

The top portion of the slide features a background image of a word cloud. The word 'TWITTER' is repeated numerous times in various shades of teal and dark green, arranged in a dense, overlapping pattern that fills the upper third of the frame.

Twitter Analysis using R

—

Raden Muhammad Hadi

Who I Am



bit.ly/radenmhadi



github.com/hadimaster65555

Raden Muhammad Hadi

- Mathematical Modeler -
Software Engineer @ Quantus
Telematika Indonesia
 - Mathematics Graduate,
specializing in Algebra (read:
Abstract Nonsense)
 - R user for 6 years
 - Also speak Java, Javascript,
and Python
-

Outline:

- Get twitter API
- Set your engine
 - Setup R project
 - Download package
 - rtweet
 - tidytext
 - tidyverse
 - wordcloud2
- Hands-on Time

Get Twitter API

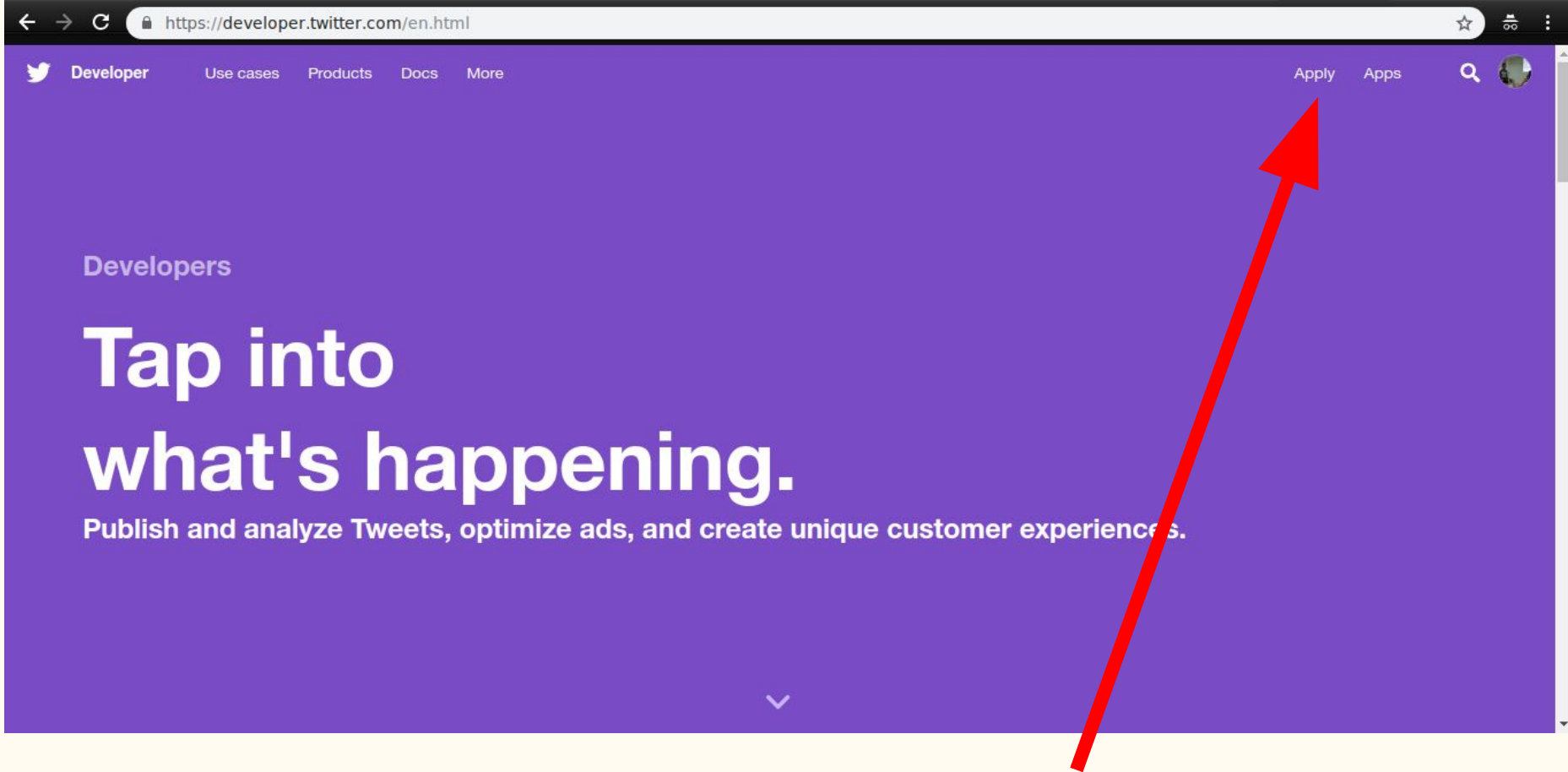
—

What you need

You'll need this:

bit.ly/twitter-api-reason

- Email (absolutely)
 - Twitter account
-



Go to: <https://developer.twitter.com/en.html> and click apply

Get started with Twitter APIs and tools.

