Entity Optimisation in 2019

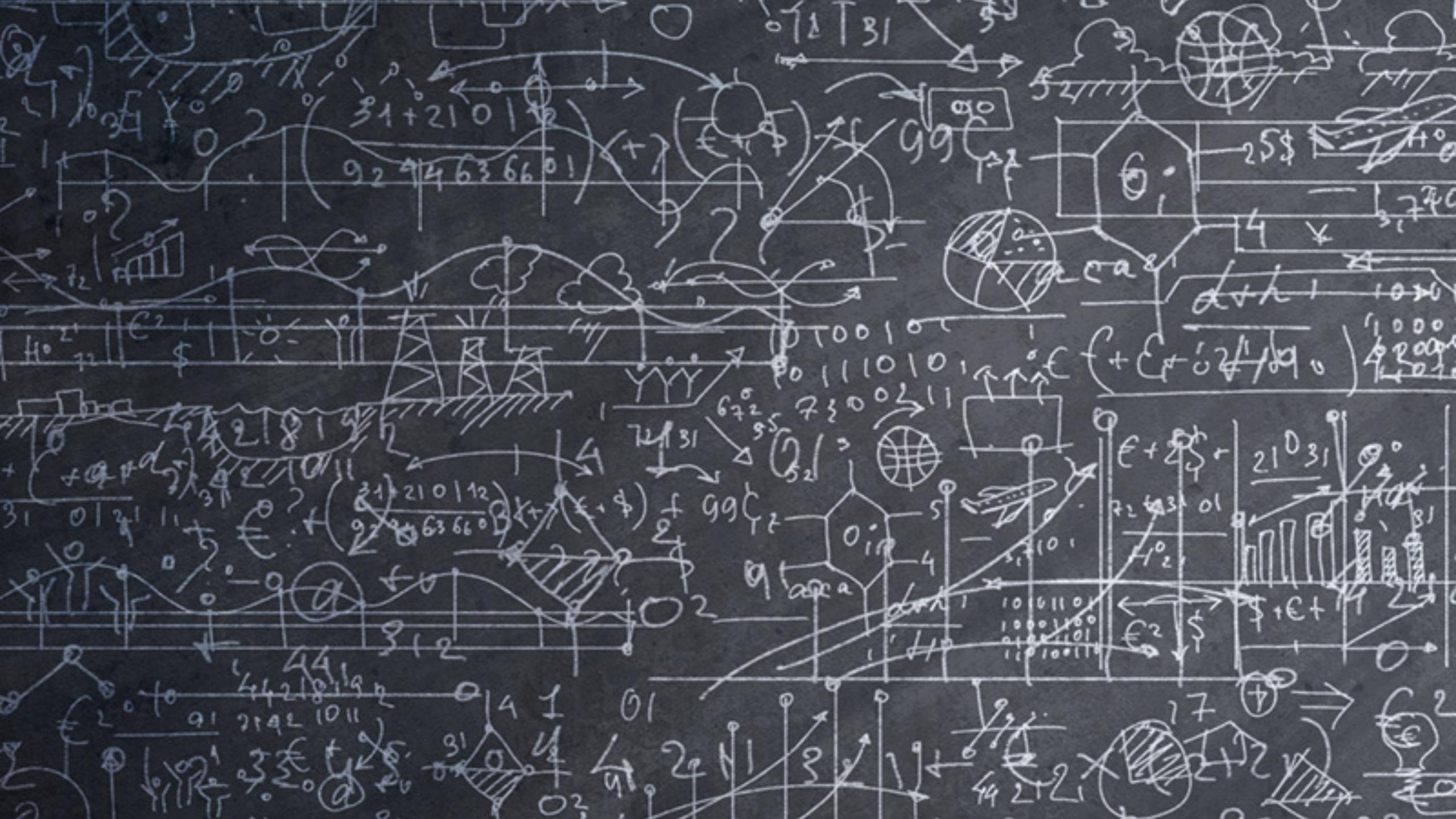
Kevin Indig

Entity Optimization in 2019

Kevin Indig

3 reasons SEO is getting harder



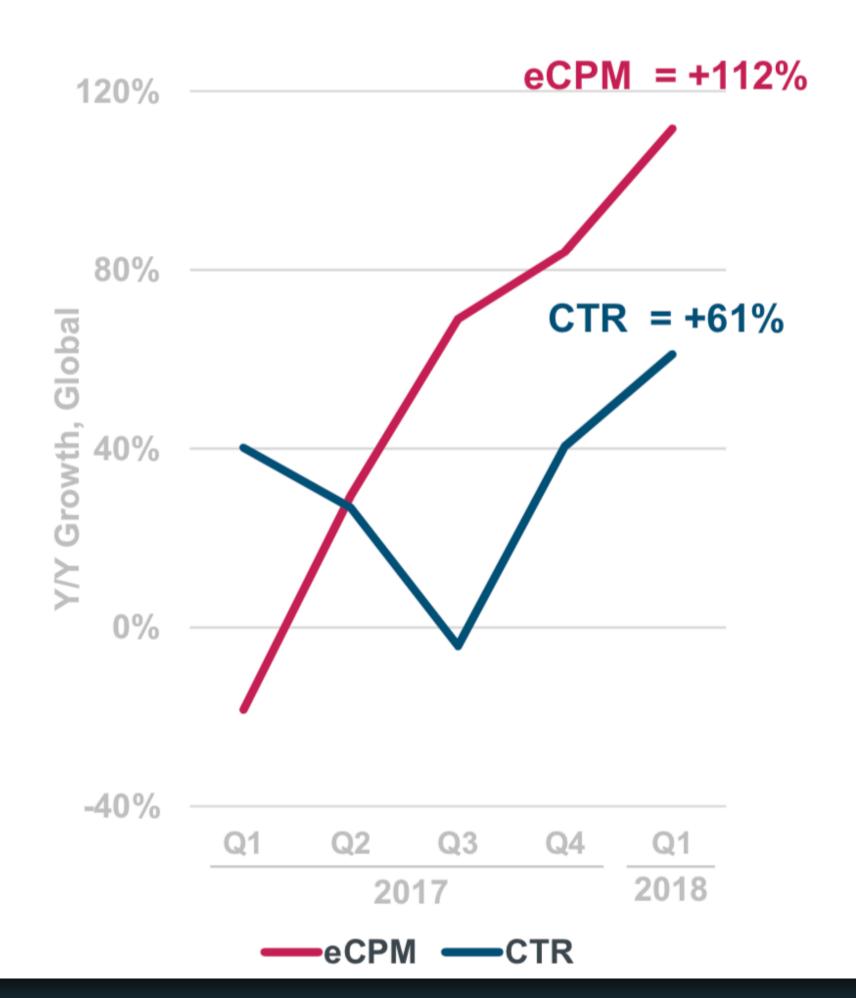


Return on Ad Spend = Cost Rising @ Faster Rate than Reach

In performance-based
[digital advertising] channels,
competition for top placement has
reduced ROIs over the years &
been a source of margin pressure...

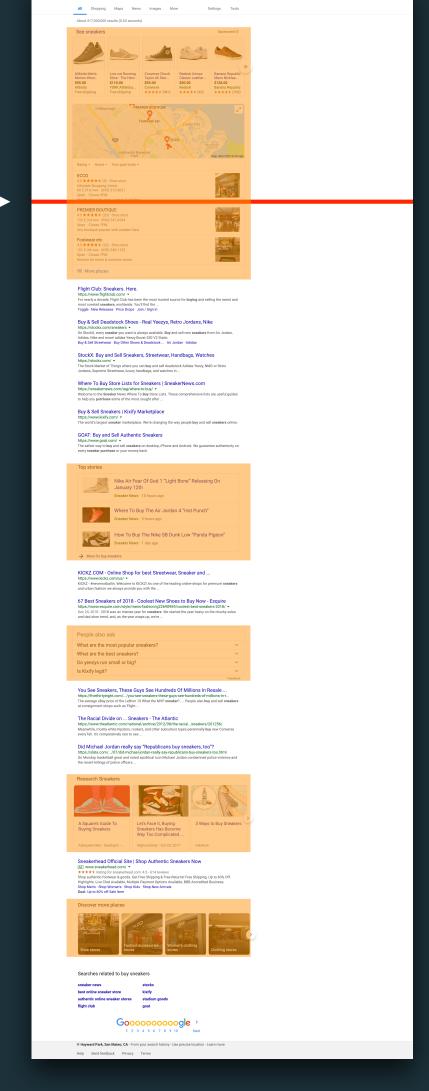
- Glenn D. Fogel, CEO & President, Booking Holdings Q3:17 Earnings Call, (11/17)

