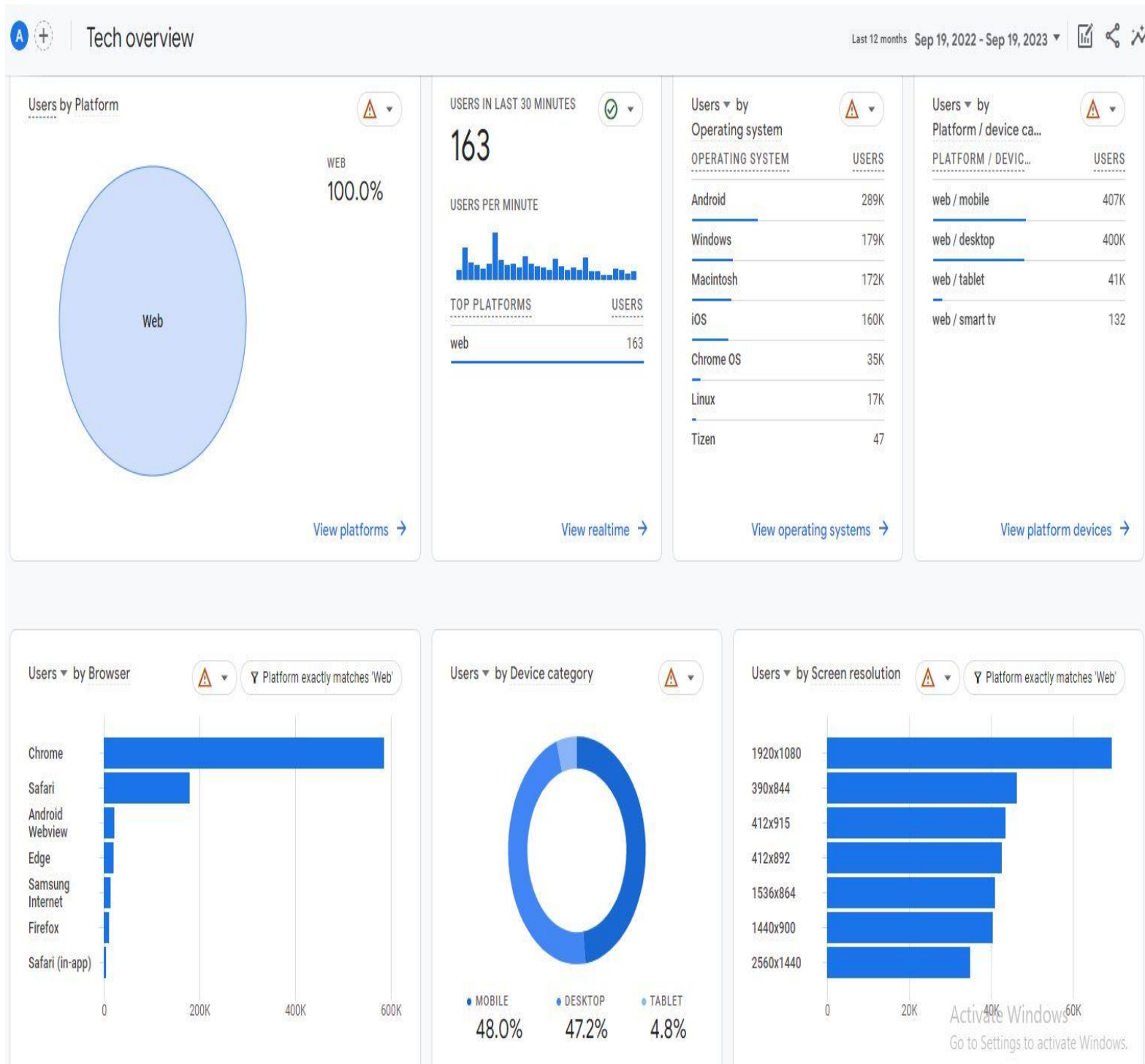
Most users are from the US, with the most conversion and total revenue.

Audience Segment: Technology



Insert the screenshot of a view (such as the Reports snapshot) that includes a comparison of your chosen Technology segment and “All Users”.

Write down or include a screenshot of the values used to create the segment.





Audience Segment: Technology

In the screenshot, 100% of users are from the web. However, to distinguish by browser, most users came to the website through chrome followed by safari which means also and is shown in the screenshot that most users are android users.



Part Five: Analysis and Suggestions



Analysis and Suggestions: Business Sales Growth

Analyze your existing marketing campaigns to grow your business. In order to complete this section using your own data, you must have the required data (Campaign, Cost, Revenue, ROAS) for a minimum of two campaigns. If you do not have at least two campaigns or are missing some of the necessary data, you can use the [2021 GSMM Solar YouTube Ad Sales Funnel Campaigns Pitch Deck](#) to answer this question. You are also welcome to add additional data beyond what is specified.

If using your own data, complete the following table adding rows as necessary. If using the provided GSMM Pitch Deck, delete the table.