Apply for access.

All new developers must apply for a developer account to access Twitter APIs. Once approved, you can begin to use our standard APIs and our new premium APIs.

[Apply for a developer account >](#)

[Restricted use cases >](#)





Click Apply for developer account

← → ↺


https://developer.twitter.com/en/apply/user


☆ ☰ ⋮


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Apply Apps 


STATUS: IN PROGRESS

 User profile

 Account details

 Use case details

 Terms of service

 Email verification


Interested in a developer account?

Some of our premium APIs are currently in Beta. By applying, you agree to receive emails from our team requesting feedback on your experience.

Select a user profile to associate

By default, this @username will be the admin of this developer account. If you are creating a developer account on behalf of your organization, you may wish to use your organization's @username as it is most likely to own the Apps you will use to access the API endpoints or warrant special permissions. You'll be able to invite teammates and re-assign roles later within your developer account settings.

Associate your current Twitter @username



Raden Muhammad Hadi

@hadimaster65555


Continue


Click continue

← → ↺

https://developer.twitter.com/en/apply/account

☆ ☰ ⋮

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Apply Apps 

STATUS: IN PROGRESS


User profile

Account details

Use case details

Terms of service

Email verification

 **Why the questions?**

We empower freedom of expression by providing a platform that protects the voices of our users — both on Twitter, and via our developer products. To help verify that all uses of Twitter data comply with our policies, we require additional information from developers signing up to

Add your account details

☐

Who are you requesting access for?

☐ I am requesting access for my organization

I plan to use Twitter's developer platform for projects owned by / in affiliation with a business, organization or institution. Ex: SaaS product, proof of concept, academic research, etc. *To enable collaboration, this selection includes additional tools to support team development.*

☒ I am requesting access for my own personal use

I plan to use Twitter's developer platform for projects unaffiliated with an existing business, organization or institution. Ex: Side project, hobby, etc. *Personal use accounts do not include team development tools.*

