

Online Search Engine Advertising Data Visualization Tool - a crossfilter application

Yingsai Dong Computer Science UBC 2014-12-12

Crossfilter

- Fast Multidimensional Filtering
- for Coordinated Views

Crossfilter

Speed

Demo: elastic lists

data.csv

Keyword, Position, Previous Position, Volume, CPC, Url, Traffic, Traffic Cost (expedia.1.1.6120000.0.08.http://www.expedia.com/.20.21.1.11.0.12.1110000 cheap flights, 3, 3, 2240000, 1.94, http://www.expedia.com/Flights, 1.41, 1.90, expedia.com,1,1,368000,0.05,http://www.expedia.com/,1.21,0.04,0.12,11100 delta airlines,3,3,1830000,0.25,http://flights.expedia.com/delta-air-lin cheap tickets, 2, 2, 1000000, 1.62, http://www.expedia.com/Flights, 0.91, 1.02, expedia flights, 1, 1, 201000, 0.11, http://www.expedia.com/Flights, 0.66, 0.05 hotels,3,3,823000,1.83,http://www.expedia.com/Hotels,0.52,0.65,0.76,1540 expedia hotels,1,1,135000.0,42,http://www.expedia.com/Hotels.0,44,0,12,0 10 airtran,3,3,673000,0.36,http://flights.expedia.com/airtran-airways-reser 11 flights, 3, 3, 550000, 1.58, http://www.expedia.com/Flights, 0.34, 0.38, 0.75, 64 airline tickets, 3, 2, 550000, 1.66, http://www.expedia.com/, 0.34, 0.39, 0.88, 4 hotels.com, 11, 11, 1000000, 1.12, http://www.expedia.com/Hotels, 0.33, 0.25, 0. 13 vacation packages, 1, 1, 90500, 2.67, http://www.expedia.com/Vacation-Package 14 15 www.expedia.com,1,1,90500,0.06,http://www.expedia.com/,0.29,0.01,0.13,11 16 jetblue, 12, 12, 2740000, 0.11, http://flights.expedia.com/jetblue-airways-re cheap airline tickets, 2, 2, 246000, 2.00, http://www.expedia.com/Flights, 0.2 17 18 google flights, 4,5,450000, 1.79, http://flights.expedia.com/, 0.22, 0.27, 0.0 all inclusive vacations, 1, 1, 60500, 3.52, http://www.expedia.com/All-Inclus 19 20 cheaptickets, 2, 2, 201000, 0.92, http://www.expedia.com/Flights, 0.18, 0.11, 0. expedia flights,2,2,201000,0.11,http://www.expedia.com/flight-deals,0.18 21 22 hotels near me,3,2,246000,1.57,http://www.expedia.com/Hotels,0.15,0.16,0 hotel.2.2.165000.2.43.http://www.expedia.com/Hotels.0.15.0.25.0.72.32000 23 24 car rental, 11, 10, 450000, 3.35, http://www.expedia.com/Cars, 0.14, 0.34, 0.90, 25 expidia, 1, 1, 40500, 0.12, http://www.expedia.com/, 0.13, 0.01, 0.14, 111000000 26 budget car rental,5,4,368000,1.19,http://www.expedia.com/daily/advert/ca 27 plane tickets, 3, 3, 201000, 1.26, http://www.expedia.com/, 0.12, 0.11, 0.73, 197 28 expedia flights,3,4,201000,0.11,http://www.expedia.com/Destinations-In-U 29 all inclusive resorts, 2, 2, 135000, 3.20, http://www.expedia.com/All-Inclusi travel, 2, 2, 135000, 1.55, http://www.expedia.com/, 0.12, 0.13, 0.78, 3470000000 30 31 airfare, 2, 2, 135000, 1.61, http://www.expedia.com/, 0.12, 0.13, 0.81, 64200000 32 expedia hotels,2,2,135000,0.42,http://www.expedia.com/hotel-deals,0.12,0 33 aeromexico,4,4,246000,0.68,http://flights.expedia.com/aeromexico-reserva hotels near me, 4, 3, 246000, 1.57, http://www.expedia.com/Maine-Mall-Hotels. 34 cheap hotels, 4, 4, 246000, 2.76, http://www.expedia.com/Hotels, 0.12, 0.23, 0.9 expedia coupon,1,1,33100,2.61,http://www.expedia.com/p/info-other/expedi expedia hotel, 1, 1, 33100, 0.19, http://www.expedia.com/Hotels, 0.10, 0.01, 0.2 expedia flight 1.1.33100.0.10 http://www.expedia.com/Flights.0.10.0.00

Online Advertising

Website: expedia.com

- Keyword: "flights to boston", "cheap hotels near me", "flights to Chicago"
 - o Live demo on Google

Optimize Ads Campaign

Report & Data

- SEMrush.com
 - Regular users, can't afford expensive services, want data without limitation on the domain and keywords
 - o Live demo on semrush.com

What do we want?

- Features for an ideal visualization tool
 - o Browser-based
 - o Fast & efficient
 - Multiple views for different dimensions
 - Easy and straightforward to interact with

My new visualization tool

· Live demo.

My new visualization tool

- · Good:
 - o Scale.
 - o Fast in three ways.
 - o Browser-based.
 - Multiple views.

- Limitation:
 - Limitation on precise value
 - More details in the result list

Thanks

Yingsai Dong 2014-12-12