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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 org.apache.spark.streaming._
import org.apache.spark.streaming.twitter._
import org.apache.spark.storage.StorageLevel
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```

Took 21 sec. Last updated by anonymous at January 26 2017, 7:44:32 PM.

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```
/** Configures the OAuth Credentials for accessing Twitter */
def configureTwitterCredentials(apiKey: String, apiSecret: String, accessToken: String, accessTo
  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 21 sec. Last updated by anonymous at January 26 2017, 7:44:33 PM.

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```
// Configure Twitter credentials
val apiKey = "fVoraNUIkFD99P5WTQvZ2cMG"
val apiSecret = "AsbRE74j50CwL0gcuD4G1jz6SyxzugfZaw30IjLpUkYD2YZYYa"
```

```
val accessToken = "165191807-gLdy7lrUMZCmQYIgudIoUkyORmtmCBiEJ2ERNtm5"
val accessTokenSecret = "NTaCS3lb1PTgDsPiQ7zRw624ZgSVbfutv5RCCJIgMdwun"
configureTwitterCredentials(apiKey, apiSecret, accessToken, accessTokenSecret)
```

```
apiKey: String = fVoraNUIkkFD99P5WTQvZ2cMG
```

```
apiSecret: String = AsbRE74j50CwL0gcuD4G1jz6SyxzugfZaw30IjLpUkYD2YZYYa
```

```
accessToken: String = 165191807-gLdy7lrUMZCmQYIgudIoUkyORmtmCBiEJ2ERNtm5
```

```
accessTokenSecret: String = NTaCS3lb1PTgDsPiQ7zRw624ZgSVbfutv5RCCJIgMdwun
```

```
Configuring Twitter OAuth
```

```
Property twitter4j.oauth.consumerKey set as [fVoraNUIkkFD99P5WTQvZ2cMG]
```

```
Property twitter4j.oauth.accessToken set as [165191807-gLdy7lrUMZCmQYIgudIoUkyORmtmCBiEJ2ERNtm5]
```

```
Property twitter4j.oauth.consumerSecret set as [AsbRE74j50CwL0gcuD4G1jz6SyxzugfZaw30IjLpUkYD2YZYYa]
```

```
Property twitter4j.oauth.accessTokenSecret set as [NTaCS3lb1PTgDsPiQ7zRw624ZgSVbfutv5RCCJIgMdwun]
```

Took 3 sec. Last updated by anonymous at January 26 2017, 7:44:35 PM.

```
import org.apache.spark.{ SparkConf, SparkContext}
import org.apache.spark.streaming._
import org.apache.spark.streaming.twitter._
import org.apache.spark.SparkContext._
```

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```
import org.apache.spark.{SparkConf, SparkContext}
```

```
import org.apache.spark.streaming._
```

```
import org.apache.spark.streaming.twitter._
```

```
import org.apache.spark.SparkContext._
```

Took 3 sec. Last updated by anonymous at January 26 2017, 7:44:37 PM.

```
val ssc = new StreamingContext(sc, Seconds(2))
```

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```
val tweets = TwitterUtils.createStream(ssc, None)
```

```
val twt = tweets.window(Seconds(10))
```

```
ssc: org.apache.spark.streaming.StreamingContext = org.apache.spark.streaming.StreamingContext@711b9e91
```

```
tweets: org.apache.spark.streaming.dstream.ReceiverInputDStream[twitter4j.Status] = org.apache.spark.streaming.twitter.TwitterInputDStream@57546f92
```

```
twt: org.apache.spark.streaming.dstream.DStream[twitter4j.Status] = org.apache.spark.streaming.dstream.WindowedDStream@204b2af1
```

Took 3 sec. Last updated by anonymous at January 26 2017, 7:44:39 PM.

```
case class Tweet(createdAt:Long, text:String)
```

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```
val tweet = twt.map(status=>
```

```
    Tweet(status.getCreatedAt().getTime()/1000, status.getText())
```

```
)
```

```
defined class Tweet
```

```
tweet: org.apache.spark.streaming.dstream.DStream[Tweet] = org.apache.spark.streaming.dstream.MappedDStream@7b100480
```

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createdAt	text
1,485,477,962	#hostel girls sex young
1,485,477,965	@confusinggirl_ já a ger
1,485,477,969	RT @hotukgirls3006: Th
@lee_ecclestone @tterb1407 @flynn_promo @PROMOGIRLSUK @promolatina...	
1,485,477,971	video emo boy to girl tra

Took 0 sec. Last updated by anonymous at January 26 2017, 7:46:14 PM. (outdated)

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

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createdAt	count(1)
1,485,477,985	1
1,485,477,986	28
1,485,477,987	42
1,485,477,988	39
1,485,477,989	44
1,485,477,990	34
1,485,477,991	42
1,485,477,992	44
1.485.477.993	39

Took 3 sec. Last updated by anonymous at January 26 2017, 7:46:41 PM.

```
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;  
  
  for (w ← s.split(" "))  
    if (positive.contains(w) =>  
      st = st+1  
    if (negative.contains(w) =>  
      st = st-1  
  }  
  if (st > 0) "positive"  
  else if (st < 0) "negative"  
  else "neutral"  
}
```

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default ▾

```

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

// 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 _)

sentiment: (s: String)String
res15: org.apache.spark.sql.expressions.UserDefinedFunction = UserDefinedFunction(<function1>,
StringType,Some(List(StringType)))

```

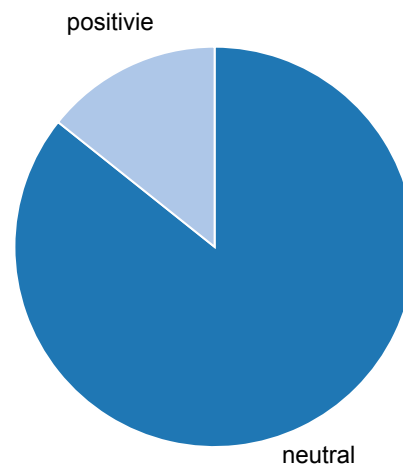
Took 2 sec. Last updated by anonymous at January 26 2017, 7:48:01 PM.

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

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settings ▾



Took 1 sec. Last updated by anonymous at January 26 2017, 7:49:11 PM. (outdated)

READY

**Zeppelin**