Facebook E-Commerce eCPM vs. CTR Y/Y Growth



Desktop

Fold -

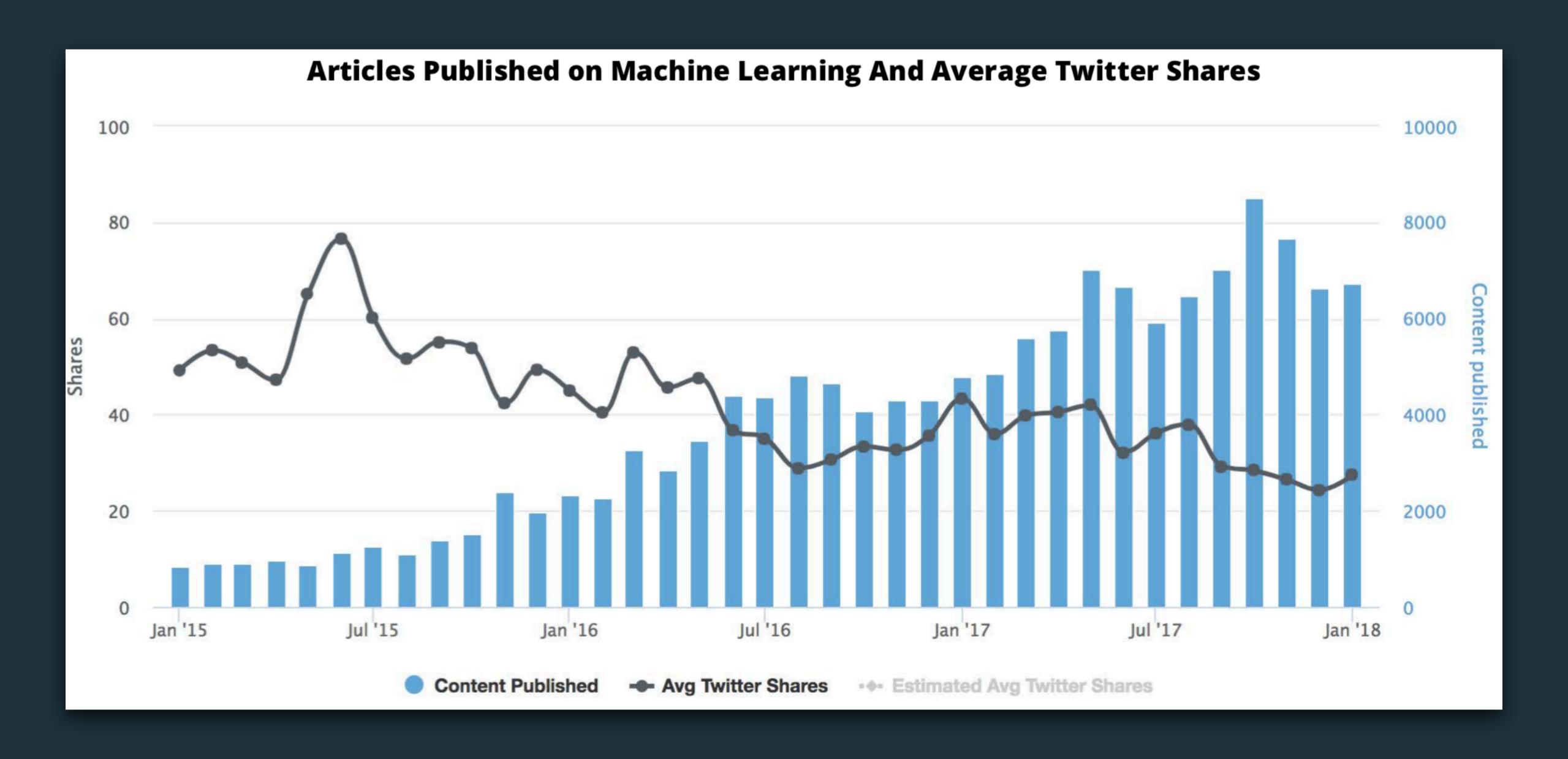


Mobile

Fold ·



We need to be more efficient!



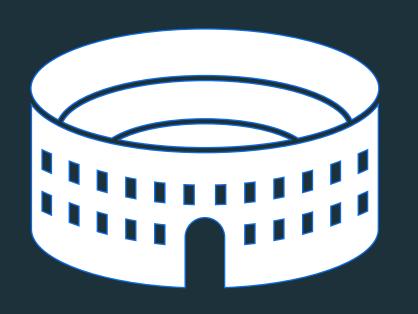
Entity Optimization







www.kevin-indig.com



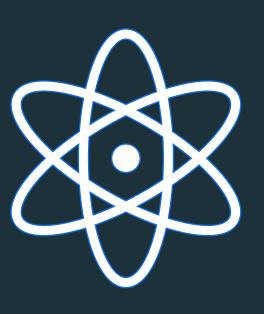




Ideas



Books



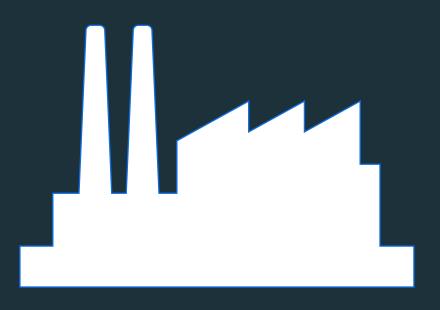
More



People



Places



Companies



Products

When Sebastian Thrun Person started at Google ord in 2007 DATE, few people outside of the company took him seriously. "I can tell you very senior CEOs of major American NORP car companies would shake my hand and turn away because I wasn't worth talking to," said Thrun Person, now the co-founder and CEO of online higher education startup Udacity, in an interview with Recode ORG earlier this week DATE.

A little less than a decade later pate, dozens of self-driving startups have cropped up while automakers around the world clamor, wallet in hand, to secure their place in the fast-moving world of fully automated transportation.

Semantic, interconnected objects that help machines to understand explicit and implicit language.

Why entities?

- Shift away from link graph to organize index
- Group different content formats from same brand
- Language-agnostic
- Empower voice-search

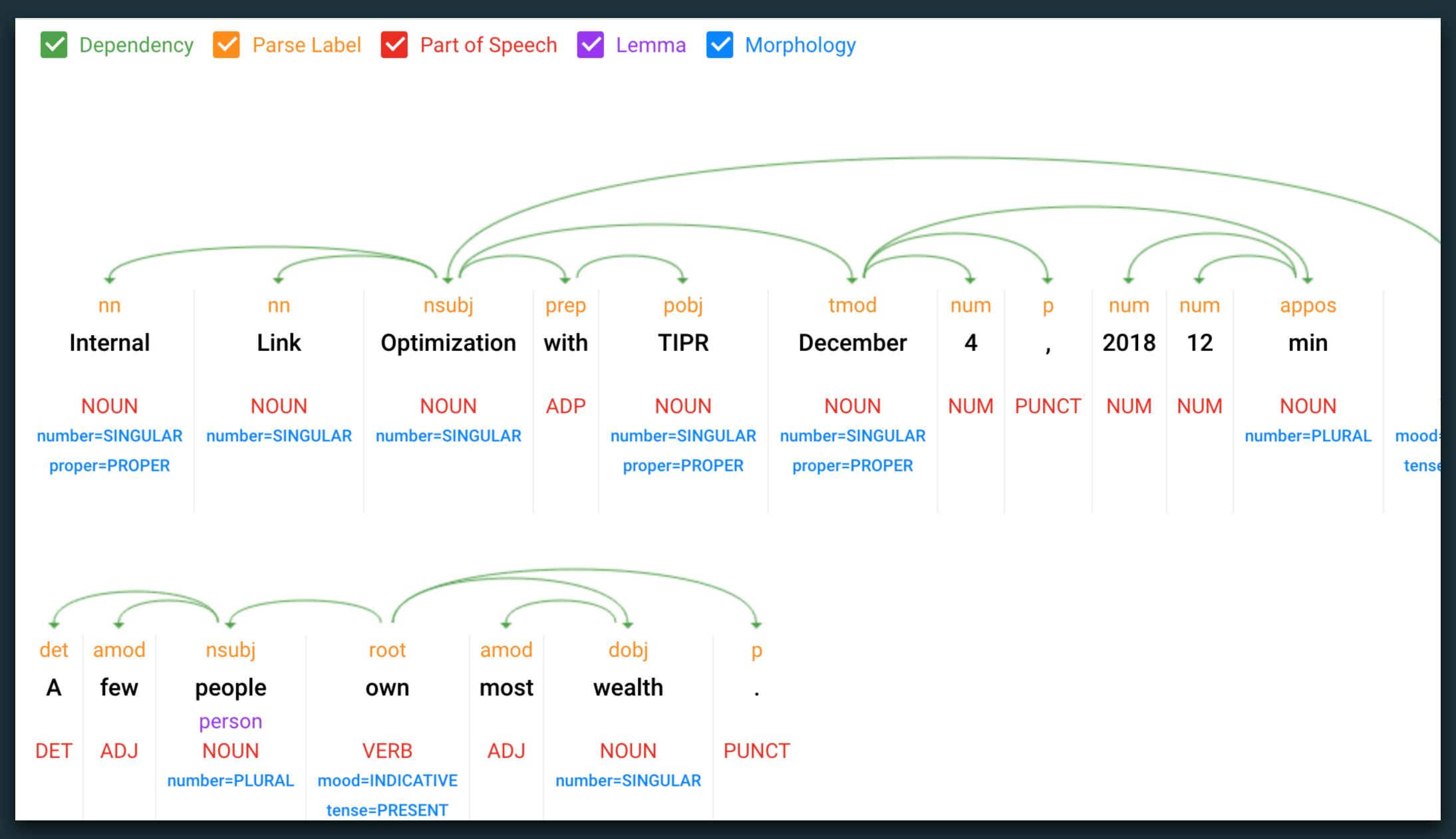
What you need for entity extraction

Knowledge Base ID Tons of data Attributes MREIDs Google Corpus Word2Vec Freebase Wikipedia

