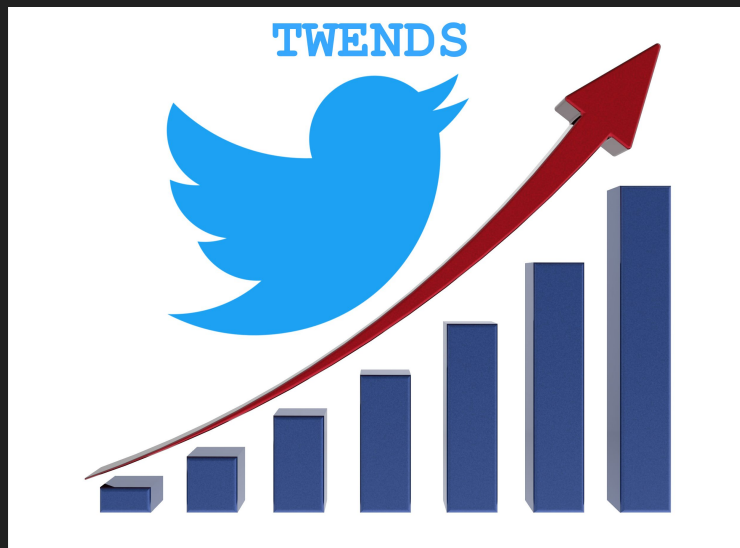# Twends

Evan Yin, Peter Wang, Dylan Ahearn, Elliot Whitehead

Gnip

Challenges

- Handling the rate limit on Gnip
- Tweet's will "null" hashtags coming through from Gnip
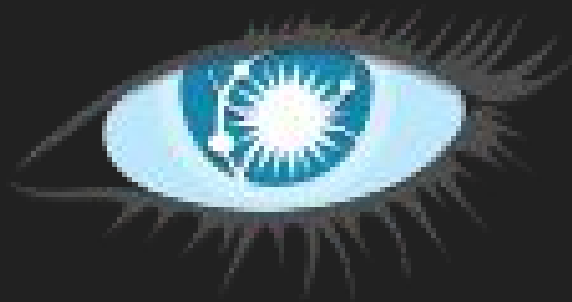
```
                                          {'#Boulder',  #Ruby'} |        Presentation time at @boulderruby's Monthly Presentation Night! ft. @mileseats &amp; @twitty_tim #Boulder #Ruby https://t.co/vk6DysyNtb
2017 |        4 |       13 |       13140 |                                        https://pbs.twimg.com/profile_images/738863500055846912/ckRPMfsR_normal.jpg |   Audrey_Rodri
                                           {'#hisps17'} |       Missin' @Hispanicize #hisps17 Cannot stop thinking about the wonderful opportunity I was given and everyone who inspired me
2017 |        4 |       13 |       14824 |                                        https://pbs.twimg.com/profile_images/713079822264586240/UsfueOfX_normal.jpg |   Astrosdiehards
                                           {'#fingerscrossed'} |                   This game will be available on https://t.co/9vmtB9ygtV tonight? right? #fingerscrossed
2017 |        4 |       13 |       14901 |                                        https://pbs.twimg.com/profile_images/765698576076853248/8eEGMtBp_normal.jpg |   t_hend_10
                     {'#ThisIsNotAnEndorsementOfAnyLocalDispensary'} |          What if I told you that the ceiling actually is... the roof. 😂\n\n#ThisIsNotAnEndorsementOfAnyLocalDispensary
2017 |        4 |       13 |       20340 |                                        https://pbs.twimg.com/profile_images/530105871242493952/Vle0yOS5_normal.png |   KirstyJahnTri
            {'playtime',  '#shibagram',  '#shibainu',  '#shibalove'} |       Just a typical night of #playtime with foxy_zoey 🐕!! #shibainu #shibalove #shibagram… https://t.co/KYVYYOeAdQ
2017 |        4 |       13 |       23428 |                                        https://pbs.twimg.com/profile_images/851481806461448192/Uddj1B18_normal.jpg |   Shapalicious
                                           {'#askPDP'} |                   @purpledinocast Coors Field is great, but what is it missing? #askPDP
2017 |        4 |       13 |       23754 |                                        https://pbs.twimg.com/profile_images/830579357856968706/vLReptsO_normal.jpg |   ahhhngie
                      {'#stopexcessiveconcertsnapchats2017'} |                   Shout out to @Lbreezsyy #GoodLuck https://t.co/FMqqQ7NTF1 https://t.co/rodqmQX9rV
2017 |        4 |       13 |       25357 |                                        https://pbs.twimg.com/profile_images/746468200653557760/e9POm3XI_normal.jpg |   JSherard
                                           {'#GoodLuck'} |                   Shout out to @Lbreezsyy #GoodLuck https://t.co/FMqqQ7NTF1 https://t.co/rodqmQX9rV
2017 |        4 |       13 |       25754 |                                        https://pbs.twimg.com/profile_images/743142791094534144/I3d2QM59_normal.jpg |   DBC_Natalie
                                           {'#DBAllStars'} |                   Can't wait to work with these amazing kiddos this year! 💙#DBAllStars https://t.co/nlSsL5SUmQ
