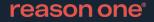
Google Analytics 4 Google Analytics 4

Getting Prepared for the Sunset of Universal Analytics



Today's agenda

<u>01</u> Why GA4?

02 Key differences in data collection

03 Building reports in GA4

<u>04</u> Implementation: a hybrid approach

05 Roadmap to July 2023





GA4 IS HERE

What's it all about? Privacy laws and cookies.

Less cookies, more machines.

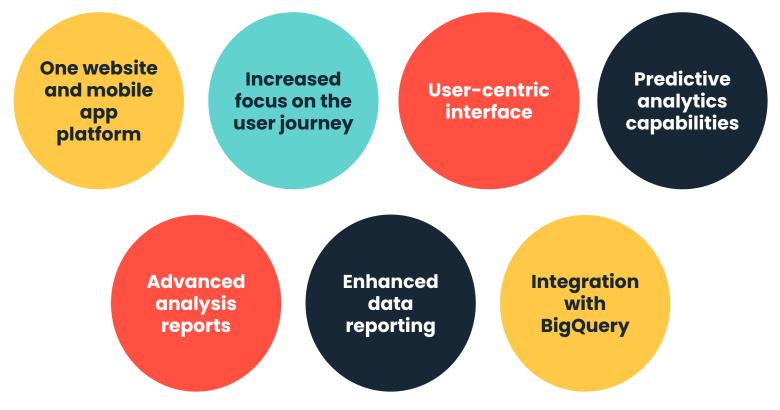
- » Privacy laws requiring consent triggered the need for reduced reliance on cookies.
- » GA4 relies less on cookies to record events across platforms/devices.
- » Introduction of machine learning makes GA4 more stable to industry changes
- » Built to scale and grow in the future

5 Benefits of Machine Learning

- » Fill in data gaps
- » Automated insights
- » Detect anomalies
- » Generate predictions
- » See trends

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Benefits of Google Analytics 4

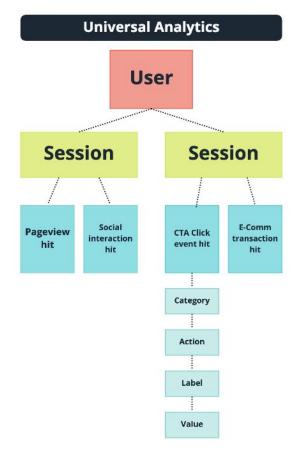


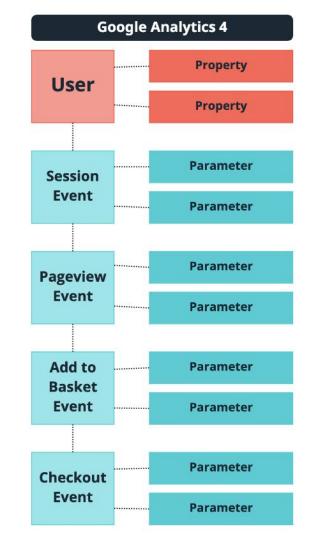
Key differences in data collection



Goodbye pageviews and sessions

Hello events and parameters



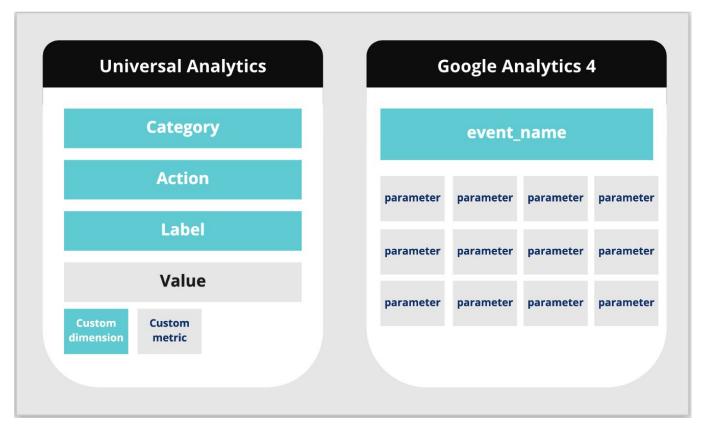


- » In Universal Analytics, a user can have multiple sessions and pageviews. In GA4, a session and pageview are distinct events. This allows you to track the user journey more effectively.
- Properties describe user attributes. Property examples: language, location
- Parameters describe event attributes. Parameter examples: author_name, page_title

