



Step by Step Pendaftaran Twitter API

Oleh: Dr. Indra, S.Kom, M.T.I

Outline

- Pastikan sudah memiliki akun Twitter
- Pembuatan Twitter API di developer.twitter.com/en/apps
- Demo pengumpulan Data menggunakan Tools Orange

developer.twitter.com/en/apps

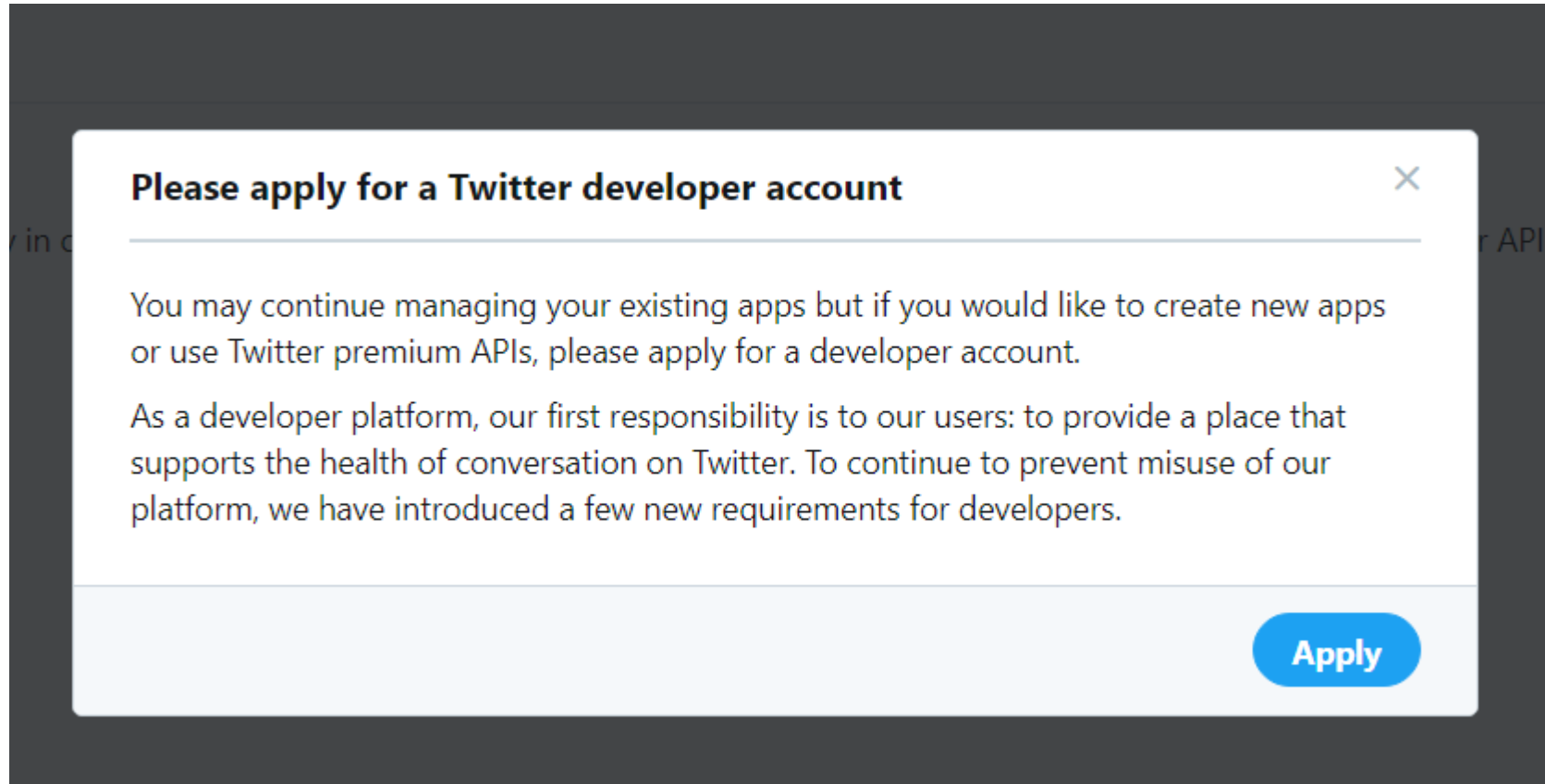
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[Apps](#) [Create an app](#)

No apps here.

You'll need an app and API key in order to authenticate and integrate with most Twitter developer products. Create an app to get your API key.

