

# STA312H5S Tutorial 9

Matthew C. Scicluna

University of Toronto Mississauga

March 24, 2015

# What We Are Going to Cover

A bit more information about this

Today we are going to discuss

- ▶ `twitteR` for dummies!
- ▶ Assignment 4

# Twitter for dummies

First thing you want to do is get an API key. There are 2 ways to do this:

Create your own

But this would require you to do some extra steps!

Use mine!

But too many people using the same API key may have consequences!

The issues raised are very important, and so you should become informed of them.

# How to create your own API key

5 steps:

- ▶ Make a twitter account (I do **NOT** recommend you use your own twitter account for this!)
- ▶ Sign in with your new twitter account and go to <https://apps.twitter.com/app/new>
- ▶ Fill out the required fields and press create your own application

# How to create your own API key

5 steps:

- ▶ Press the keys and access tokens tab and click create my access token, which is found under the Token Actions header.
- ▶ copy and paste the API Key, API Secret, Access Token and Access Token Secret to the Assignment 4 starter code.

# How to create your own API key

## My App Example STA312

[Test OAuth](#)[Details](#)[Settings](#)[Keys and Access Tokens](#)[Permissions](#)

### Application Details

**Name \***

Your application name. This is used to attribute the source of a tweet and in user-facing authorization screens. 32 characters max.

**Description \***

Your application description, which will be shown in user-facing authorization screens. Between 10 and 200 characters max.

**Figure:** The main screen of the app developer page

# How to create your own API key

[Details](#) [Settings](#) [Keys and Access Tokens](#) [Permissions](#)

## Application Settings

*Keep the "Consumer Secret" a secret. This key should never be human-readable in your application.*

Consumer Key (API Key)	56wunVKWyM2SQOc5kj3ghlp7q
Consumer Secret (API Secret)	8e2BSUCaqaXgwBSn5ExdwLFXc4tdEvP3TEfs4xhev9BqAxxXDQ
Access Level	Read-only ( <a href="#">modify app permissions</a> )
Owner	Andyman409
Owner ID	174517160

### Application Actions

Regenerate Consumer Key and SecretChange App Permissions

**Figure:** This is where you find the API Key and API Secret token information

# How to create your own API key

Owner ID 174517160

---

### Application Actions

Regenerate Consumer Key and SecretChange App Permissions

---

### Your Access Token

*This access token can be used to make API requests on your own account's behalf. Do not share your access token secret with anyone.*

Access Token	174517160-JxalAq3DReg9AZnLT1rbpJM7dVAG7MvdE4EBXIRC
Access Token Secret	b1WwlcGOSYMz5KOxpa3gGlgD9kwVXMmd5QpZAg4vtN1r
Access Level	Read-only
Owner	Andyman409
Owner ID	174517160

**Figure:** This is where you find the Access Token and Access Token Secret token information



## twitteR for dummies

```
searchTwitter("string", n=N)
```

returns a list of N tweets containing "string"

## twitteR for dummies

```
userTimeline("username", n=N, maxID=NULL,  
sinceID=NULL, includeRts=FALSE,  
excludeReplies=FALSE)
```

Returns a list of N tweets from twitter user named "username". Additionally does not include retweets but includes reply tweets.

Note that "username" does not include the @ symbol!

# twitteR for dummies

- ▶ Dont forget to run

```
setup_twitter_oauth(API_Key, API_Secret,  
  accessToken, accessSecret)
```

Before trying to run the markdown file. The first time you run the above code R will prompt you to type yes to authenticate.

- ▶ You cannot do this from within the markdown file.
- ▶ Subsequent function calls in the current session will not prompt you to confirm authentication.

# twitterR for dummies

For more information, go to:

http:

[//cran.r-project.org/web/packages/twitterR/twitterR.pdf](http://cran.r-project.org/web/packages/twitterR/twitterR.pdf)