UA vs GA4 data collection: events



Granular event names provide greater flexibility



4 categories of events in GA4

- » Automatically collected events
- » Enhanced measurement events
- » Recommended events
- » Custom events

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Automatically collected events



Automatically collected events

3 website events are automatically collected and recorded within GA:

- » session_start
- » first_visit
- » user_engagement





Enhanced measurement events



What is enhanced measurement in GA4?

.1	Analytics Reason O × Web s	stream details
A	ADMIN USER	STREAM URL STREAM NAME MEASUREMENT ID
	Property + Create (Reason One - GA4 (25100	https://www.reasononeinc.com Reason One STREAM ID STATUS 2135443835 Receiving traffic in past 48 hours. Learn more
© ≡	Property Settin	Enhanced measurement
	Property Acces Management Data Streams	Automatically measure interactions and content on your sites in addition to standard page view measurement. Data from on-page elements such as links and embedded videos may be collected with relevant events. You must ensure that no personally-identifiable information will be sent to Google, Learn more
	Data Settings	Measuring: 🐵 Page views 🚱 Scrolls 🖨 Outbound clicks 🔍 Site search 🕨 Video engagement 🛃 File downloads Show less 🕄

- » Access Enhanced Measurement Events by going to Admin \rightarrow Data Streams
- » Select your web data stream to view details

Enhanced measurement events

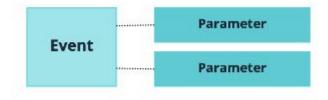
- » page_view
- » scroll
- » click
- » view_search_results
- » video_start, video_progress, video_complete
- » file_download



Recommended events

RECOMMENDED EVENTS

Generate more useful reports



- 15 14
- » Adding recommended events helps you measure additional features and behaviors
- » They require additional context to be meaningful, and should be sent with their prescribed parameters.

3 categories of recommended events

- » For all properties
- » For online sales
- » For games





Recommended events - for all properties

Event	Trigger when
ad_impression	a user sees an ad impression, for app only
earn_virtual_currency	a user earns virtual currency (coins, gems, tokens, etc.)
join_group	a user joins a group to measure the popularity of each group
login	a user logs in
purchase	a user completes a purchase
refund	a user receives a refund
search	a user searches your content
select_content	a user selects content
share	a user shares content
sign_up	a user signs up to measure the popularity of each sign-up method
spend_virtual_currency	a user spends virtual currency (coins, gems, tokens, etc.)
tutorial_begin	a user begins a tutorial
tutorial_complete	a user completes a tutorial

Recommended events - for online sales

Event	Trigger when
add_payment_info	a user submits their payment information
add_shipping_info	a user submits their shipping information
add_to_cart	a user adds items to cart
add_to_wishlist	a user adds items to a wishlist
begin_checkout	a user begins checkout
generate_lead	a user submits a form or a request for information
purchase	a user completes a purchase
refund	a user receives a refund
remove_from_cart	a user removes items from a cart
select_item	a user selects an item from a list
select_promotion	a user selects a promotion
view_cart	a user views their cart
view_item	a user views an item
view_item_list	a user sees a list of items/offerings
view_promotion	a user sees a promotion