2017 |        4 |       13 |       30501 |                                        https://pbs.twimg.com/profile_images/846550877452292096/GeJCo9E9_normal.jpg |   CarolinePeck4
                                           {'#weesnog'} |                   @LukeAllen__ HAPPY BIRTHDAYYYYYYYY TO MUH BOY #weesnog 👌cabin parties coming soon miss my squad
2017 |        4 |       13 |       34706 |                                        https://pbs.twimg.com/profile_images/804162230468087809/_iW2SC-G_normal.jpg |   rosewillow201
                                           {'#ReturnOfTheMac'} |                   @joeymcintyre I watched with East coast but I can always watch #ReturnOfTheMac again!!!!
2017 |        4 |       13 |       35121 |                                        https://pbs.twimg.com/profile_images/804162230468087809/_iW2SC-G_normal.jpg |   rosewillow201
            {'#BarrettMcIntyre',  '#ReturnOfTheMac'} |                   @joeymcintyre #BarrettMcIntyre is Wicked awesome on #ReturnOfTheMac
2017 |        4 |       13 |       35706 |                                        https://pbs.twimg.com/profile_images/804162230468087809/_iW2SC-G_normal.jpg |   rosewillow201
                                           {'#ReturnOfTheMac'} |                   @joeymcintyre @adamraycomedy have to say I love the banter between the two of you!!!!!! #ReturnOfTheMac
2017 |        4 |       13 |       40425 |                                        https://pbs.twimg.com/profile_images/746468200653557760/e9POm3XI_normal.jpg |   JSherard
                                           null |          Don't mess with me - it could escalate quickly. And the world was worried about giving #realDonaldTrump the… https://t.co/EwJzEfUsei
2017 |        4 |       13 |       42907 |                                        https://pbs.twimg.com/profile_images/690770036345085956/jkkEfcOQ_normal.jpg |   ABraddy20
                                           {'#bucciovertimechallenge'} |                   @Buccigross give me berglund and stewart #bucciovertimechallenge
2017 |        4 |       13 |       43732 |                                        https://pbs.twimg.com/profile_images/696927096577384449/c9DaWibw_normal.jpg |   BLDG61
            {'#bldg61',  '#makered',  '#tactilelearning'} |                   Maker friends. \n#bldg61 #makered #tactilelearning https://t.co/qJw69JFjMh
2017 |        4 |       13 |       45117 |                                        https://pbs.twimg.com/profile_images/851067439559344128/Z7n8uLIn_normal.jpg |   Suzaine
            {'#Thursday',  '#beauty'} |                   "Cammie Chameleon" 10"x10" acrylic on canvas. $135. No need to blend in. B yourself. #beauty #Thursday… https://t.co/Tbv3R2cBdk
2017 |        4 |       13 |      114551 |                                        https://pbs.twimg.com/profile_images/764055955684327424/DTv0Ao0I_normal.jpg |   Pegasas3030
                                           {'#Boulder'} |                   @RMartinBoulder If you want to talk more about this come to library on 4/20 at 3:30. If #Boulder wants to be off ca… https://t.co/CDtALSC8fX
