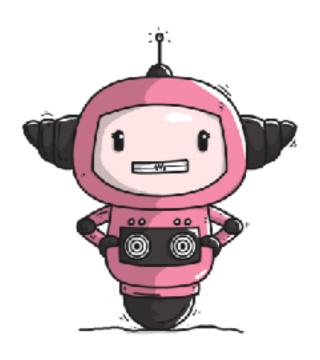
Sentiment Analysis with machinebox.io



Requirements

- Go
- Docker: http://docker.com
- Textbox Image: docker pull machinebox/textbox
- MachineBox API Key: https://machinebox.io/login
- Twitter API keys: https://apps.twitter.com/

STEP 1 - Get Twitter Credentials

https://apps.twitter.com/

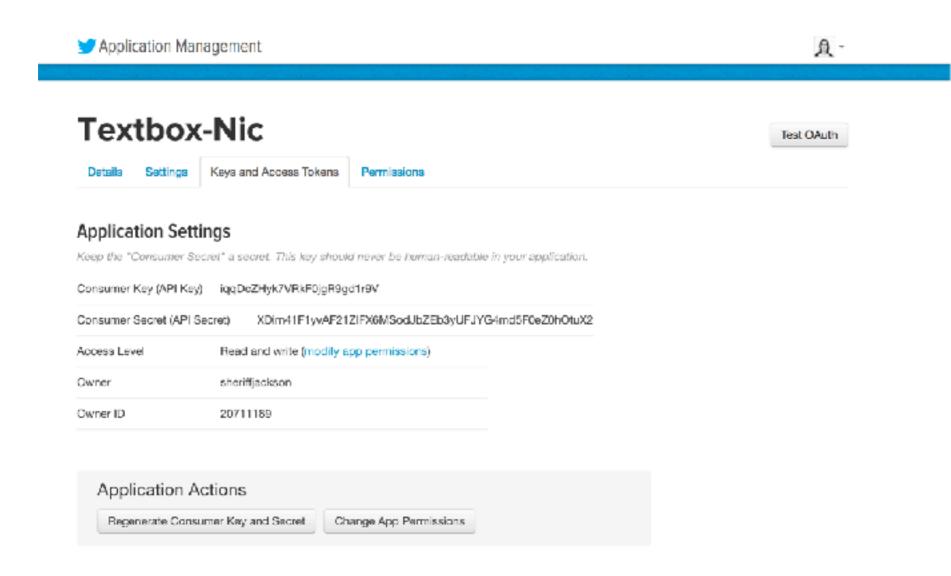




Create an application

Application Details	
Name *	
Textbox	
four application name. This is used to attribute the sour	te of a tweet and in user-facing authorization screens. 32 characters max.
Description *	
Textbox Twitter API	
four application description, which will be shown in use	facing authorization screens. Between 10 and 200 characters max.
Website *	
https://machinebox.io	
four application's publicly accessible home page, where source attribution for tweets created by your application If you don't have a URL yet, just put a placeholder here.	
Caliback URL	
	? OAuth 1.0n applications should explicitly specify their courth_callback URL on the request token step, regardless of the value
Where should we return after successfully outhenticating	to the state of th

