```
FINISHED ▷ 光 圓 ��
 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 5 sec. Last updated by anonymous at January 26 2017, 6:55:15 PM.
```

```
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 /** Configures the Oauth Credentials for accessing Twitter */
 def configureTwitterCredentials(apiKey: String, apiSecret: String, accessToken: String, access
   val configs = new HashMap[String, String] ++= Seq(
     "apiKey" -> apiKey, "apiSecret" -> apiSecret, "accessToken" -> accessToken, "accessTokenSe
   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, 6:55:18 PM.
```

// Configure Twitter credentials

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```
val apiKey = "x7Jd43YiH41HmmgxH45MTtweo"
 val apiSecret = "ifRK3j5vmsogMCyjfN1cGPAp5RD7KSnNWRCkAKW4qeVV7o00Hz"
 val accessToken = "2425726722-U6e2ICxctbYMIBel0fApsRKoSvZFyc4krYHCUo9"
 val accessTokenSecret = "w0FdXuXkvjIzSVBawcN6qgb4P6NiKAh58pyVeZCeZ7cxZ"
 configureTwitterCredentials(apiKey, apiSecret, accessToken, accessTokenSecret)
apiKey: String = x7Jd43YiH41HmmgxH45MTtweo
apiSecret: String = ifRK3j5vmsogMCyjfN1cGPAp5RD7KSnNWRCkAKW4geVV7oOOHz
accessToken: String = 2425726722-U6e2ICxctbYMIBel0fApsRKoSvZFyc4krYHCUo9
accessTokenSecret: String = w0FdXuXkvjIzSVBawcN6qgb4P6NiKAh58pyVeZCeZ7cxZ
Configuring Twitter OAuth
        Property twitter4j.oauth.consumerKey set as [x7Jd43YiH41HmmgxH45MTtweo]
        Property twitter4j.oauth.accessToken set as [2425726722-U6e2ICxctbYMIBel0fApsRKoSvZFyc
4krYHCUo97
        Property twitter4j.oauth.consumerSecret set as [ifRK3j5vmsoqMCyjfN1cGPAp5RD7KSnNWRCkAK
W4qeVV7o00Hz]
        Property twitter4j.oauth.accessTokenSecret set as [w0FdXuXkvjIzSVBawcN6qqb4P6NiKAh58py
VeZCeZ7cxZ7
Took 2 sec. Last updated by anonymous at January 26 2017, 6:55:24 PM.
```

```
Sentiment Analysis Untitled Un
                   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))
               import org.apache.spark.streaming.twitter._
               ssc: org.apache.spark.streaming.StreamingContext = org.apache.spark.streaming.StreamingContext
               @5bc9df39
               tweets: org.apache.spark.streaming.dstream.ReceiverInputDStream[twitter4j.Status] = org.apach
               e.spark.streaming.twitter.TwitterInputDStream@5852ef60
               twt: org.apache.spark.streaming.dstream.DStream[twitter4j.Status] = org.apache.spark.streamin
               q.dstream.WindowedDStream@65adeb32
               Took 2 sec. Last updated by anonymous at January 26 2017, 6:55:29 PM.
```

```
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case class Tweet(createdAt:Long, text:String)
 twt.map(status=>
  Tweet(status.getCreatedAt().getTime()/1000, status.getText())
 ).foreachRDD(rdd=>
  // Below line works only in spark 1.3.0.
  // For spark 1.1.x and spark 1.2.x,
  // use rdd.registerTempTable("tweets") instead.
 // rdd.toDF().registerAsTable("tweets")
   rdd.toDF().registerTempTable("tweets")
)
twt.print
ssc.start()
LSE, PROTILELIMAGEORIE HITTP://PDS.TWLING.COM/PROTILE_LIMAGES/133/334C0631W0031W072AC2GCETT_HORMIGAL
pg', profileImageUrlHttps='https://pbs.twimg.com/profile_images/799739268310663169/2Z3GcEYt_ňo
rmal.jpg', isDefaultProfileImage=false, url='http://PSNProfiles.com/Nemesis_WM', isProtected=f
```

alse, Tollowerscount=701, Status=Null, profileBackgroundcolor=131310, profileIextcolor=3333 3', profileLinkColor='4A913C', profileSidebarFillColor='EFEFEF', profileSidebarBorderColor='E EEEEE', profileUseBackgroundImage=true, isDefaultProfile=false, showAllInlineMedia=false, frie ndsCount=760, createdAt=Tue May 10 09:42:52 EDT 2011, favouritesCount=2732, utcOffset=-7200, t imeZone='Brasilia', profileBackgroundImageUrl='http://pbs.twimg.com/profile_background_images/418806401/bioshock11.jpg', profileBackgroundImageUrlHttps='https://pbs.twimg.com/profile_background_images/418806401/bioshock11.jpg', profileBackgroundTiled=true, lang='pt', statusesCount=131929, isGeoEnabled=true, isVerified=false, translator=false, listedCount=0, isFollowRequestSent=false, withheldInCountries=null}, withHeldInCountries=null, quotedStatusId=-1, quotedStatus=null}

StatusJSONImpl{createdAt=Thu Jan 26 19:16:57 EST 2017, id=824773152085467137, text='16時間寝た脳みそ溶けそう', source='Twitter for iPhone', isTruncated=false, inReplyToStatusId=-1, inReplyToUserId=-1, isFavorited=false, isRetweeted=false, favoriteCount=0, inReplyToScreenName='null', geoLocation=null, place=null, retweetCount=0, isPossiblySensitive=false, lang='ja', contributorsIDs=[], retweetedStatus=nul

Took 2 sec. Last updated by anonymous at January 26 2017, 6:56:48 PM.



createdAt

1,485,475,359

val positive = Array("like", "love", "good", "great", "happy", "cool", "the", "one", "that val negative = Array("hate", "bad", "stupid", "is")

Sentiment Analysis Untitled Un

```
positive.foreach(p =>
Zepperin(w =>
t(p==w) st = st+:
```

Sentiment Analysis

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    ▷
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    Ø
    ♣
    II
    <td
```

```
negative.foreach(p=>
         words.foreach(w=>
              if(p==w) st = st-1
     if(st>0)
          "positivie"
     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
res21: org.apache.spark.sql.expressions.UserDefinedFunction = UserDefinedFunction(<function1>,
StringType,Some(List(StringType)))
Took 2 sec. Last updated by anonymous at January 26 2017, 7:05:40 PM.
```

http://localhost:8080/#/notebook/2CA35A31H