2012: 500 objects, 3.5b facts

Word2Vec

Identifying relationships with CBOW



Clustering content into topics

Cloud Natural Language API

Content Category

Content Categories

/Arts & Entertainment/Entertainment Industry/Film & TV Industry

/Arts & Entertainment/Entertainment Industry/Recording Industry

SEND FEEDBACK

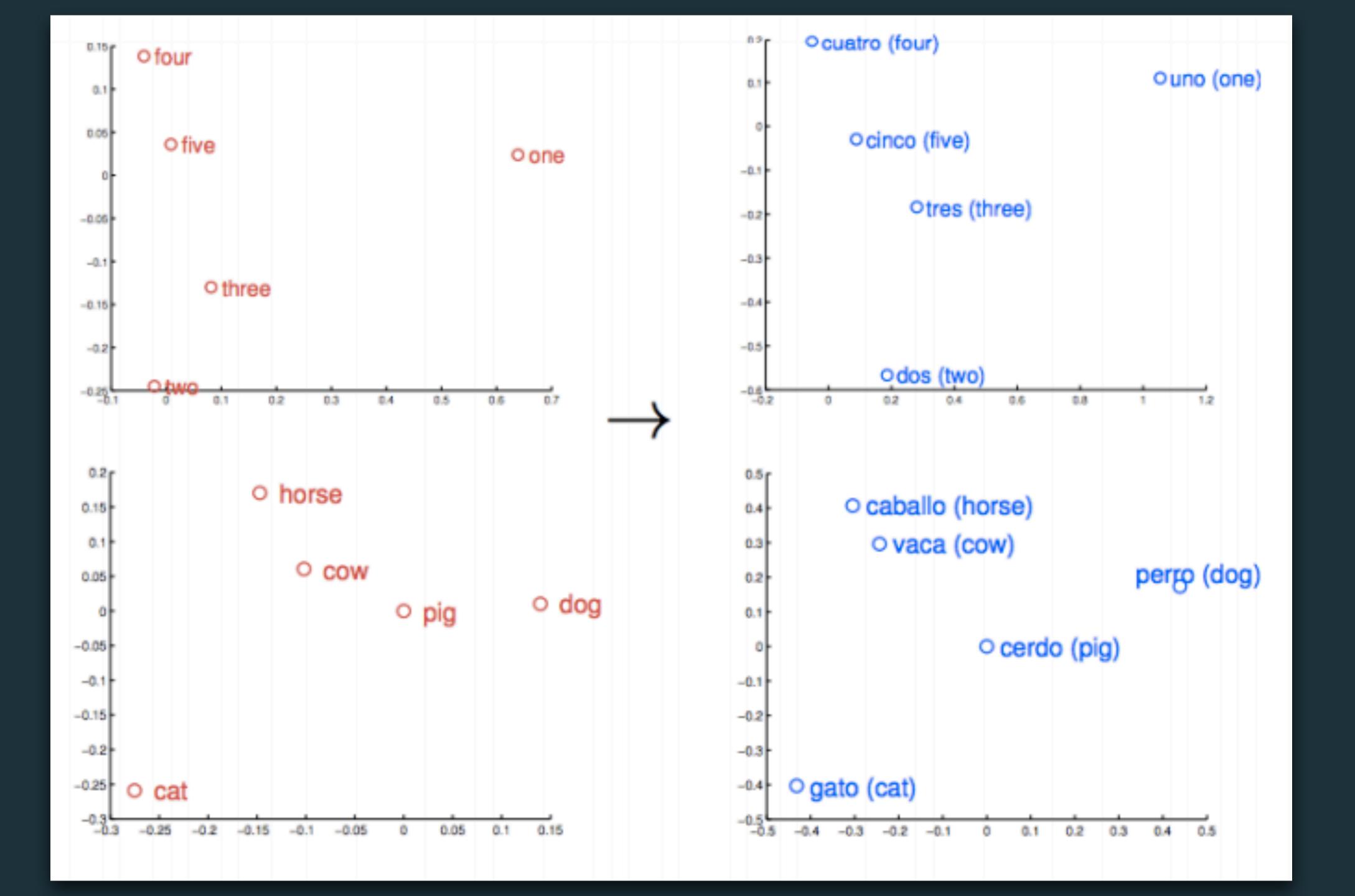
A complete list of content categories returned for the classifyText method are shown below.

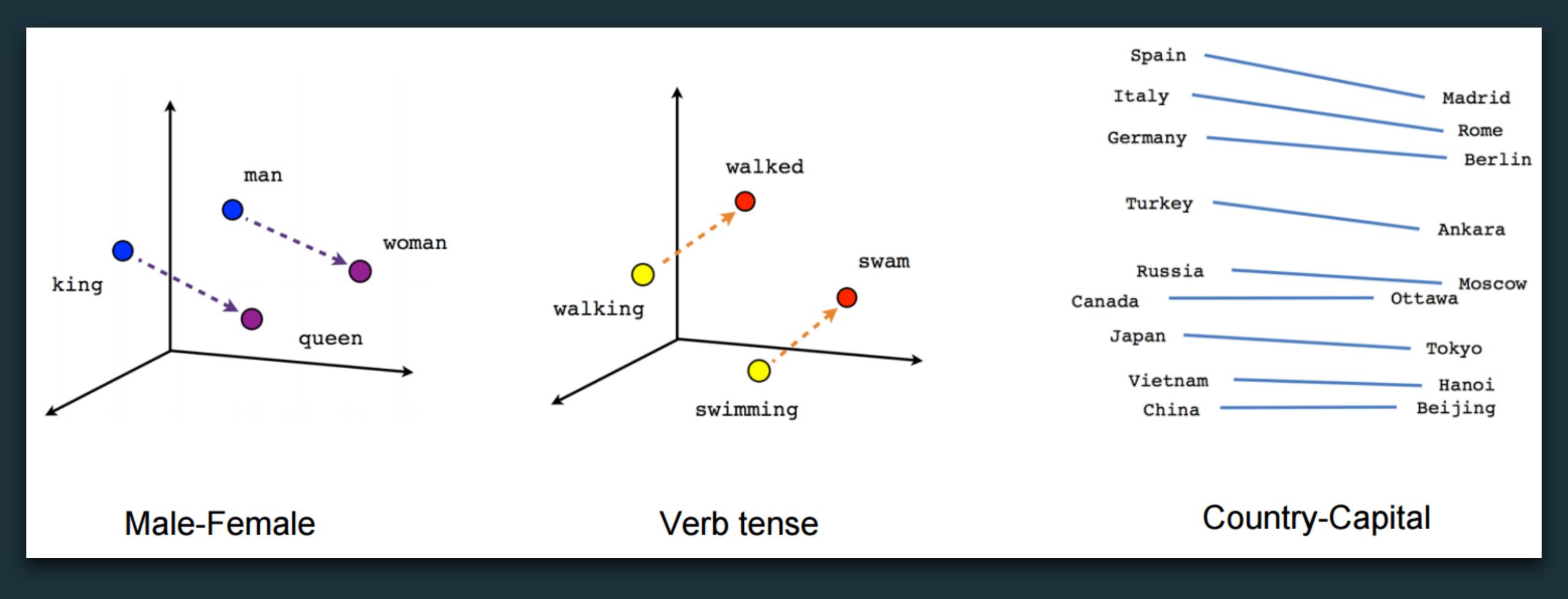
The Natural Language API filters the categories returned by the classifyText method to include only the most relevant categories for a request. For instance, if /Science and /Science/Astronomy both apply to a document, then only the /Science/Astronomy category is returned, as it is the more specific result.

/Adult	/Hobbies & Leisure
/Arts & Entertainment	/Hobbies & Leisure/Clubs & Organizations
/Arts & Entertainment/Celebrities & Entertainment News	/Hobbies & Leisure/Clubs & Organizations/Youth Organizations & Resources
/Arts & Entertainment/Comics & Animation	/Hobbies & Leisure/Crafts
/Arts & Entertainment/Comics & Animation/Anime & Manga	/Hobbies & Leisure/Crafts/Fiber & Textile Arts
/Arts & Entertainment/Comics & Animation/Cartoons	/Hobbies & Leisure/Merit Prizes & Contests
/Arts & Entertainment/Comics & Animation/Comics	/Hobbies & Leisure/Outdoors
/Arts & Entertainment/Entertainment Industry	/Hobbies & Leisure/Outdoors/Fishing