Selanjutnya



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Get access to the Twitter API



#welcome

We're excited you want to use Twitter APIs and data!

As a developer platform, our first responsibility is to our users: to provide a place that supports the health of conversation on Twitter.

This application process helps us to:

1. Prevent abuse of the Twitter platform.
2. Better understand and serve our developer community.

Thank you for your time and thoughtful responses.

Applications are final once submitted and can't be edited.

We'll help you on your path to getting the most out of Twitter APIs and data.

Professional

...for commercial uses



Building B2B products



Building consumer products



Build customized solutions in-house

Hobbyist

...for a personal project



Making a bot



Building tools for Twitter users



Exploring the API

Academic

...for education or research



Doing academic research



Teaching



Student

Other

I don't fit any of those



Embedding Tweets on a website



Doing something else

I want to embed a Tweet or timeline into a website or article.

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Professional


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Exploring the API

Academic


...for education or research

☐

Doing academic research

☐


Teaching

☒


Student

Other

I don't fit any of those

☐

Embedding Tweets on a website

☐

Doing something else

I'm using the Twitter API to learn to code or complete an assignment.

Pastikan email sudah terisi

Get access to the Twitter API

[Twitter @username](#) > [Intended use](#) > [Review](#) > [Terms](#)

If you think you may need to invite other people to your account in the future to share API access or apps, please [create a team developer account](#) instead.

[Change email address](#)

We'll send important communications about your account to this email. ⓘ

What country do you live in?

Indonesia

What would you like us to call you?

Indra Text Mining

Want updates about the Twitter API?

It's not spammy, we promise. Useful and interesting content only about the Twitter API.



Send me product updates & occasional promotional emails about the Twitter API.

[Back](#)

[Next](#)

Deskripsikan tujuan penggunaan dan tuliskan nama Universitas, mata kuliah dan Pengajarnya

Get access to the Twitter API

Twitter @username > **Intended use** > Review > Terms



Key things to keep in mind

This section of the application helps us ensure that users of our data are complying with [Twitter's Developer Policies](#).

This review process and our policies help us keep Twitter a safe and healthy space for public conversation.

Restricted uses

Some activities (like surveillance) are never allowed on Twitter. Take a look at our [restricted uses](#) page to ensure that your use case is policy-compliant before you submit

How will you use the Twitter API or Twitter data?

All fields are required unless marked optional

In your words

In English, please describe how you plan to use Twitter data and/or APIs. For students and teachers, please include the name of the school, the name of the instructor and the course number (if available). The more detailed the response, the easier it is to review and approve.

I will use Twitter data to make Sentiment Analysis and Trending topic detection. Next, The Sentiment Analysis to see the opinions of public in politic and economy. The trending topic detection to get the most popular topic in social media. I am come from Universitas Budi Luhur Jakarta, Indonesia and the course in Data Mining and our Lecturer is Dr.Indra, M.T.I

Response must be at least 200 characters



Deskripsikan Analisa data Twitter yang akan dilakukan

Get access to the Twitter API

Twitter @username > **Intended use** > Review > Terms

Automation

Be sure to review the [automation rules](#) if you plan on enabling any sort of automated activity on the platform.

Be thorough

We need to completely understand your use case before we can approve it. So, please include as much detail as possible in your application.

Thank you for your thoughtful answers.

The specifics

Please answer each of the following with as much detail and accuracy as possible. Failure to do so could result in delays to your access to the Twitter developer platform or rejected applications.

Are you planning to analyze Twitter data?

☒ Yes

Please describe how you will analyze Twitter data including any analysis of Tweets or Twitter users.

I will analyze The Sentiment Analysis to see the opinions of public in politic and economy and The trending topic detection to get the most popular topic in social media.

Response must be at least 100 characters



Will your app use Tweet, Retweet, like, follow, or Direct Message functionality?

☐ No

Tiga pilihan berikut sebaiknya di pilih No saja

response must be at least 100 characters



Will your app use Tweet, Retweet, like, follow, or Direct Message functionality?

☐ No

Do you plan to display Tweets or aggregate data about Twitter content outside of Twitter?



☐ No

Will your product, service or analysis make Twitter content or derived information available to a government entity?

☐ No


*In general, schools, colleges, and universities **do not** fall under this category.*

Pastikan inputan kita sudah betul

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Get access to the Twitter API

Twitter @username > Intended use > **Review** > Terms



Check your information

Please make sure your details are correct.



Your email will be used to contact you with important information regarding your account.

Is everything correct?

