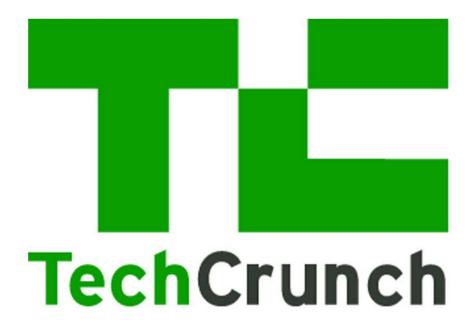
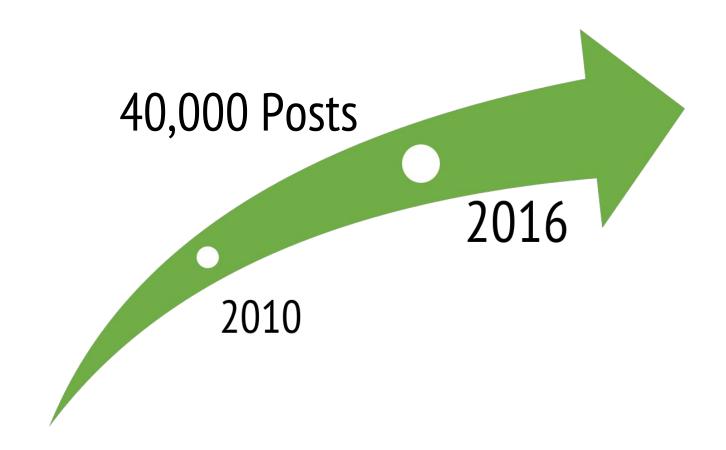
TechCrunch

A Simple Topic Recommender



Build a simple **recommender** that suggests similar **topics** given **a user's preferred topic**

Data Collection



15 minutes ago

Lyft just met its goal of launching in 100 new U.S. cities in 2017

Transportati... by Darrell Etherington

> Ride-hailing company Lyft is celebrating a milestone – it just launched in 10 new U.S. markets, making for 100 new cities added to the list of place where its available in 2017. That was the target Lyft had originally set for itself as its year-end target, but it's only been three months and the company has already crossed that marker. Thursday's launch in 10 new cities... Read More













17 minutes ago

by Sarah Perez

Gboard gets upgraded with instant translation, GIF & emoji suggestions and more

application, is rolling out an update this morning that will introduce a handful of new features, including GIF and emoji suggestions as you type, easier voice typing, Google Translate, and more keyboard themes. The latter option will allow you to personalize the keyboard by selecting from an expanded selection... Read More

Gboard, Google's attempt to further infiltrate your phone by way of a keyboard



- Author
- Category
- Section
- Tag
- URL

Natural Language Processing







Users User



afternoon alreadi download app stop work april music disappear surpris high profil launch earli last year app popular wane fall regard failur'

'twitter announc remov music app app store later

Recommendation System

TF-IDF Matrix

882		access	activ	ad	alreadi	android	announc	app	appl	avail	base	becom	big	billion
	google	0.02	0.01	0.02	0.02	0.09	0.03	0.04	0.00	0.00	0.04	0.01	0.01	0.00
	viber	0.04	0.12	0.04	0.00	0.15	0.02	0.34	0.00	0.09	0.05	0.02	0.00	0.14
• [snapchat	0.02	0.10	0.04	0.03	0.02	0.04	0.47	0.00	0.03	0.10	0.02	0.10	0.17
	instagram	0.00	0.02	0.03	0.01	0.03	0.00	0.07	0.00	0.01	0.02	0.01	0.02	0.04
	facebook	0.01	0.00	0.25	0.00	0.00	0.02	0.06	0.00	0.01	0.01	0.01	0.03	0.02
	battlefield	0.00	0.00	0.04	0.00	0.00	0.00	0.12	0.02	0.04	0.10	0.00	0.06	0.02
	windows- 10	0.02	0.01	0.00	0.02	0.01	0.08	0.12	0.00	0.02	0.02	0.01	0.01	0.00
	secret	0.00	0.00	0.02	0.01	0.00	0.00	0.13	0.00	0.00	0.00	0.02	0.01	0.00
	vine	0.00	0.00	0.02	0.01	0.02	0.01	0.14	0.00	0.00	0.00	0.01	0.00	0.00
	flipboard	0.03	0.15	0.18	0.04	0.03	0.07	0.26	0.18	0.03	0.09	0.03	0.03	0.08



