Meetup - May 24, 2022

OVERVIEW, FEATURES & INTEGRATIONS

Google Analytics 4







Vladimir Stashevskiy - Digital Loop GmbH



Vladimir Stashevskiy

MarTech, Web Analytics & Tech SEO Consulting

- 6+ years in Digital Analytics, Tech SEO & Digital Marketing
- Specializing on Start-ups, Corporate Spin-offs and SMEs





I. What is Google Analytics 4?

- Scalable, cross-platform analytics based on a new tracking model: event tracking
- New reporting capabilities, including a powerful real-time reporting
- Automatically collected and recommended events
- Machine Learning (ML) functions
- Ad-hoc Analysis Workspace
- No volume limits for data collection
- Increased sampling thresholds (no sampling in default reports)





Before We Start

GA4 is not Universal Analytics - it's completely different

Hit Type in Universal Analytics property	Measurement in Google Analytics 4 property
Page View	Event
Event	Event
Social	Event
Transaction/e-commerce	Event
User timing	Event
Exception	Event
App/screen view	Event

Scope in your Universal Analytics property	maps to the following in your Google Analytics 4 property	
Hit-scoped	Event scoped custom dimension	
User-scoped	User scoped custom dimension	
Session-scoped	No Google Analytics 4 property equivalent	
Product-scoped	E-commerce parameters	

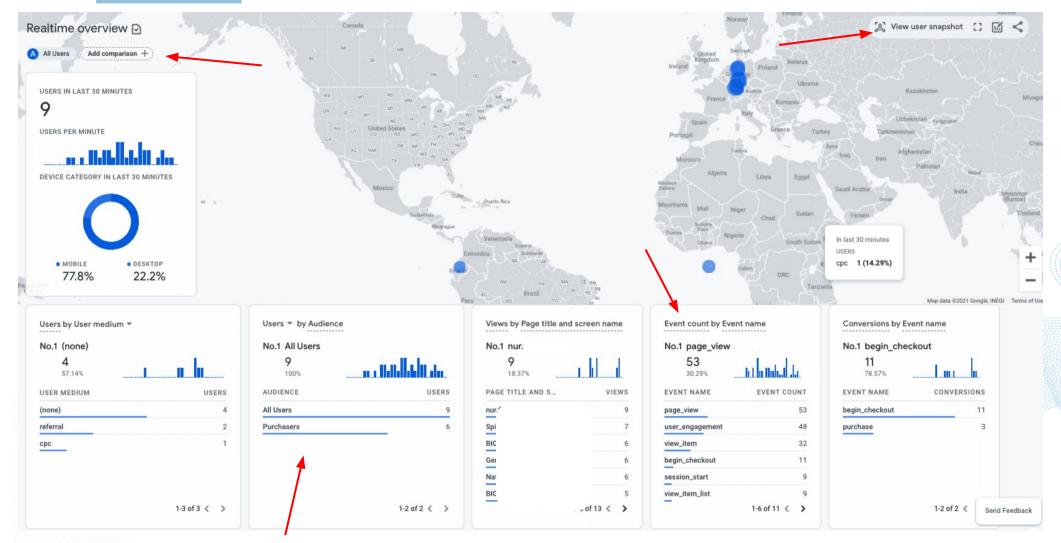
- Events only
- Only User & Event Scope custom dimensions
- * note that GA4 is still under constant construction

