

**Steven Tey** @ steventey *Fri Mar 31 19:57:04 +0000 2023* Twitter just open-sourced their algorithm.

Some initial takeaways:

- ◆ Your following to follower ratio matters.
- @TwitterBlue subscribers do get a boost in the algorithm.

Will keep adding more to this thread

1. Your following-to-follower ratio matters.

Twitter's "Tweepcred" PageRank algorithm reduces the page rank of users who have a low number of followers but a high number of followings.

Source  $\downarrow$ 

# https://dub.sh/tweepcred

2. It looks like @TwitterBlue subscribers do get a boost in the algorithm.

## Source $\rightarrow$ https://dub.sh/twitter-blue-algo https://t.co/qzZx8nW8d9

| 88  |  |
|-----|--|
| 89  | <pre>object BlueVerifiedAuthorInNetworkMultiplierParam</pre>                   |
| 90  | extends FSBoundedParam[Double](  |
| 91  | <pre>name = "home_mixer_blue_verified_author_in_network_multiplier",</pre>     |
| 92  | default = 4.0,   |
| 93  | min = 0.0,   |
| 94  | max = 100.0  |
| 95  | )  |
| 96  |  |
| 97  | <pre>object BlueVerifiedAuthorOutOfNetworkMultiplierParam</pre>                |
| 98  | <pre>extends FSBoundedParam[Double](</pre>                                     |
| 99  | <pre>name = "home_mixer_blue_verified_author_out_of_network_multiplier",</pre> |
| 100 | default = 2.0,   |
| 101 | min = 0.0,   |
| 102 | max = 100.0  |
| 103 | )  |
| 104 |  |

3. Twitter identified 4 different user groups to track & compare how often their tweets are being impressed to users:

- Power users
- Democrat users
- Republican users
- ♦ @elonmusk

 $Source \rightarrow https://dub.sh/twitter-user-groups\ https://t.co/BoUOYTrP5o$ 



@elonmusk 4. There are a few factors that determine if your tweet will appear on someone's "For You" tab, mainly, the probability the user will:

- like/RT your tweet
- click into your tweet & reply/stay there for >2 mins
- ♦ check out your profile ■

## Source $\rightarrow$ https://dub.sh/twitter-for-you

5. Some negative feedback loops that will reduce your "reputation score" on Twitter:

- Getting blocked
- Getting muted
- Abuse reports
- Spam reports
- Unfollows (not as heavily penalized as the above 4 though)

## Source $\rightarrow$ https://dub.sh/negative-signals https://t.co/wg4QVTS1H9



6. To put these feedback loops in perspective:

A user clicking on your tweet staying there for >2 min is weighted 22x more than them just liking your tweet

If they click into your profile through your tweet & likes/replies to a tweet? 24x more than a like.

## If they reply to... https://twitter.com/i/web/status/1641912142814117894

7. When needed, the government can intervene with the Twitter algorithm.

In fact, @TwitterEng even has a class for it - "GovernmentRequested"

 $Source \rightarrow https://dub.sh/twitter-gov-intervention\ https://t.co/YmavVJ8szi$ 

| 14   |   |
|------|---|
| 15 🗸 | def apply(  |
| 16   | <pre>softInterventionDisplayType: SoftInterventionDisplayType</pre>                           |
| 17   | ): urt.SoftInterventionDisplayType =  |
| 18   | <pre>softInterventionDisplayType match {</pre>  |
| 19   | <pre>case GetTheLatest =&gt; urt.SoftInterventionDisplayType.GetTheLatest</pre>               |
| 20   | <pre>case StayInformed =&gt; urt.SoftInterventionDisplayType.StayInformed</pre>               |
| 21   | <pre>case Misleading =&gt; urt.SoftInterventionDisplayType.Misleading</pre>                   |
| 22   | <pre>case GovernmentRequested =&gt; urt.SoftInterventionDisplayType.GovernmentRequested</pre> |
| 23   | }   |
| 24   | }   |

8. Presidential elections is also another big part of the Twitter Algorithm.

It can:

- Recommend election candidates to follow: https://dub.sh/twitter-gov-election
- Suppress misinformation during Election events: https://dub.sh/twitter-gov-election-msnfo https://t.co/XKFCf9ZvnH

| 186        |   |
|------------|---|
| 187        | @Provides   |
| 188        | @Singleton  |
| 189        | <pre>@Named(GuiceNamedConstants.ELECTION_CANDIDATES_FETCHER)</pre>  |
| 190        | <pre>def electionCandidatesFetcher(stratoClient: Client): Fetcher[String, Unit, Seq[Long]] =</pre>                                |
| 191        | <pre>stratoClient.fetcher[String, Unit, Seq[Long]](ElectionCandidatesPath)</pre>  |
| 192        |   |
|            |   |
|            |   |
| 174        | <pre>s.SafetyLabelType.MisinfoCovid19 -&gt; Deprecated,</pre>   |
| 174<br>175 | <pre>s.SafetyLabelType.MisinfoCovid19 -&gt; Deprecated, s.SafetyLabelType.MsnfoBrazilianElection -&gt; Deprecated,</pre>          |
|            |   |
| 175        | <pre>s.SafetyLabelType MsnfoBrazilianElection -&gt; Deprecated,</pre>   |
| 175<br>176 | <pre>s.SafetyLabelType_MsnfoBrazilianElection -&gt; Deprecated,<br/>s.SafetyLabelType_MsnfoCovid19Vaccine -&gt; Deprecated,</pre> |

9. So far, I've scoured both the Twitter Algorithm repos but I still haven't found anything about the following:

- ◆ If a tweet containing a link will be ranked lower
- If bookmarking a tweet will boost its rankings

It looks like these are more myths than facts but I'll report... https://twitter.com/i/web/status/1641994024121774081 10. In the current light ranking model (Earlybird), tweets with images & videos seem to get a nice 2x boost  $\rightarrow$  https://dub.sh/earlybird-media-boost

However, this is an old model that Twitter is planning to rebuild completely, so things might change  $\rightarrow$  https://dub.sh/earlybird https://t.co/hgZXR1xWz5

| 35 | <pre>selfTweetBoost = 2.0,</pre>        |
|----|---|
| 36 | <pre>tweetHasImageUrlBoost = 2.0,</pre> |
| 37 | <pre>tweetHasVideoUrlBoost = 2.0,</pre> |
| 38 | useUserLanguageInfo = true,             |
|    |   |