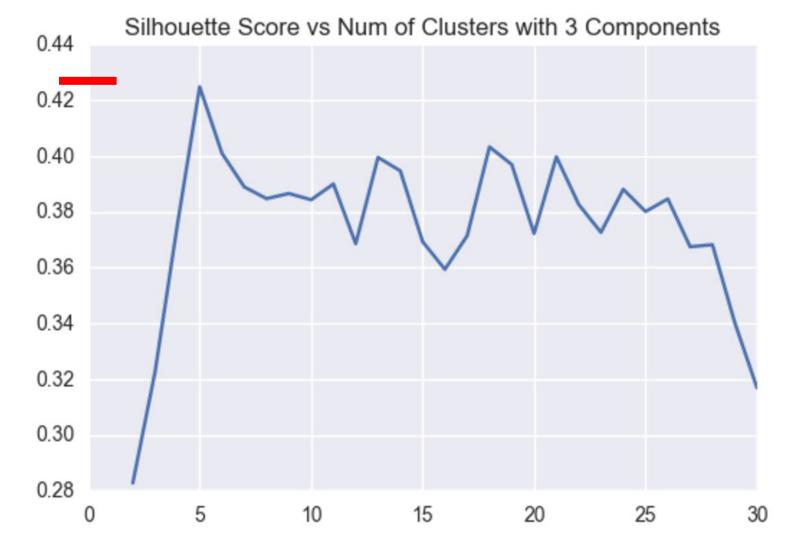
Dimensionality Reduction

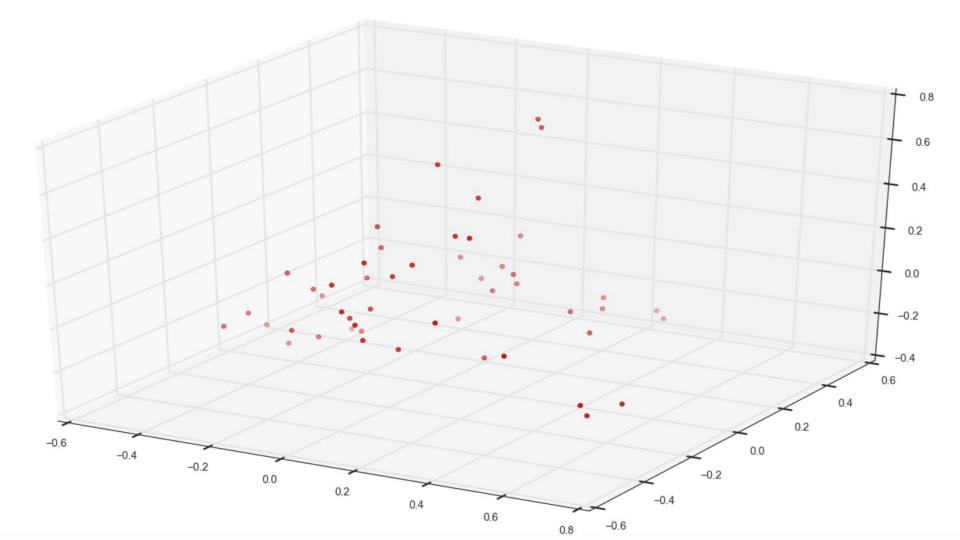
Principle Components Analysis using SVD

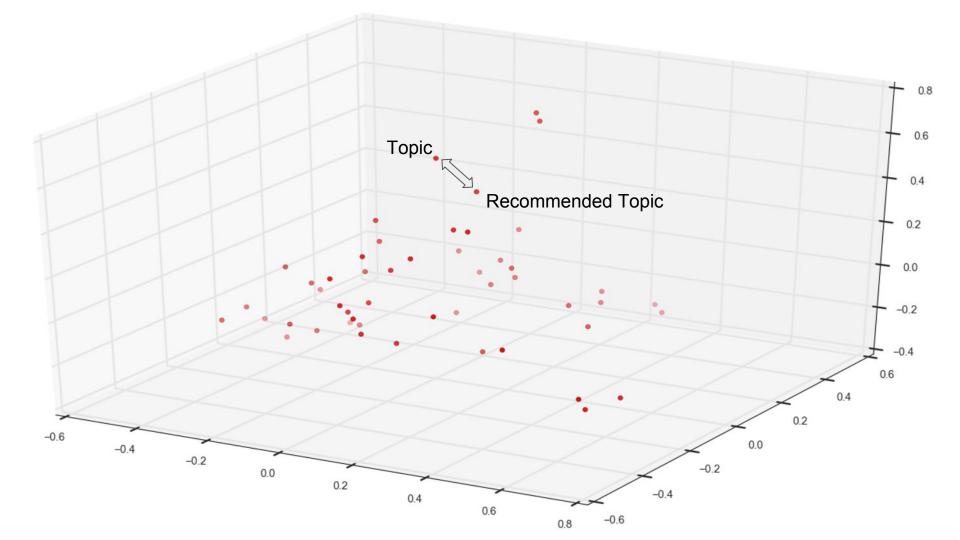


Clustering









Euclidean Distance Matrix

	google	viber	snapchat	instagram	facebook	battlefield	windows-
google	0.00	0.38	0.50	0.32	0.70	0.54	0.13
viber	0.38	0.00	0.33	0.52	0.75	0.59	0.37
snapchat	0.50	0.33	0.00	0.49	0.55	0.65	0.55
instagram	0.32	0.52	0.49	0.00	0.42	0.79	0.35
facebook	0.70	0.75	0.55	0.42	0.00	1.07	0.74
battlefield	0.54	0.59	0.65	0.79	1.07	0.00	0.63
windows- 10	0.13	0.37	0.55	0.35	0.74	0.63	0.00