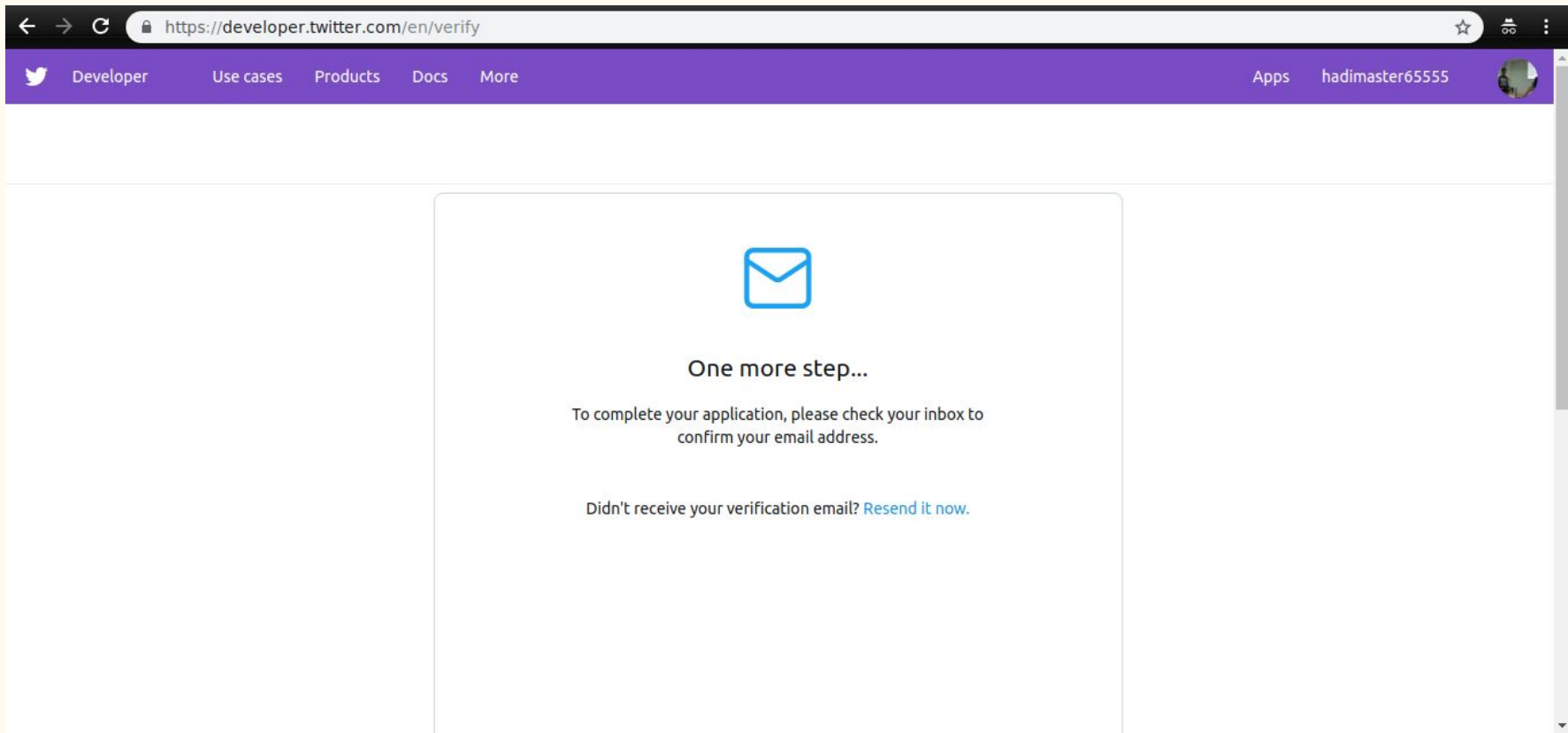
Tell us about yourself

Account name

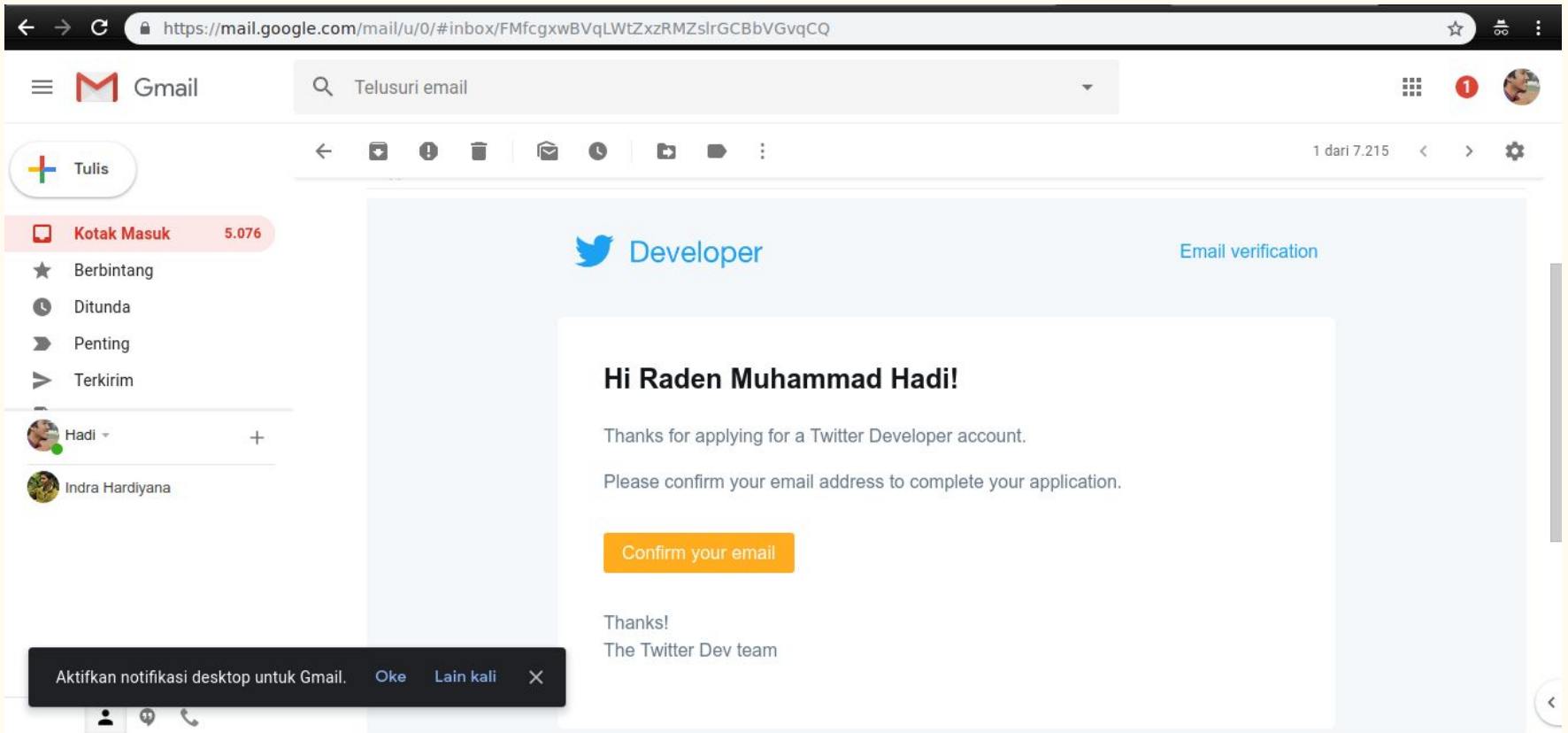
e.g., username, project name, etc.