Source: Google's Documentation



II. GA4 Features

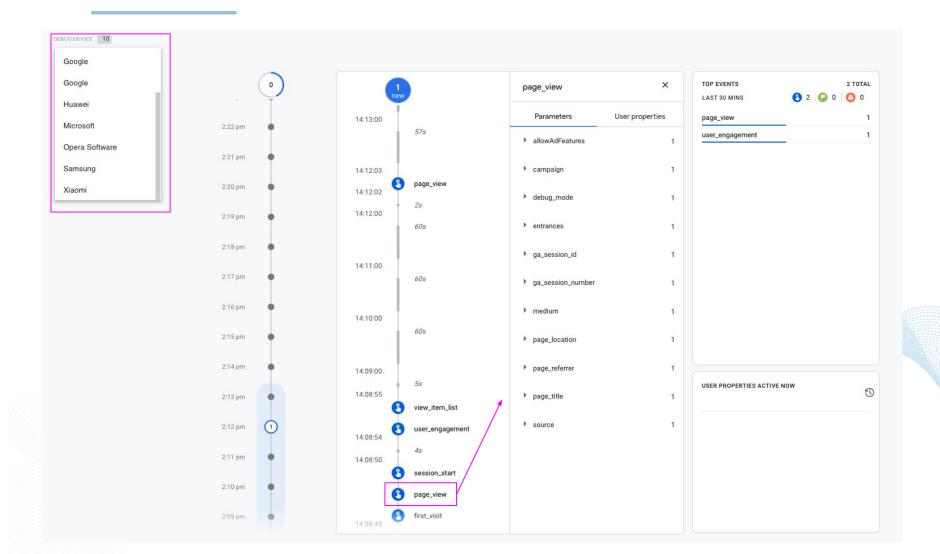
Real-time reporting 2.0



- Apply Audience
 Filters
- Apply **Segments** in Real-Time
- View User
 Snapshots &
 Event Streams
 generated on the



Debug View for Event Streams

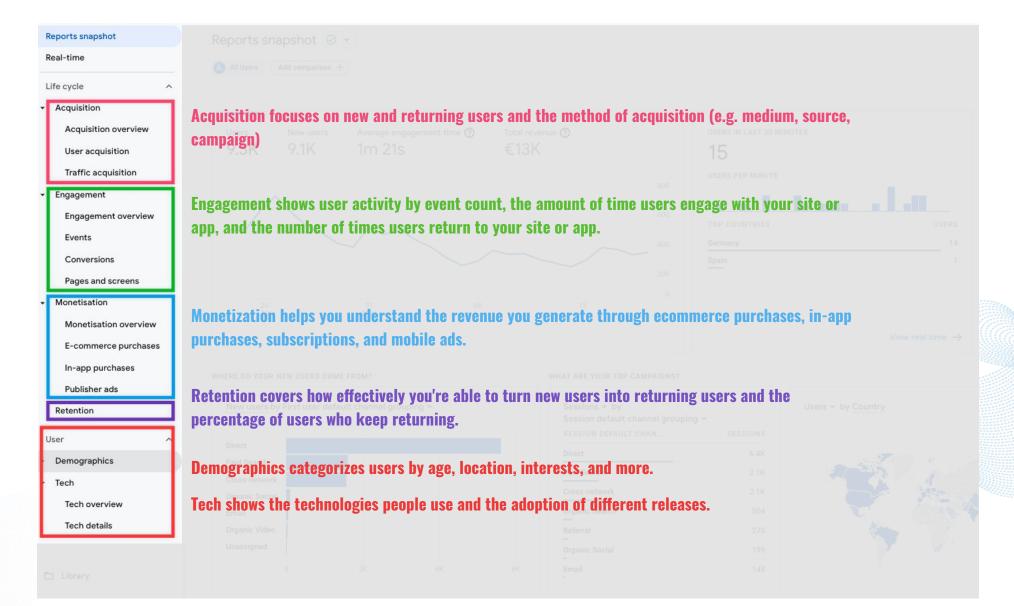


- Enable **Debug Mode** to narrow test traffic
 down
- All event parameters are available per request
- Segmentation of Debug Devices

-> It is not enough to see if data was dispatched. The **final condition** of data is what matters