Create access tokens



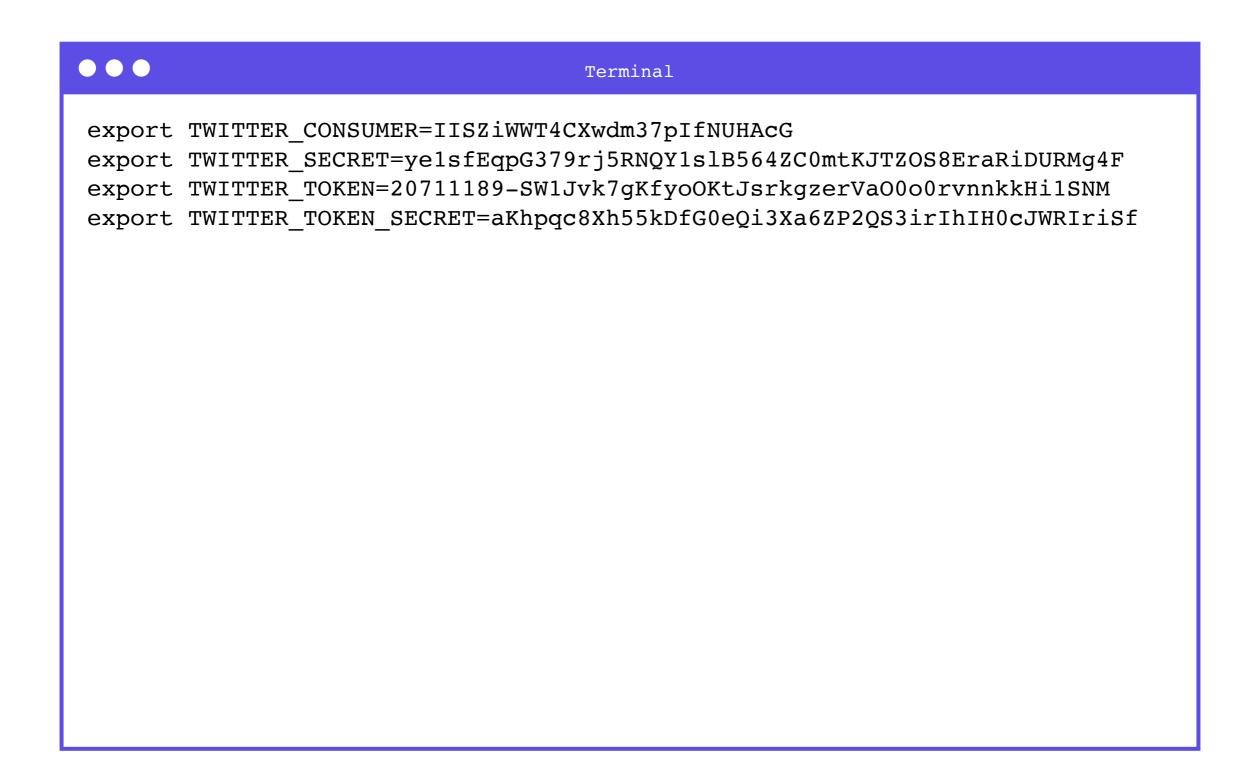
Your Access Token

You haven't authorized this application for your own account yet.

By creating your access token here, you will have everything you need to make API calls right away. The access token generated will be assigned your application's current permission level.