hadimaster65555

Click “I am requesting access access for my own personal use” and finish all the boring forms.



Check your email now!



Confirm your email

← → ↺ https://developer.twitter.com/en/account/get-started ☆ ☰ ⋮

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Account / Get started

Welcome!

Congratulations! You have successfully created a new Twitter developer account. With this account, you now have access to new APIs, app management, and tools to facilitate and support development.

Below are a few steps to help you create an app and to get up and running with the new premium APIs.

*If you're planning to use our standard APIs instead of our premium APIs, simply follow the steps below to create an app, then refer to the **"Getting started"** guide in our documentation for next steps.*

🐦 Helpful tools


Dive into the docs ▾


Get started

✔ Create an app ▲

Yay, we get our permission!

← → ↻ <https://developer.twitter.com/en/account/get-started> ☆ ☰ ⋮

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 Helpful tools





Dive into the docs ▾

View API usage ▾

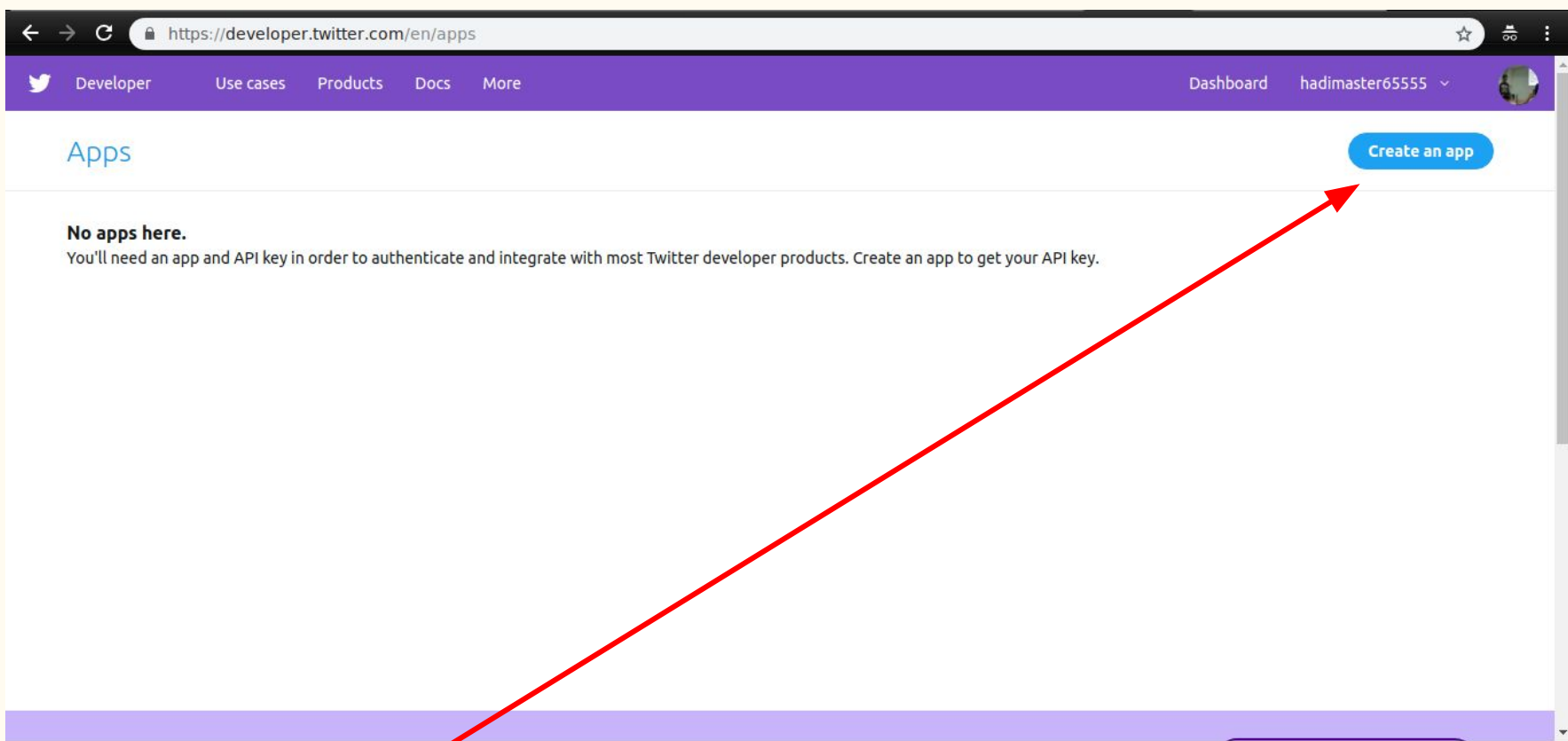
Have a question? ▾

Looking for something else? ▾

Get started

- ✓ Create an app 
To use an API, we require you create an app as part of our OAuth authorization scheme. Visit the [Apps](#) page of this developer portal to create one. Then, return to this page to complete the next step.
- ✓ Set up a dev environment 
To begin using the new Premium APIs, you need to [set up one or more dev environments](#) for the endpoint — and connect it to an app. Dev environments can be used to isolate usage, rules, rate limits, and more. If you are planning to use our standard APIs, you can skip this step.
- ✓ Start using the endpoints! 
Once you've set up your account, accessing the endpoint is super simple. Check out our [documentation](#) and [API reference](#) for additional details about each endpoint.
- ✓ Manage / upgrade your access level 
All new developer accounts are provisioned with a default, sandbox level of access to our premium APIs. [Explore increased](#)

Click “Create an app”



Click “Create an App”



Apps / Create an app

Understanding apps

What is an app? ▾

Why register an app? ▾

Which products require an API key? ▾

App details