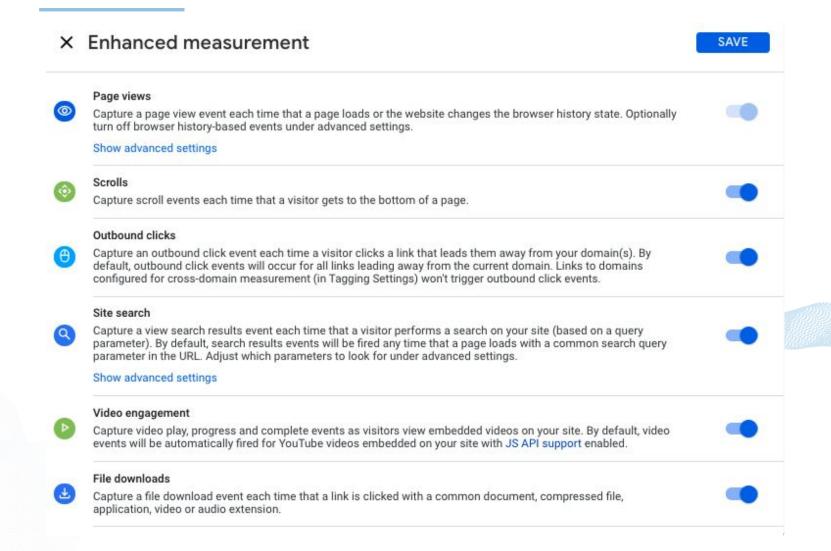
GA4 Reporting Suite





Enhanced Measurement

More tracking with less effort

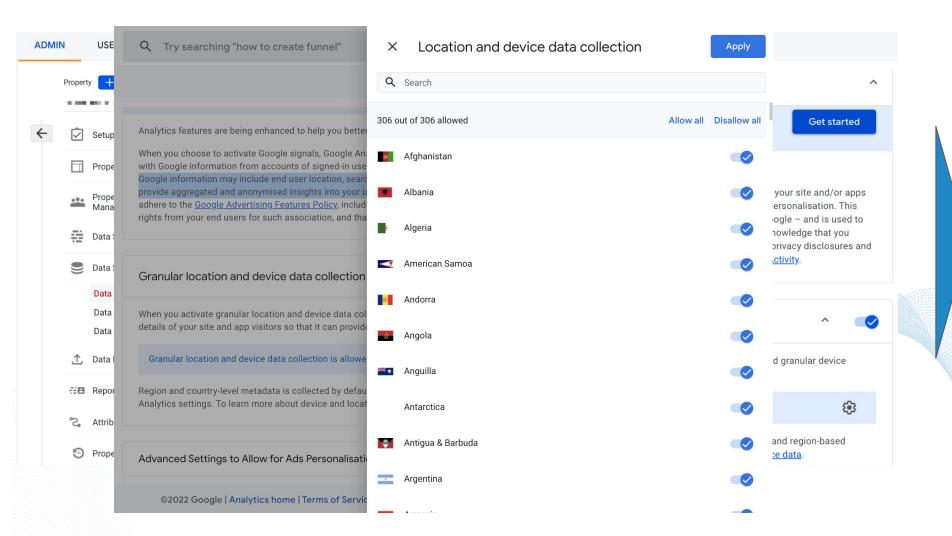


- Out of the box event tracking, no implementation required
- gtag.js automatically listens to predefined events
- Granularity in event selection