2017 |        4 |       13 |      115210 |                                        https://pbs.twimg.com/profile_images/764055955684327424/DTv0Ao0I_normal.jpg |   Pegasas3030
            {'#Russia',  '#Syria',  '#war'} |                   @realDonaldTrump Committing a serious act of #war with no declaration against #Syria and #Russia was not on your li… https://t.co/8ymrmRnwAD
2017 |        4 |       13 |      120127 |                                        https://pbs.twimg.com/profile_images/717372854036107264/rQRadOEa_normal.jpg |   JeremiahOsGo
                                           {'#meadowlark'} |                   First #meadowlark of the year is trilling out there just below us somewhere. Also saw 5 deer. #Qofjh84VEk
2017 |        4 |       13 |      124520 |                                        https://pbs.twimg.com/profile_images/813872857495146496/-wUGuh6H_normal.jpg |   TelecomReseller
..p',  '#ceo',  '#cmo',  '#hashtags',  '#news',  '#trending',  '#twitter'} |          #ceo #cmo Track #trending #twitter #hashtags with HashNewsGrams #news #App https://t.co/wOWqW4HmKQ https://t.co/gieKiWHCn4 @evankirstel                      {'#AI',  '#ThoughtLeader'}
2017 |        4 |       13 |      125302 |                                        https://pbs.twimg.com/profile_images/813872857495146496/-wUGuh6H_normal.jpg |   TelecomReseller
.pps',  '#iot',  '#socialmedia',  '#socialselling',  '#ucaas',  '#ucoms'} |          follow @techtionary #ThoughtLeader in #ucoms #AI #apps #ucaas #iot #socialmedia #socialselling https://t.co/r7WSiLKxfX                      {'#News',  '#Skype4B',  '#Tech',
2017 |        4 |       13 |      125414 |                                        https://pbs.twimg.com/profile_images/813872857495146496/-wUGuh6H_normal.jpg |   TelecomReseller
.cctr',  '#cloud',  '#pbx',  '#saas',  '#var',  '#voip',  '#webrtc'} |          TelecomReseller #Tech Daily #Ucaas #News #cctr #saas #webrtc #pbx #cloud #voip #var #Skype4B https://t.co/C4IHmI5bgB\nhttps://t.co/Maeeho78U3                      {'#Health',  '#M
2017 |        4 |       13 |      125449 |                                        https://pbs.twimg.com/profile_images/813872857495146496/-wUGuh6H_normal.jpg |   TelecomReseller
. #News',  '#Telemedicine',  '#healthcare',  '#meds',  '#telehealth'} |          #Telemedicine Update #Medical #News from TR https://t.co/m4pU3CMcmi #telehealth #healthcare #meds #Health\nhttps://t.co/ztgr8yNdQV
2017 |        4 |       13 |      125549 |                                        https://pbs.twimg.com/profile_images/813872857495146496/-wUGuh6H_normal.jpg |   TelecomReseller
                                           {'#ucoms'} |                   - @Avaya Receives 2017 Unified Communications Product of the Year Award https://t.co/A2dLOeiVCi via @TelecomReseller #ucoms
2017 |        4 |       13 |      130122 |                                        https://pbs.twimg.com/profile_images/813872857495146496/-wUGuh6H_normal.jpg |   TelecomReseller      {'#Business',  '#NFV',  '#News',  '#SDN',  '#TelecomReseller',  '#UCaaS',
2017 |        4 |       13 |      130156 |           #Business #News Daily via #TelecomReseller #Ucoms #UCaaS #News #SDN #iot #cctr #saas #webrtc #NFV #pbx #cloud #voip\nhttps://t.co/8y6r5cB4rG