Recommended events - for games

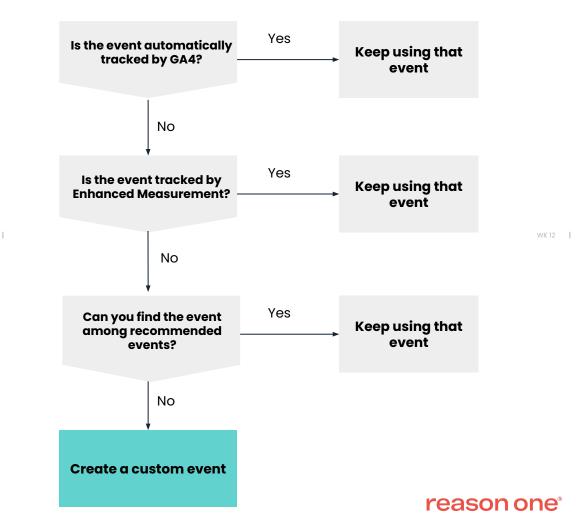
Event	Trigger when
earn_virtual_currency	a user earns virtual currency (coins, gems, tokens, etc.)
join_group	a user joins a group to measure the popularity of each group
level_end	a user completes a level in the game
level_start	a user starts a new level in the game
level_up	a user levels-up in the game
post_score	a user posts their score
select_content	a user selects content
spend_virtual_currency	a user spends virtual currency (coins, gems, tokens, etc.)
tutorial_begin	a user begins a tutorial
tutorial_complete	a user completes a tutorial
unlock_achievement	a user unlocks an achievement

Custom events



CUSTOM EVENTS

The bottom of the event decision tree



Custom events - Step 1: create event

	Modif	y event Create event	Manage Custom Defin	itions
Recomm Create Event		1	\$	Ū
sign_up Recommended Event (General)				
login Recommended Event (General)				
share Recommended Event (General)				
Existing events			Q	⊎
Event name 🛧	Count % change	Users % change	Mark as conversion ?	



Custom events - Step 2: configure and name your event

Configuration			
Custom event name			
page_view_services			
Matching conditions			
Create a custom event when another	event matches ALL of the following conditions		
Parameter	Operator	Value	
event_name	equals	page_view	
page_location	contains	/services	
Parameter configuration			
Parameter configuration			

Modify parameters ⑦

No modifications defined

UA vs GA4 data collection: conversions



GOALS: A THING OF THE PAST Goals don't exist in GA4. Conversion events do.

In Universal Analytics, a conversion is counted only once per user session.

» User downloads file two times. This counts as only one event and conversion goal.

In GA4, a conversion can be counted multiple times per user session.

» User downloads file two times. This counts as two events and conversions.



Marking an event as a conversion

Events	Ø •			Last 28 days Apr 25 - May 22, 2022 Compare: Mar 28 - Apr 24, 202
Conversions				
Audiences				Modify event Create event
Custom definitions				
DebugView	Existing events			<u> </u>
	Event name 🛧	Count % change	Users % change	Mark as conversion (?)
	click	253 🕇 1.2%	140 🕇 17.2%	
	first_visit	1,607 👃 26.3%	1,607 👃 26.3%	
	page_view	3,735 👃 23.2%	1,696 👃 25.5%	
	scroll	646 👃 25.1%	513 👃 24.0%	
	session_start	2,275 👃 27.2%	1,703 👃 25.3%	

- » Navigate to the list of events in your GA4 account
- » Turn on the toggle to mark event as a conversion.

Marking an event as a conversion

Events		La		1 12 - Aug 8, 2021 • are: Jun 14 - Jul 11, 2021
Conversions			Compa	sie. Juli 14-Jul 11, 2021
Audiences Custom definitions	Conversion Events	Network Settings	৶	New conversion event
DebugView	Conversion name ↑	Count % change Value		Mark as conversion ?
	ebook_downloaded	0 ↓100.0%	-	

- » Alternatively, navigate to Conversions screen
- » Click 'New Conversion Event'
- » Add the event name that has been created within 'Events'

More about GA4 conversions

- » Limit of 30 conversions
- » Any event can be a conversion
- » Can create conversion events using parameters and other events
- Defined directly in the reporting interface

Building reports in GA4



STANDARD GA4 REPORTS

- Lifecycle
 - Acquisition
 - Engagement
 - Monetization
 - Retention
- User
 - Demographics
 - Tech

