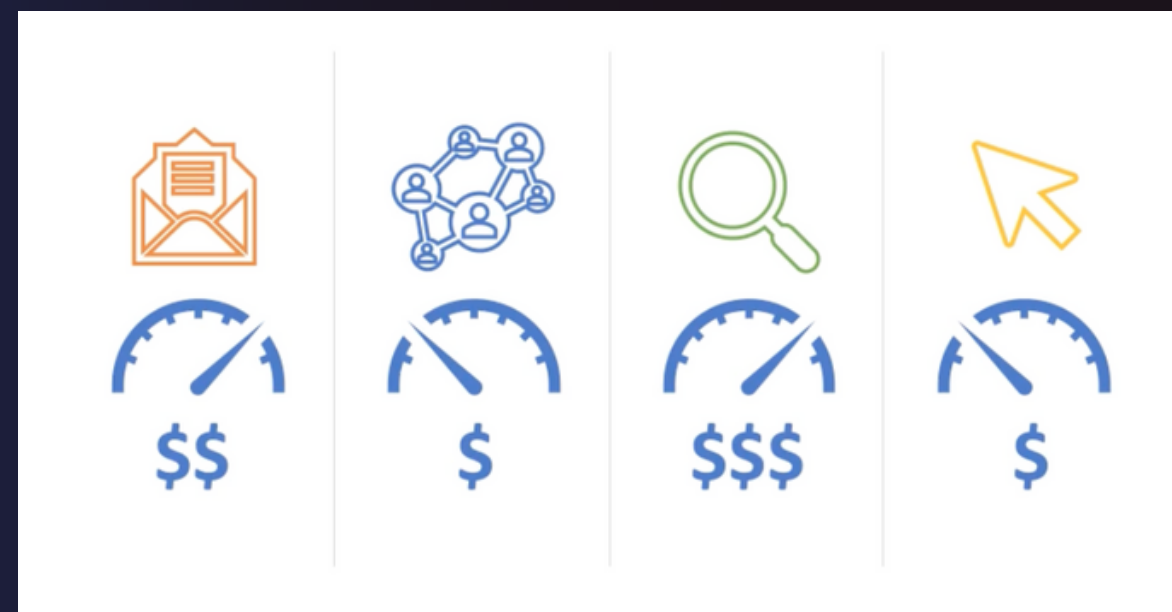


# Channel Portfolio Analysis

Optimizing marketing channels is all about bidding efficiently and using data to maximize the effectiveness of your marketing budget.

## Common Use Cases Include

- Understanding which channels are driving the most sessions and orders through your website.
- Understanding differences in user characteristics and conversion performance across your various marketing channels.
- Optimizing bids and allocating your marketing spend across a multi-channel portfolio so the company can achieve maximum performance.

