

Introducing the next generation of Analytics

Google Analytics 4

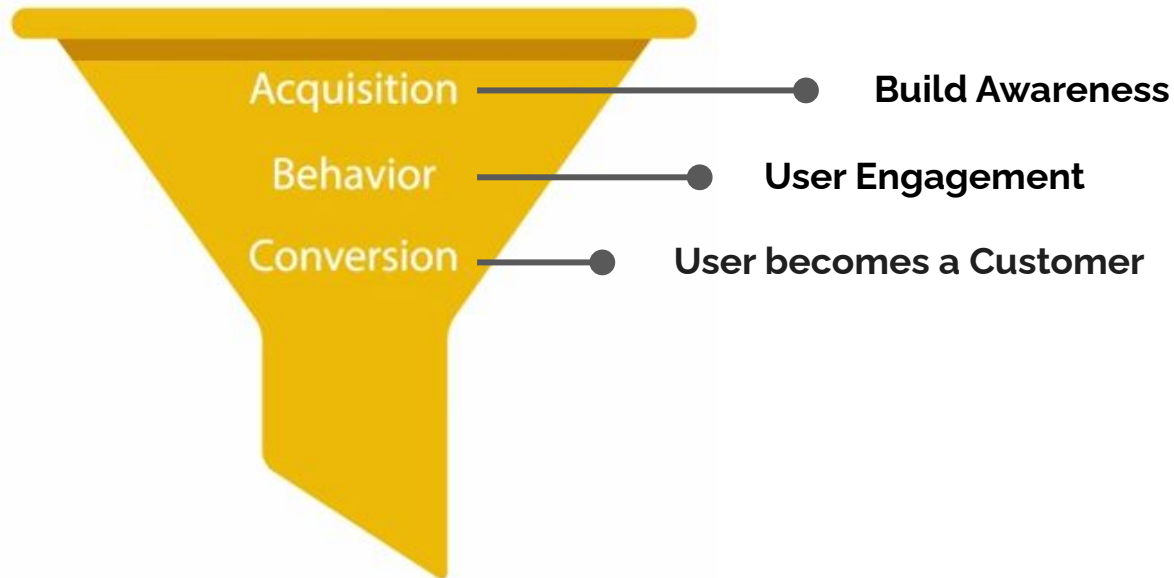
(GA4) 

Agenda

- The value of Digital Analytics
- What is GA4?
- How GA4 works?
- Access demo account
 - Home Page
- GA4 Structure
- Basic Setting
 - Data Collection
 - Data Retention
 - Report Identity
 - Attribution Setting
- Reports
 - Realtime
 - Life cycle
 - Acquisition
 - Engagement
 - Monetization
 - User
 - Demographics
 - Tech
- Events
- Dimension
- Metrics
- Exploration
 - Free form
 - Funnel exploration
 - Path exploration
 - Segment overlap
 - Blank

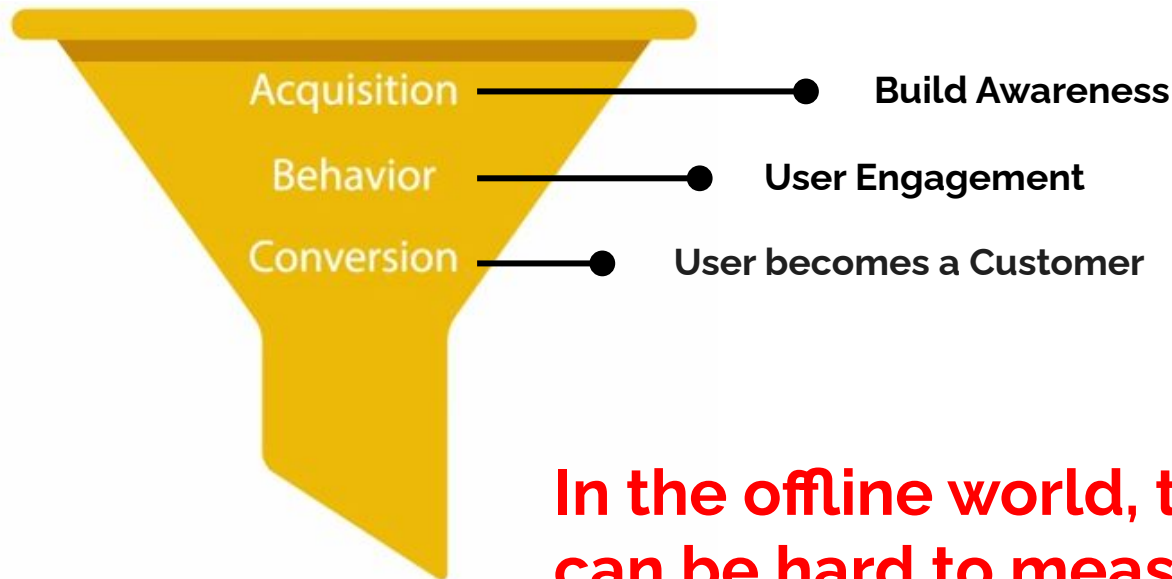
The value of Digital Analytics

In marketing, a **purchase funnel** reflects the different stages of customer engagement. A basic purchase funnel includes:



The value of Digital Analytics

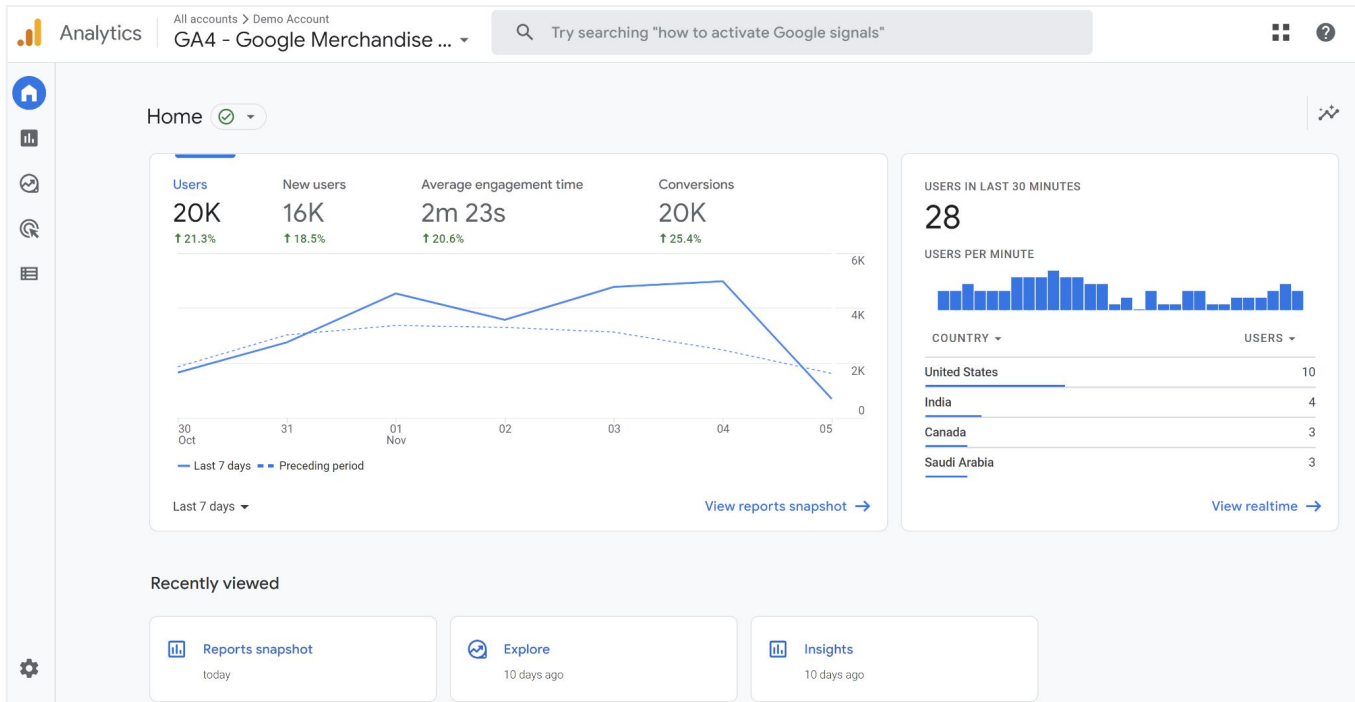
In marketing, a **purchase funnel** reflects the different stages of customer engagement. A basic purchase funnel includes:



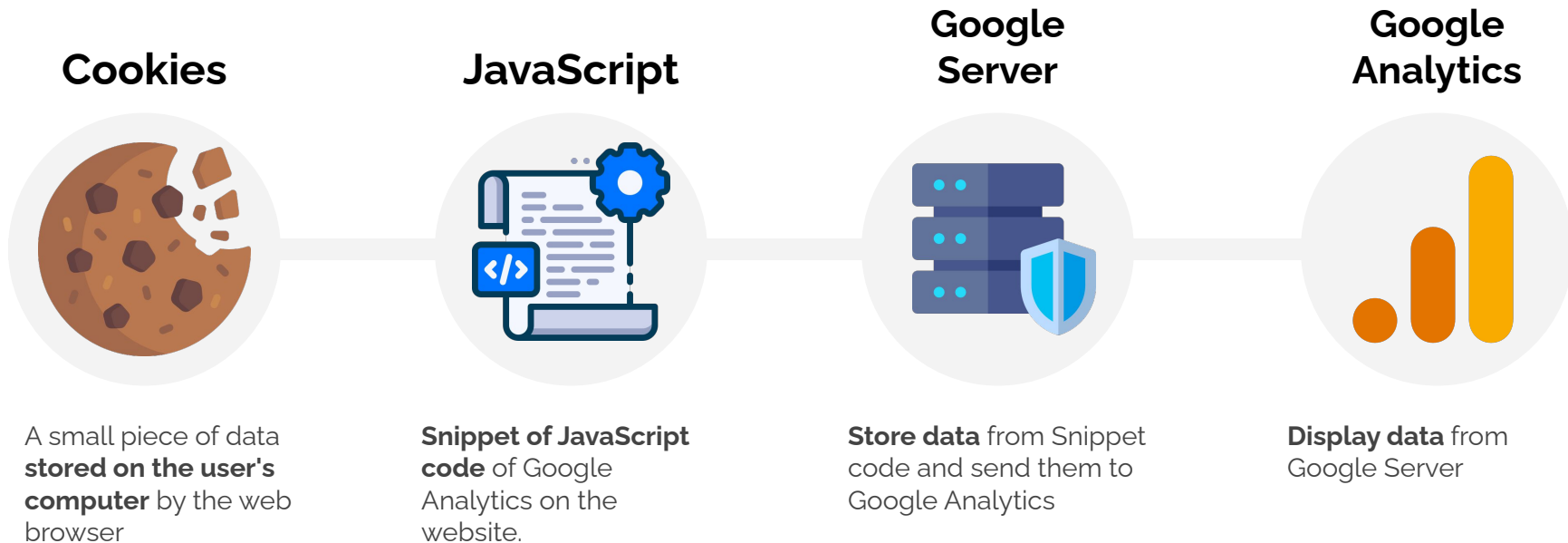
In the offline world, this process can be hard to measure.