Life cycle	User
- Acquisition	 Demographics
Acquisition overview	Demographics overview
User acquisition: First user	Demographic details
User acquisition	- Tech
Traffic acquisition	Tech overview
- Engagement	Tech details
Overview	
Events	
Conversions: Event name	
Pages and screens	
 Monetization 	
Overview	
Ecommerce purchases	
In-app purchases	
Publisher ads	
Retention	reas

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GA4 custom reports can be created in Data Studio and Explorations

Option 1: Google Data Studio



GA4 & DATA STUDIO

You may notice things look a little different

- » Connect to GA4 as a Property
- » The data schema may seem unfamiliar to you
- » Dimensions and metrics are different
- » Note: connecting your GA4 property to Data Studio is still in beta version and is a lab feature

reason one[®]

WK 12

Mapping data to GA4: Universal Analytics - Audiences

Universal Analytics	Google Analytics 4
Users	Total Users
New Users	New Users
Sessions	Sessions
Number of Sessions per User	Sessions per User
Pageviews	Views
Pages / Session	<i>Calculate</i> as Views / Sessions
Avg. Session Duration	<i>Calculate</i> Avg. Engagement Time as: User Engagement / Sessions
Bounce Rate	Engagement Rate

Mapping data to GA4: Universal Analytics - Acquisition

Universal Analytics	Google Analytics 4
Default Channel Grouping	Session Default Channel Grouping
Campaign	Session Campaign
Medium	Session Medium
Source	Session Source

Mapping data to GA4: Universal Analytics - Behavior

Universal Analytics	Google Analytics 4
Page Title Screen Name	Page Title and Screen Name
Pageviews Screenviews	Views
Event Category Event Action Event Label	Event Name <i>Custom Dimensions</i>
Total Events	Event Count

Mapping data to GA4: Universal Analytics - Conversions

Universal Analytics	Google Analytics 4
Goal XX Completions	Conversions <i>filtered</i> by Event Name
Goal XX Conversion Rate	Use data blending to calculate: Conversions <i>filtered by</i> Event Name / Sessions



Option 2: GA4 Explorations



EXPLORATION REPORTS

Templates designed to deliver ad-hoc insights faster

- » Previously called Analysis Hub, it was an exclusive feature to Analytics 360
- » In GA4, it's a feature of the main menu
- » Report templates are pulled from specialty reports that appear in Universal Analytics
- » By grouping the ad-hoc reporting as a menu item, it streamlines the account menus and makes finding reports less overwhelming and more intuitive

reason one[®]

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Explorations - Main Dashboard

A solution	s > Demo Account Google Merchan	dise 🔹 🔍 Try	y searching "how to activate Goog	le signals"			
Home	Explora	ations					
I. Reports	Start a new	exploration			Template	gallery NEW	
Explore						🔨	
vertising		4					
Configure							
	Blank Create a new ex	xploration	Free form What insights can you uncover with custom charts and tables?	Funnel exploration What user journeys can you an and breakdown with multi-step			lect your re be from the
	Туре	Name 🗸	Owner	Last modified $~~ \psi$	Property	_a ter	mplate galle
	0	Perf by Environment	Savio Costa	May 19, 2022	GA4 - Google Merchandise Store	: ON	create you /n
	0	Campaign Engagement	Brian Park	May 2, 2022	GA4 - Google Merchandise Store	:	
	8	GA360 Support	Aidan Martinez	Apr 29, 2022	GA4 - Google Merchandise Store	:	
	න	Free form	Kyle Blanchette	Apr 28, 2022	GA4 - Google Merchandise Store	:	
	න	Free form	Brett Sneed	Apr 15, 2022	GA4 - Google Merchandise Store	:	
	2	Segment overlap	Kyle Blanchette	Mar 17, 2022	GA4 - Google Merchandise Store	:	
	8	Funnel	Kyle Blanchette	Mar 17, 2022	GA4 - Google Merchandise Store	:	
Admin	0)						