Primary use	Student
Account type	Personal
Twitter username	@IndraIn63624613
Email	indratextmining@gmail.com

Cek List Persetujuan dan Klik Submit Application

Get access to the Twitter API

Twitter @username > Intended use > Review > [Terms](#)



Developer Agreement & Policy

We've carefully crafted our developer terms to help guide you in keeping Twitter a healthy and open platform for all.

We know it's long. Thanks for taking the time to read our terms.

Please review and accept

Developer Agreement

Effective: March 10, 2020

This Twitter Developer Agreement ("**Agreement**") is made between you (either an individual or an entity, referred to herein as "**you**") and Twitter (as defined below) and governs your access to and use of the Licensed Material (as defined below). Your use of Twitter's websites, SMS, APIs, email notifications, applications, buttons, embeds, ads, and our other covered services is governed by our general Terms of Service and Privacy Policy.

PLEASE READ THE TERMS AND CONDITIONS OF THIS AGREEMENT CAREFULLY, INCLUDING ANY LINKED TERMS REFERENCED BELOW,

- ☒ By clicking on the box, you indicate that you have read and agree to this Developer Agreement and the Twitter Developer Policy, additionally as it relates to your display of any of the Content, the [Display Requirements](#); as it relates to your use and display of the Twitter Marks, the [Twitter Brand Assets and Guidelines](#); and as it relates to taking automated actions on your

Menunggu konfirmasi di email dari Twitter

Docs ▾ Community ▾ Updates ▾ Support



You did it!!

Thank you for applying for access to a Twitter Developer Account.

Please confirm your email.

Once confirmed, we can process and review your application.

We sent an email to **indratextmining@gmail.com**. Please check check your email and click the confirmation link to complete the application process. If you don't see it, please be sure to check your spam folder and whitelist **developer-accounts@twitter.com**. You can also [resend the confirmation email](#).

Keep an eye on your email as we may send you...

- Questions related to your application
- Usage information

Konfirmasi dari email kita untuk memastikan permintaan kita terkirim

The screenshot shows a Gmail interface. On the left, the sidebar includes a 'Tulis' button, a 'Kotak Masuk' (Inbox) section with 1 email, and categories for 'Berbintang' (Starred), 'Ditunda' (Deferred), 'Terkirim' (Sent), 'Draf' (Drafts), 'Selengkapnya' (See all), 'Meet' (with 'Rapat baru' and 'Gabung ke rapat' options), and 'Hangout' (with a user 'indra' listed). The main area displays an email from 'Developer' with the subject 'Email verification'. The email content reads: 'Hi Indra Indra!', 'Thanks for applying for a Twitter Developer account.', 'Please confirm your email address to complete your application.', and a yellow 'Confirm your email' button. It ends with 'Thanks! The Twitter Dev team'. The top of the Gmail interface shows the search bar with 'Telusuri email', a dropdown menu with 'Approweb' and 'approweb.intranet.pajak.go.id', and navigation icons on the right.

Gmail

Telusuri email

Approweb
approweb.intranet.pajak.go.id

Tulis

Kotak Masuk 1

Berbintang

Ditunda

Terkirim

Draf

Selengkapnya

Meet

Rapat baru

Gabung ke rapat

Hangout

indra

Developer

Email verification

1 dari 4

Hi Indra Indra!

Thanks for applying for a Twitter Developer account.

Please confirm your email address to complete your application.