/Hobbies & Leisure/Outdoors/Hiking & Camping

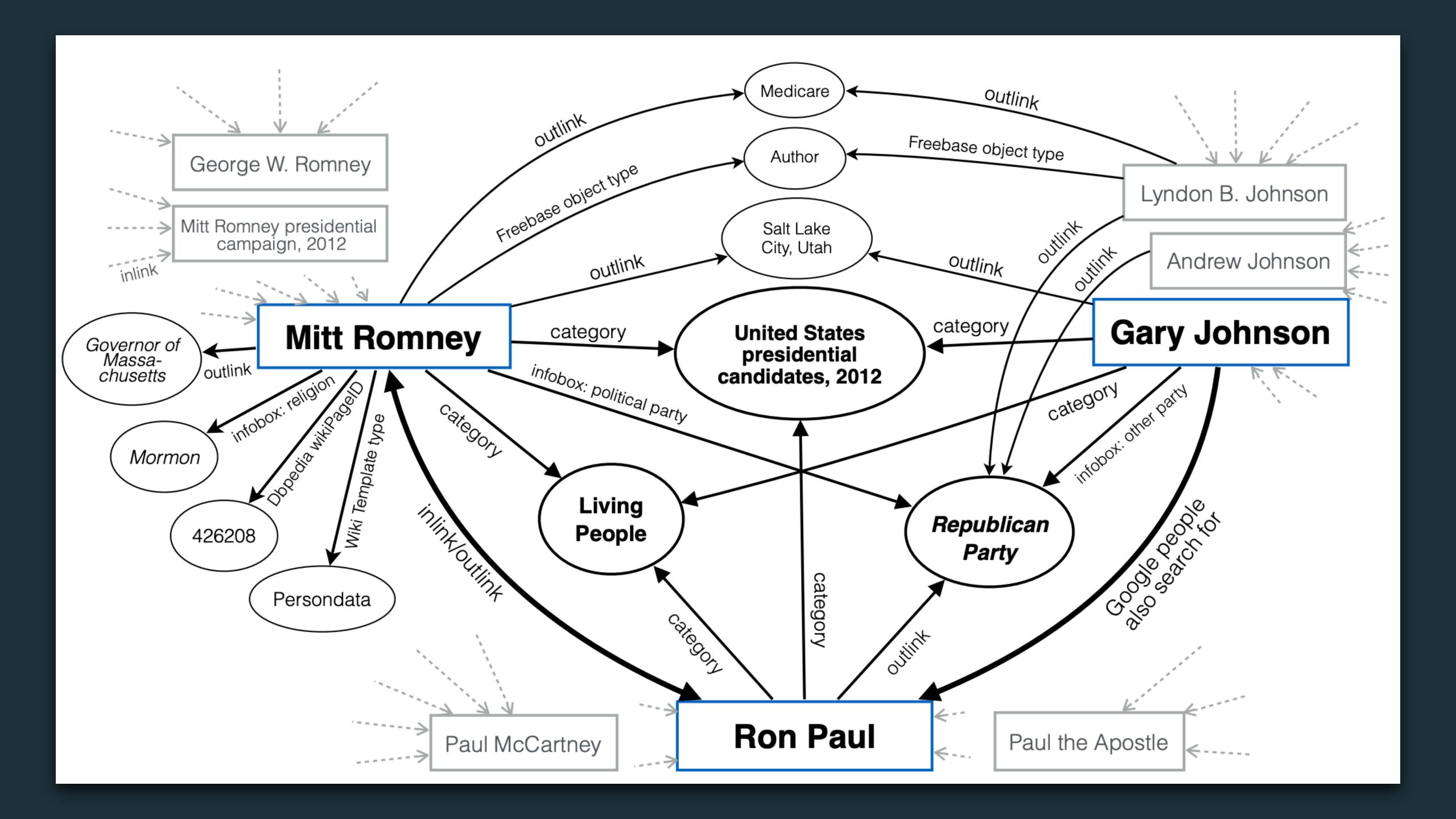
/Hobbies & Leisure/Paintball

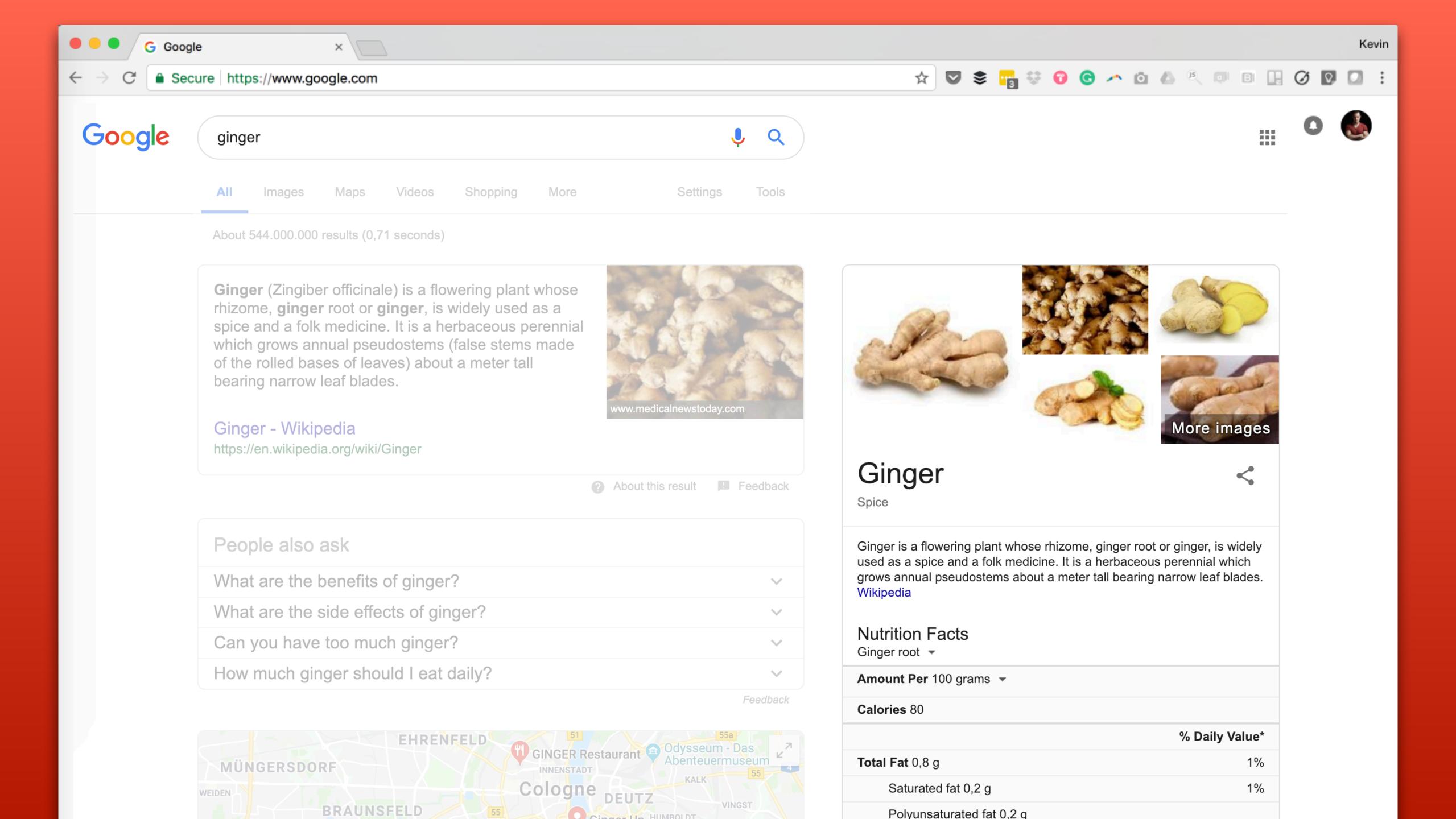


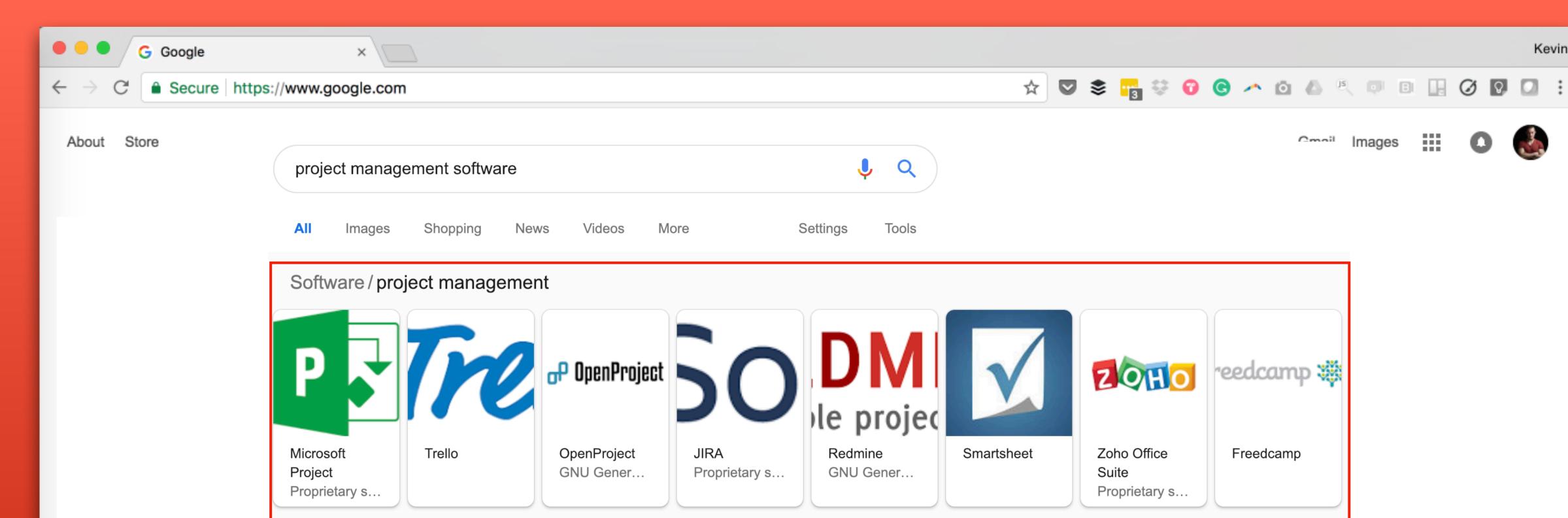


King - Man + Woman = Queen

Entities = nodes Relationships = edges







Kevin

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Simple Project Software | For Real-Time Visibility

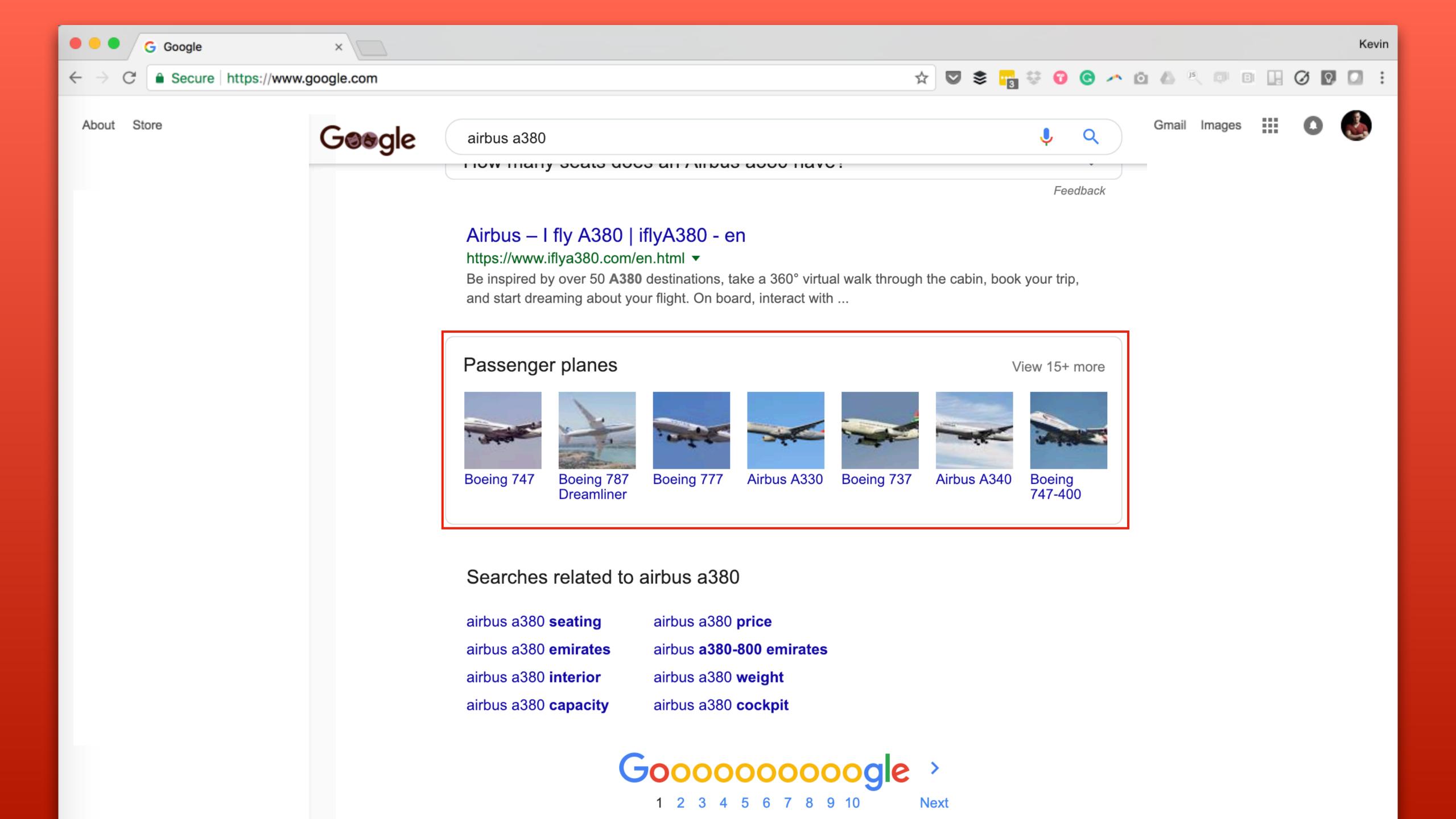
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"Take a query like [taj mahal]. For more than four decades, search has essentially been about matching keywords to queries. To a search engine the words [taj mahal] have been just that—two words.