What is GA4?

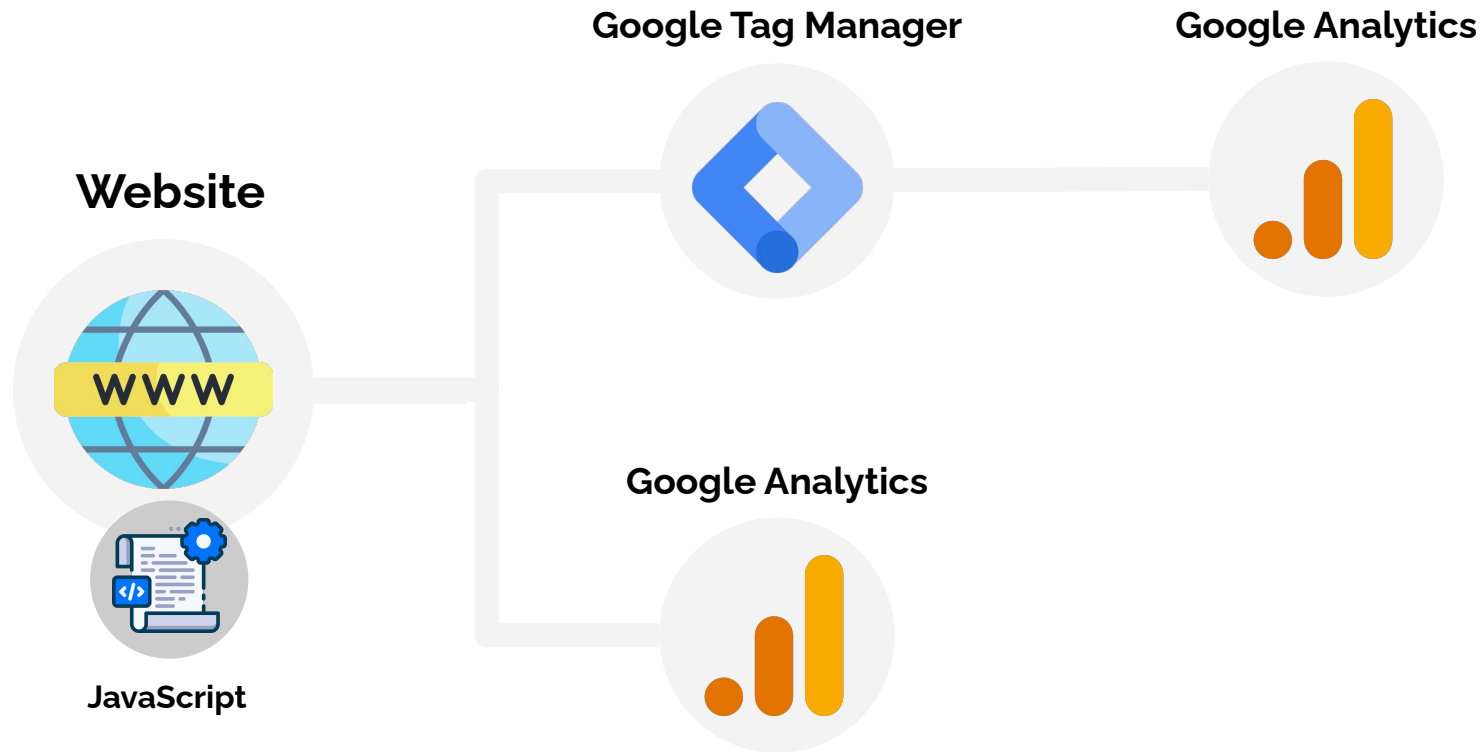
GA4 is a web analytics service offered by Google that tracks and reports website traffic.



How GA4 works?



How to collect data to GA4?



Access Demo Account

<https://support.google.com/analytics/answer/6367342?hl=en#zippy=%2Cin-this-article>

Access the demo account, which contains three properties, by clicking one of the following links based on the property you would like to access first. You can change to the other properties at any time by using the [account selector](#).

- [Google Analytics 4 property: Google Merchandise Store \(web data\) ↗](#)
- [Google Analytics 4 property: Flood-It! \(app and web data\) ↗](#)
- [Universal Analytics property: Google Merchandise Store \(web data\) ↗](#)

See below to [learn more](#) about what data these properties contain. You can [remove the demo account](#) at any time.

GA4 Structure

Account

Property A

Data Stream
Web

Data Stream
iOS

Data Stream
Android

Property B

Data Stream
Web

Data Stream
iOS

Data Stream
Android

Property C

Data Stream
Web


Data Stream
iOS


Data Stream
Android

Basic Setting




Data Collection Setting

Google signals data collection 

 Note that reporting/analysis will only reflect data collected under this setting where there is sufficient traffic for the property. [Learn more](#)


By activating Google signals, you enable Google Analytics to collect data about your traffic in addition to data collected through a standard Google Analytics implementation in order to provide additional features like cross-device audiences and insights.

When enabled, Google Analytics will collect visitation information and associate it with Google information from accounts of signed-in users who have consented to this association for the purpose of ads personalization. This Google information may include end user location, search history, YouTube history, and data from sites that partner with Google—and is used to provide aggregated and anonymized insights into your users' cross device behaviors. By enabling these features, you acknowledge you adhere to the [Google Advertising Features Policy](#), including rules around sensitive categories, have the necessary privacy disclosures and rights from your end users for such association, and that such data may be accessed and/or deleted by end users via [My Activity](#).


Google signals data collection is allowed in **306 of 306** regions. 

Note: Enabling the above toggle causes Google Analytics to automatically collect additional data about your traffic. If you don't want to collect data for Google signals, you should disable the toggle above as well as ensure that you have not [manually enabled](#) any Advertising Features data collection in your Google Analytics tags.



Granular location and device data collection 

When you activate granular location and device data collection, Analytics collects metadata about the city-level location and granular device details of your site and app visitors so it can provide location and device-based capabilities.

Granular location and device data collection is allowed in **306 of 306** regions. 

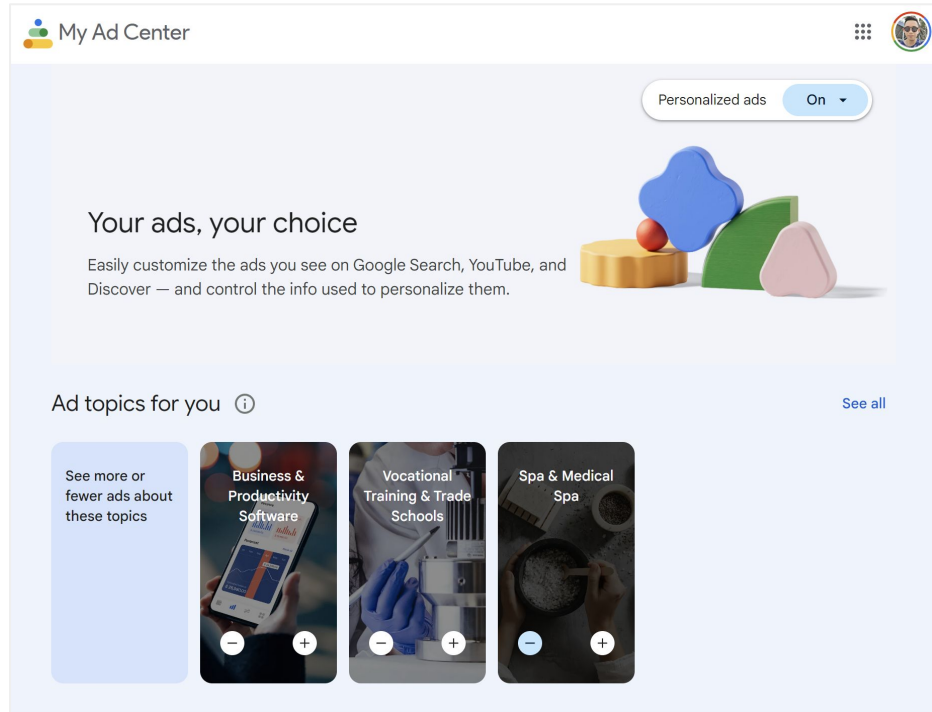
Region and country-level metadata is collected by default for all of your traffic in order to support regional privacy policies and region-based Analytics settings. To learn more about device and location data collection settings, see [Collect granular location and device data](#).



Google Signals

Google signals are session data from sites and apps that Google associates with users who have **signed in to their Google accounts**, and who have **turned on Ads Personalization**.