The following app details will be visible to app users and are required to generate the API keys needed to authenticate Twitter developer products.

App name (required)

 **Required**

Maximum characters: **32**

Application description (required)

Share a description of your app. This description will be visible to users so this is a good place to tell them what your app does.

Please be detailed.

Fill the boring form, again~

← → ↺ <https://developer.twitter.com/en/apps/16125894> ☆ 🛎 ⋮


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Apps / hadimaster-twitter-getter

[App details](#) [Keys and tokens](#) [Permissions](#)

App details [Edit ▾](#)

Details and URLs

 **App icon**
App icon is default, click edit to upload.

App Name
hadimaster-twitter-getter

Description
Get and analyze twitter using R and rtweet.

Website URL
<https://statsmaster.net>

Sign in with Twitter

Go to “**Keys and Token**”

← → ↺ https://developer.twitter.com/en/apps/16125894 ☆ ⚙ ⋮

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Apps / hadimaster-twitter-getter

App details **Keys and tokens** Permissions

Keys and tokens
Keys, secret keys and access tokens management.

Consumer API keys
bt6Li3wFFPBN0WTpxaJtmBdFE (API key)
raQWUPc497zrQshvabhQWqWz4JMWIXbaWUtKBFLUoaw4Jtj3lU (API secret key)

Regenerate

Access token & access token secret
None

Create

Create access token and secret



Apps / hadimaster-twitter-getter

[App details](#)[Keys and tokens](#)[Permissions](#)

Keys and tokens

Keys, secret keys and access tokens management.

Consumer API keys

bt6Li3wFFPBN0WTpxaJtmBdFE (API key)

raQWUPc497zrQshvabhQWqWz4JMWIXbaWUtKBFLUoaw4Jtj3lU (API secret key)

[Regenerate](#)

Access token & access token secret

1098240539487432704-HVgiipD03GArXE8cFn4wtqhSGozFF5 (Access token)

4A6J12h2kkWoDH5X5pBEzzHZuxKPJfRgulVJ5LimRRVpX (Access token secret)

Read and write (Access level)

[Revoke](#)[Regenerate](#)

Now you ready to stalk ~~your crush~~ politicians

Set Your Engine

—

Setup R Project

1. Open RStudio
 2. Click File -> New Project
 3. Click New Directory -> New Project
 4. Fill directory name and/or setup project directory if you need it
-

Download these R packages

Using

```
install.packages("package_name")
```

- rtweet
 - tidyverse
 - tidytext
 - wordcloud2
 - graphTweets
 - sigmajs
-

Hands-on Time