But we all know that [taj mahal] has a much richer meaning. You might think of one of the world's most beautiful monuments, or a Grammy Award-winning musician, or possibly even a casino in Atlantic City, NJ. Or, depending on when you last ate, the nearest Indian restaurant. It's why we've been working on an intelligent model—in geek-speak, a "graph"—that understands real-world entities and their relationships to one another: things, not strings."

Google Algorithm Update Chatter & Signals February 20th Google Confirmed Weekend Algorithm Feb 22, 2018 • 8:45 am | - (94) by <u>Barry Schwartz</u> 📘 💽 | Filed Under <u>G</u> Ranking Shift As "Core Update" Feb Mar 13, 2018 • 7:43 am | (62) Google confirms rolling out a broad core by Barry Schwartz [] [] Filed Under [search algorithm update earlier this week Apr Google has confirmed rumors that a search algorithm update took place on Monday. Some sites may have seen their rankings improve, while others may have seen negative or zero change. Is Another Google Update Happening In Barry Schwartz on April 20, 2018 at 2:52 pm May? May Google Confirms An Algorithm May 24, 2018 • 8:28 am ' Google Search Algorithm Update Saturday July 21st?

Update Occurred September

Oct

Matt Southern / September 29, 2018

Sep

October 16, 2018 Google Search Algorithm Update

Oct 17, 2018 • 8:17 am | (79) Google Thanksgiving Search Algorithm Nov Ranking Update

> Nov 26, 2018 • 8:23 am | (40) Google Search Ranking Algorithm Update by Barry Schwartz (1) [1] Filed Und Jan Around January 6th

Jul 23, 2018 • 8:02 am | = (48)

by Barry Schwartz | Filed Under Google Search Algorithm Update

Jan 7, 2019 • 8:48 am | = (42)

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by Barry Schwartz | Filed Und

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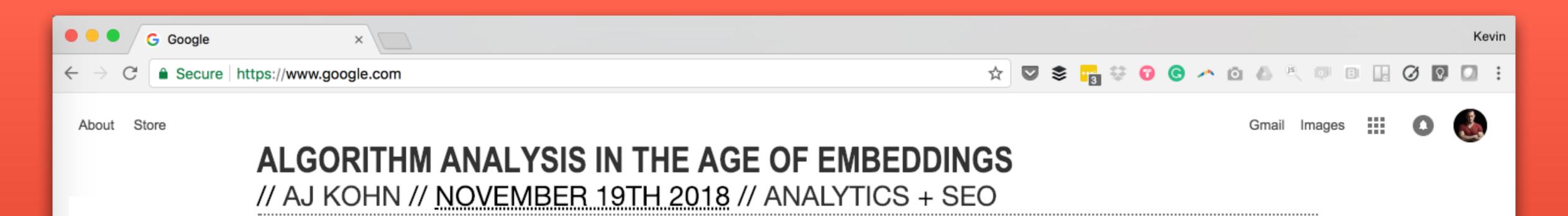
Jan Around January 6th

Jan 7, 2019 • 8:48 am | = (42)

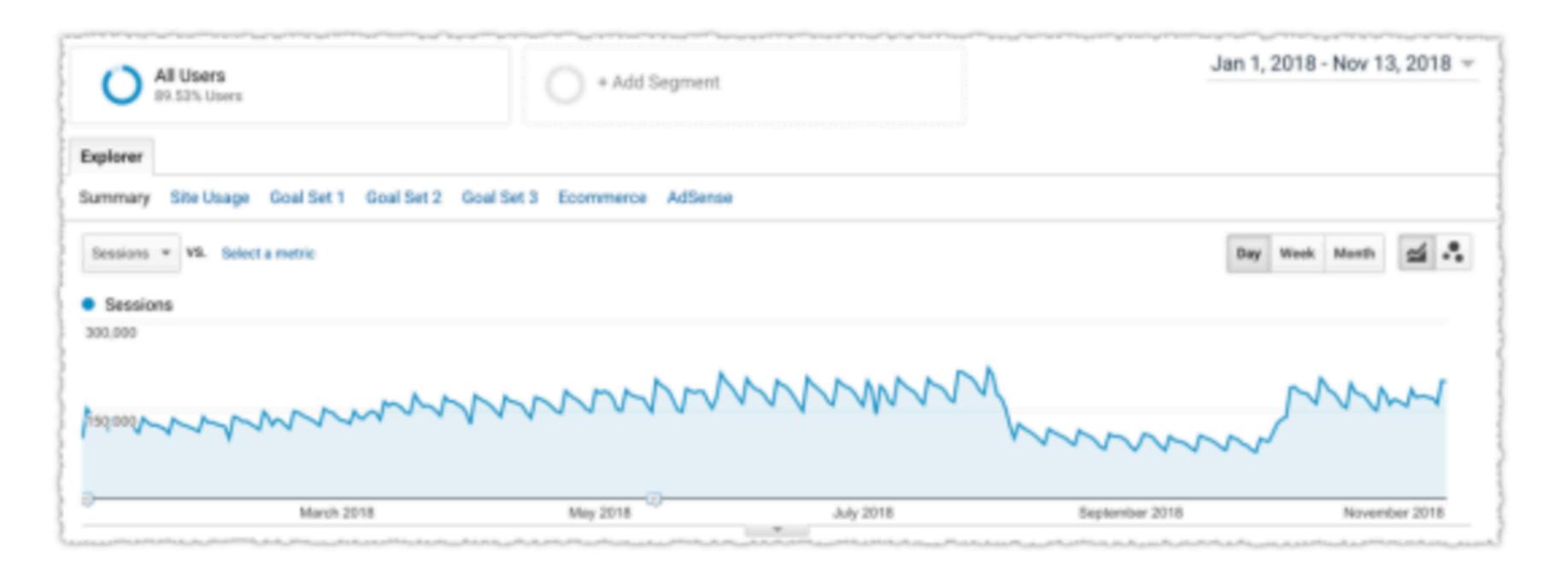
Nov Ranking Update

Update

Oct



On August 1st, 2018 an algorithm update took 50% of traffic from a client site in the automotive vertical. An analysis of the update made me certain that the best course of action was ... to do nothing. So what happened?



Sure enough, on October 5th, that site regained all of its traffic. Here's why I was sure doing **nothing** was the right thing to do and why I dismissed any E-A-T chatter.

That's nice but ...

...what now?

10 tips for creating content that ranks in 2019

1. Build a brand, not a site

Topics Location

Logo

Domain {Brand} Social accounts

App
People AdWords account?

Topics

Location

Logo

Domain

{Brand}

Social accounts

App

People

AdWords account?

2. Create expert-level content



Browse topics

Project management

Advantage

Scrum

Kanban

What is Agile?

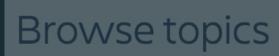
Agile is an iterative approach to project management and software development that helps teams deliver value to their customers faster and with fewer headaches. Instead of betting everything on a "big bang" launch, an agile team delivers work in small, but consumable, increments. Requirements, plans, and results are evaluated continuously so teams have a natural mechanism for responding to change quickly.