<https://myadcenter.google.com/>



Data Retention Setting

User and event data retention

You can change the retention period for data you send that is associated with cookies, user identifiers, or advertising identifiers. These controls don't affect most standard reporting, which is based on aggregated data. Changes to these settings take effect after 24 hours. [Learn more](#)

Event data retention ?

14 months


Reset user data on new activity ?




Save



Cancel

Reporting Identity

 **Blended**

This identity evaluates: user ID, Google signals, device ID, modeled data.



 1 inactive method 

Uses the first available method, in this order:

User ID


Uses a customer-supplied ID to differentiate between users and unify events in reporting and exploration.

Google signals

Uses information from users who are signed in to Google and who have consented to sharing this information.

Device ID

Uses the client ID for websites or the app Instance ID for apps.

 **Modeling** BETA

Estimates user activity when identifiers such as cookies or User ID aren't fully available. Without modeling, your reports won't account for data that can't be directly observed. [Learn more](#)

Attribution and conversion modeling aren't affected by this setting.

Modeling is unavailable for this property. Once it's available, it will be turned on by default in your reports.

 **Observed**

This identity evaluates: user ID, Google signals, device ID.



Uses the first available method, in this order:

User ID

Uses a customer-supplied ID to differentiate between users and unify events in reporting and exploration.

Google signals

Uses information from users who are signed in to Google and who have consented to sharing this information.

Device ID

Uses the client ID for websites or the app Instance ID for apps.

Attribution Setting

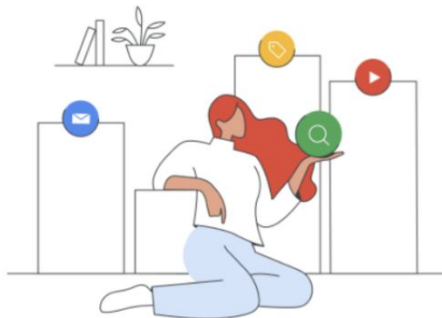
Reporting attribution model

Affects conversion and revenue data

The attribution model used to calculate conversion credit in your reports within this Analytics property. Changing the attribution model will apply to both historical and future data. These changes will be reflected in reports with conversion and revenue data. User and session data will be unaffected. [Learn about how attribution models affect your reporting data](#)

Reporting attribution model

Cross-channel data-driven model ▾



Attribution Setting

Lookback window

Affects all data

Conversions can happen days or weeks after a person interacts with your ad. The lookback window determines how far back in time a touchpoint is eligible for attribution credit. For example, the 30-day lookback window will result in January 30 conversions being attributed only to touchpoints occurring from January 1 - 30.

Changing the lookback window will only apply going forward. These changes will be reflected in all reports within this Analytics property.

Acquisition conversion events

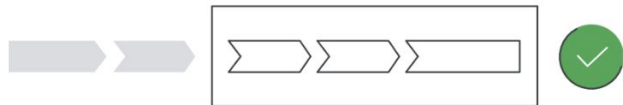
(i.e., first_open, first_visit)

- ☐ 7 Days
- ☒ 30 Days (recommended)



All other conversion events

- ☐ 30 Days
- ☐ 60 Days
- ☒ 90 Days (recommended)

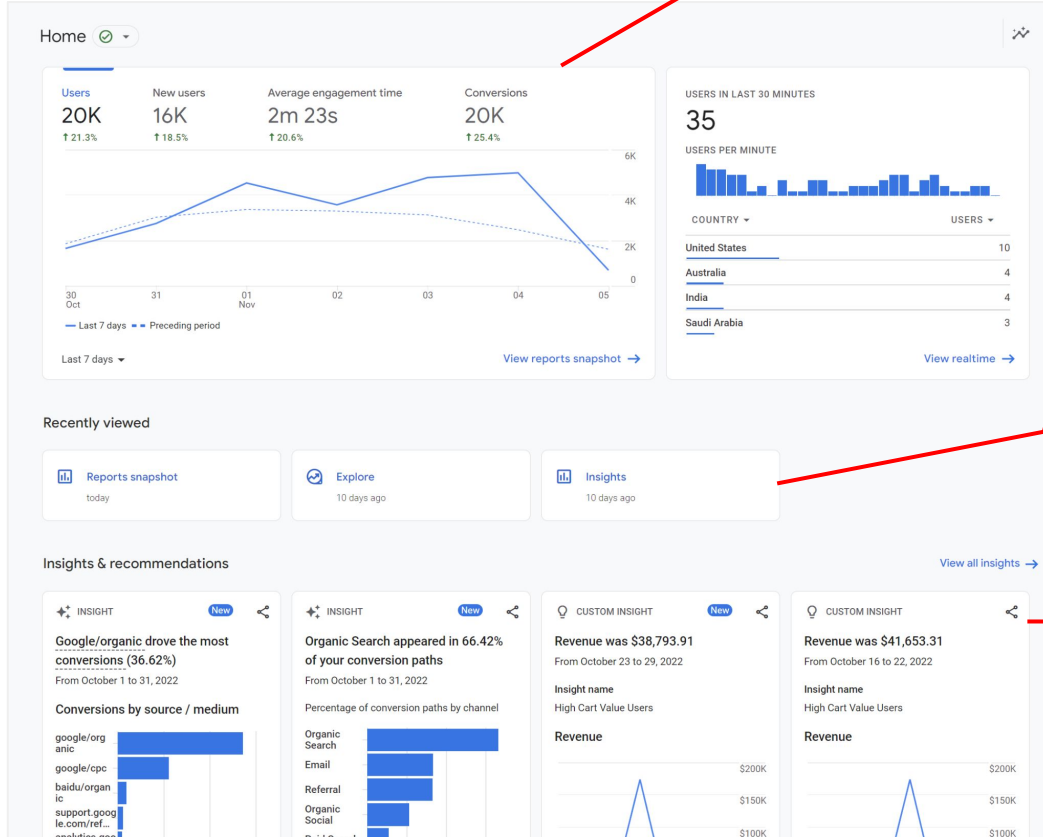


Reports

Home

Overview Metrics

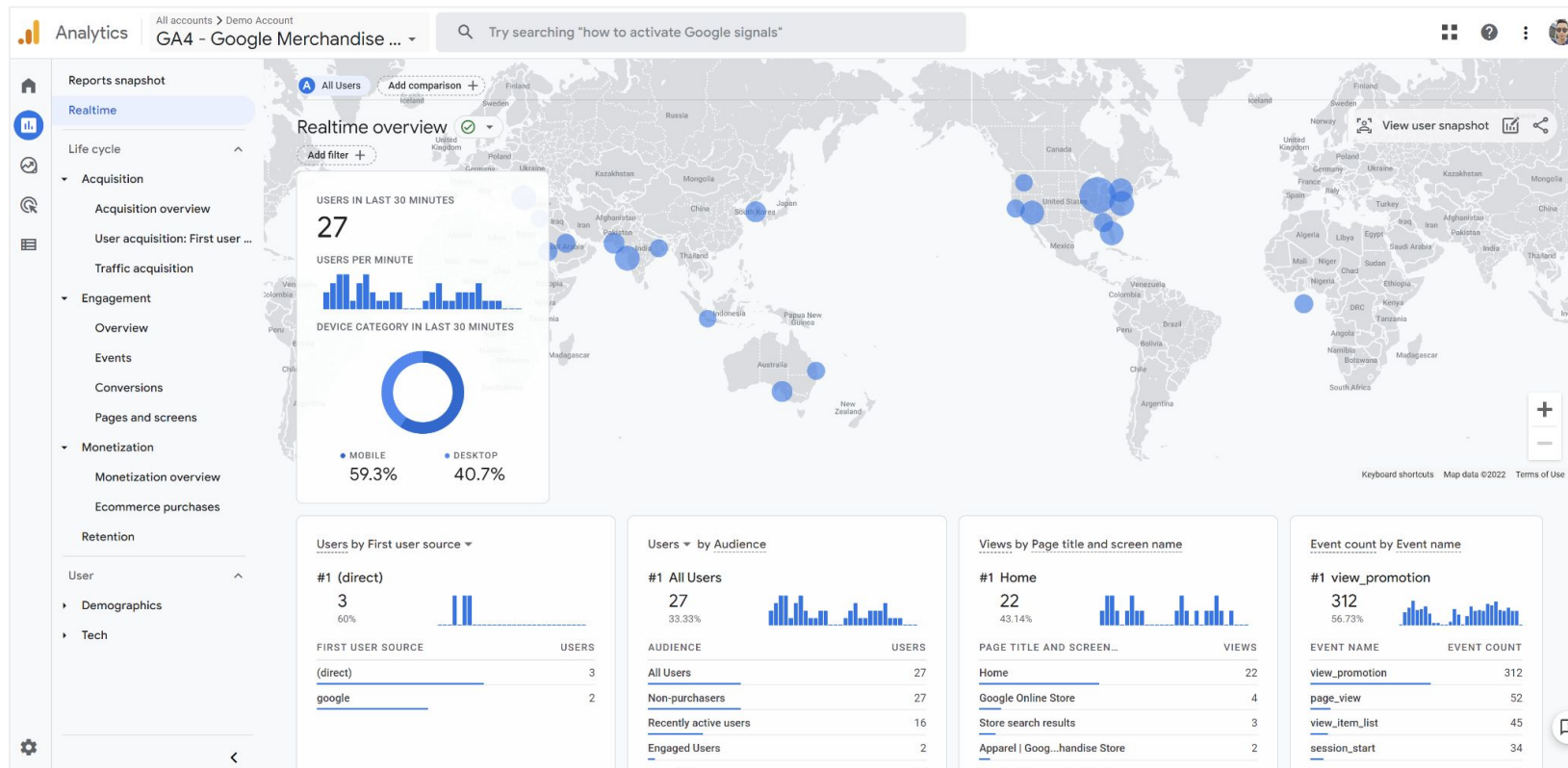
The overview card shows metrics that are relevant to you with a trendline for each metric.



