Reading data from APIs

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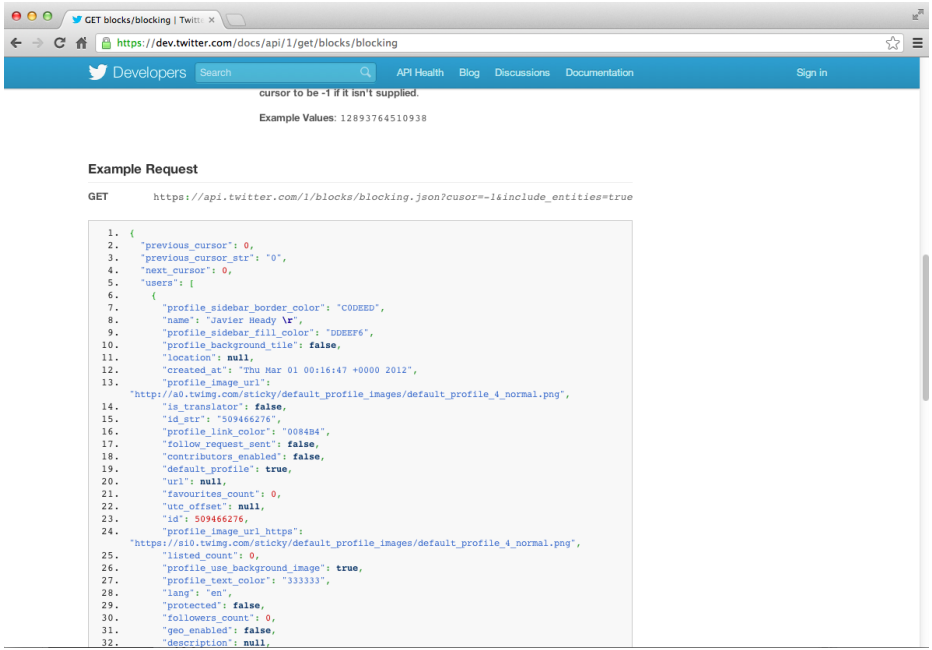
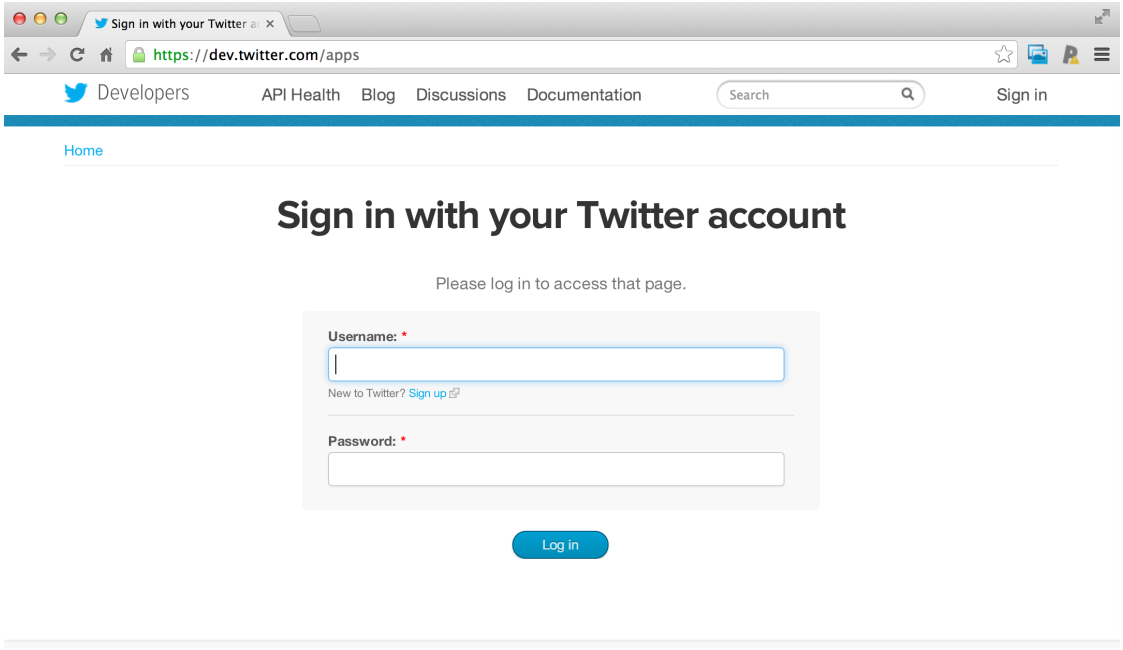
Application programming interfaces