Getting Git Right

Enter Your Email For Git News



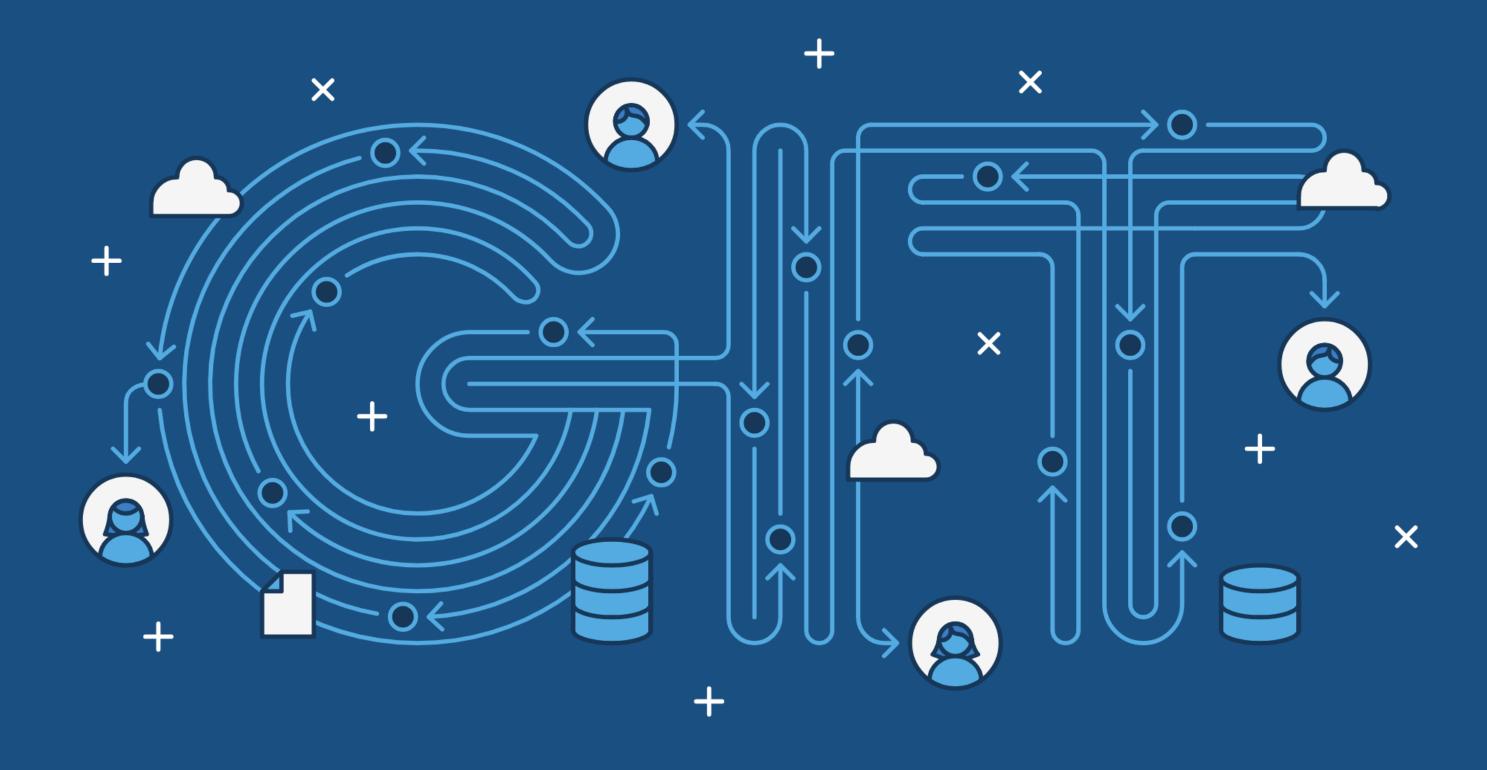


Project management

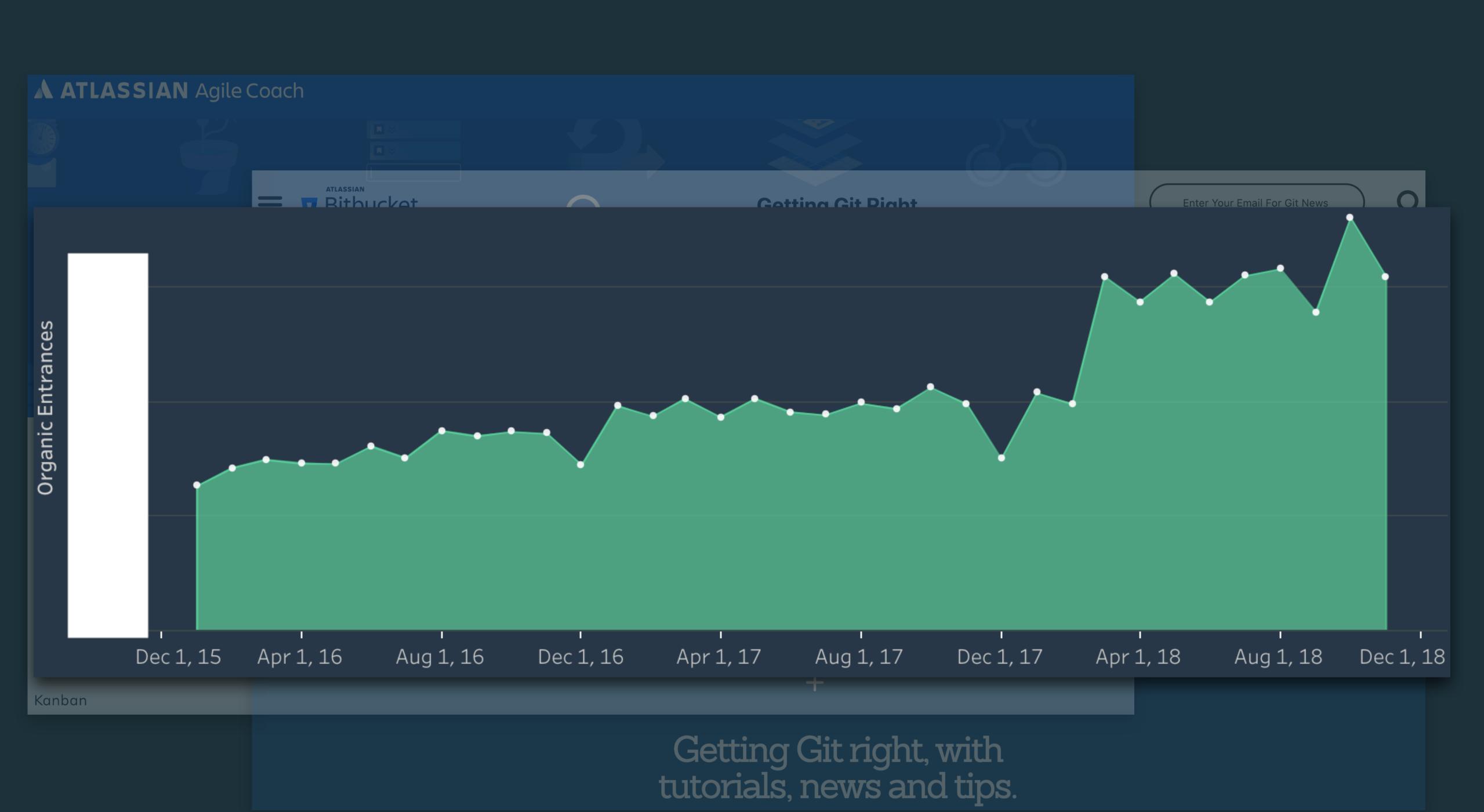
Advantage

Scrum

Kanban



Getting Git right, with tutorials, news and tips.



3. Use Google's NLP API

https://cloud.google.com/natural-language/



Google Cloud

Why Google

Solutions

Pricing Products

Getting started



ANALYZE

X

Support



Al & Machine Learning Products

Contact sales

Try the API

We need to collect the most accurate data and apply it to the business model. Our existing models of PR are based on internal link graph calculations that are incomplete without factoring backlinks in. Once an accurate model is established and changes are made, log files are a great tool to monitor success.

If you have applied TIPR or are planning to please feel free to reach out and share your results!

See supported languages

Entities

Sentiment

Syntax

Categories

Internal (Link Optimization)₂₂ with (TIPR)₁ December 4, 2018 12 min read Once you understand the (concept)₂₆ of (power laws)₂₈, you see them ⟨everywhere⟩₄₀. A few ⟨people⟩₅₉ own most ⟨wealth⟩₉₅. A few ⟨startup investments⟩₇₆ yield the highest ⟨returns⟩₉₆. They're also known ⟨asPareto⟩₁₆₄ ⟨law⟩₇₉ or 80/20 (rule)₉₇. (Vilfredo Pareto)₁₃₈ (Vilfredo Pareto)₁₃₈ How is that relevant for (SEO)₁₆? (Power laws)₆₆ also exist in (SEO)₁₆. A few short-head (keywords)₈₆ have as much (search volume)₈₃ as (thousands)₆₉ of long-tail (keywords)₈₀. A few (pages)₁₇ bring in the most (traffic)₉₈ and get the most (backlinks)₃₁. And a few (pages)₁₉ are crawled the most often. That (imbalance)₁₁ is (something)₁₁ we should seek to optimize, especially when it comes to the internal (link graph)₄₃. We know (PageRank)₂ is (one)₂ of the biggest ranking (factors)₆₀ in (SEO)₁₆, but we often forget that it flows between and within \(\frac{\text{websites}}{9}\)! The common \(\frac{\text{practice}}{74}\) is to optimize internal \(\left\) linking \(\rac{\text{a}}{4}\) without taking \(\frac{\text{backlinks}}{35}\) into \(\left\) account \(\rac{100}{100}\). That, however, can lead to making the wrong (decisions)77. In this (article)71, I present a (model)10 that seeks to fill the (gap)101 called "(TIPR)1". It's a (follow-up)8 from a (presentation)102 I held at (Tech SEO Boost)₁₆₆ in (Boston)₁₆₇ in November 2018. (Video)₁₀₃ [(link)₂₇ coming soon] (Slide Deck)₁₆₈ Internal (link graph optimization)₄₄ is (one)₃₈ of the strongest $\langle SEO | levers \rangle_{82}$ The forgotten $\langle concept \rangle_{48}$ of $\langle CheiRank \rangle_{5}$ The 3 $\langle challenges \rangle_{56}$ of internal $\langle link | graph | optimization \rangle_{2}$ $\langle Internal | PageRank \rangle_{2}$ is incomplete without (Backlinks TIPR)₁ - True Internal (PageRank)₁ Optimizing your internal (link)₂₉ (structure)₄₇ for (conversion pages)₂₁ The optimal (PageRank)₂ (distribution)₅₅ for distributed vs. centralized (conversion pages)₂₀ Optimal internal (linking)₃₀ depends on the right (data)₄₆ and (business model)₄₁ ⟨Plz⟩₁₆₉ ⟨share⟩₁₀₄ ⟨THX⟩₁₇₀ Read next Internal ⟨link graph optimization⟩₅₀ is ⟨one⟩₃₇ of the strongest ⟨SEO levers⟩₈₁ ⟨SEO⟩₁₆ has

