Obtaining and using access tokens

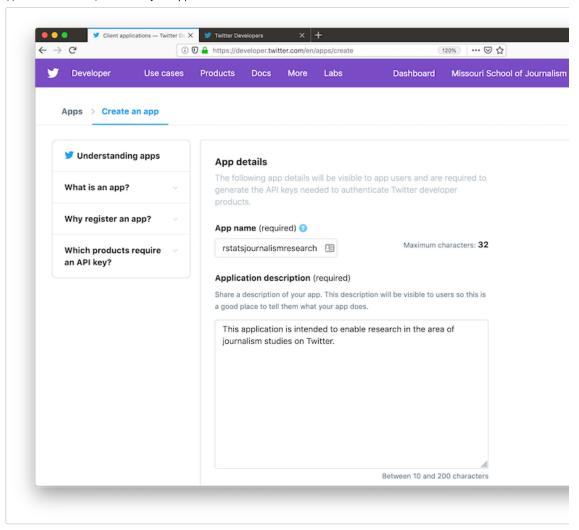
rtweet: Collecting Twitter Data

rtweet

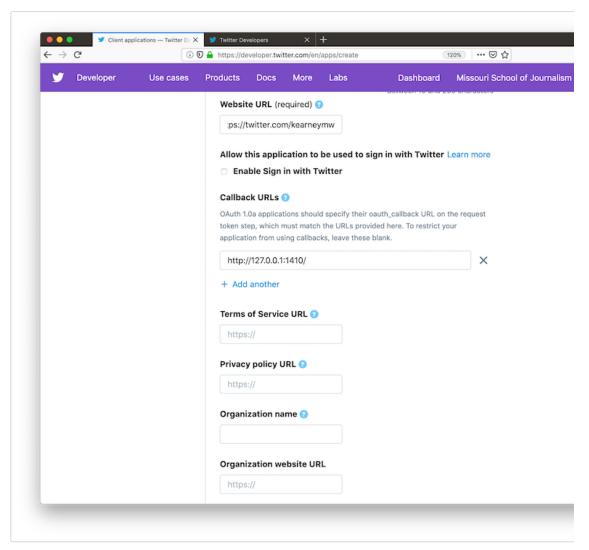
This vignette covers how to obtain and use Twitter API access tokens for use in the rtweet package.

Creating a Twitter App

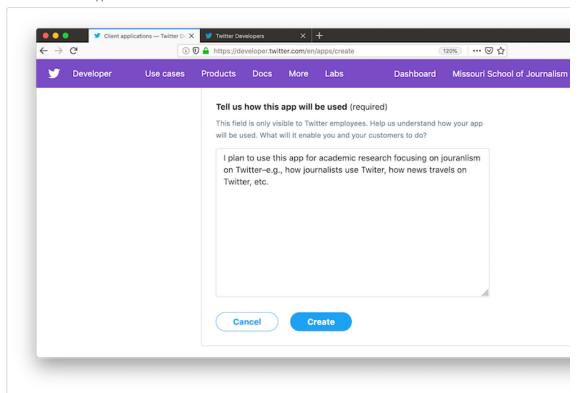
- To create a Twitter app, you will first need to apply for a developer account. This process along with a
 detailed explanation can be found at <u>developer.twitter.com</u>.
- Once you have acquired a developer account, navigate to <u>developer.twitter.com/en/apps</u>, click the blue button that says, Create a New App, and then complete the form with the following fields:
 - App Name: What your app will be called
 - Application Description: How your app will be described to its users



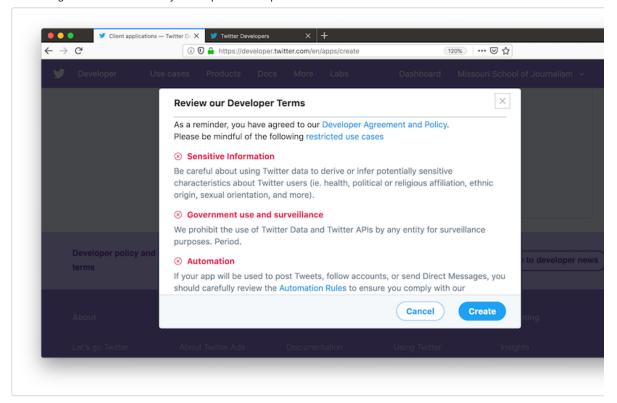
- Website URLs: Website associated with app-I recommend using the URL to your Twitter profile
- \circ Callback URLs: \emph{IMPORTANT} enter exactly the following: http://127.0.0.1:1410



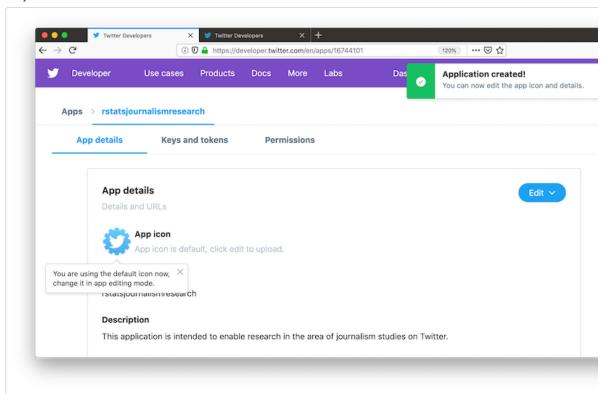
• Tell us how this app will be used: Be clear and honest



• Read through and indicate whether you accept the developer terms



· And you're done!



