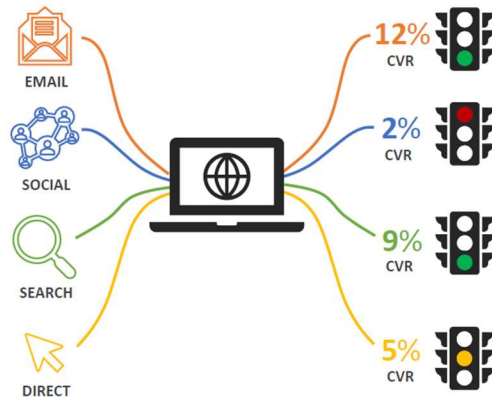


# Traffic Source Analysis



Traffic source analysis is about understanding **where your customers are coming from** and **which channels are driving the highest quality traffic**



## COMMON USE CASES:

- Analyzing search data and shifting budget towards the engines, campaigns or keywords driving the strongest conversion rates
- Comparing user behavior patterns across traffic sources to inform creative and messaging strategy
- Identifying opportunities to eliminate wasted spend or scale high-converting traffic

## WEBSITE\_SESSIONS

**SELECT \* FROM website\_sessions WHERE website\_session\_id = 1059**

website_session_id	created_at	user_id	is_repeat_session	utm_source	utm_campaign	utm_content	device_type	http_referer
1059	2012-03-26 13:51:37	1055	0	gsearch	nonbrand	g_ad_1	desktop	https://www.gsearch.com

## WEBSITE\_PAGEVIEWS

**SELECT \* FROM website\_pageviews WHERE website\_session\_id = 1059**

website_pageview_id	created_at	website_session_id	pageview_url
2039	2012-03-26 13:51:37	1059	/home
2040	2012-03-26 13:54:27	1059	/products
2041	2012-03-26 13:56:48	1059	/the-original-mr-fuzzy
2042	2012-03-26 14:00:14	1059	/cart
2043	2012-03-26 14:04:06	1059	/shipping
2044	2012-03-26 14:05:47	1059	/billing
2045	2012-03-26 14:13:56	1059	/thank-you-for-your-order

## ORDERS

**SELECT \* FROM orders WHERE website\_session\_id = 1059**

order_id	created_at	website_session_id	user_id	primary_product_id	items_purchased	price_usd	cogs_usd
32	2012-03-26 14:13:56	1059	1055	1	1	49.99	19.49

When businesses run paid marketing campaigns, they often obsess over performance and measure *everything*; how much they spend, how well traffic converts to sales, etc.

**Paid traffic is commonly tagged with tracking (UTM) parameters, which are appended to URLs and allow us to tie website activity back to specific traffic sources and campaigns**

`www.abcwebsite.com?utm_source=trafficSource&utm_campaign=campaignName`

WEBSITE_SESSIONS	
<b>SELECT DISTINCT</b> utm_source, utm_campaign <b>FROM</b> website_sessions	
utm_source	utm_campaign
NULL	NULL
bsearch	brand
bsearch	nonbrand
gsearch	brand
gsearch	nonbrand
socialbook	desktop_targeted
socialbook	pilot

## Analysis Result

Which traffic source is the major traffic source based on number of sessions before April,12, 2012?

	utm_source	utm_campaign	http_referer	total_sessions
▶	gsearch	nonbrand	https://www.gsearch.com	3613
	NULL	NULL	NULL	28
	NULL	NULL	https://www.gsearch.com	27
	gsearch	brand	https://www.gsearch.com	26
	bsearch	brand	https://www.bsearch.com	7
	NULL	NULL	https://www.bsearch.com	7

- Major Source of Traffic is = **gsearch-nonbrand** with total **3613 sessions** before April 12, 2012.

Will gsearch-nonbrand session are driving sales or not? The Expected CVR = 4% to make the numbers work.

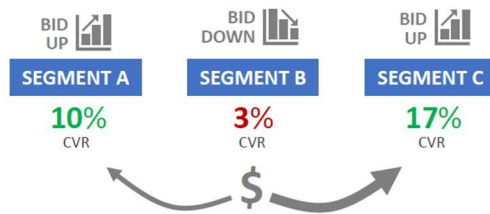
	sessions	orders	session_to_order_conv_rate
▶	9843	279	0.0283

- As the **CVR is 2.83% < expected 4%** need to **reduce the bid on gsearch-nonbrand** as we are over spending on this paid campaign has to save some money know

# Bid Optimization Analysis



Analyzing for bid optimization is about **understanding the value of various segments of paid traffic, so that you can optimize your marketing budget**



## COMMON USE CASES:

- Using conversion rate and revenue per click analyses to figure out how much you should spend per click to acquire customers
- Understanding how your website and products perform for various subsegments of traffic (i.e. mobile vs desktop) to optimize within channels
- Analyzing the impact that bid changes have on your ranking in the auctions, and the volume of customers driven to your site

## Analysis Result

As the gsource-nonbrand was giving less CVR the company made its bid down at April 15, 2012. Therefore, need to get the session volume by weekly for gsource-nonbrand, to see if the bid changes from up to down has an impact on the session volume to drop

week_start_date	sessions
2012-03-19	896
2012-03-25	956
2012-04-01	1152
2012-04-08	983
2012-04-15	621
2012-04-22	594
2012-04-29	681
2012-05-06	399

- This shows that gsearch-nonbrand is fairly sensitive to bid changes.

Pull conversion rate (CVR) by device type?

	device_type	sessions	orders	conv_rt
▶	desktop	3911	146	0.0373
	mobile	2492	24	0.0096

- This shows that we have to rise our bid on desktop and rank higher in auctions

Now the company has increased its bid for gsearch-nonbrand for device type desktop on May 19,2012 and we received mail on June,9,2012 that need weekly analysis of device type session volume

	week_start_date	dtop_sessions	mob_sessions
▶	2012-04-15	383	238
	2012-04-22	360	234
	2012-04-29	425	256
	2012-05-06	430	282
	2012-05-13	403	214
	2012-05-20	661	190
	2012-05-27	585	183
	2012-06-03	582	157

- Desktop session volumes looking great whereas the mobile session volumes are flat

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