Entities	Sentiment	Syntax	Categories
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Internal (Link Optimization)₂₂ with (TIPR)₁ December 4, 2018 12 min read Once you understand the (concept)₂₆ of (power laws)₂₈, you see them (everywhere)40. A few (people)59 own most (wealth)95. A few (startup investments)76 yield the highest (returns)96. They're also known (asPareto)164 (law)79 or 80/20 (rule) 97. (Vilfredo Pareto) 138 (Vilfredo Pareto) 138 How is that relevant for (SEO) 16? (Power laws) 66 also exist in (SEO) 16. A few short-head (keywords)₈₆ have as much (search volume)₈₃ as (thousands)₆₉ of long-tail (keywords)₈₀. A few (pages)₁₇ bring in the most (traffic)₉₈ and get the most (backlinks)31. And a few (pages)19 are crawled the most often. That (imbalance)11 is (something)11 we should seek to optimize, especially when it comes to the internal (link graph)₄₃. We know (PageRank)₂ is (one)₂ of the biggest ranking (factors)₆₀ in (SEO)₁₆, but we often forget that it flows between and within (websites)₉₉! The common (practice)₇₄ is to optimize internal (linking)₄ without taking (backlinks)₃₅ into (account)₁₀₀. That, however, can lead to making the wrong (decisions)77. In this (article)71, I present a (model)10 that seeks to fill the (gap)101 called "(TIPR)1". It's a (follow-up)8 from a (presentation)102 I held at (Tech SEO Boost)₁₆₆ in (Boston)₁₆₇ in November 2018. (Video)₁₀₃ [(link)₂₇ coming soon] (Slide Deck)₁₆₈ Internal (link graph optimization)₄₄ is (one)₃₈ of the strongest (SEO levers)₈₂ The forgotten (concept)₄₈ of (CheiRank)₅ The 3 (challenges)₅₆ of internal (link graph optimization)₂ (Internal PageRank)₂ is incomplete without (Backlinks TIPR)₁ - True Internal (PageRank)₁ Optimizing your internal (link)₂₉ (structure)₄₇ for (conversion pages)₂₁ The optimal (PageRank)₂ (distribution)₅₅ for distributed vs. centralized (conversion pages)₂₀ Optimal internal (linking)₃₀ depends on the right (data)₄₆ and (business model)₄₁ (Plz)₁₆₉ (share)₁₀₄ (THX)₁₇₀ Read next Internal (link graph optimization)₅₀ is (one)₃₇ of the strongest (SEO levers)₈₁ (SEO)₁₆ has become so much more complex in the last 5 years. To be successful in complex (environments)₁₀₅, you need to focus on (things)₂₃ that you know to be impactful. Internal (linking) is (one) of those (needle movers) 106. It's completely controllable, measurable and (yields) 107 compounding (results) over time. The (key) to optimizing internal (linking) effectively lies in understanding how (PageRank) flows through a (site) and then skewing it towards (pages)61 on which (users)189 convert. The (key)6 to optimizing internal (linking)4 effectively lies in understanding how (PageRank)2 flows through a (site)₁₃₀ and then skewing it towards (pages)₆₂ on which (users)₁₉₀ convert. CLICK TO TWEET Once a (site)₁₃₁ achieved a certain (size)₂₈₄, say >1,000

(log files)458 are a great (tool)391 to monitor (success)493. If you have applied (TIPR)1 or are planning to please feel free to reach out and share your ⟨results⟩₄₆₁! **OTHER OTHER** 2. Internal PageRank 1. Backlinks TIPR **Sentiment:** Score 0 Magnitude 2.6 Sentiment: Score 0 Magnitude 12 Salience: 0.38 Wikipedia Article Salience: 0.27 OTHER OTHER 3. linking 4. linking Sentiment: Score 0 Magnitude 0.3 Sentiment: Score 0 Magnitude 1.2 Salience: 0.02 Salience: 0.02 ORGANIZATION **OTHER** 5. CheiRank 6. **key Sentiment**: Score 0 Magnitude 1 **Sentiment:** Score 0 Magnitude 0 Wikipedia Article Salience: 0.01 Salience: 0.01 OTHER **WORK OF ART** 7. links 8. follow-up **Sentiment:** Score 0.4 Magnitude 1.8 **Sentiment:** Score 0 Magnitude 0 Salience: 0.01 Salience: 0.01

Entities Sentiment Syntax Categories

/Internet & Telecom/Web Services

Confidence: 0.97

/Business & Industrial/Business Services

Confidence: 0.77

See a complete list of content categories.

4. Structure your content

Related articles

Title

Author

Description

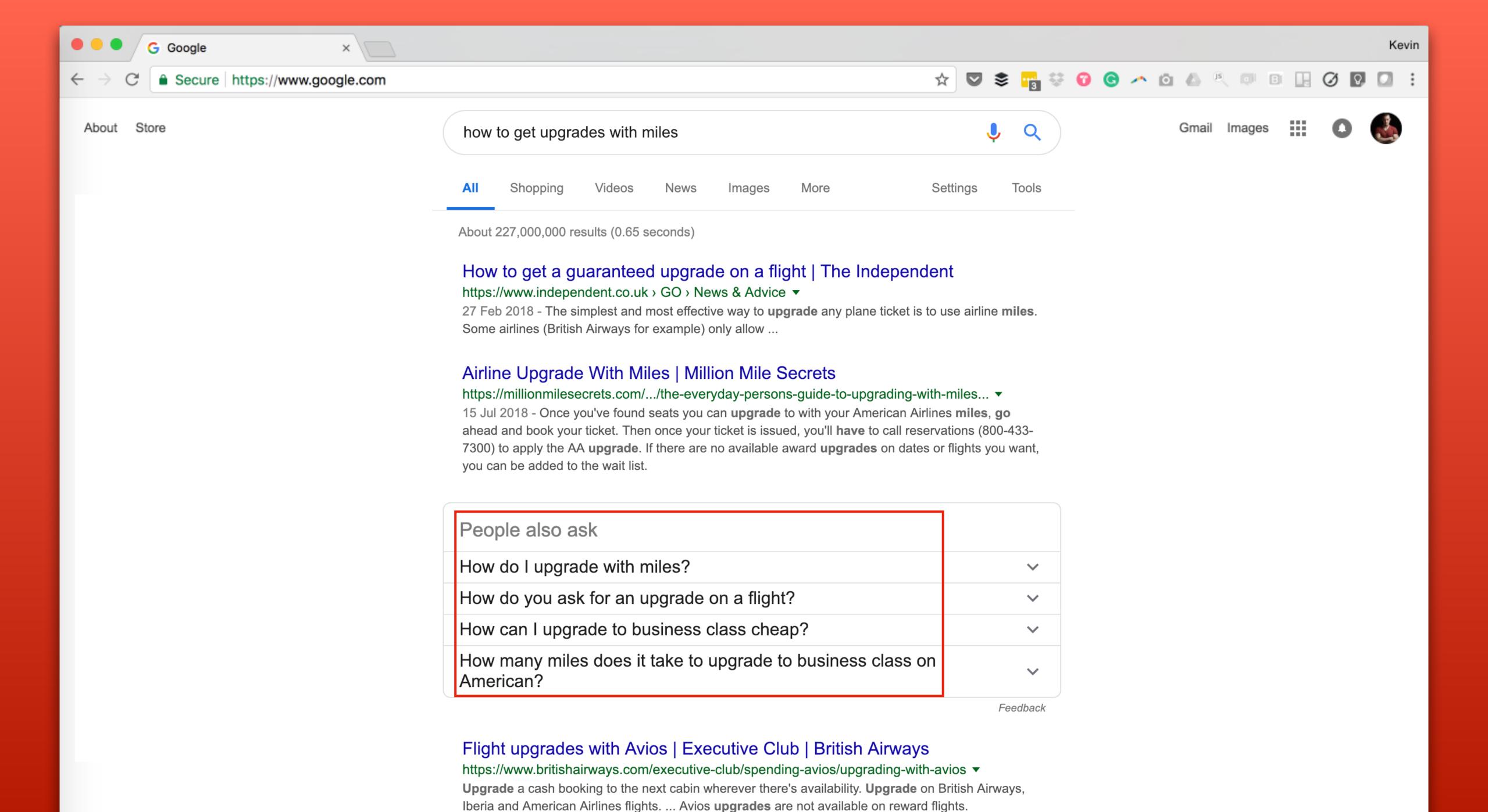
<h1></h1>

Bacon ipsum dolor amet burgdoggen short loin flank cow sausage corned beef hamburger leberkas bacon doner turkey beef ribs turducken frankfurter. Cupim brisket turducken meatball meatloaf leberkas spare ribs

```
<h2></h2>

Coffee
Tea
<Ii>Milk</Ii>
<h2></h2>
>
 xxxxx
 xx
 xxxxxx
```

5.	Reverse	engineer	optimal	content	through	SERPs





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Book online, select your seat and see what to expect on your flight

Book a Flight to Dubai

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Düsseldorf-Paris 14–17 Feb





San Francisco-Frankfurt 27 Jan - 12 Feb



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Emirates







Emirates is an airline based in Dubai, United Arab Emirates. The airline is a subsidiary of The Emirates Group, which is wholly owned by the government of Dubai's Investment Corporation of Dubai. Wikipedia

Customer service: 0344 800 2777

Bag information: In economy, to/from Americas, two bags free. To other destinations, 20kg free, additional allowance depending on route. More