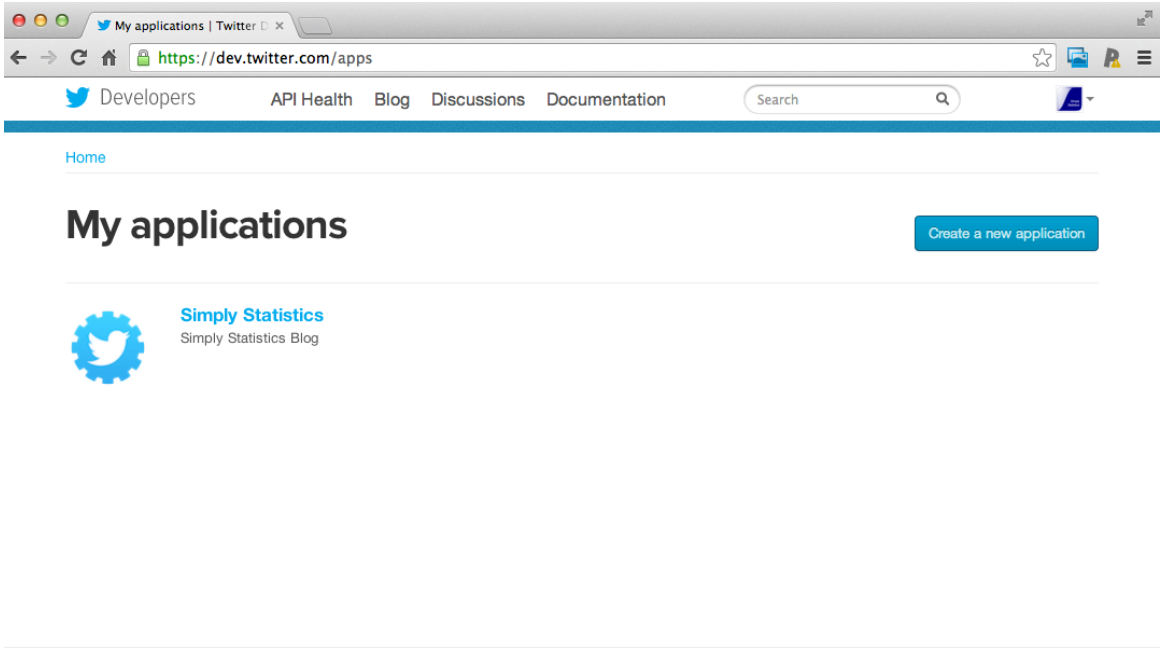
https://dev.twitter.com/docs/api/1/get/blocks/blocking

Creating an application

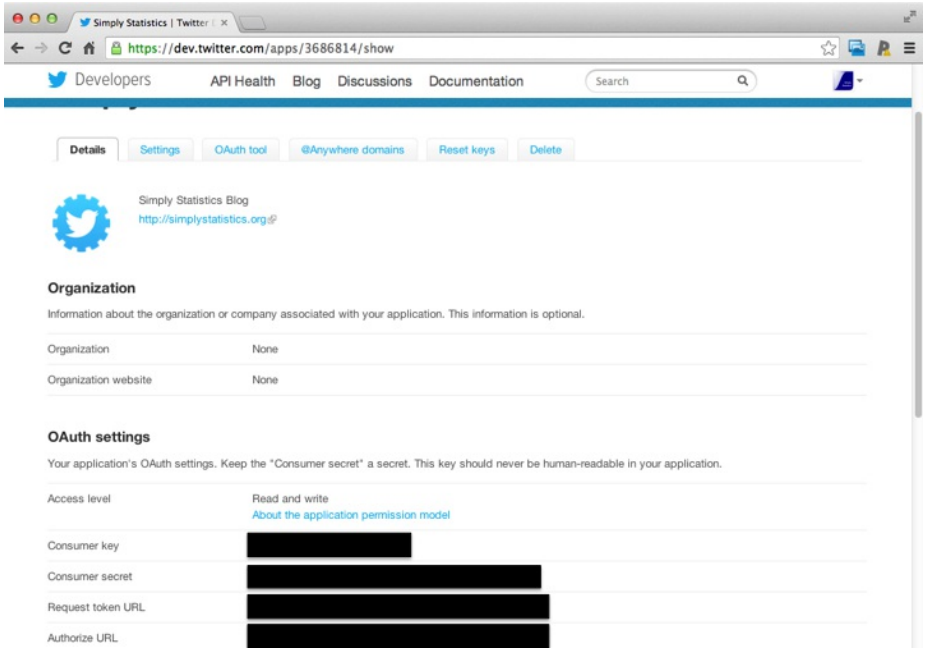


https://dev.twitter.com/apps)

