THE AUTHORITY REPORT



How Audiences Find Articles, by Topic

World Economy 36% Facebook	21%	43% Goog	le search
		4070 0009	
U.S. Presidential Politics 59%		16%	25%
		1070	2370
National Security 41%	29%	1	30%
	297	0	30%
State & Local Politics 35%	22%		42%
Local Events			
61%		12%	26%
Local Crime & Incidents			
53%		23%	25%
Criminal Justice			
53%		22%	24%
Business & Finance			
14% 39%			47%
Sports			
19% 3 0%			50%
Entertainment			
61%		10%	29%
Lifestyle			
87%			6% <mark>7%</mark>
Technology			
21% 18%			61%
Job Postings			
12% <mark>4%</mark>			84%
Education & Research			
59%		20%	21%
Facebook Otl	ner referre	rs Google	Search

For almost four years, we've analyzed how readers find their way to the millions of articles and content we track across the web. Over that time, we've seen Facebook take the lead from Google when it comes to the biggest source of external referrer traffic, and we've seen the shrinking of the "long-tail" of referrers.

But the big picture that data can provide in aggregate can mask some important details. For this Authority Report, we wanted to examine diversity of sites, content, and traffic more thoroughly.

How does the audience referral network change according to article topic?

As users of our content analytics dashboard will attest, articles with similar topics or within the same section can have a significantly different make up of incoming traffic than other articles within the same site.

Understanding differences in referral data per topic has practical implications. Knowing ahead of time how an audience is likely to find your story can help you shape everything from editorial calendars to design, and it is crucial for anyone who works on distribution or audience engagement to understand the specifics of readership, not just the overarching trends.

Parse.ly's network includes over **1,000** sites that integrate our analytics technology and generate more than **12 billion** page views per month. The data in this report is based on articles published in 2016, categorized by topic. Our data science team analyzed the full text of each article through a modelling algorithm called LDA (Latent Dirlichet Allocation) to determine topics. Then, for each topic, we took the subset of articles that fell cleanly into that topic and examined their breakdown of external referral traffic, total posts, and traffic by device. Roughly **14 billion** page views were generated by people visiting this subset of **1 million** articles. While Facebook and Google dominate the referral traffic to these articles, the ratio varies wildly from topic to topic. The remaining referring sites also can be significant in certain areas, and key to discovering and engaging existing communities and niche audiences.

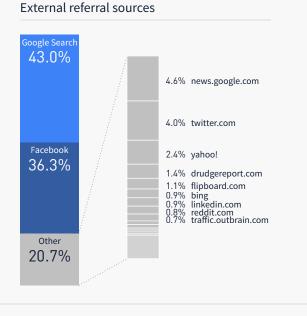
See full details of the methodology at the end of this report.

Topic Details

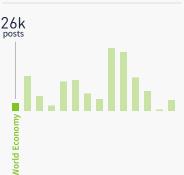
Below, we list each of the 14 topics in detail. For a sense of what articles are categorized into the topic, we've listed the unique words that are most likely to be found in the text of these posts. Common words have been excluded from this list. The size of the word shows how likely it is to appear in a post for this topic relative to other words. The number of articles included in each topic is noted on the right, which provides the relative size of that topic in the Parse.ly network.

Next, we show the ranked external referrers to articles for each respective topic. To compare a topic's referrals with an average post in our network, Facebook accounted for 39 percent of all known external referrer traffic in 2016, and Google search accounted for 35 percent. The scale of the long-tail external referrers has been expanded to better show what percentage of external traffic they contribute. Similar to the Parse.ly dashboard, we also show the device breakdown of traffic to the articles in the topic at the bottom right of each section.