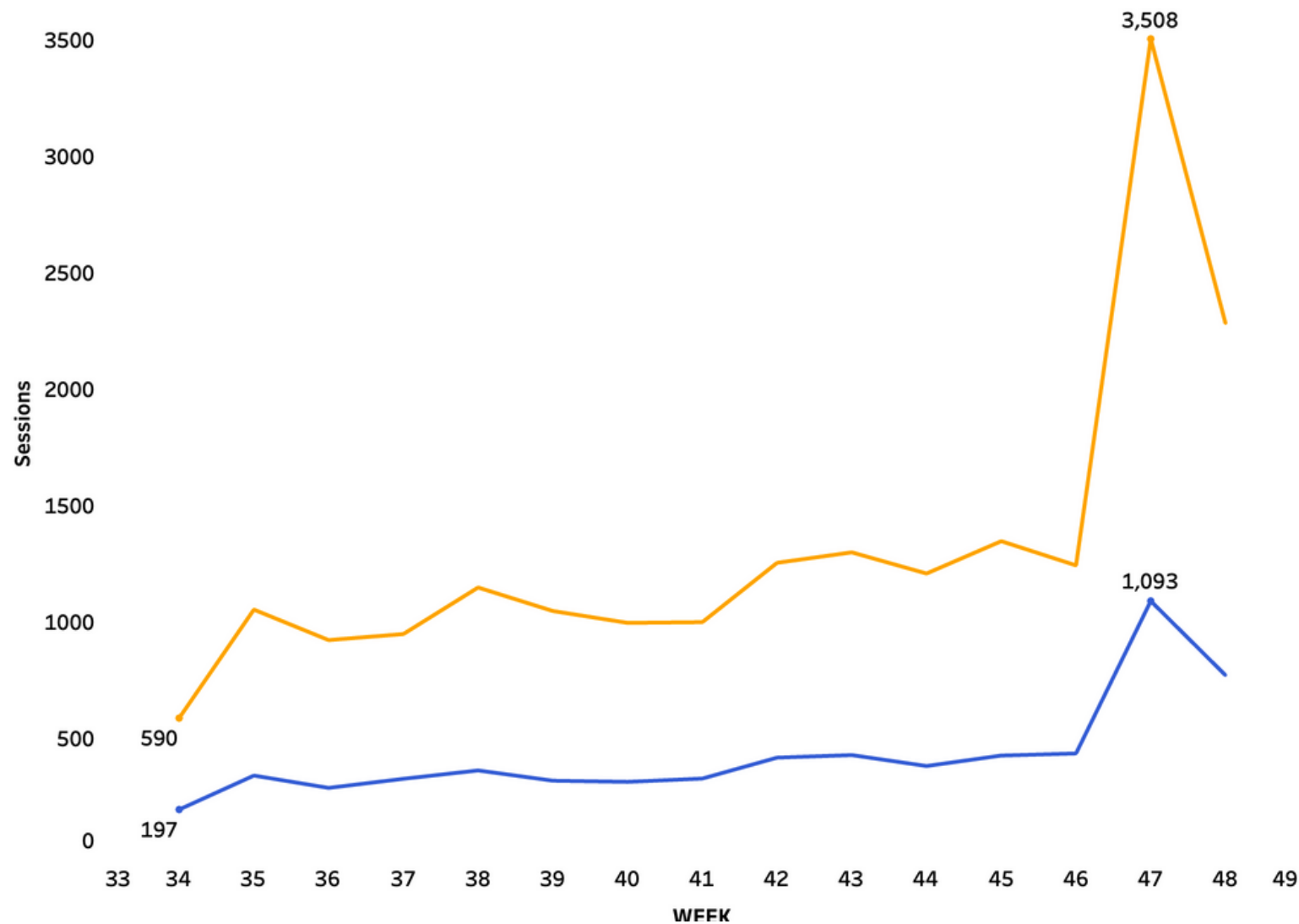


# Marketing Channels Trend Analysis | SQL

```
9
10  -- A second search channel was introduced
11  -- on August 22, 2012 non brand bsearch
12  -- weekly trended session volume of bsearch
13  -- and comparing it with gsearch non brand
14  SELECT
15      WEEK(W.created_at) AS week,
16      MIN(DATE(W.created_at)) AS week_start_date,
17      COUNT(DISTINCT W.website_session_id) AS sessions,
18      COUNT(DISTINCT CASE WHEN W.utm_source = 'gsearch' THEN W.website_session_id ELSE NULL END) AS gsearch_nonbrand_sessions,
19      COUNT(DISTINCT CASE WHEN W.utm_source = 'bsearch' THEN W.website_session_id ELSE NULL END) AS bsearch_sessions
20  FROM website_sessions AS W
21  LEFT JOIN orders AS O ON W.website_session_id = O.website_session_id
22  WHERE
23      W.created_at > '2012-08-22'
24      AND W.created_at < '2012-11-29'
25      AND utm_campaign = 'nonbrand'
26  GROUP BY 1;
```

	week	week_start_date	sessions	gsearch_nonbrand_sessi...	bsearch_sessions
▶ 34	2012-08-22	787	590	197	
35	2012-08-26	1399	1056	343	
36	2012-09-02	1215	925	290	
37	2012-09-09	1280	951	329	
38	2012-09-16	1516	1151	365	
39	2012-09-23	1371	1050	321	
40	2012-09-30	1315	999	316	
41	2012-10-07	1332	1002	330	
42	2012-10-14	1677	1257	420	
43	2012-10-21	1733	1302	431	
44	2012-10-28	1595	1211	384	
45	2012-11-04	1779	1350	429	
46	2012-11-11	1684	1246	438	
47	2012-11-18	4601	3508	1093	
48	2012-11-25	3060	2286	774	

Weekly Trended Session Volume and Marketing Channels



## Findings:

- The G search is about three times as big as the B search, which seems consistent across each of these weeks.
- The high session on volume in week 47 is because of Black Friday.