Creating an application



Creating an application



Accessing Twitter from R

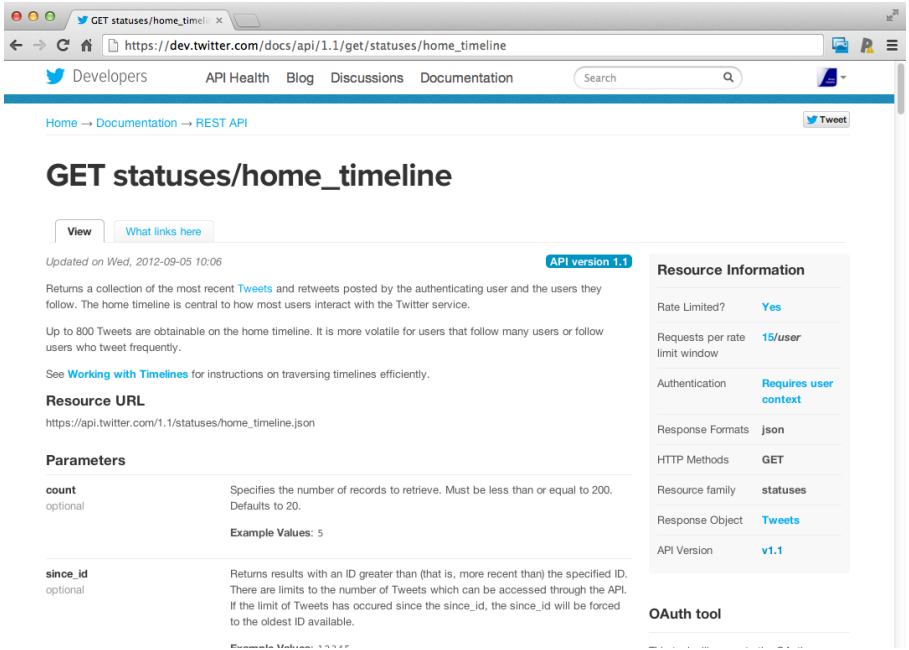
```
myapp = oauth_app("twitter",
                  key="yourConsumerKeyHere",secret="yourConsumerSecretHere")
sig = sign_oauth1.0(myapp,
                    token = "yourTokenHere",
                     token_secret = "yourTokenSecretHere")
homeTL = GET("https://api.twitter.com/1.1/statuses/home_timeline.json", sig)
```

Converting the json object

```
json1 = content(homeTL)
json2 = jsonlite::fromJSON(toJSON(json1))
json2[1,1:4]
```

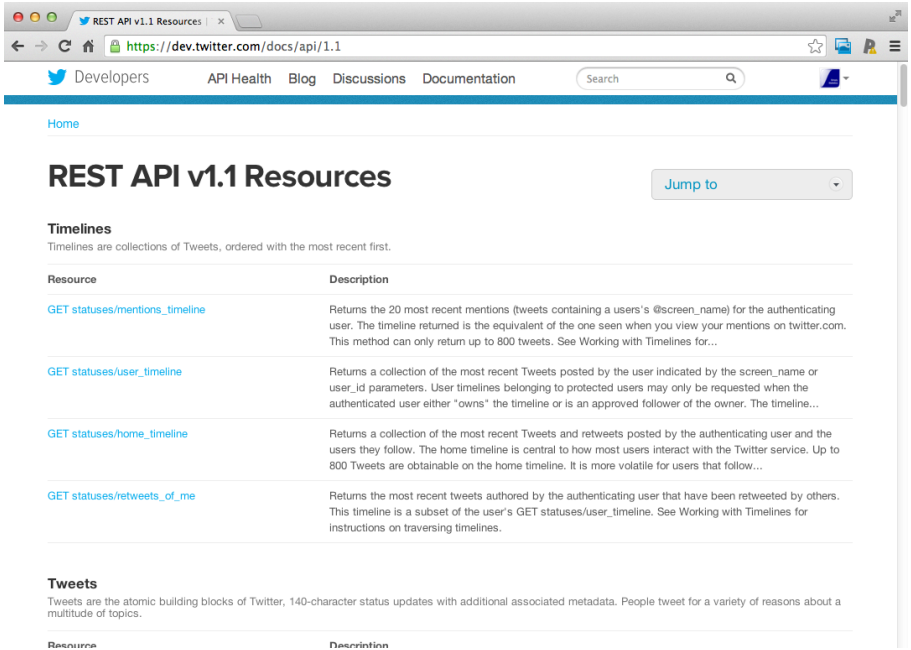
```
                    created_at           id             id_str
1 Mon Jan 13 05:18:04 +0000 2014 4.225984e+17 422598398940684288

1 Now that P. Norvig's regex golf IPython notebook hit Slashdot, let's see if our traffic spike tops th
```

How did I know what url to use?



https://dev.twitter.com/docs/api/1.1/get/search/tweets

In general look at the documentation



https://dev.twitter.com/docs/api/1.1/overview

In general look at the documentation

- httr allows `GET`, `POST`, `PUT`, `DELETE` requests if you are authorized
- You can authenticate with a user name or a password
- Most modern APIs use something like oauth
- httr works well with Facebook, Google, Twitter, Githb, etc.