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Took 0 sec. Last updated by anonymous at January 26 2017, 7:00:12 PM. (outdated)

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```
import org.apache.spark.streaming._
import org.apache.spark.streaming.twitter._
import org.apache.spark.storage.StorageLevel
import scala.io.Source
import scala.collection.mutable.HashMap
import java.io.File
import org.apache.log4j.Logger
import org.apache.log4j.Level
import sys.process.stringSeqToProcess
import sqlContext._
```

```
import org.apache.spark.streaming._
import org.apache.spark.streaming.twitter._
import org.apache.spark.storage.StorageLevel
import scala.io.Source
import scala.collection.mutable.HashMap
import java.io.File
import org.apache.log4j.Logger
import org.apache.log4j.Level
import sys.process.stringSeqToProcess
import sqlContext._
```

Took 6 sec. Last updated by anonymous at January 26 2017, 7:09:28 PM. (outdated)

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```
/** Configures the OAuth Credentials for accessing Twitter */
def configureTwitterCredentials(apiKey: String, apiSecret: String, accessToken: String, acces:
  val configs = new HashMap[String, String] += Seq(
    "apiKey" -> apiKey, "apiSecret" -> apiSecret, "accessToken" -> accessToken, "accessTokenS
  println("Configuring Twitter OAuth")
  configs.foreach{ case(key, value) =>
    if (value.trim.isEmpty) {
      throw new Exception("Error setting authentication - value for " + key + " not set")
    }
    val fullKey = "twitter4j.oauth." + key.replace("api", "consumer")
    System.setProperty(fullKey, value.trim)
    println("\tProperty " + fullKey + " set as [" + value.trim + "]")
  }
  println()
}
```

```
configureTwitterCredentials: (apiKey: String, apiSecret: String, accessToken: String, accessTo
kenSecret: String)Unit
```

Took 1 sec. Last updated by anonymous at January 26 2017, 7:09:31 PM. (outdated)

FINISHED

```
// Configure Twitter credentials
val apiKey = "lrSjSsNP991V0q33nJ0S5xCeM"
val apiSecret = "I0N1LaYx0tF22Q0Uh9zgdpEWjuSUGRKgXOW5m157PJ9uFBqHDD"
val accessToken = "2720765335-3RGJdIbYmpOpC2MQ9V7sNWbylgixR00ngRH9ee"
val accessTokenSecret = "zibM5xghbgEDVMjTpNRnFJevpXIkZ30EFKfNb7k3Rngmb"
configureTwitterCredentials(apiKey, apiSecret, accessToken, accessTokenSecret)

apiKey: String = lrSjSsNP991V0q33nJ0S5xCeM
apiSecret: String = I0N1LaYx0tF22Q0Uh9zgdpEWjuSUGRKgXOW5m157PJ9uFBqHDD
accessToken: String = 2720765335-3RGJdIbYmpOpC2MQ9V7sNWbylgixR00ngRH9ee
accessTokenSecret: String = zibM5xghbgEDVMjTpNRnFJevpXIkZ30EFKfNb7k3Rngmb
Configuring Twitter OAuth
    Property twitter4j.oauth.consumerKey set as [lrSjSsNP991V0q33nJ0S5xCeM]
    Property twitter4j.oauth.accessToken set as [2720765335-3RGJdIbYmpOpC2MQ9V7sNWbylgixR00ngRH9ee]
    Property twitter4j.oauth.consumerSecret set as [I0N1LaYx0tF22Q0Uh9zgdpEWjuSUGRKgXOW5m157PJ9uFBqHDD]
    Property twitter4j.oauth.accessTokenSecret set as [zibM5xghbgEDVMjTpNRnFJevpXIkZ30EFKfNb7k3Rngmb]
```

Took 1 sec. Last updated by anonymous at January 26 2017, 7:10:40 PM. (outdated)

ERROR ▶ 🔍 📖 ⚙️

```
<init>(<console>:58)
<init>(<console>:63)
<init>(<console>:65)
<init>(<console>:67)
<init>(<console>:69)
<init>(<console>:71)
<init>(<console>:73)
<init>(<console>:75)
<init>(<console>:77)
<init>(<console>:79)
<init>(<console>:81)
<init>(<console>:83)
<init>(<console>:85)
<init>(<console>:87)
<init>(<console>:89)
```

Took 1 sec. Last updated by anonymous at January 26 2017, 7:10:45 PM. (outdated)

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createdAt	text
-----------	------

1,485,475,885	trump supporters all have the same traits it's funny really lmao they're all so hard headed and
1,485,475,893	#thankyoutrump TY4 suggesting to pay for the wall with a 20% import. Are you even aware t
1,485,475,900	RT @Harryslaststand: #donaldtrump when you endorse #torture you are not the President of

[illegible]

Sentiment



default ▼

<http://localhost:8080/#/notebook/2C9SPC8VY>

%sql

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select createdAt, count(1) from tweets group by createdAt order by createdAt



createdAt	count(1)
1,485,475,902	48
1,485,475,903	26
1,485,475,904	36
1,485,475,905	27
1,485,475,906	40
1,485,475,907	35
1,485,475,908	40
1,485,475,909	34
1,485,475,910	27

Took 4 sec. Last updated by anonymous at January 26 2017, 7:12:47 PM. (outdated)

```
def sentiment(s:String) : String = {
  val positive = Array("like", "love", "good", "great", "happy", "cool", "the", "one", "that")
  val negative = Array("hate", "bad", "stupid", "is")

  var st = 0;

  val words = s.split(" ")
  positive.foreach(p =>
    words.foreach(w =>
      if(p==w) st = st+1
    )
  )

  negative.foreach(p=>
    words.foreach(w=>
      if(p==w) st = st-1
    )
  )
  if(st>0)
    "positive"
  else if(st<0)
    "negative"
  else
    "neutral"
}
```

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Sentiment

Zeppelin

Sentiment



default ▼

```
// Below line works only in spark 1.3.0.
// For spark 1.1.x and spark 1.2.x,
// use sqlc.registerFunction("sentiment", sentiment _) instead.
sqlc.udf.register("sentiment", sentiment _)
```

Took 3 sec. Last updated by anonymous at January 26 2017, 7:13:28 PM. (outdated)

```
select sentiment(text), count(1) from tweets where text like '%trump%' group by sentiment(text)
```



Took 4 sec. Last updated by anonymous at January 26 2017, 7:14:14 PM. (outdated)

1