Number of posts for each topic



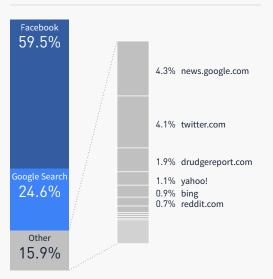
Device traffic breakdown

46%	45%	9%
Desktop	Mobile	Tablet

U.S. Presidential Politics



External referral sources



Number of posts for each topic



43%	47%	10%
Desktop	Mobile	Tablet

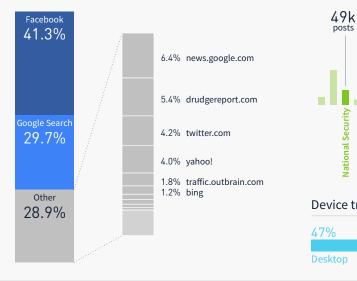


National Security



External referral sources

Number of posts for each topic



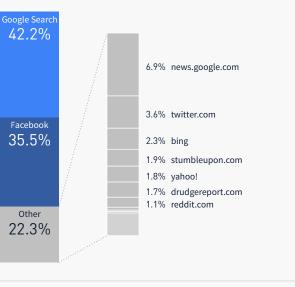
Device traffic breakdown

%
let

State & Local Politics



External referral sources



Number of posts for each topic



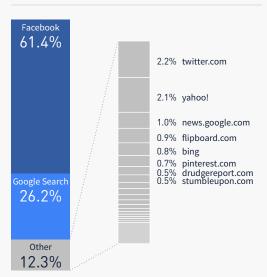
Device traffic breakdown

42%	46%	1	1%
Desktop	Mobile	Та	ablet

Local Events



External referral sources



Number of posts for each topic



Device traffic breakdown

43%	47%	11%
Desktop	Mobile	Tablet

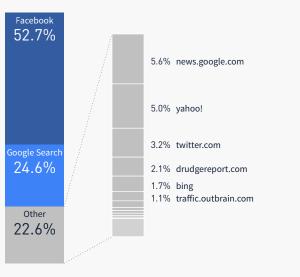


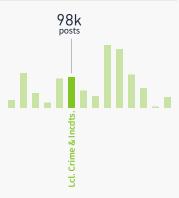
Local Crime & Incidents



External referral sources

Number of posts for each topic

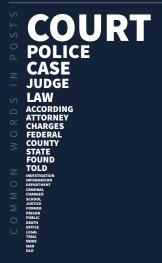




Device traffic breakdown

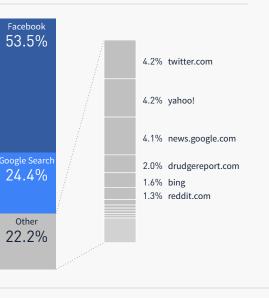
36%	53%	11%
Desktop	Mobile	Tablet
Desktop	MODILE	Tablet

Criminal Justice

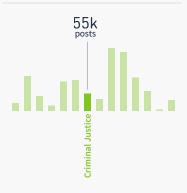


External referral sources

External referral sources



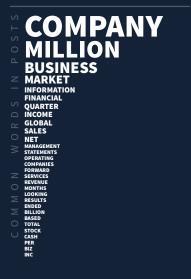
Number of posts for each topic



Device traffic breakdown

42%	47%	10%
Desktop	Mobile	Tablet

Business & Finance



Google Search 46.9% 7.2% news.google.com 6.7% twitter.com 4.8% linkedin.com 3.5% drudgereport.com 3.4% yahoo! 2.8% finance.yahoo.com 1.7% flipboard.com 1.3% bing

Number of posts for each topic





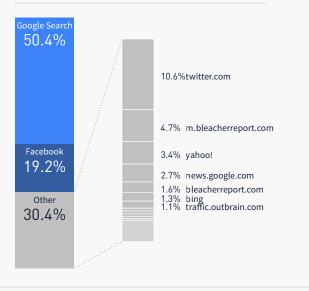
Sports



External referral sources

Number of posts for each topic

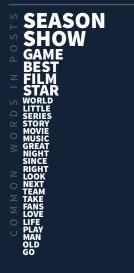
210k



Device traffic breakdown

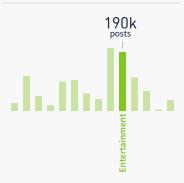
36%	52%	13%
Desktop	Mobile	Tablet

Entertainment



Facebook 3.1% twitter.com 3.1% twitter.com 1.1% yahoo! 1.0% news.google.com 1.0% traffic.outbrain.com 0.8% bing 0.4% flipboard.com 0.4% zergnet.com 0.4% zergnet.com 10.1% Other