HTC

- 1. Blackberry: 0.06
- 2. Nokia: 0.07
- 3. Iphone: 0.15



Facebook

- 1. Facebook-Messenger: 0.02
- 2. Facebook-lpo: 0.03
- 3. Facebook-Whatsapp: 0.24



Twitter

- 1. Jack-Dorsey: 0.03
- 2. Vine: 0.14
- 3. Twitter-Vine: 0.15



Tesla

- 1. Windows-10: 0.13
- 2. FlipBoard: 0.18
- 3. Raspberry-Pi: 0.20



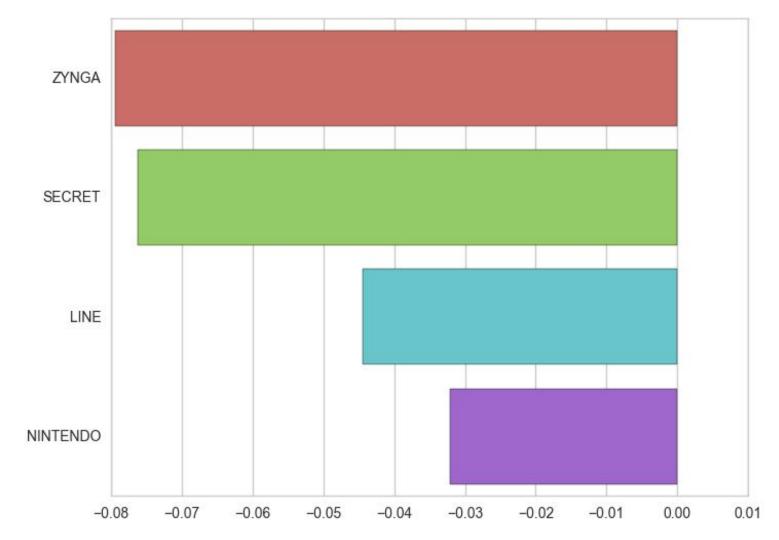
Web App using Flask

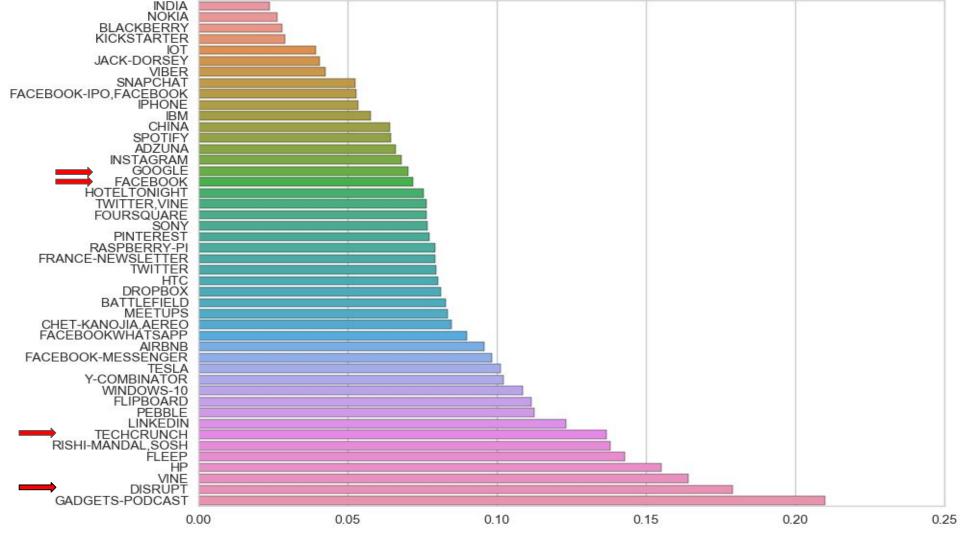
```
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <title>Recommendation Wizard</title>
     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/</pre>
     iguerv.min.js"></script>
     <script script type="text/javascript" language="javascript">
$(document).ready(function(){
    // $("button").click(function(){
      $("form#myform").on('submit', function(event){
          event.preventDefault();
          console.log('form submitted')
          console.log($(this));
          button = $(this)
          var button url = button.attr("action");
          var formData = $(this).serialize();
          var editName = formData.substring(5)
          var passMe = { 'rec' : editName};
          $.ajax({
            url: 'http://127.0.0.1:5000/rec',
            type: 'POST'.
            data: JSON.stringify(passMe, null, '\t'),
            contentType: 'application/json; charset=UTF-8',
          }).done(function(response){
            var newtext = response["recommendation"];
            $("#div1").replaceWith(newtext);
            console.log(response);
          }).error(function(response){
            console.log("failed")
          });
```

<!doctype html>

http://127.0.0.1:5000/

Sentiment Analysis





Future Works

- Expand the number of topics to more than 50
- Improve the Flask web app
- Time series analysis on sentiments