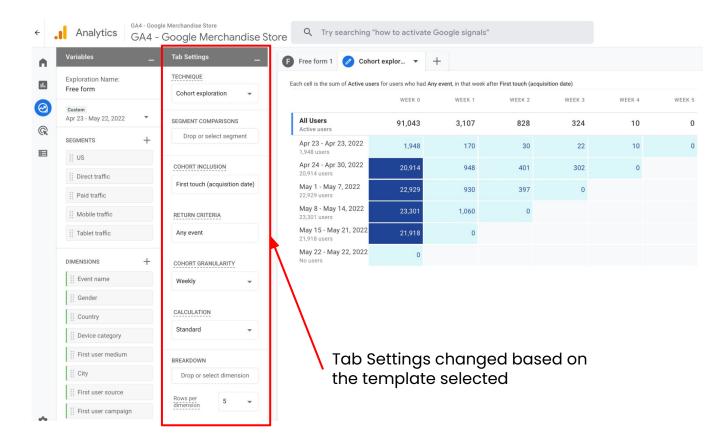
Explorations - Free Form Report

 Variables and tab settings appear to the left of the report area.

 Variables are segments, dimensions, and metrics that can be applied to reports.

n I	Variables	-	Tab Settings	Ø 1	Free form 1 🔹	+				
	Exploration Name:		TECHNIQUE	De	vice category	desktop	mobile	tablet	smart tv	Totals
	Free form	_	Free form 👻	Cit	/	Active users	Active users	Active users	Active users	↓ Active users
2 R	Custom Apr 23 - May 22, 2022	-	VISUALIZATION		Totals	62,003 59.6% of total	40,617 39.1% of total	2,097	9 <0.1% of total	103,987 100.0% of total
	SEGMENTS	+		1	(not set)	11,211	13,113	409	3	24,716
	II US			2	New York	1,859	903	35	0	2,796
	Direct traffic			3	Frankfurt	2,339	195	0	0	2,534
	Paid traffic		SEGMENT COMPARISONS	4	London	1,416	576	18	0	2,006
	Mobile traffic		Drop or select segment	5	Mountain View	1,269	195	6	0	1,470
	Tablet traffic		ROWS	6	Sunnyvale	1,253	190	2	0	1,444
			City	7	Los Angeles	635	764	25	0	1,423
	DIMENSIONS	+	Drop or select dimension	8	San Jose	874	477	7	0	1,357
	Event name			9	San Francisco	794	503	13	1	1,309
	Gender		Start row 1	10	Singapore	613	418	15	0	1,041
	Country		Show rows 10 -		(not set)					
	Device category		Nested rows No 👻		Right click on	visualization to interact with data				
	First user medium									
	City		COLUMNS		TabS	ettings	define	what c	npequ	rs
			Device category			report			"PP00	•

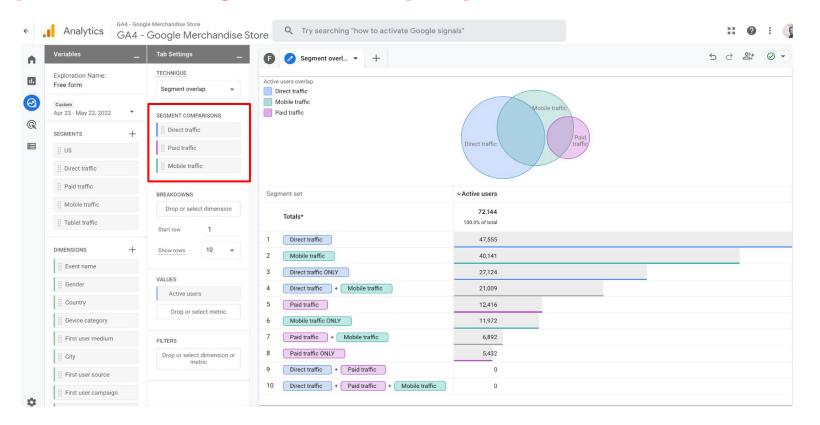
Explorations - Cohort Exploration Report