Authorization methods

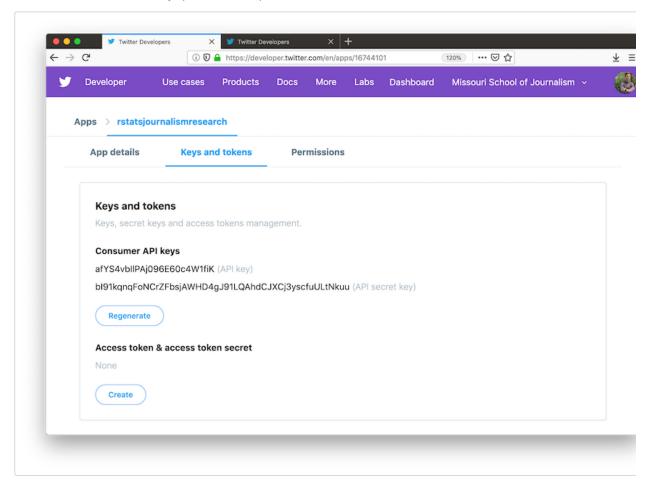
Users can create their personal Twitter token in two different ways. Each method is outlined below.

1. Browser-based authentication

• Authentication via web browser requires the httpuv package to be installed.

```
## install httpuv if not already
if (!requireNamespace("httpuv", quietly = TRUE)) {
  install.packages("httpuv")
}
```

- Navigate to <u>developer.twitter.com/en/apps</u> and select your Twitter app
- Click the tab labeled Keys and tokens to retrieve your keys.
- Locate the Consumer API keys (aka "API Secret").



 Copy and paste the two keys (along with the name of your app) into an R script file and pass them along to create_token().

```
## load rtweet
library(rtweet)

## store api keys (these are fake example values; replace with your own keys)
api_key <- "afYS4vbIlPAj096E60c4W1fiK"
api_secret_key <- "bI91kqnqFoNCrZFbsjAWHD4gJ91LQAhdCJXCj3yscfuULtNkuu"

## authenticate via web browser
token <- create_token(
    app = "rstatsjournalismresearch",
    consumer_key = api_key,
    consumer_secret = api_secret_key)</pre>
```

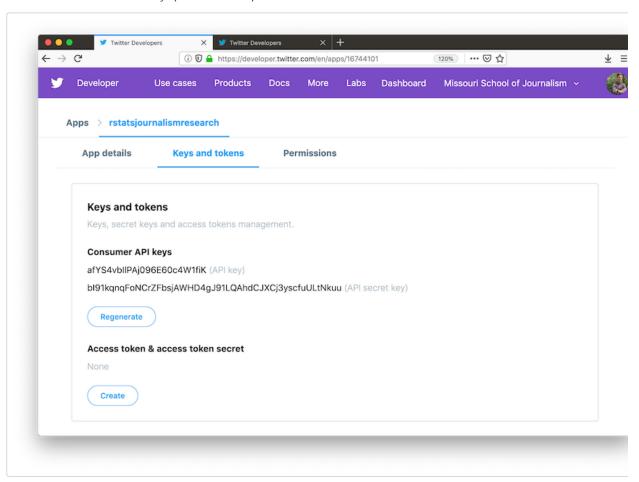
- A browser pop-up window should appear. Click to approve (must be signed into twitter.com) and return to R.
- $\circ~$ Your token has been created. Print your token to make sure the app name and <code>api_key</code> match

view token (you should see the correct app name)
token

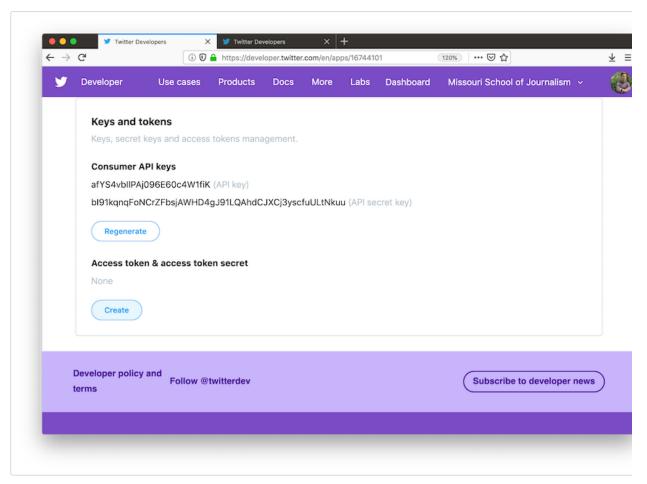
2. Access token/secret method

- Navigate to developer.twitter.com/en/apps and select your Twitter app
- Click the tab labeled Keys and tokens to retrieve your keys.

• Locate the Consumer API keys (aka "API Secret").



• Scroll down to Access token & access token secret and click Create



 Copy and paste the four keys (along with the name of your app) into an R script file and pass them along to create_token().

```
## store api keys (these are fake example values; replace with your own keys)
api_key <- "afYS4vbIlPAj096E60c4W1fiK"
api_secret_key <- "b191kqnqFoNCrZFbsjAWHD4gJ91LQAhdCJXCj3yscfuULtNkuu"
access_token <- "9551451262-wK2EmA942kxZYIwa5LMKZoQA4Xc2uyIiEwu2YXL"
access_token_secret <- "9vpiSGKg1fIPQtxc5d5ESiFlZQpfbknEN1f1m2xe5byw7"

## authenticate via web browser
token <- create_token(
    app = "rstatsjournalismresearch",
    consumer_key = api_key,
    consumer_secret = api_secret_key,
    access_token = access_token,
    access_secret = access_token_secret)</pre>
```

Authorization in future R sessions

- The create_token() function should automatically save your token as an environment variable for you. So next time you start an R session [on the same machine], rtweet should automatically find your token.
- To make sure it works, restart your R session, run the following code, and again check to make sure the app name and api_key match.

```
## check to see if the token is loaded
library(rtweet)
get_token()
```

That's it!