Advertising Features

Improved personalisation, data quality & granularity

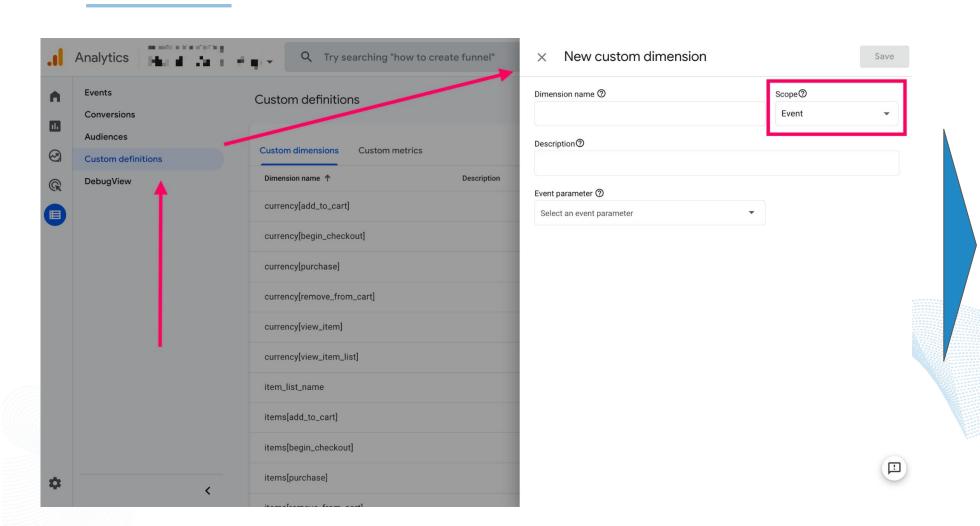


- Google Signals enable the tracking of demographics, interests and cross-device behavior of users (signed in with Google Account)
- Added granulaty for controlling what data should not be collected in certain countries (i.e. location, device data, ads personalisation features)



Event Parameters

Sunset of Event Categories, Actions & Labels



- Flexible event customization
- Seamless management of custom dimensions (instant in Debug View)
- Real-time event modification
- Registered parameters automatically appear in the reports
- Only Event & User Scope parameters



Machine Learning Functions ML to predict revenue and user behavior

- **Purchase probability** the probability that a user who was active in the last 28 days will make a purchase
- **Churn probability** \nearrow the probability that a user who was active on your app or site within the last 7 days will not be active within the next 7 days
- **Revenue prediction** the revenue expected from all purchase conversions within the next 28 days from a user who was active in the last 28 days.

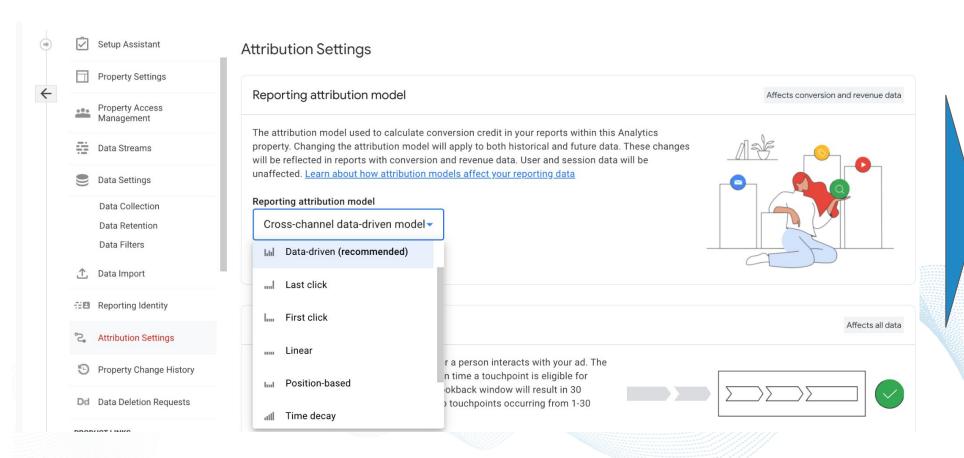
The model requires training:

- Over a seven-day period 1,000 users triggered the relevant predictive condition and that 1,000 users did not
- Model quantity must be sustained over a period of time

Source	Total LTV	Churn Prob.
google / organic	10.000€	25%
google / cpc	16.000€	37.1%
referrals	5.000€	15%