Analysis and Suggestions: Business Sales Growth



Based on the data and other information provided, how might the campaigns be realigned and improved to potentially achieve a 20% YOY sales growth? You can assume that the c\data will remain consistent over the projected time frame. Please reference specific data to support your answer like metrics and campaigns.

Based on the data provided, I will remarket the Youtube ads keywords campaign because it doesn't cost as much as other campaigns as shown in the screenshot below, although it has the second to last number of views, it brought the most conversion. To achieve a 20% YOY sales growth, I will increase the budget for the Youtube ads keyword campaign

A	B	C	D	E	F	G	H	I	J	K	L
Google Ads Campaigns Reports January 1, 2021 - December 31, 2021											
Campaign	Bid strategy type	Campaign type	Cost	Clicks	Avg. CPC	Earned subscribers	Views	Avg. CPV	Conversions	Cost / conv.	CTR
Solar Leads - In-Stream RT - Conversions	Maximize Conversions	Video	1760.23	9,964	0.18	1-20	41,677	0.04	20	88.01	3.04%
Google Hangout Video Call	Manual CPV	Video	0.01	0	--	0	1	0.01	0	0	0.00%
Solar Subscribers - Discovery Keywords - CPV	Manual CPV	Video	4344.11	0	--	1,040	185,217	0.02	0	0	0.00%
Search- SMM Leads- CPC Enhanced	CPC (enhanced)	Search	32.97	7	4.71	0	0	--	0	0	6.03%
How To Get Sales With YouTube Ads	Manual CPV	Video	691.38	0	--	323	51,260	0.01	0	0	0.00%
YouTube Strategy Call - YouTube Ads Keywords	Maximize Conversions	Video	142.67	122	1.17	0	1,186	0.12	88	1.62	1.72%
Linkedin Recruiting Video Subs	Manual CPV	Video	22.28	0	--	1-20	2,005	0.01	0	0	0.00%
Course Creator Subscribers - Discovery Keywords - CPV	Manual CPV	Video	445.43	0	--	1-20	3,802	0.12	0	0	0.00%
Maximize Conv - Solar Sales Calls - Custom Intent	Maximize Conversions	Video	920.59	655	1.41	1-20	3,527	0.26	6	153.43	2.56%
Ecommerce Sales Subscribers - Discovery - CPV	Manual CPV	Video	72.89	0	--	1-20	742	0.1	0	0	0.00%
3.99 Ebook Sales Conversions - Keywords	Maximize Conversions	Video	576.03	452	1.27	0	8,936	0.06	2	288.01	0.75%
Contact Us Page Conversions	Maximize Conversions	Video	36.28	86	0.42	0	1,183	0.03	0	0	0.87%
Solar Leads - In-Stream Solar Exclusive Website - Conversions	Maximize Conversions	Video	323.81	302	1.07	0	2,852	0.11	0	0	2.03%
Solar Leads - In-Stream Solar Cheat Code Website - Conversions	Maximize Conversions	Video	270.11	318	0.85	0	2,002	0.13	0	0	2.07%
Solar Search- Solar Leads KY - Conversions	Maximize Conversions	Search	40.39	15	2.69	0	0	--	0	0	1.10%
Total: Campaigns			9679.18	11,921	0.81	1,393	304,390	0.03	116	83.44	0.14%
Total: Account			9679.18	11,921	0.81	1,393	304,390	0.03	116	83.44	0.14%
Total: Display		Display	0	0	--	0	0	--	0	0	--
Total: Discovery		Discovery	0	0	--	0	0	--	0	0	--
Total: Search		Search	73.36	22	3.33	0	0	--	0	0	1.48%
Total: Video		Video	9605.82	11,899	0.81	1,393	304,390	0.03	116	82.81	0.14%



Analysis and Suggestions: eCommerce

Now you will evaluate the current state of eCommerce for your business and how it might be improved.

Looking at your website pages or the Google Merchandise store website and current eCommerce experience, identify one change to the eCommerce UX and one additional eCommerce option you would recommend implementing.

Example: One way to improve eCommerce capabilities would be to add the option of a digital wallet with the option to securely store and manage cards that have been used for payment, along with the option of using PayPal or ApplePay.

UX change:

To improve eCommerce user experience, I'll add the option of stripe. That way customers can accept payments and issue payouts anywhere in the world.

Other eCommerce change or addition:

An addition will be, to be able to connect with customers directly, which will make faster, the process of getting customer reviews and service feedback. This will in turn give a better understanding of the customers and how they view the Google Merchandise customer's service.



Analysis and Suggestions: Technology

Now you will look at your existing technology stack and make recommendations for the future. This should include at least two additional technologies that are not currently utilized, one of which is a new emerging technology.

If using your own business, provide both the existing technology stack and the recommended update which.

If you are not using your own business or do not currently have a technology stack, you can use the [GSMM 2021 Marketing Technology and Channels Spreadsheet](#) to answer this question or as a template to create your own.

I'll recommend the emerging visual and voice search technology as it'll help customers to search for products or information on the website seamlessly thereby improving the user experience.

Secondly, tracking tools like Google Data Studio can be implemented to allow the GSMM to tag, analyse, track and visualize user data and gain insights using the datas.