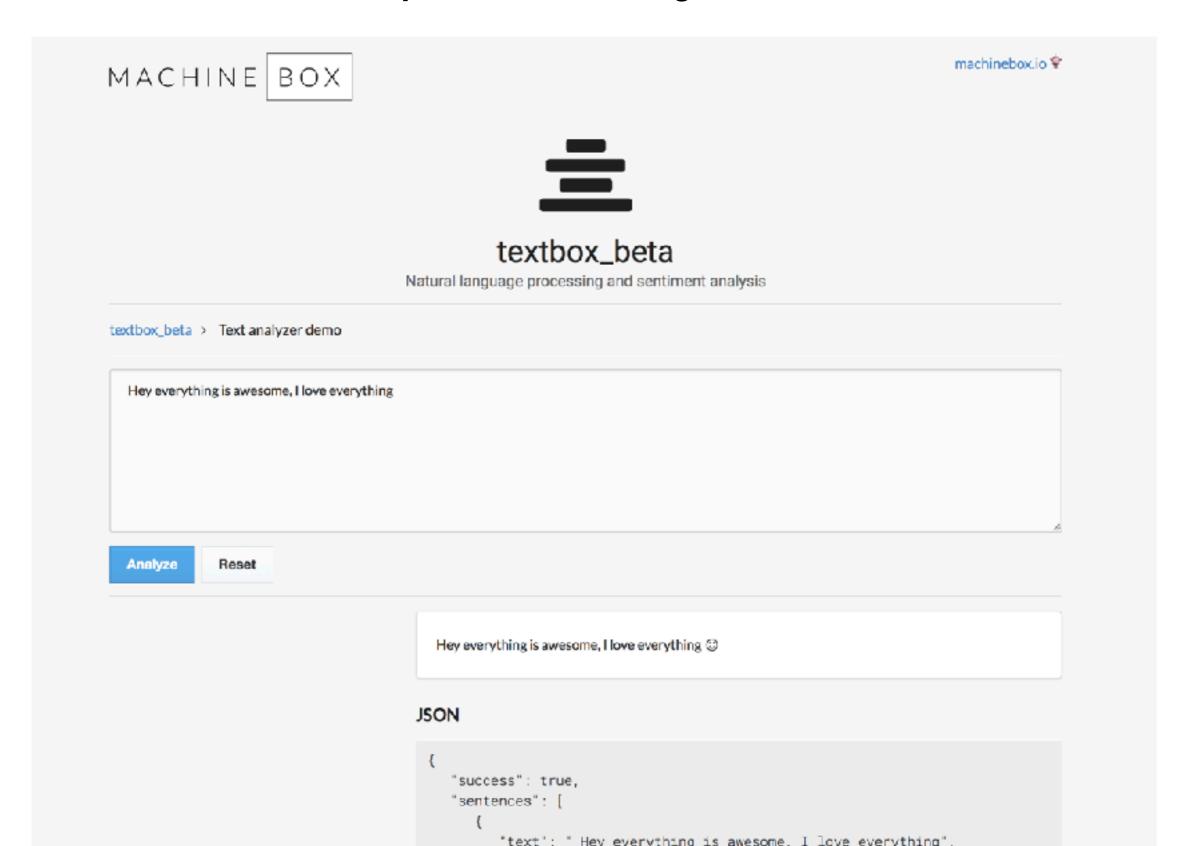
Token Actions Greate my access token

Save to a file



Textbox

http://textbox.demo.gs/demo



go get packages

```
000
                                   Terminal
$ go get github.com/dghubble/go-twitter/twitter
$ go get github.com/dghubble/oauth1
$ go get github.com/machinebox/sdk-go/textbox
```

Setup the secrets for twitter

```
000
                                    main.go
var consumerKey = os.Getenv("TWITTER_CONSUMER")
var consumerSecret = os.Getenv("TWITTER SECRET")
var consumerToken = os.Getenv("TWITTER TOKEN")
var consumerTokenSecret = os.Getenv("TWITTER TOKEN SECRET")
func main() {
    tweets := getTweets()
     getSentiment(tweets)
```

Create twitter client

```
000
                                    main.go
func getTweets() []twitter.Tweet {
     config := oauth1.NewConfig(consumerKey, consumerSecret)
    token := oauth1.NewToken(consumerToken, consumerTokenSecret)
     httpClient := config.Client(oauth1.NoContext, token)
    // Twitter client
    client := twitter.NewClient(httpClient)
```

Get the tweets

Create textbox client

```
•••
                                   main.go
func getSentiment(tweets []twitter.Tweet) {
  client := textbox.New("http://textbox.demo.gs")
```

Loop over tweets and get analysis

```
000
                                    main.go
func getSentiment(tweets []twitter.Tweet) {
  //...
    for _, tweet := range tweets {
         analysis, err := client.Check(strings.NewReader(tweet.Text))
```

Get the sentiment



main.go

```
func getSentiment(tweets []twitter.Tweet) {
   //...

sentimentTotal := 0.0
for _, sentence := range analysis.Sentences {
   sentimentTotal += sentence.Sentiment
}

// higher is more positive, lower is more negative
sentiment := sentimentTotal float64(len(analysis.Sentences)))
}
```

Resources:

- https://github.com/nicholasjackson/textbox-example
- https://github.com/machinebox/mood/blob/master/ textboxtally/tally.go
- https://github.com/nicholasjackson/emojify
- https://machinebox.io
- http://godoc.org/github.com/machinebox/sdk-go