                                        https://pbs.twimg.com/profile_images/813872857495146496/-wUGuh6H_normal.jpg |   TelecomReseller
. #Tech',  '#UCaaS',  '#Ucoms',  '#news',  '#sales',  '#tech',  '#voip'} |          Follow @TelecomReseller &amp; Signup forTR #Tech News #tech #sales #news #Ucoms #voip #UCaaS https://t.co/M29psgUmim https://t.co/lcjQcTDq7V                      {'#NFV',  '#News',  '#Ucaas',  '#audiophile'}
2017 |        4 |       13 |      130214 |                                        https://pbs.twimg.com/profile_images/813872857495146496/-wUGuh6H_normal.jpg |   TelecomReseller
.tr',  '#cloud',  '#itunes',  '#pbx',  '#podcasts',  '#ucoms',  '#webrtc'} |          Listen to TelecomReseller #podcasts on #itunes https://t.co/sxJWJtCMaS … #ucoms #Ucaas #News #cctr #webrtc #NFV #pbx #cloud #audiophile
2017 |        4 |       13 |      130322 |                                        https://pbs.twimg.com/profile_images/813872857495146496/-wUGuh6H_normal.jpg |   TelecomReseller
                                           {'#Cloud'} |                   - @VMware to Acquire Wavefront to Accelerate Delivery of its Cross #Cloud Management Services https://t.co/aOxt60LcBK via @TelecomReseller
2017 |        4 |       13 |      130605 |                                        https://pbs.twimg.com/profile_images/813872857495146496/-wUGuh6H_normal.jpg |   TelecomReseller
            {'#ContactCenter',  '#cctr'} |                   - @NewVoiceMedia named finalist in Top 10 Technology Awards 2017 https://t.co/kPPp4DTHgS via @TelecomReseller #cctr #ContactCenter
2017 |        4 |       13 |      134523 |                                        https://pbs.twimg.com/profile_images/843995038623322113/mipZWhdF_normal.jpg |   Coffee_Insights
            {'#CoffeeShopIdeas',  '#Colorado'} |                   The numbers are in: 18.33% of #Colorado coffee shops listed on Yelp have gone out of biz!\n\n#CoffeeShopIdeas… https://t.co/eKin4uzMrN
2017 |        4 |       13 |      140306 |                                        https://pbs.twimg.com/profile_images/813872857495146496/-wUGuh6H_normal.jpg |   TelecomReseller
                                           {'#WebRTC'} |                   - @temasysrtc Receives 2017 #WebRTC Product of the Year Award https://t.co/vcCs9cRtZI via @TelecomReseller
2017 |        4 |       13 |      140431 |                                        https://pbs.twimg.com/profile_images/378800000596164786/bdf8ee3027869e36c5f912bd10e4b245_normal.jpg |   verkstadk
                                           {'#Boulder'} |          This construction by #Boulder Creek &amp; Foothills is starting to look more like it might be a bridge instead of a jum… https://t.co/7Fn3Qv7Dm6
```

Cassandra

- CQL Engine- python module
- Take Gnip response
- Parse and write to Cassandra
- Speed local vs speed on Docker
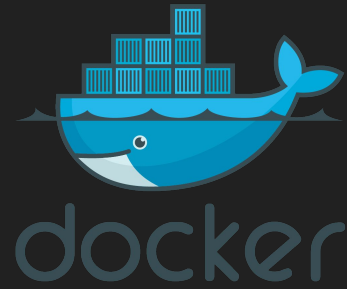- Datastax enterprise connected with spark

Spark

- Query Cassandra table
- RDDs (Resilient Distributed Datasets)
- Process into hashtag count pairs
- Top 10
- Insert into table

Challenges

- Pivoted backwards on kafka
- Team management with Pivotal Tracker