Number of posts for each topic



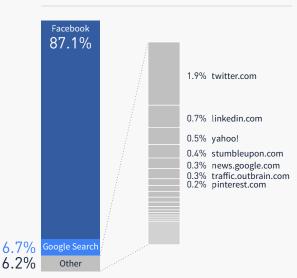
Device traffic breakdown

36%	56%	7%
Desktop	Mobile	Tablet



External referral sources

External referral sources



Number of posts for each topic



Device traffic breakdown

32%	63%	6%
Desktop	Mobile	Tablet

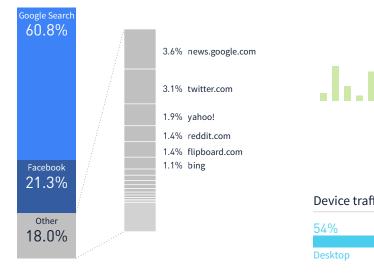


Technology



External referral sources

Number of posts for each topic





Device traffic breakdown

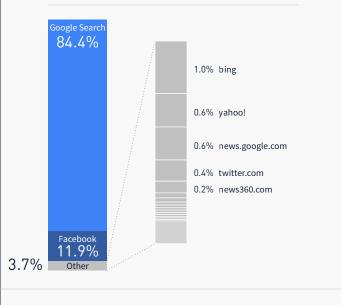
54%	38%	8%
Desktop	Mobile	Tablet

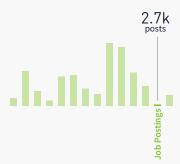
Job Postings



External referral sources

Number of posts for each topic





Device traffic breakdown

44%	48%	8%
Desktop	Mobile	Tablet

Education & Research

PERCENT STUDENTS SCHOOL MARKET REPORT HIGH EDUCATION REALTH DATA WORKNET WORKN

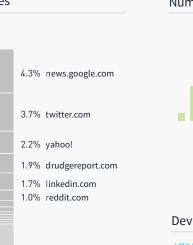
External referral sources

Facebook

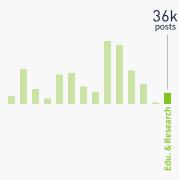
58.9%

21.3%

Other 19.8%



Number of posts for each topic



Device traffic breakdown

47%	46%	7%
Desktop	Mobile	Tablet



Summary

As shown across these topics, external traffic can vary significantly. For example, articles included in the "lifestyle" topic receive **87 percent** of their external traffic from Facebook, whereas Google search generates **60 percent** for articles in "technology." Traffic from Twitter can make up from below **1 percent** to **10 percent** depending on the topic. Having these references can help publishers make informed decisions about where to promote specific articles and increase the diversity of traffic sources to their content.

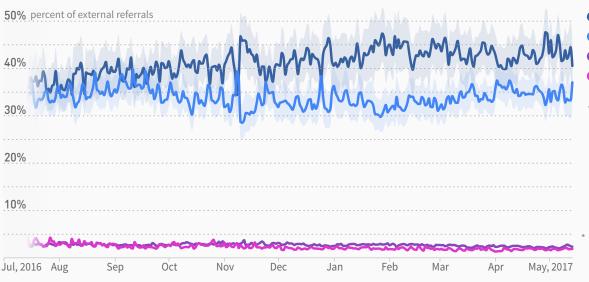
Methodology

To detect topics we started with a corpus of articles from the Parse.ly network that were published in 2016. We removed articles whose full text was either (1) not written in English, or (2) shorter than 600 characters. This left us with 10,020,061 articles in our corpus. We then removed common words from each document in the corpus and used the open-source Apache Spark to vectorize the corpus and run the LDA topic modelling algorithm on it. We used a vocabulary size of 100,000 words, set the alpha parameter to 0.15 for each topic, the beta parameter to 30/vocab_size. We fit the LDA model using the mini-batch optimizer in 20 batches, each of which covered 5 percent of the corpus. The most important parameter for this model is *k*, the number of topics to detect. In this application, we were interested in high-level topics, so we knew a priori that we would set *k* between 10 and 25. We experimented with values of *k* in this range, each time manually inspecting the set of top words in each topic to get a sense of how coherent topics were, and to what extent overlapping topics were detected, and we found the best results when *k*=18. Three of the topics simply indicated whether metadata (such as HTML or JavaScript) or other technical details (such as whether certain commenting systems were used) had leaked into the full text—we left those out of this analysis. We also removed one topic whose top words seemed incoherent.

For this report, we selected the articles that fell cleanly into one category—that is, those articles where the LDA model believed at least two thirds of the words were generated by a single topic. This left us with a subset of just over 1 million articles that we could cleanly assign to a single topic. Referral percentages reported are the percent of identifiable, external referral traffic that articles received. Internal or "dark" referral traffic is not included.

Top referrers in the Parse.ly network

Taking a broader look at external referral traffic across our whole network, the Parse.ly referral dashboard allows you to track changes of the biggest referrers over time. View more referrers and dive into more detail at: www.parsely.com/referrer-dashboard



Top referrers by external referral contribution on May 16, 2017

- Facebook (40%)
 Google Search* (37%)
 Twitter (2.3%)
- Yahoo! (1.8%)

The confidence range associated with a referral source depicts the percentage of potential referral traffic across the entire online publishing industry.

Traffic from Google AMP is not currently included in Google Search.



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About Parse.ly

Parse.ly empowers companies to understand, own and improve digital audience engagement through data, so they can ensure the work they do makes the impact it deserves. Our clients, who include some of the largest media companies in the world, harness their content's potential through our real-time and historical analytics dashboard, API, and data pipeline.