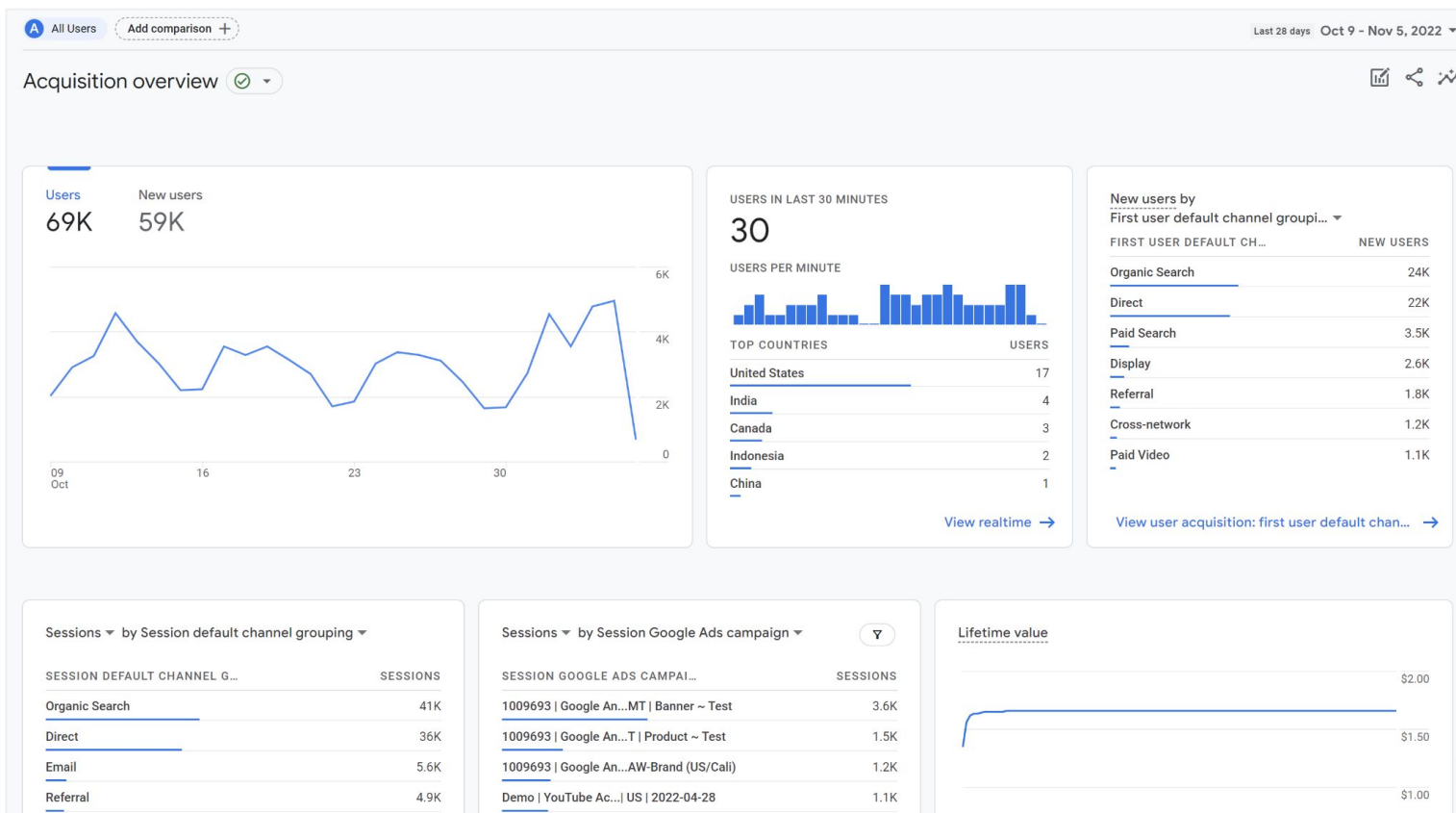
Recently viewed provides links to parts of your Analytics account that you visited most recently.

Insights & recommendations

Realtime



Life cycle: Acquisition



Interface Tour!