Emirates bag information

Destinations: 180

Parent organization: The Emirates Group

Fleet size: 258

Hub: Dubai International Airport

Track flight status

Enter flight number

Track flight

Profiles













People also search for

View 10+ more







airbus a380 emirates airbus a380 800 airbus a380 capacity airbus a380 interior airbus a380 jet airbus a380 price airbus a380 weight airbus a380 inside airbus a380 **seating plan** airbus a380 cockpit

airbus a380

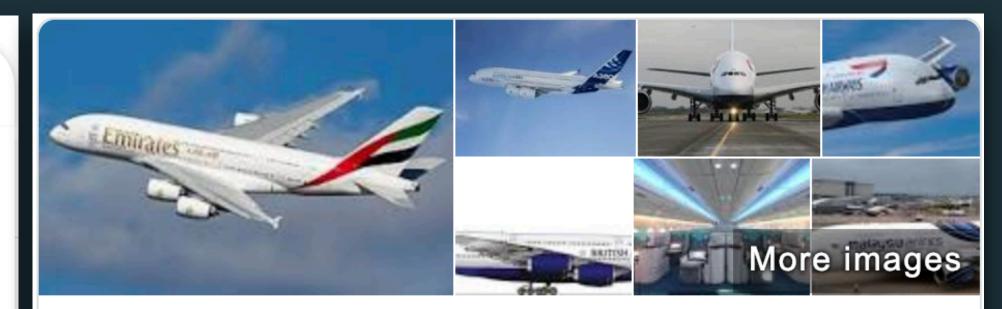
Report inappropriate predictions

Searches related to airbus a380

airbus a380 seating airbus a380 price airbus a380 **emirates** airbus a380-800 emirates airbus a380 interior airbus a380 weight airbus a380 cockpit airbus a380 capacity



Next



Airbus A380



Wide-body jet airliner

The Airbus A380 is a double-deck, wide-body, four-engine jet airliner manufactured by Airbus. It is the world's largest passenger airliner, and the airports at which it operates have upgraded facilities to accommodate it. Wikipedia

Top speed: 1,020 km/h

Wingspan: 80 m

Length: 73 m

Unit cost: US\$445.6 million (2018)

Engine types: Rolls-Royce Trent 900, Engine Alliance GP7000

Did you know: The A380 will be the first long-haul aircraft to consume

less than three liters of fuel per passenger per 100 km.

hydraulicspneumatics.com

People also search for







XWB











Boeing 777 Boeing 787 Dreamliner

6. Schema the heck' outta this!

itemprop="sameAs" for people + organizations

- Wikipedia
- Facebook
- Twitter
- Google+
- Instagram
- YouTube
- LinkedIn
- Myspace
- Pinterest
- SoundCloud
- Tumblr



User Journey

Step -2 Step -1 Query Step 1

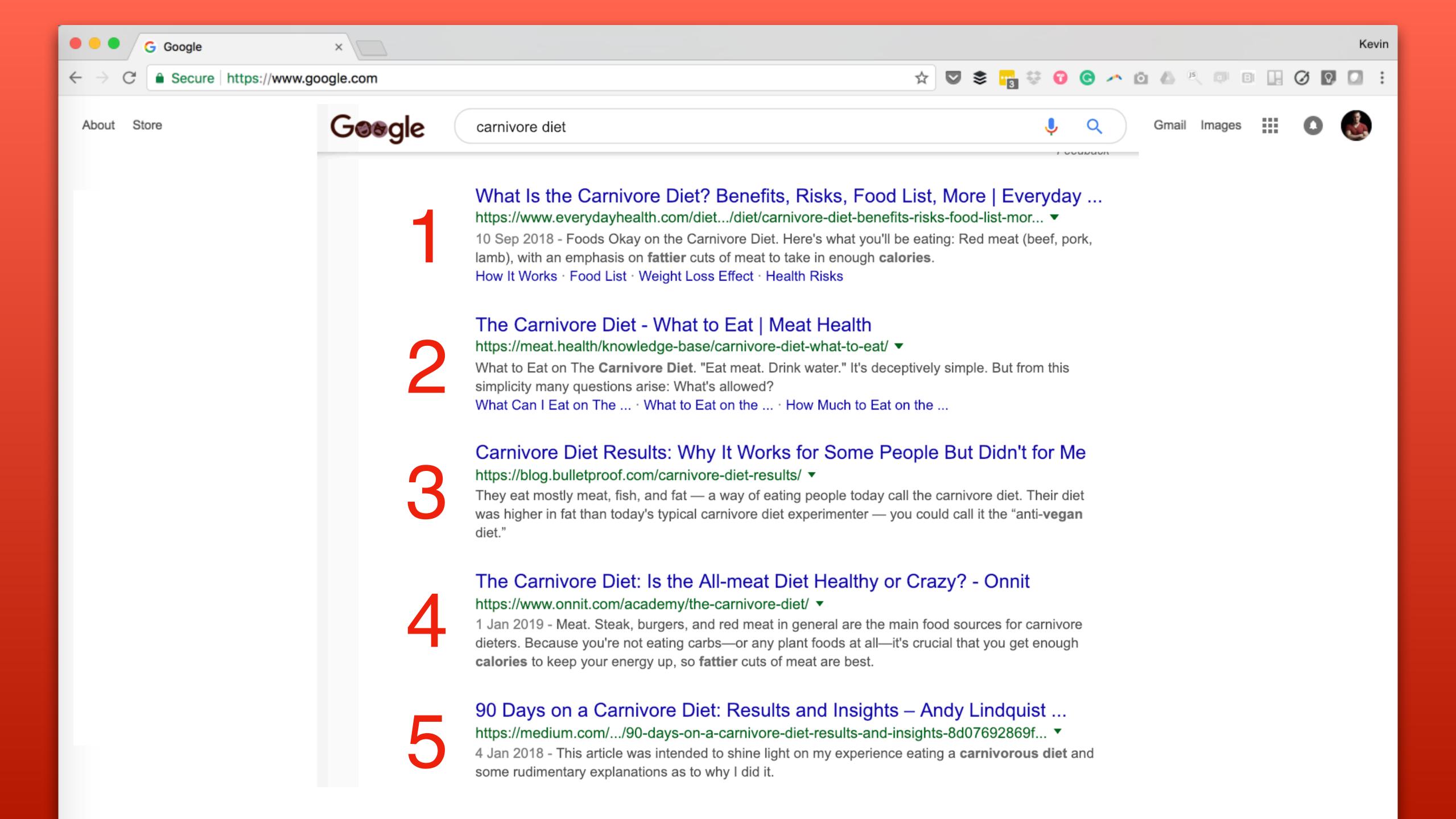
Step 2

8. Satisfy intent or nothing

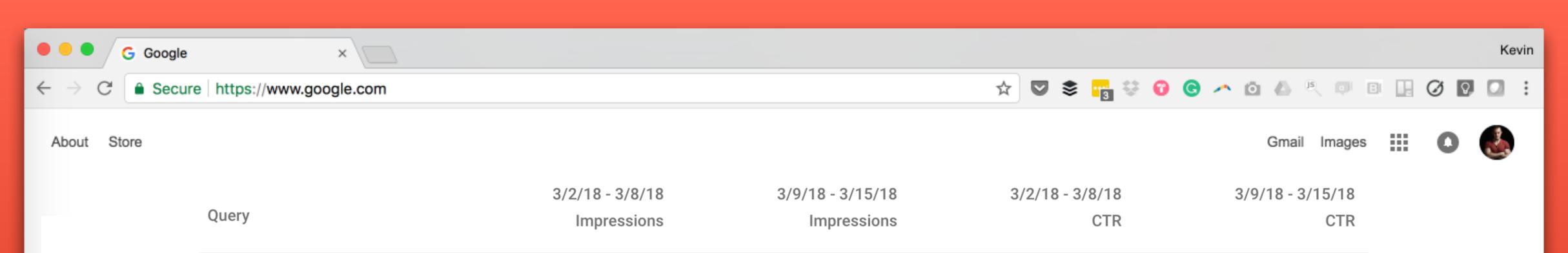
https://www.kevin-indig.com/user-intent-mapping-steroids/

SERP feature	User Intent	Example
Maps	Visit-in-person	"sushi near me"
Local pack	Visit-in-person	"gas station"
Image pack	Know	"funniest memes"
Featured snippet	Know Simple	"car tire pressure"
"People Also Ask" box (PPA)	Know	"most expensive steak"
Knowledge Panel	Know Simple, Website	"chris hemsworth"
Knowledge Card	Know Simple, Website	"empire state building"
Mobile app	Website	"instagram"
Shopping results	Do	"cheap sneakers"
Twitter integration	Visit	"new <u>vork</u> times"
Google Carousel	Know Simple (lists, comparison)	"agile software tools"
News box	Know, Know simple, Website	"white house" www.kevin-indig.com

9. Summarize and 1-up the top 5 search results



10. Avoid weak CTR



Query	3/2/18 - 3/8/18 Impressions	3/9/18 - 3/15/18 Impressions	3/2/18 - 3/8/18 CTR	3/9/18 - 3/15/18 CTR
clenbuterol	230,666	37,026	4.9%	2.6%
vitamin d	80,039	15,002	0.4%	0.3%
magnesium	83,345	21,445	0.3%	0.3%
vitamin e	47,566	17,857	0.2%	0.2%
cla	26,461	0	0.1%	0%
zinc	25,138	0	0.2%	0%
iodine	23,981	0	0.2%	0%
spirulina	39,861	19,532	0.4%	0.6%
vitamin d3	26,776	8,268	0.5%	0.4%
ginseng	30,483	12,447	0.2%	0.4%

- 1. Brand
- 2. Expert-level content
- 3. NLP API
- 4. Structure content
- 5. Reverse engineer SERPs
- 6. Crucial data
- 7. Search journey
- 8. User Intent
- 9. Summarize and 1-up
- 10.CTR

More: https://www.kevin-indig.com/10-factors-that-make-great-content-great/

Newsletter: Tech Bound

3 Thanks!

Website: <u>www.kevin-indig.com</u>

Newsletter: <u>Tech Bound</u>