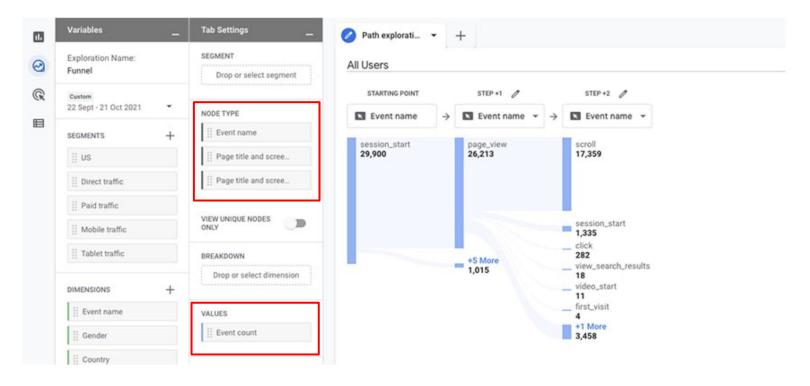
Explorations - Funnel Exploration Report

/ariables _	Tab Settings _	🖉 Fi	unnel explora 🔻	+									
Exploration Name: Funnel	TECHNIQUE Funnel exploration		Step 1 Session start	29.5%	Step 2 Product view	12.9%	Step 3 Add to cart		Step 4 Add shipping info	56.8%	Step 5 Add payment info	66.7%	Step 6 Purchas
Custom 19 Aug - 27 Sept 2021 🔹	Visualisation	2.4K											
EGMENTS +	Standard funnel 👻	1.2K		_									
ii US		1.26											
Direct traffic	MAKE OPEN FUNNEL	0											
Paid traffic	SEGMENT COMPARISONS		+		+		+		+		+		
Mobile traffic	UK users		 1.6K 70.5% 896 81.8% 		605 87.1% 167 81.5%		53 58.9% 29 76.3%		16 43.2% 9 100%		7 33.3% 0		
II Tablet traffic	II FR users									E			
Non-US Users	Drop or select segment	Step	ession start	Segment	Elapsed	time Us	ers (% of Step 1)	Completion rate		Abando	onment rate 70.5%		
UK users		1.0	ession start	FR users			2,305 (100.0%) 1,096 (100.0%)	18.2%	1		81.8%		
Non UK users	STEPS	2. P	roduct view	UK users	7	- 19m	695 (30.2%)	12.9%			87.1%		
FR users	Ession start			FR users		45m	205 (18.7%)	18.5%			81.5%		
	II Product view	3. A	dd to cart	UK users	1	d 09h	90 (3.9%)	41.1%	53		58.9%		
IMENSIONS +	II Add to cart												

Explorations - Segment Overlap Report



Explorations - Path Exploration Report



Explorations - User Lifetime Report

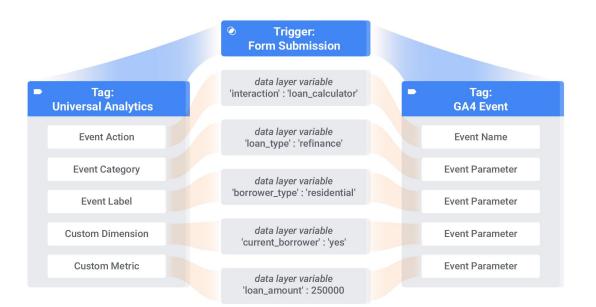
Variables _	Tab Settings	🖉 User lifetime 1 🔹 –	F				5 c 2* .
Paid traffic	COLUMNS Drop or select dimension	First user medium	√ Total users	LTV: Average	Lifetime engagement duration: Average	Lifetime transactions: Average	Purchase probability: Average
iii Tablet traffic	Start column group 1 Show column groups	Totals	37,915 100% of total	\$0.00 100% of total	1h 51m 100% of total	0.001 100% of total	0%
DIMENSIONS +	groups	(none)	30,565	\$0.00	2h 09m	0.001	
Errst user medium	VALUES	(not set)	2,813	\$0.00	18m 18s	0	•
First user source	🔡 Total users	срс	2,165	\$0.00	33m 02s	0	
First user campaign	iii LTV: Average	organic	1,220	\$0.01	1h 50m	0.003	
East audience name	Elfetime engageme	referral	1,093	\$0.00	0m 00s	0	
II First visit date	II Lifetime transactio	invite_a_friend_campaign	18	\$0.00	38m 17s	0	
	II Purchase probabilit	dynamic_link	11	\$0.16	30m 12s	0.091	
METRICS +	Drop or select metric						
III LTV: Average	Cell type Heat 👻						
II Lifetime engageme							
E Lifetime transactio	FILTERS						