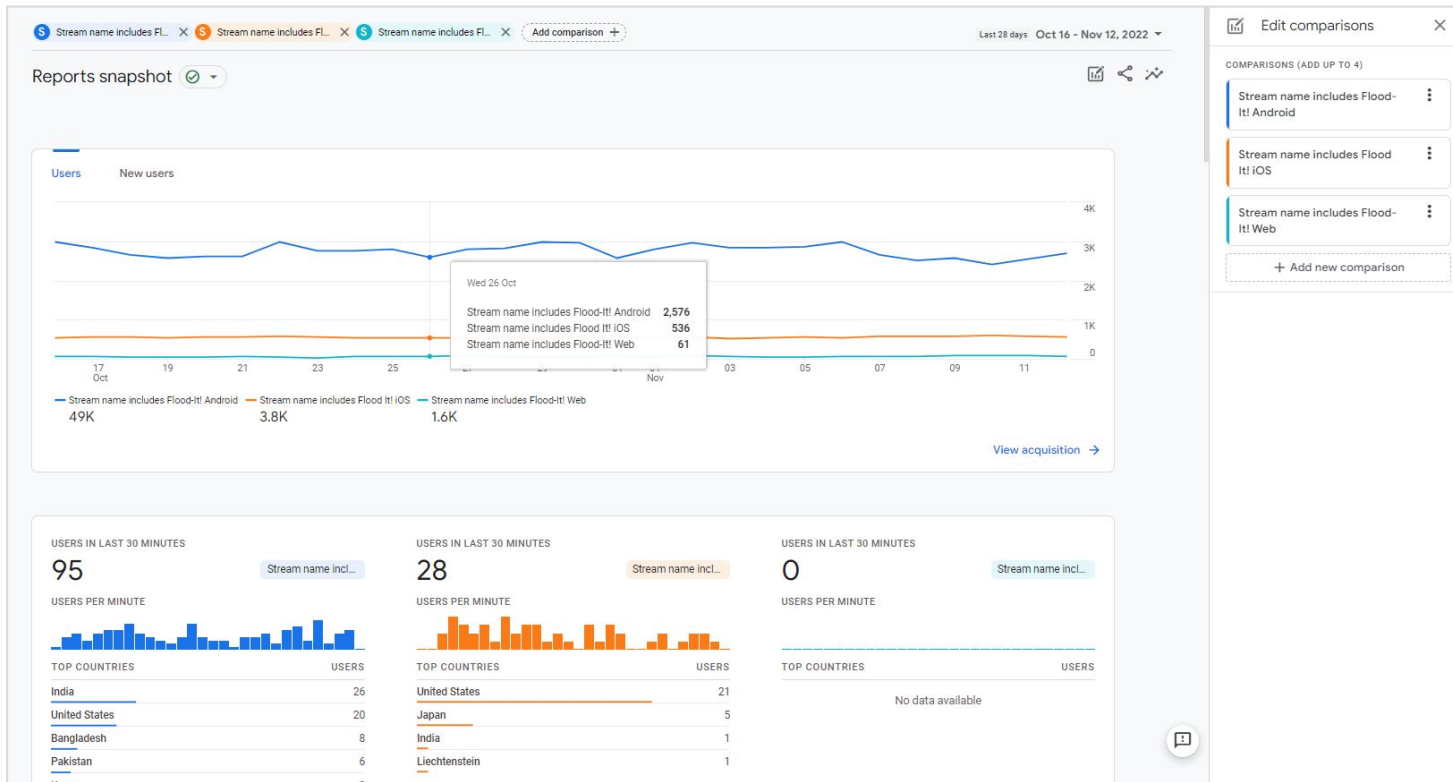
Comparison

Property A

Data Stream
Web

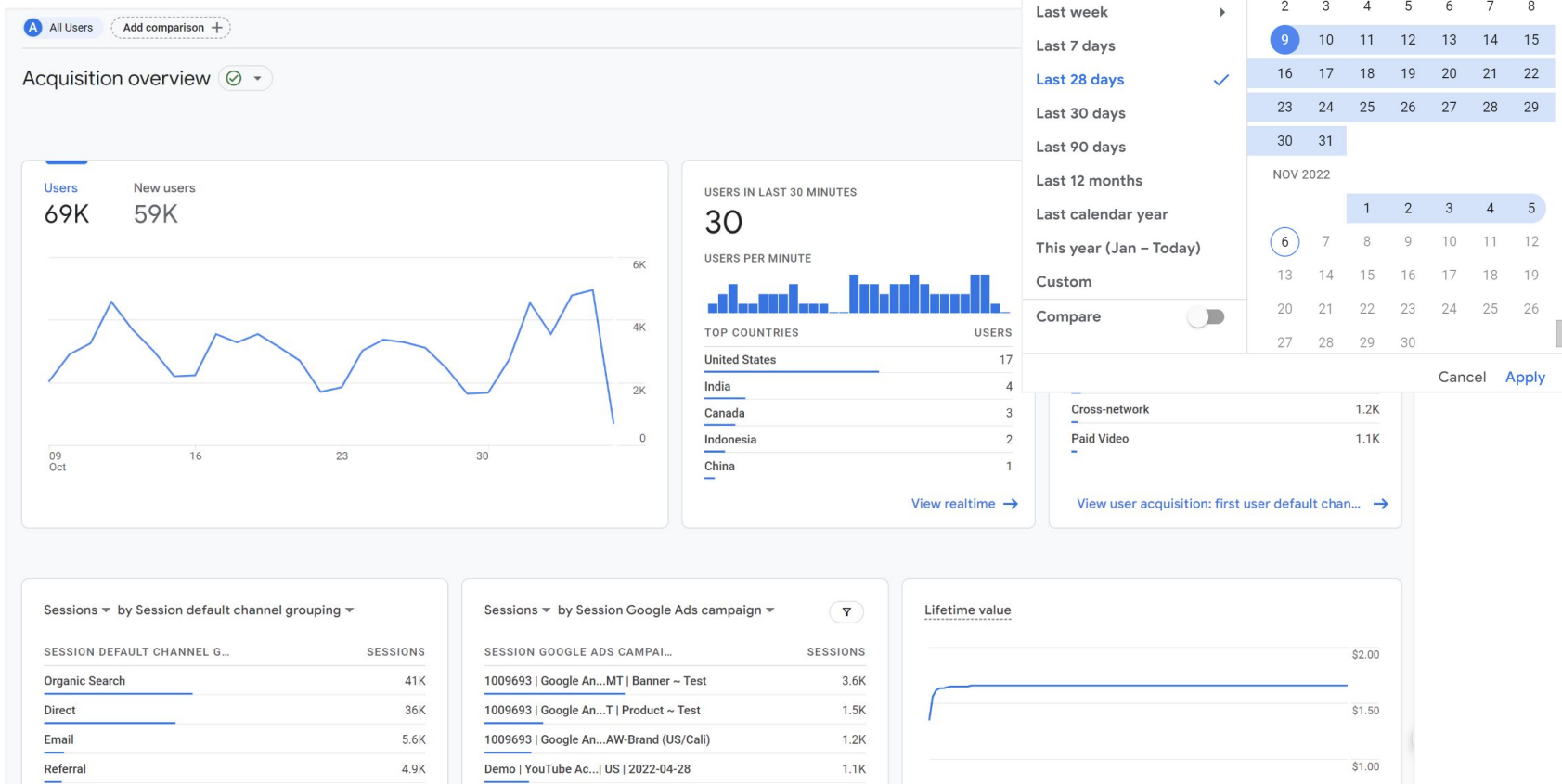
Data Stream
iOS

Data Stream
Android

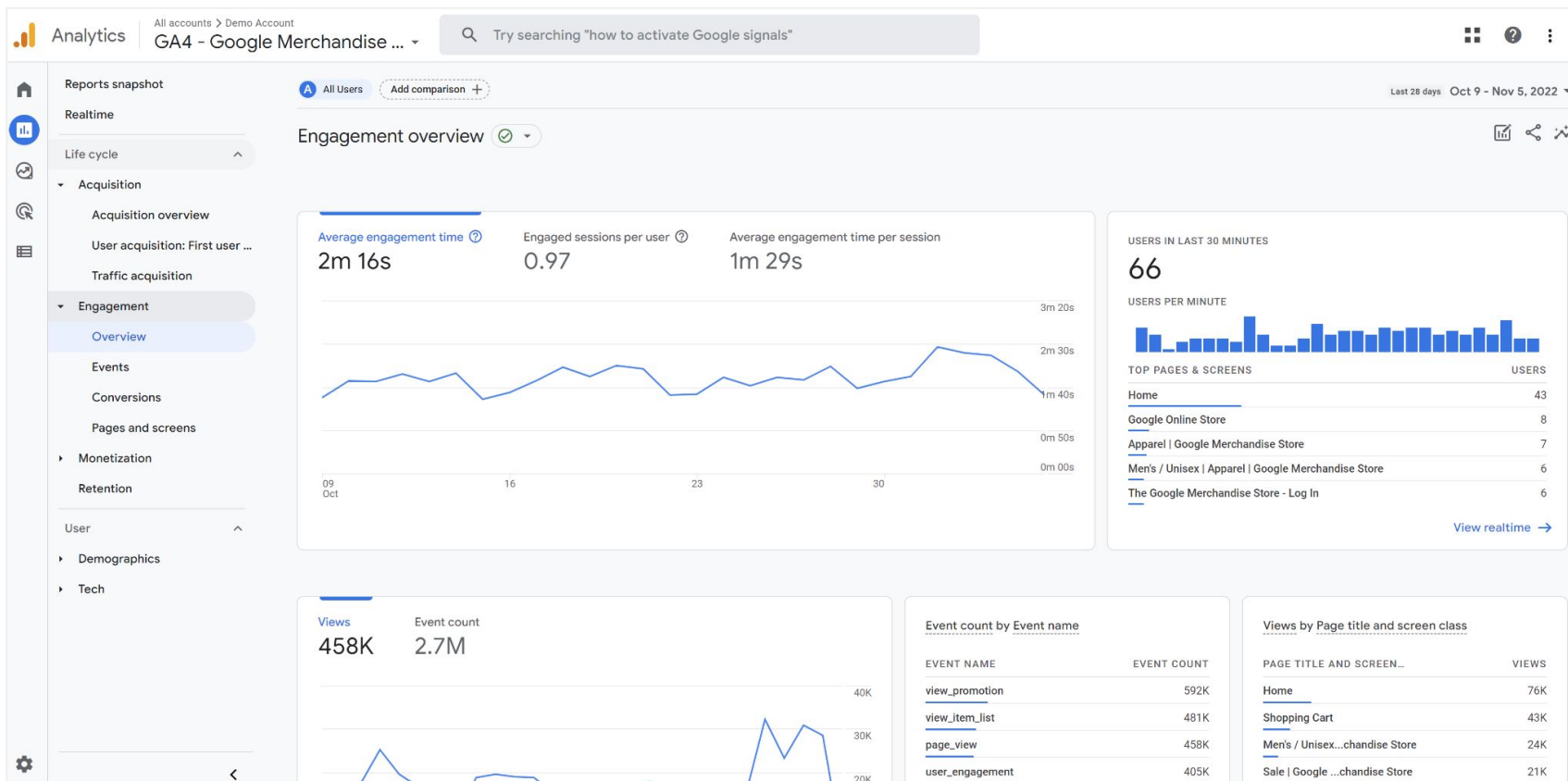


Life cycle: Acquisition

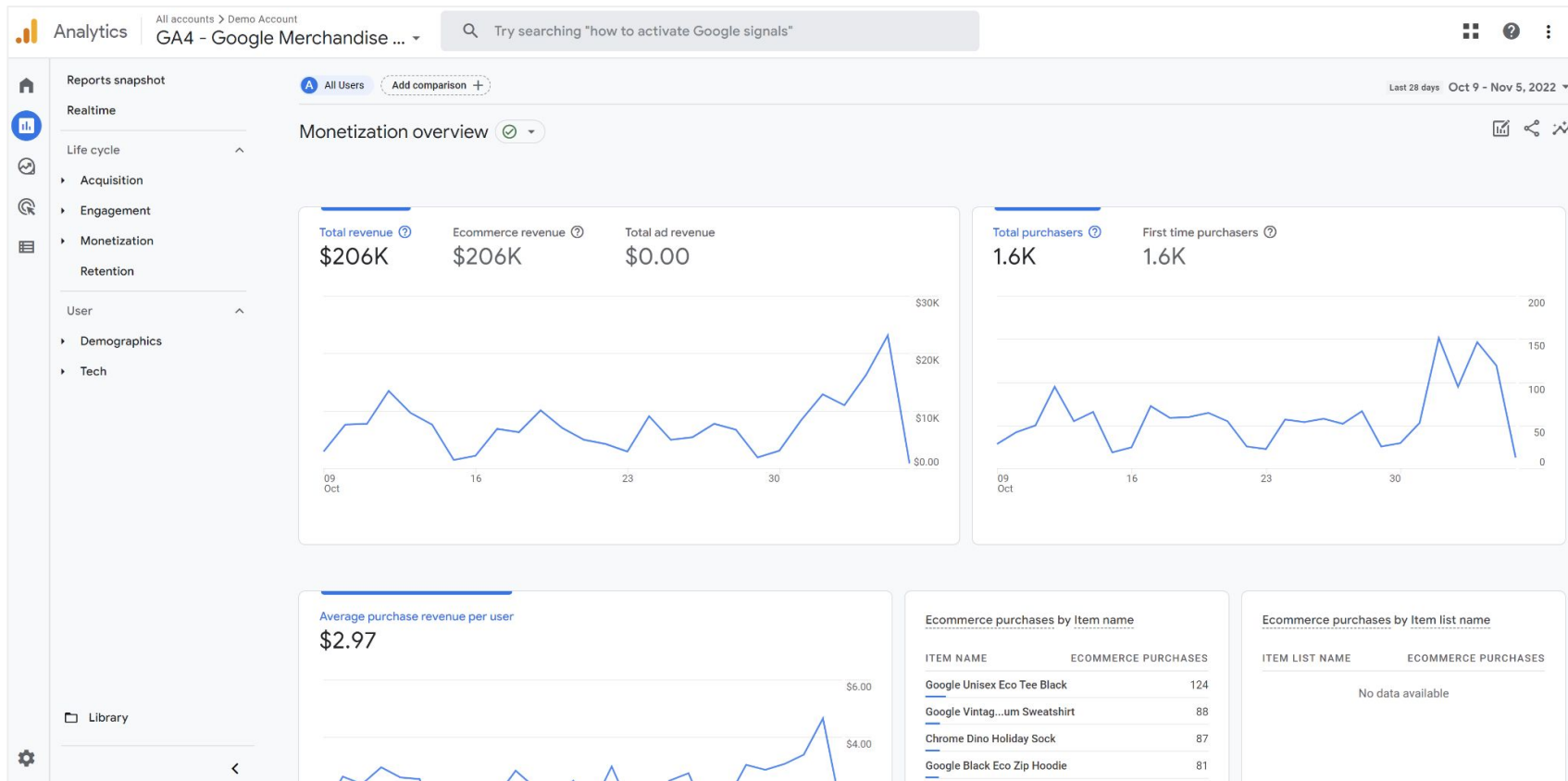
Keep in mind



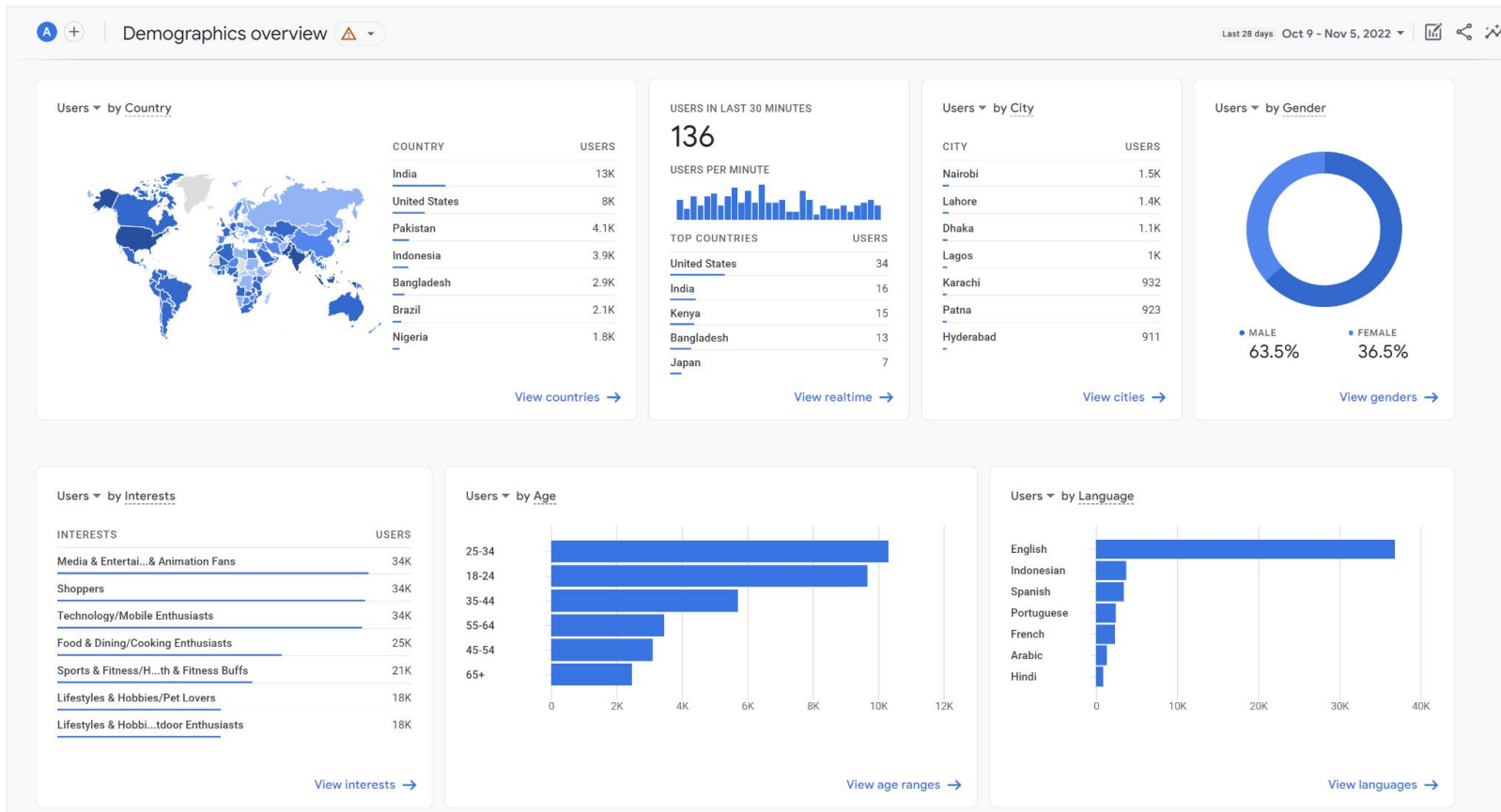
Life cycle: Engagement



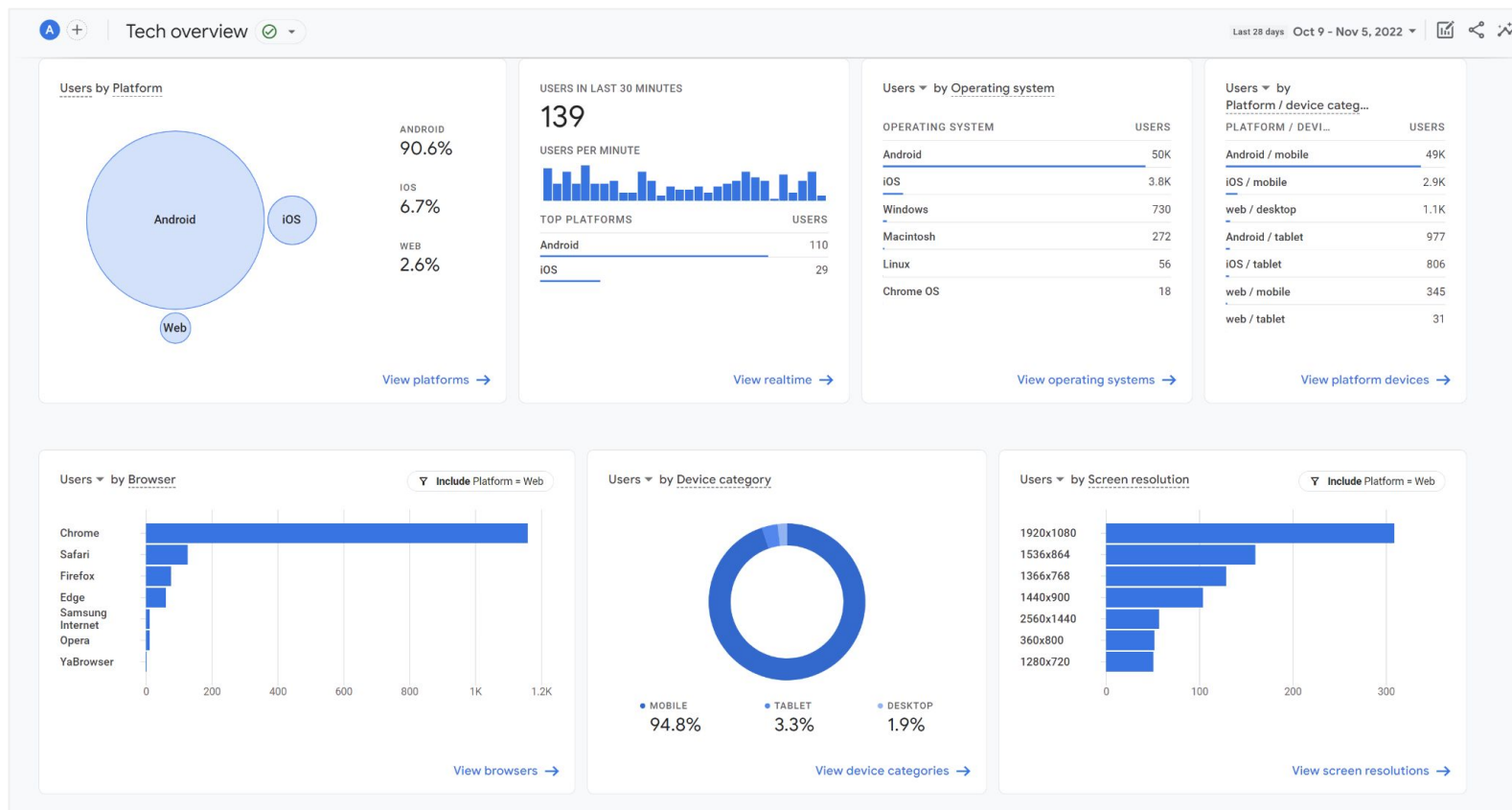
Life cycle: Monetization



User: Demographics



User: Tech



Events

Events

For example, loading a page, clicking a link, and completing a purchase are all interactions you can measure with events.

Types of events

1. Auto

- **Automatically collected events**
- **Enhance measurement events**

2. Need Implement

- **Recommended events**
- **Custom events**

1. Auto

Automatically collected events

Automatically collected events are triggered by basic interactions with your app and/or site.

You don't need to write any additional code to collect these events.

Example events:

- first_open (app)
- page_view (web)
- screen_view (app)
- app_update (app)
- session_start (app, web)

https://support.google.com/analytics/answer/9234069?hl=en&ref_topic=9256175

Enhance measurement events

Lets you measure interactions with your content by enabling options (events) in the Google Analytics interface.

No code changes are required.

Example events:

- scroll
- video engagement
 - video_start
 - video_progress
 - video_complete
- file_download

https://support.google.com/analytics/answer/9216061?hl=en&ref_topic=9256175

2. Need Implement

Recommended events

Adding these events to your website or mobile app helps you measure additional features and behavior as well as generate more useful reports.

Example events:

- ad_impression
- earn_virtual_currency
- join_group
- login
- purchase
- refund
- search
- select_content
- share
- sign_up
- spend_virtual_currency
- tutorial_begin
- tutorial_complete

https://support.google.com/analytics/answer/9267735?hl=en&ref_topic=9756175

Custom events

A custom event is an event with a name and set of parameters that you define so you can collect information that's specific to your business.

Review other events first!

Interface Tour!



Dimension & Metric

Dimension

“Attributes of data.”

Metric

“Quantitative measurements.”

Dimension

“Attributes of data.”