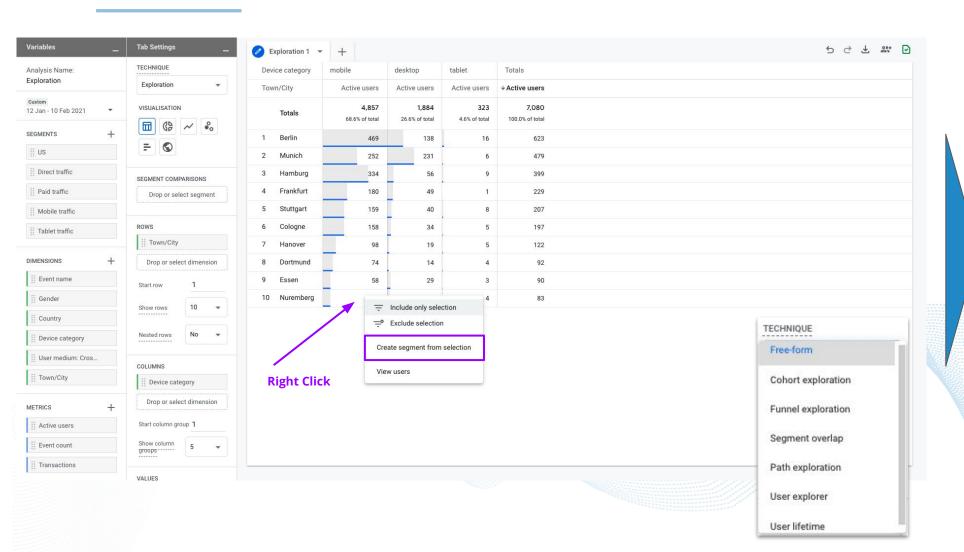
Attribution Settings Attribution models applied to the whole reporting suite



- 7 attribution models available
- The attribution models apply to both historical and future data
- Conversion lookback windows can be configured manually
- Default Data-Driven attribution model
- Ads-preferred last click attribution is available



III. Analysis Hub Workspace for Ad-hoc analysis

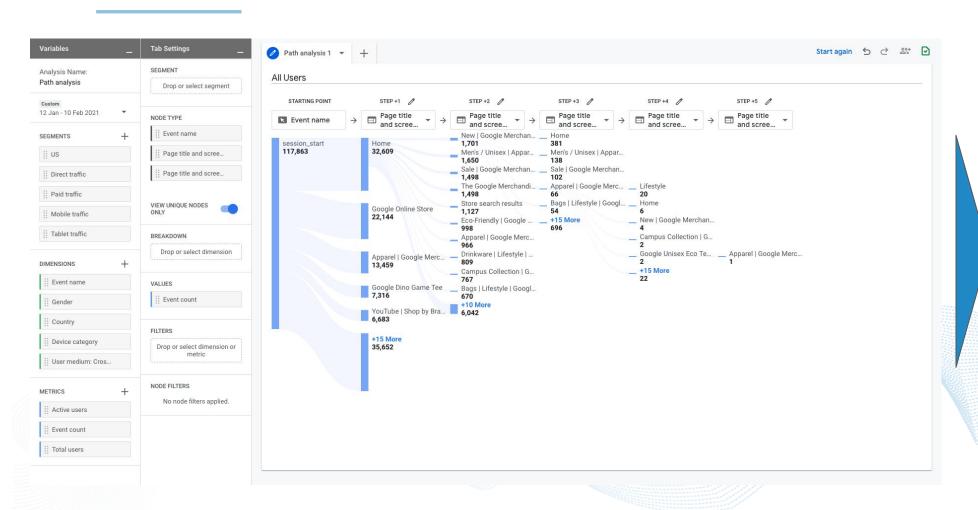


- Granular reporting with many features right inside GA -> no need to export the data
- Multiple Analysis
 Techniques (e.g. Funnel,
 Cohorts, Exploration)
- Seamless segment
 builder right from the report
- Free template Gallery
- 7 available techniques