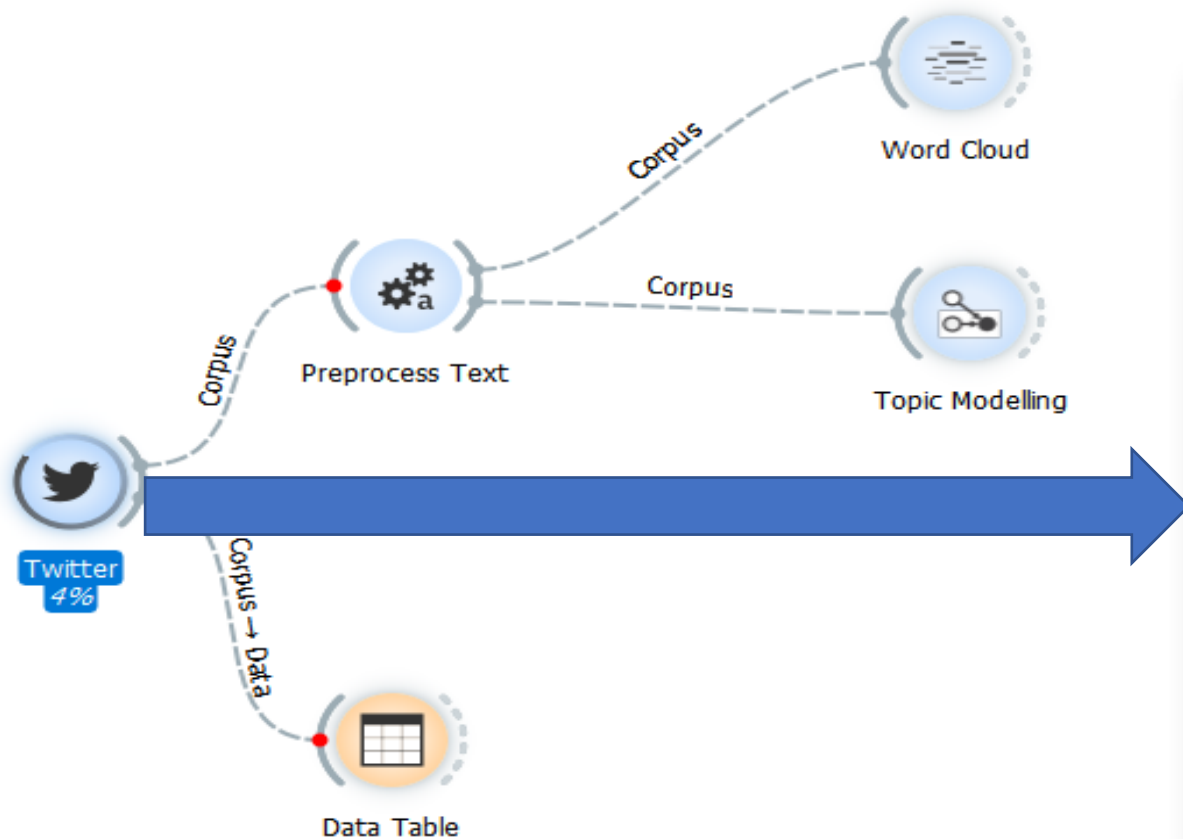
Confirm your email

Thanks!
The Twitter Dev team

Praktikum di Orange

- Masukkan Key dan Token Key
- Masukkan kata kunci penarikan data (Kombinasi Nama Tokoh, Nama Organisasi dan Nama Event)
- Lakukan Preprocessing Text
- Visualisasikan menggunakan Word Cloud
- Deteksi Menggunakan Metode Latent Dirichlet Allocation (LDA)

Buat Skema Sebagai Berikut:



Twitter (4%, ETA: 0:3:44) ? X

Twitter API Key

Query

Query word list: Habib Rizieq
FPI
Tentara Nasional Indonesia
Pangdam Jaya
Dudung

Search by: Content

Language: Indonesian

Max tweets: ☒ 1000

Allow retweets: ☒

Collect results: ☐

Text includes

☒ Content ☒ Author Description

Info

Tweets on output: 40

Stop

? ? 4%

Twitter API Credentials ? X

Key: [Redacted]

Secret: [Redacted]

OK

Twitter



Twitter API Key

Query

Query word list:

Habib Rizieq
FPI
Tentara Nasional Indonesia
Pangdam Jaya
Dudung

Search by:

Content

Language:

Indonesian

Max tweets:



1000

Allow retweets:



Collect results:



Text includes



Content



Author Description

Info

Tweets on output: 1000

Search



Tahapan Preprocessing

- Transformasi (lowercase, remove URLs, Remove Accents)
- Tokenisasi (pemotongan kalimat menjadi kata)
- Filtering (ekstraksi words dengan menghilangkan stopword, document frequency, dll)
- Normalization (penerapan Stemming utk generate kata dasar)

Transformation

- ☒ Lowercase
- ☒ Remove accents
- ☐ Parse html
- ☒ Remove urls

Ok, got it

X

- Pattern: `\w+`

X

- ☒ Stopwords English (none) [Folder icon] [Refresh icon]

☐ Lexicon (none) [Folder icon] [Refresh icon]

☒ Regexp \.,!,:;|!|\?|\(|\)|\\|+|'|\"'\"'|\"'\...|-|-|-|_|\$|&|*|>|<|\\||\|

☒ Document frequency 0,10 [Up/Down arrows] 0,90 [Up/Down arrows]

☒ Most frequent tokens 100 [Up/Down arrows]

