

```
// Imports
import org.apache.spark.sql.functions._
import org.joda.time.format.DateTimeFormat
```

FINISHED ▶ 🔍 📖 ⚙️

```
import org.apache.spark.sql.functions._
import org.joda.time.format.DateTimeFormat
```

Took 18 sec. Last updated by anonymous at January 26 2017, 7:34:52 PM.

```
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
```

FINISHED ▶ 🔍 📖 ⚙️

```
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
```

Took 4 sec. Last updated by anonymous at January 26 2017, 7:37:22 PM.

```
/** Configures the OAuth Credentials for accessing Twitter */
def configureTwitterCredentials(apiKey: String, apiSecret: String, accessToken: String, acces:
  val configs = new HashMap[String, String] += Seq(
    "apiKey" -> "T2PesobmMCiumfMkmGCXWJCFQ", "apiSecret" -> "4WTbM8qilVuN8Kx7awPHFJLjZkA6zydul
dAeiz1YVUAvVoci", "accessTokenSecret" -> "Mn9aSxuyphbyHvT2wGgqyfWnPUDViHVHh7sBqWR1M6273")
  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()
}
```

FINISHED ▶ 🔍 📖 ⚙️

```
configureTwitterCredentials: (apiKey: String, apiSecret: String, accessToken: String, accessTokenSecret: String)Unit
```

Took 3 sec. Last updated by anonymous at January 26 2017, 7:41:44 PM.

FINISHED ▶ ⌕ 📖 ⚙

```
val apiKey = "T2PesobmMCiumfMkmGCXWJCFQ"
val apiSecret = "4WTbM8qilVuN8Kx7awPHFJLjZkA6zydubpuEqntUp8hh10yVyr"
val accessToken = "2802028332-F50FdJKkD8zXsfGPyKt7qV4adAeiz1YVUAvVoci"
val accessTokenSecret = "Mn9aSxuyphbyHvT2wGgqyfWnPUDViHVHh7sBqWRlM6273"
configureTwitterCredentials(apiKey, apiSecret, accessToken, accessTokenSecret)
```

```
apiKey: String = T2PesobmMCiumfMkmGCXWJCFQ
apiSecret: String = 4WTbM8qilVuN8Kx7awPHFJLjZkA6zydubpuEqntUp8hh10yVyr
accessToken: String = 2802028332-F50FdJKkD8zXsfGPyKt7qV4adAeiz1YVUAvVoci
accessTokenSecret: String = Mn9aSxuyphbyHvT2wGgqyfWnPUDViHVHh7sBqWRlM6273
Configuring Twitter OAuth
    Property twitter4j.oauth.consumerKey set as [T2PesobmMCiumfMkmGCXWJCFQ]
    Property twitter4j.oauth.accessToken set as [2802028332-F50FdJKkD8zXsfGPyKt7qV4adAeiz1YVUAvVoci]
    Property twitter4j.oauth.consumerSecret set as [4WTbM8qilVuN8Kx7awPHFJLjZkA6zydubpuEqntUp8hh10yVyr]
    Property twitter4j.oauth.accessTokenSecret set as [Mn9aSxuyphbyHvT2wGgqyfWnPUDViHVHh7sBqWRlM6273]
```

Took 2 sec. Last updated by anonymous at January 26 2017, 7:43:47 PM.

FINISHED ▶ ⌕ 📖 ⚙

```
/** Configures the OAuth Credentials for accessing Twitter */
def configureTwitterCredentials(apiKey: String, apiSecret: String, accessToken: String, accessTokenSecret: String)Unit {
    val configs = new HashMap[String, String] ++= Seq(
        "apiKey" -> apiKey, "apiSecret" -> apiSecret, "accessToken" -> accessToken, "accessTokenSecret" -> accessTokenSecret
    )
    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, accessTokenSecret: String)Unit
```

Took 1 sec. Last updated by anonymous at January 26 2017, 7:44:00 PM.

FINISHED ▶ ⌕ 📖 ⚙

```
import org.apache.spark.streaming.twitter._
val ssc = new StreamingContext(sc, Seconds(2))
val tweets = TwitterUtils.createStream(ssc, None)
val twt = tweets.window(Seconds(60))

case class Tweet(createdAt: Long, text: String)
twt.map(status =>
    Tweet(status.getCreatedAt().getTime()/1000, status.getText())
).foreachRDD(rdd =>
```

entiment_Vivek

createdAt	text
1,485,477,882	#mexican teen sex scandal videos chubby school girl https://t.co/hPavDM7k0N
1,485,477,884	RT @zaurenfool: black!!! girl!!! magic!!! https://t.co/G6X9jxjPqf
1,485,477,886	The next girl i date has to be into beer. Who else could I talk to about these bourbon barn
1,485,477,895	RT @thefirstnoel123: @maxinemedina i love you maxine. You made me cry last night! Lab
1,485,477,896	RT @snoopmaya: Istg no girl can make me feel inferior to them
1,485,477,898	This little girl gave me the greatest boost today! She is an "old soul"! #weallneedafriend.

https://t.co/7rbkNwHAIj1485477898 RT @valpvcinox: Nah they mean the dark girls with 4c hair, you knew https://t.co/BDwd0YMLHk1485477899 RT @girlposts: THIS https://t.co/FtfnePtcwk1485477899 Got me a big girl car today. Huge thanks to my Uncle Steve at McDonald Ford for searching long... https://t.co/u1p6yVKk051485477900 women girl scout non nude https://t.co/LhuMEJ6cDp

Took 2 sec. Last updated by anonymous at January 26 2017, 7:45:11 PM.

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

FINISHED ▶ ⌵ 📖 ⚙️

**createdAt**

1,485,477,879

1,485,477,881

1,485,477,882

1,485,477,883

1,485,477,884

1,485,477,885

1,485,477,886

1,485,477,887

1.485.477.888

Took 4 sec. Last updated by anonymous at January 26 2017, 7:45:33 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")
  val st = 0
  val words = s.split(" ")
  words.foreach(w => {
    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"
}
```

FINISHED ▶ ⌵ 📖 ⚙️

Sentiment_Vivek Zeppelin

Sentiment_Vivek



default ▼

```
val words = s.split(" ")
words.foreach(w => {
  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"
}
```

// 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 1 sec. Last updated by anonymous at January 26 2017, 7:48:51 PM.

UDF(text)	count
neutral	46
negative	6
positivie	17

Took 2 sec. Last updated by anonymous at January 26 2017, 7:49:22 PM.

Zeppelin READY ▶ 🔍 📖 ⚙️

Sentiment_Vivek