Path Analysis

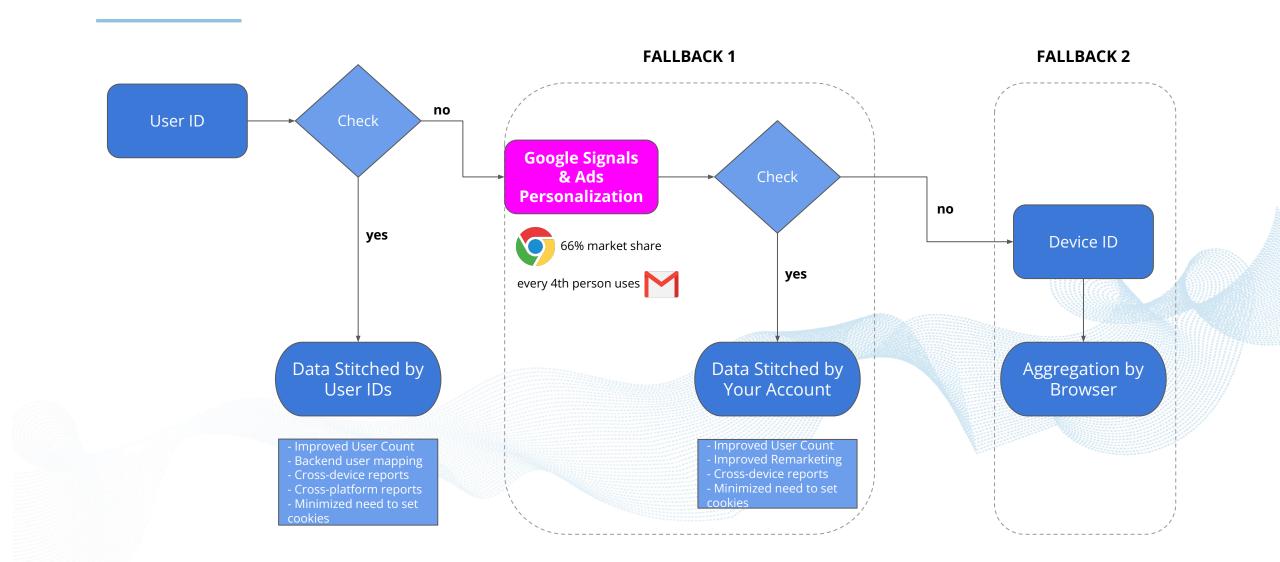
Pathing that fulfills Behavior Flow Report



- Available for Page
 Titles, Event Names &
 Screen Classes
- Segment comparison is possible
- Seamless segment
 builder right from the report
- Can be drafted both from **Starting** and **Ending** points, i.e. forwards and backwards paths



IV. User Identity Reporting





V. New capabilities using BigQuery

BigQuery is a fully-managed, serverless **data warehouse** that enables scalable analysis over petabytes of data. It also has built-in **machine learning** capabilities

With BigQuery you can:

- Store your data at a cost of **0,20\$ per GB** (equivalent of storing 25 2-hour Movies for 10\$)
- Query your data at 5\$ per TB (equivalent of 1.500 CD disks of data)
- Always get 10 GB of storage and 1 TB of query data per month for free





GA4 & BigQuery Integration Previously only available in Google Analytics 360

- Get raw data directly into a data warehouse,
 - Unsampled data analysis
 - Predictive analytics
 - \circ ML
- Export is free and executed within seconds
- Ability to get started for free using BigQuery Sandbox and Free Usage Limits (GA360 Cost \$150K+ a year)
- Combine various data sources in BigQuery
- Connect BigQuery to a BI Solution





BigQuery IntegrationsOmnisource architecture for 360° View with BigQuery





So... Should I switch?

Universal Analytics will be going away

Last updated: March 16, 2022. Visit this page in the coming months for the latest information.

Google Analytics 4 is our next-generation measurement solution, and it's replacing Universal Analytics. On July 1, 2023, standard Universal Analytics properties will stop processing new hits. If you still rely on Universal Analytics, we recommend that you prepare to use Google Analytics 4 going forward.

- After July 1, 2023, GA
 UA will stop
 processing new hits
- The historical data will still be accessible for at least 6 months
- There is no direct migration option

The recommendation is to start using GA4 **asap** to start collecting data in the new format. If you are starting a new project, Google Analytics UA instances are not needed anymore



Questions?





@vladimir-stashevskiy



v.stashevskiy@digital-loop.com