X

- ☒ Porter Stemmer

☐ Snowball Stemmer Language: English

☐ WordNet Lemmatizer

☐ UDLemmatizer Language: English ☐ UDLemmatizer

rt, video, habib, rizieq, korban

☒ Apply Automatically

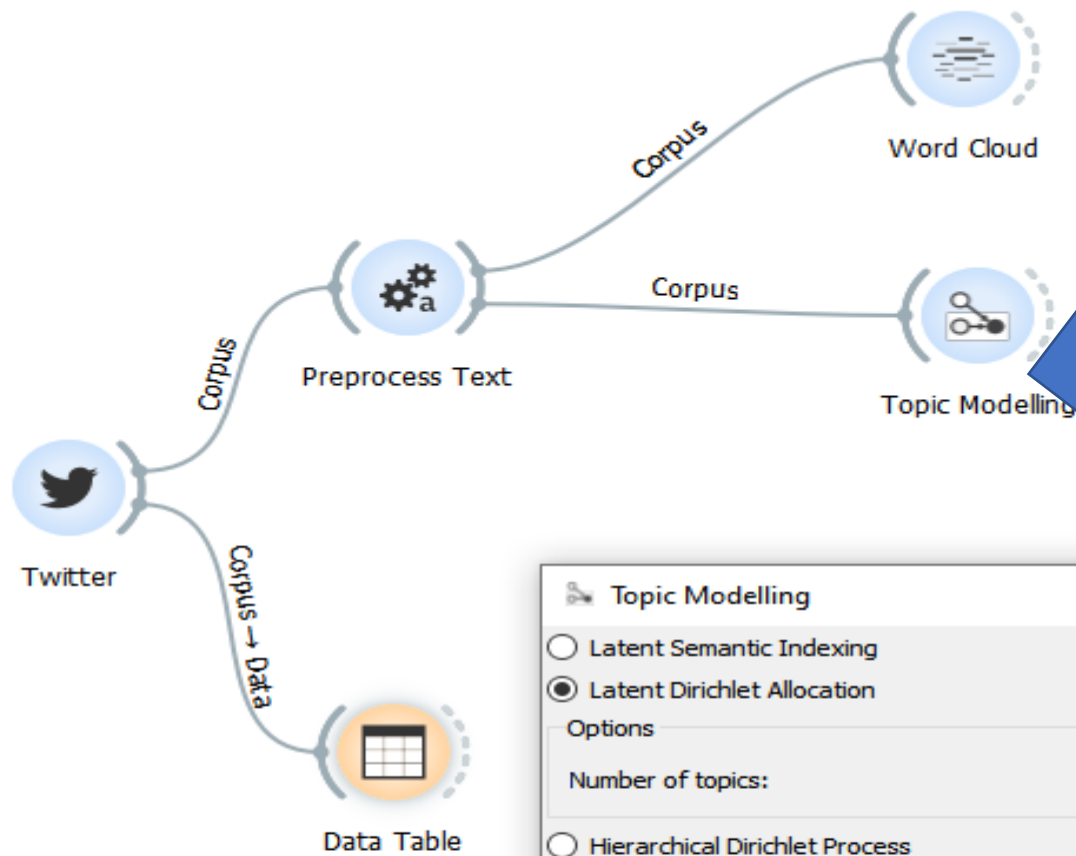
Words & weights	
Weight	Word
808	rt
772	fpi
399	rizieq
365	dan
346	habib
321	di
292	yang
282	korban
188	aceh
180	tsunami
172	evakuasi
155	2004
151	orang
150	yg
138	laskar
136	akan
133	dari
128	membantu
122	ada
119	itu



Visualisasi Word Cloud (Kata Medan, Habib Rizieq) masih menjadi trend di Twitter

Ekstraksi topik dari sekumpulan tweet

- Menggunakan Metode Latent Dirichlet Allocation (LDA)



Topic Modelling

☐ Latent Semantic Indexing
☒ Latent Dirichlet Allocation
☐ Hierarchical Dirichlet Process

Options

Number of topics:

☒ Commit Automatically

Topic	Topic keywords
1	dan, rt, fpi, korban, laskar, evakuasi, membantu, 2004, rizieq, habib
2	fpi, di, yang, rt, korban, dan, itu, #, video, ada
3	#, dari, ada, orang, rt, fpi, yg, yang, video, di
4	rt, rizieq, habib, yg, fpi, dari, di, dan, itu, aceh
5	rt, yang, video, korban, rizieq, habib, itu, tsunami, aceh, 2004