# Comparing Channel Order Conversion | SQL

```
14
15 SELECT
16     W.device_type,
17     W.utm_source,
18     COUNT(W.website_session_id) AS sessions,
19     COUNT(O.order_id) AS orders,
20     COUNT(O.order_id)/COUNT(W.website_session_id) AS conversion_rate
21 FROM website_sessions AS W
22     LEFT JOIN orders AS O ON W.website_session_id = O.website_session_id
23 WHERE W.created_at > '2012-08-22'
24     AND W.created_at < '2012-09-19'
25     AND W.utm_campaign = 'nonbrand'
26     AND W.utm_source in ('gsearch', 'bsearch')
27 GROUP BY 1,2
28 ORDER BY 1;
```

70:50

Result Grid

	devic...	utm_source	sessions	orders	conversion_rate
>	desktop	bsearch	1162	44	0.0379
	desktop	gsearch	3011	136	0.0452
	mobile	bsearch	130	1	0.0077
	mobile	gsearch	1015	13	0.0128

## .Findings:

- Within desktop, G search has a bit of a better conversion rate than B search[ 4.5% versus 3.8%], and then similarly, within the mobile traffic, we've got a 1.3% conversion rate and a 0.8% conversion rate.
- Both the Desktop and Mobile G search looks like it outperforms against B search.



# Channel Portfolio Trends | SQL

## Channel Portfolio Trends

SELECT

### Result Grid



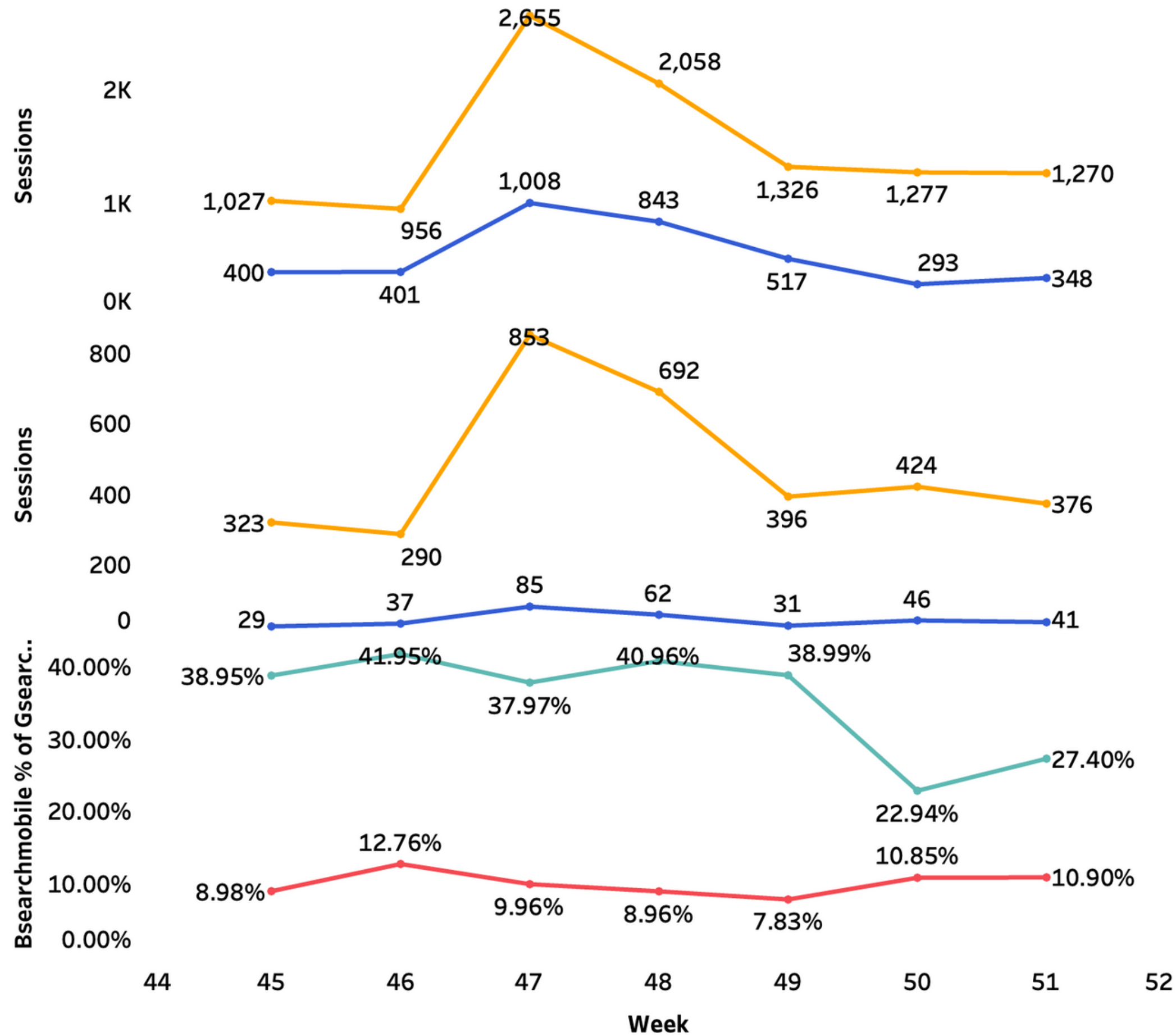
Filter Rows:

Search

Export:

[illegible]

## Marketing Channels Trends



### Measure Names

- Gsearch Desktop
- Bsearch Desktop
- Gsearch Mobile
- Bsearch Mobile
- Bsearchdesktop % of Gsearchdes..
- Bsearchmobile % of Gsearchmobile

Bid down on B Search non-brand happened on December 2nd, 2012.

### Findings:

- We see B search as a percentage of G on mobile is much lower.
- Overall, we saw the same thing earlier in a previous but, interestingly, mobile sessions look pretty steady here, so perhaps b search is less price elastic on mobile, and the volume here is potentially less sensitive to significant changes.
- B search traffic dropped off a bit, but the G search was also down after Black Friday and Cyber Monday, which are major retail online holidays in the United States.



# Site Traffic Breakdown | SQL

```

79 -- Analyzing Direct, Brand Driven Traffic
80
81 SELECT
82     MONTH(created_at),
83     MIN DATE(created_at) AS month_start_date,
84     COUNT(DISTINCT CASE WHEN http_referer IS NOT NULL AND utm_source IS NULL THEN website_session_id ELSE NULL END) AS organic_search,
85     COUNT(DISTINCT CASE WHEN http_referer IS NULL THEN website_session_id ELSE NULL END) AS direct_typein,
86     COUNT(DISTINCT CASE WHEN utm_campaign = 'brand' THEN website_session_id ELSE NULL END) AS paid_brand,
87     COUNT(DISTINCT CASE WHEN utm_campaign = 'nonbrand' THEN website_session_id ELSE NULL END) AS paid_nonbrand,
88     COUNT(DISTINCT CASE WHEN http_referer IS NOT NULL AND utm_campaign IS NULL THEN website_session_id ELSE NULL END)/COUNT(DISTINCT CASE WHEN utm_campaign = 'nonbrand' THEN website_session_id ELSE NULL END) AS organic_pct_of_nonbrand,
89     COUNT(DISTINCT CASE WHEN http_referer IS NULL THEN website_session_id ELSE NULL END)/COUNT(DISTINCT CASE WHEN utm_campaign = 'nonbrand' THEN website_session_id ELSE NULL END) AS 'Direct_pct_nonbrand',
90     COUNT(DISTINCT CASE WHEN utm_campaign = 'brand' THEN website_session_id ELSE NULL END)/COUNT(DISTINCT CASE WHEN utm_campaign = 'nonbrand' THEN website_session_id ELSE NULL END) AS 'brand_pct_nonbrand'
91 FROM website_sessions
92 WHERE created_at < '2012-12-23'
93 GROUP BY 1;
94

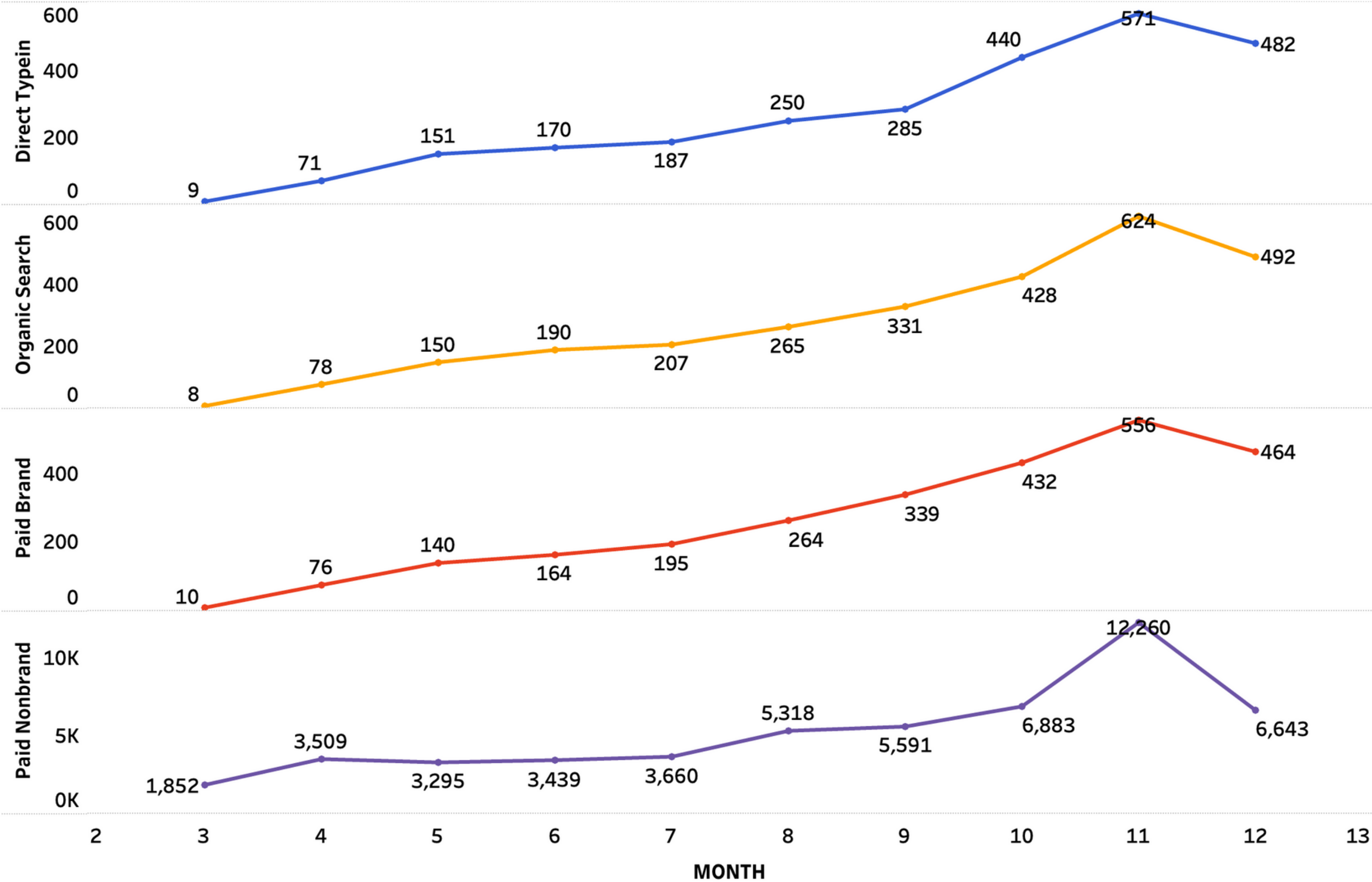
```