- Page
- Landing Page
- Source/Medium
- UTM Parameters
- Default Channel Group

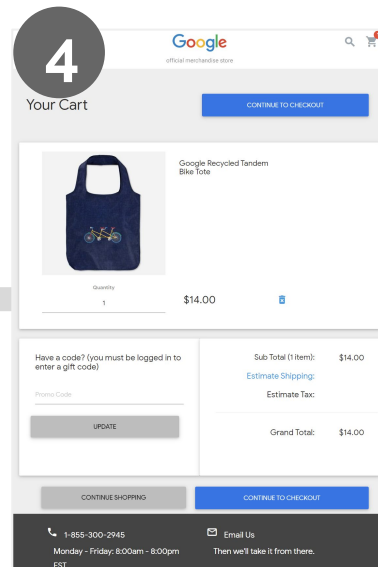
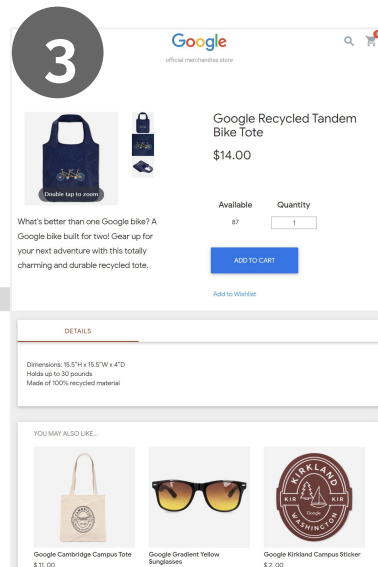
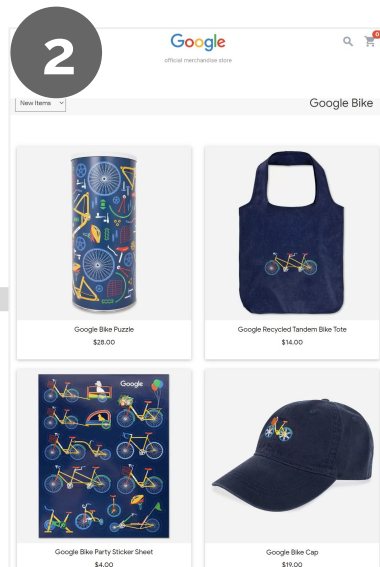
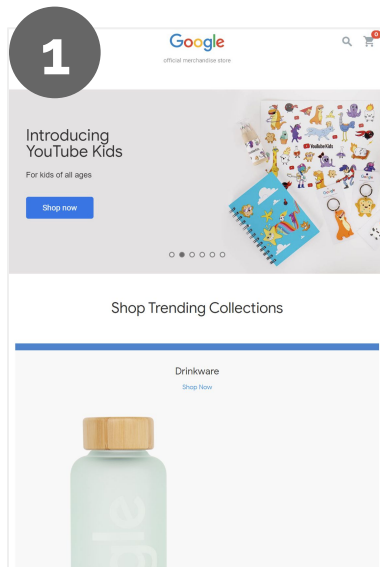
Metric

“Quantitative measurements.”

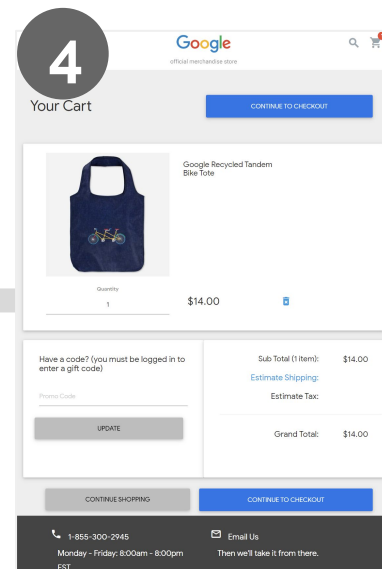
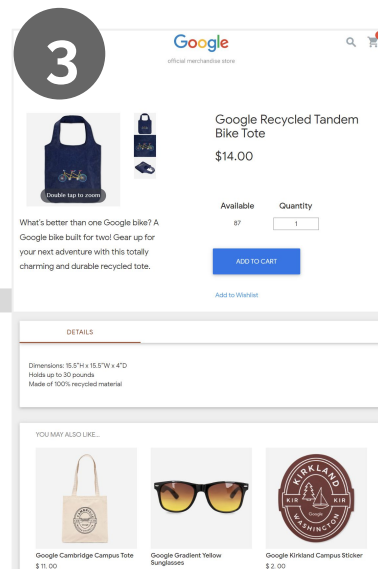
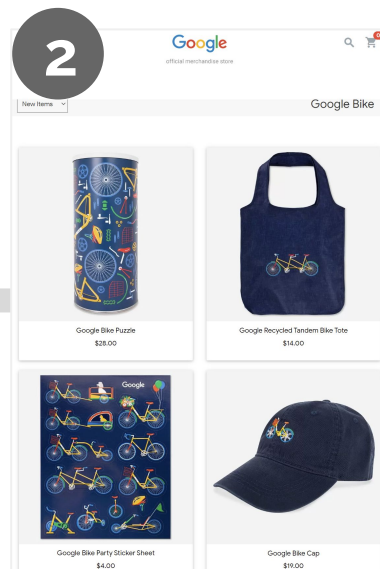
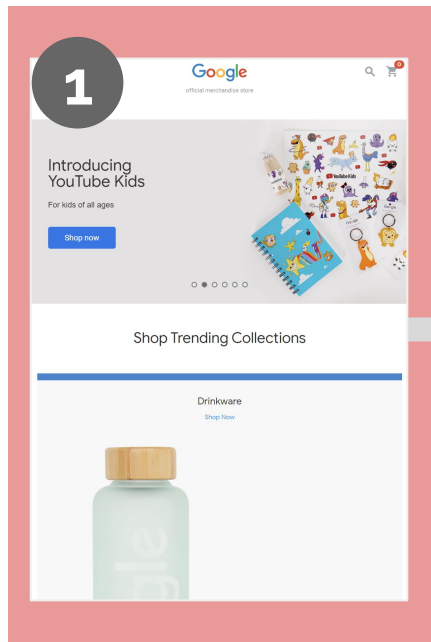
Dimension: Page & Landing Page

Page: ทุกเพจ ที่ Users เข้ามาบน Website

Landing Page: เพจแรก ที่ Users เข้ามาบน Website

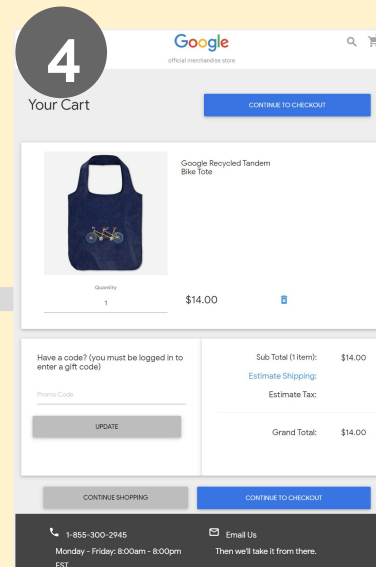
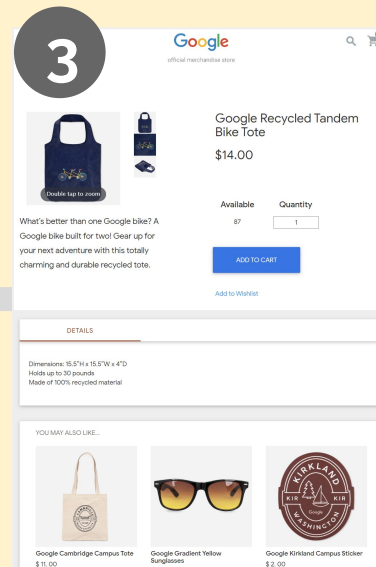
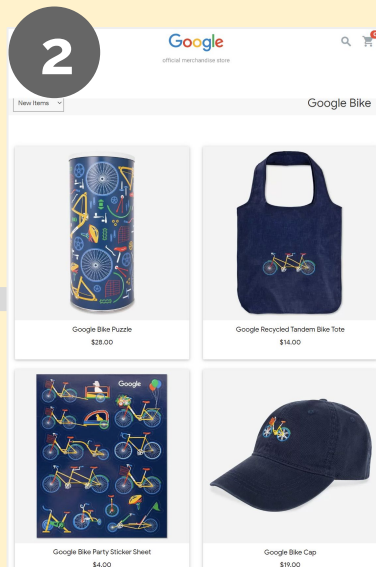
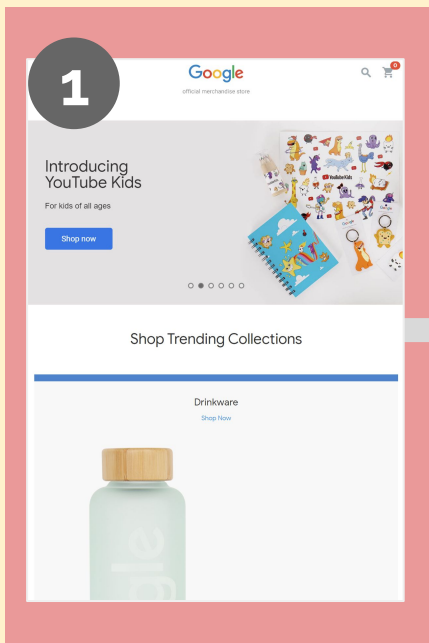


Landing Page



Landing Page

Page



City	Sessions	Pageviews
San Francisco	5,000	9,500
Berlin	4,000	6,800

Dimension

Metric

City	Sessions	Pageviews
San Francisco	5,000	9,500
Berlin	4,000	6,800

Dimension: Source/Medium

Source: The origin of your traffic

Medium: The general category

Dimension: Source/Medium

Source	Medium	Source/Medium
google	organic	google/organic
google	cpc	google/cpc
facebook	linkpostphoto	facebook/linkpostphoto



Interface Tour!