Implementation: a hybrid approach



You should **set up a GA4 account** alongside existing Universal Analytics accounts, **giving you time to collect data in GA4** in parallel without losing any data currently held in your other GA accounts.

HYBRID APPROACH Dual tagging keeps your Universal Analytics implementation in place while you build out your GA4 implementation.



Rules to the hybrid approach

- » Don't USE data from both properties
- » Rebuild your reports in GA4
- » Create a timeline



GA4 Roadmap

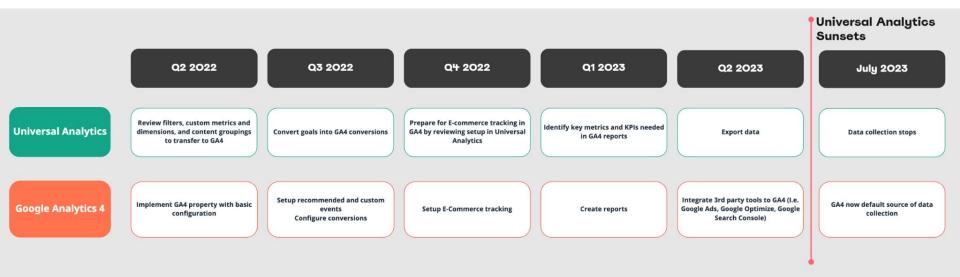


We've been using Universal Analytics for years and it's where all our legacy data is stored. GA4 data looks and feels different. The setup is different and change is hard. But we know we need to start moving in that direction.

How do we get there?



Roadmap to GA4 Implementation

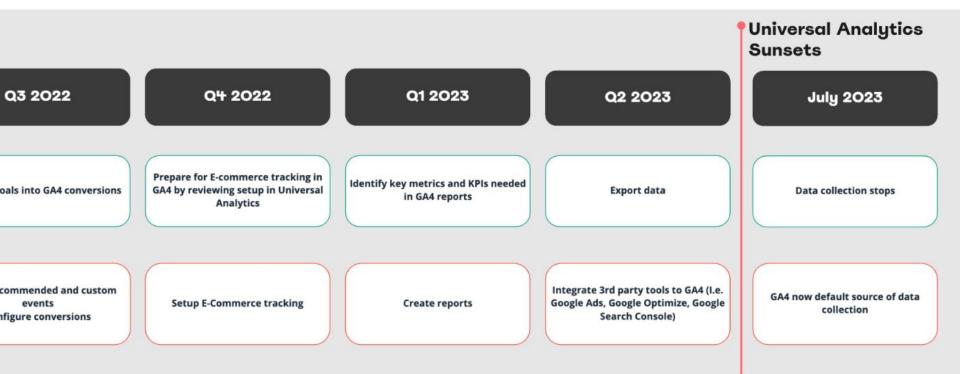


By spreading out the implementation tasks, you make the transition to GA4 more manageable and create the opportunity to test and validate along the way.

Roadmap to GA4 Implementation



Roadmap to GA4 Implementation



Q&A, then that's a wrap!



Key contact and additional information

Christy Jones - Director, Marketing & Optimization

<u> ∠jones@reasononeinc.com</u>

🟫 <u>reasononeinc.com</u>

Visit us online for additional information on our digital expertise.

Contact us to talk about how we can support your GA4 implementation.