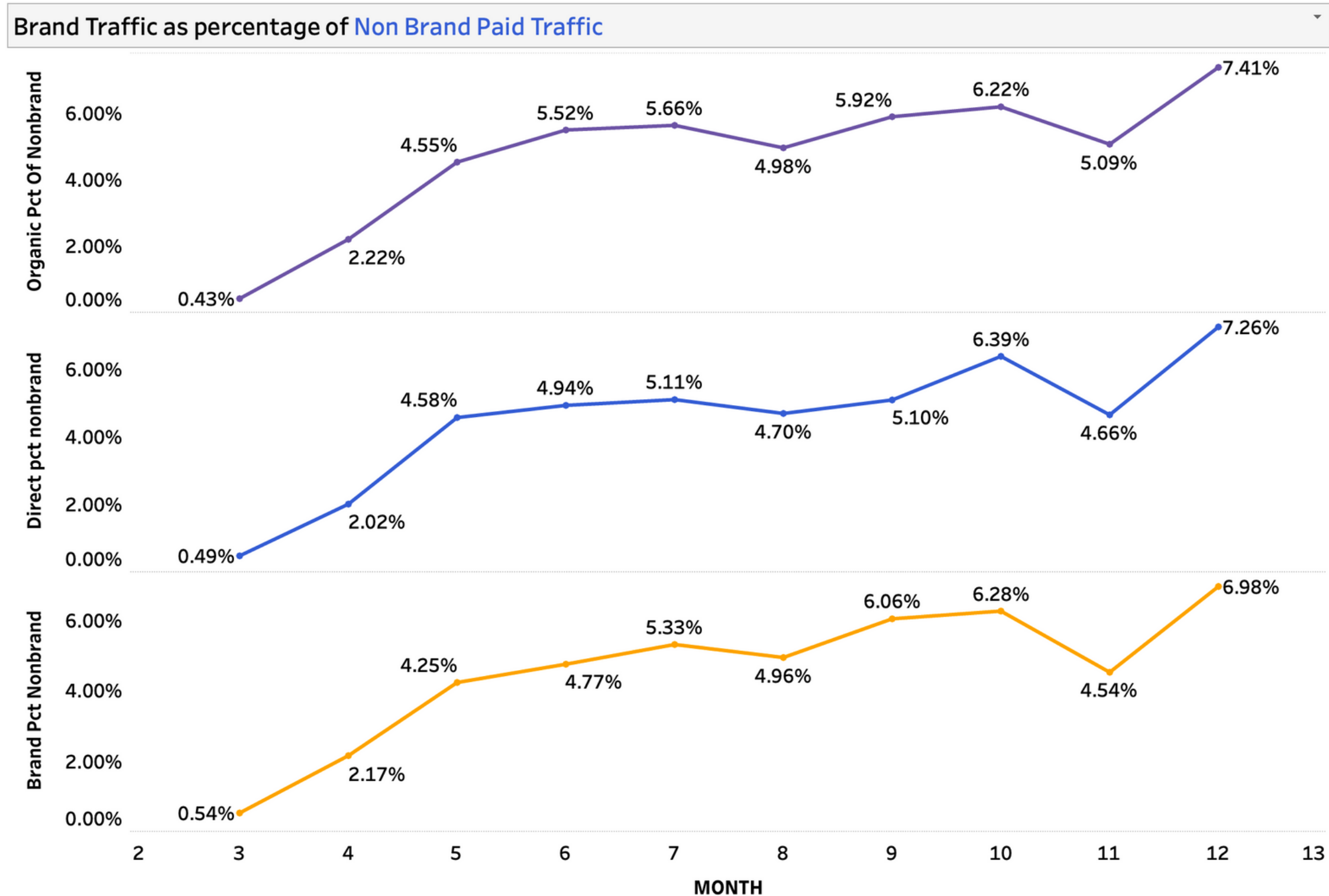
12:93

**Result Grid**   **Filter Rows:**  **Export:** 

	MONTH(created_...	month_start_d...	organic_search	direct_typ...	paid_brand	paid_nonbra...	organic_pct_of_nonbr...	Direct_pct_nonbra...	brand_pct_nonbra...	
▶	3	2012-03-19	8	9	10	1852	0.0043	0.0049	0.0054	
	4	2012-04-01	78	71	76	3509	0.0222	0.0202	0.0217	
	5	2012-05-01	150	151	140	3295	0.0455	0.0458	0.0425	
	6	2012-06-01	190	170	164	3439	0.0552	0.0494	0.0477	
	7	2012-07-01	207	187	195	3660	0.0566	0.0511	0.0533	
	8	2012-08-01	265	250	264	5318	0.0498	0.0470	0.0496	
	9	2012-09-01	331	285	339	5591	0.0592	0.0510	0.0606	
	10	2012-10-01	428	440	432	6883	0.0622	0.0639	0.0628	
	11	2012-11-01	624	571	556	12260	0.0509	0.0466	0.0454	
	12	2012-12-01	492	482	464	6643	0.0741	0.0726	0.0698	

# Site Traffic Breakdown





What's interesting here is over time

- We look at organic in April of 2012, organic is about 2% of non-brand, and then it builds over time, and in December, it's been almost 7 1/2 % of the non-brand
- Direct as a percent of non-brand again. We're starting around 2%, kind of similar to organic, and again building up to 7.2% by December brand as a percent of non-brand
- The brand is also a similar story. It's not relatively as high, but it's on a similar trend where it starts very low, just around 2%, and pretty quickly is starting to get up to be a much more material piece of the pie.