UTM Parameters

Urchin Tracking Module (**UTM**)

are **five variants of URL parameters** used by marketers to track the effectiveness of online marketing campaigns

UTM Parameters

	Source*	Medium*	Campaign*	Term	Content
Parameter URL	utm_source	utm_medium	utm_campaign	utm_term	utm_content
Dimension	Source	Medium	Campaign	Keyword	Ad Content

UTM Parameters

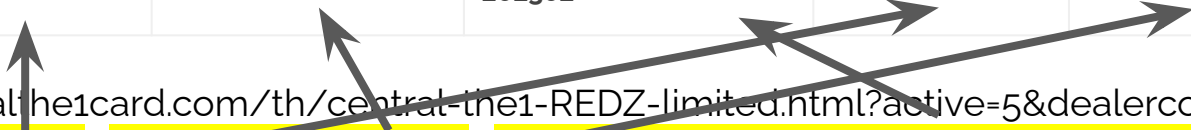
	Source*	Medium*	Campaign*	Term	Content
Parameter URL	utm_source	utm_medium	utm_campaign	utm_term	utm_content
Dimension	Source	Medium	Campaign	Keyword	Ad Content

https://www.centralthe1card.com/th/central-the1-REDZ-limited.html?active=5&dealercode=OSEM&utm_source=google&utm_medium=social&utm_campaign=applyonlineacq-REDZ-202302&utm_term=generic&utm_content=acq&gclid=CjoKCQIaAgOefBhDgARIsAMhqXA7lOIKWd1BG8VzTkCetH_yahqikZHzKwzMnnWEdnwWrtRsZC4v2mFoaAnnkEALw_wcB#applyform

UTM Parameters

	Source*	Medium*	Campaign*	Term	Content
Parameter URL	utm_source	utm_medium	utm_campaign	utm_term	utm_content
Dimension	Source	Medium	Campaign	Keyword	Ad Content
Value	google	social	applyonlineacq-REDZ-202302	generic	acq

https://www.centralthe1card.com/th/central-the1-REDZ-limited.html?active=5&dealercode=OSEM&utm_source=google&utm_medium=social&utm_campaign=applyonlineacq-REDZ-202302&utm_term=generic&utm_content=acq&gclid=CjoKCCQiAgOefBhDgARIsAMhqXA7lOIKWd1BG8VzTkCetH_yahqiKZHsKwzMnnWEdnwWrtRsZC4v2mFoaAnnkEALw_wcB#applyform

A diagram with five arrows pointing from specific parts of the URL to the corresponding 'Value' row in the table above. The arrows originate from the following parts of the URL: 'google' (points to 'google'), 'social' (points to 'social'), 'applyonlineacq-REDZ-202302' (points to 'applyonlineacq-REDZ-202302'), 'generic' (points to 'generic'), and 'acq' (points to 'acq').

Dimension: Default channel group

Channel groupings are rule-based definitions of your traffic sources.

- Direct
- Organic Search
- Paid Social
- Organic Social
- Email
- Affiliates
- Referral
- Paid Search
- Video
- Display

Dimension: Default channel group

Channel groupings are rule-based definitions of your traffic sources.

- Direct
- Organic Search
- Paid Social
- Organic Social
- Email
- Affiliates
- Referral
- Paid Search
- Video
- Display

Source matches a list of search sites

OR

Medium exactly matches organic

Source matches a list of search sites

AND

Medium matches regex `^(.*cp.*|ppc|paid.*)$`

Dimension: Scope

User-scoped

- First user campaign
- First user campaign ID
- First user default channel group
- First user manual ad content
- First user manual term
- First user medium
- First user source
- First user source / medium
- First user source platform

Session-scoped

- Session campaign
- Session campaign ID
- Session default channel group
- Session manual ad content
- Session manual term
- Session medium
- Session source
- Session source / medium
- Session source platform

And etc..

Dimension

"Attributes of data."

- Event count
- Event count per user
- Views
- Sessions
- Engaged sessions
- Engagement rate
- Bounce rate

Metric

"Quantitative measurements."

Metric: Event Count

The number of times users triggered an event.

Event Name	Event Count
session_start	10,000
scroll	10,000
page_view	10,000

Metric: Event count per user

The average number of events triggered per user.

Event Name	Event count per user
session_start	16.5
scroll	32.5
page_view	100

Metric: Views

The number of mobile app screens or web pages your users saw. Repeated views of a single screen or page are counted.

*(Event name: **screen_view** + Event name: **page_view**)*

Page Title	Views
Home	1,000,000
Shopping Cart	50,000
DataRockie Blog	10,000

Metric: Session

The number of sessions that began on your website or application.

A session initiates when a user either

- Opens your app in the foreground.
- Views a page or screen and no session is currently active (e.g. their previous session has timed out)

By default, a session ends (times out)

after 30 minutes of user inactivity.

There is no limit to how long a session can last.

Adjust how long it takes before sessions expire due to inactivity or become engaged sessions. [Learn more](#)

Configuration

Adjust session timeout ?

Hours

0 hours

Minutes

30 minutes

Adjust timer for engaged sessions ?

Seconds

10 seconds

Metric: Engaged Session

The number of sessions that

- lasted 10 seconds or longer
- had 1 or more conversion events
- had 2 or more page or screen views.

Adjust how long it takes before sessions expire due to inactivity or become engaged sessions. [Learn more](#)

Configuration

Adjust session timeout ?

Hours

0

hours

Minutes

30

minutes

Adjust timer for engaged sessions ?

Seconds

10

seconds

Metric: Engagement Rate

The percentage of engaged sessions

$$\frac{\text{Engaged Sessions}}{\text{Sessions}}$$

Source	Session	Engaged Session	Engagement Rate
google	1,000	800	80%
facebook	10,000	1,000	10%

Metric: Bounce Rate

The Bounce rate metric shows you the percentage of sessions that were not engaged sessions. **Bounce rate is the inverse of Engagement rate.**

Source	Session	Engaged Session	Engagement Rate	Bounce Rate
google	1,000	800	80%	20%
facebook	10,000	1,000	10%	90%

Metric: User conversion rate

The percentage of users who converted.

User ที่สร้าง Conversion Events

Converted users

Total Users

Page Title	Total Users	Converted Users	User Conversion Rate
Add cart	1,000	800	80%
Purchase	800	200	25%

Metric: Session conversion rate

Session ที่สร้าง Conversion Events

The percentage of sessions that converted.

$$\frac{\text{Converted sessions}}{\text{Total Sessions}}$$

Page Title	Total Sessions	Converted Sessions	Session Conversion Rate
Add to cart	1,000	800	80%
Purchase	800	200	25%

Metric: Conversions

Page Title	Total Users	Total Sessions	Users generated conversion event	Session generated conversion event	User Conversion Rate	Session Conversion Rate
Add to cart	1,000	10,000	87	450	8.7%	4.5%
Purchase	800	7,500	350	1,000	43.7%	13.3%

Metric: Conversions

Page Title	Total Users	Total Sessions	Users generated conversion event	Session generated conversion event	User Conversion Rate	Session Conversion Rate
Add to cart	1,000	10,000	87	450	8.7%	4.5%
Purchase	800	7,500	350	1,000	43.7%	13.3%

Exercise



Exercise 1:

ในช่วงเวลา 1-31 Jan 2023

User ที่มาจากประเทศและเมืองใด ที่มี Engaged Session มากที่สุดเป็นอันดับที่ 5 และมีจำนวนเท่าไร

Exercise 2:

ในช่วงเวลา 1-31 Dec 2022

โทรศัพท์มือถือยี่ห้อใดมี Users มากที่สุดเป็นอันดับ 2 และมีจำนวนเท่าไร

Exercise 3:

ในช่วงเวลา 1-15 Feb 2023

Page title และ Event Name ที่มีจำนวน Event count มากที่สุดเป็นอันดับที่ 4

คือ Page title และ Event Name อะไร

Exercise 4:

ในช่วงเวลา 1 Jan 2023 - 15 Feb 2023

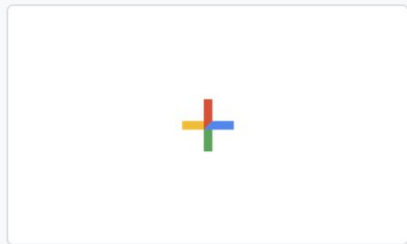
สินค้าที่ลูกค้าจากประเทศ US ซื้อเป็นจำนวนมากที่สุด (Quantity)
คือสินค้าชื่อว่าอะไร และซื้อจำนวนเท่าไร

Explore

Explorations

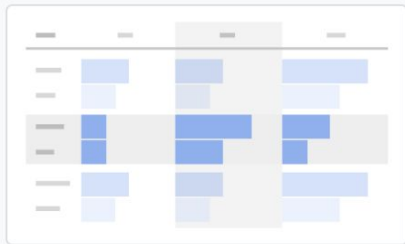
Start a new exploration

[Template gallery](#)



Blank

Create a new exploration



Free form

What insights can you uncover with custom charts and tables?



Funnel exploration

What user journeys can you analyze, segment, and breakdown with multi-step funnels?



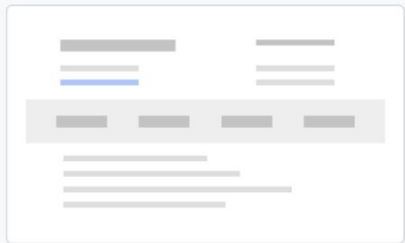
Path exploration

What user journeys can you uncover with tree graphs?



Segment overlap

What do intersections of your segments of users tell you about their behavior?



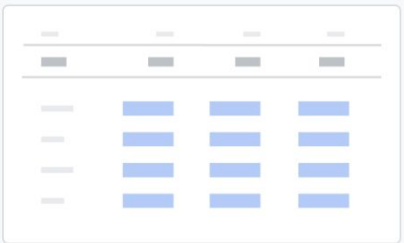
User explorer

What individual behaviors can you uncover by drilling into individual user activities?



Cohort exploration

What insights can you get from your user cohorts behavior over time?



User lifetime

What can you learn by analyzing the entire lifetime of your users?

Thank You

