

Twitter Sentiment A...



default ▾

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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
import scala.io.Source
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import java.io.File
import org.apache.log4j.Logger
import org.apache.log4j.Level
import sys.process.StringSeqToProcess
```

Took 21 sec. Last updated by anonymous at January 26 2017, 7:06:56 PM.

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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 2 sec. Last updated by anonymous at January 26 2017, 7:07:01 PM.

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```
// Configure Twitter credentials
val apiKey = "yCOVn8xTNa08J1iotY8MchWce"
val apiSecret = "LOtYS5XP5IvCbHJZvMA8TTdUhMb2FYTDDBa8IYrwyQJWJaZ8cj"
val accessToken = "273063041-gSEiWLVtMuJKVW5NVExgek7ZUIpHY0enPkohJPK6"
```

Twitter Sentiment A

```
apikey: String = yCOVn8xTNa08J1iotY8MchWce
apiSecret: String = L0tYS5XP5IvCbHJZvMA8TTdUhMb2FYTDDBa8IYrwYQJWJaZ8cj
accessToken: String = 273063041-gSEiwlVtMuJKVW5NVExgek7ZUIpHY0enPkohJPK6
accessTokenSecret: String = 5YIMg7b10Hpsv9LVVn0oP06lvu5ACnu4WH5mVRZzlZPWk
Configuring Twitter OAuth
    Property twitter4j.oauth.consumerKey set as [yCOVn8xTNa08J1iotY8MchWce]
    Property twitter4j.oauth.accessToken set as [273063041-gSEiwlVtMuJKVW5NVExgek7ZUIpHY0enPkohJPK6]
    Property twitter4j.oauth.consumerSecret set as [L0tYS5XP5IvCbHJZvMA8TTdUhMb2FYTDDBa8IYrwYQJWJaZ8cj]
    Property twitter4j.oauth.accessTokenSecret set as [5YIMg7b10Hpsv9LVVn0oP06lvu5ACnu4WH5mVRZzlZPWk]
```

Took 2 sec. Last updated by anonymous at January 26 2017, 7:07:06 PM.

```
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))
```

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```
import org.apache.spark.streaming.twitter._
ssc: org.apache.spark.streaming.StreamingContext = org.apache.spark.streaming.StreamingContext
@86d658a
tweets: org.apache.spark.streaming.dstream.ReceiverInputDStream[twitter4j.Status] = org.apach
e.spark.streaming.twitter.TwitterInputDStream@214b09c9
tw: org.apache.spark.streaming.dstream.DStream[twitter4j.Status] = org.apache.spark.streamin
g.dstream.WindowedDStream@5ed0d9f5
```

Took 2 sec. Last updated by anonymous at January 26 2017, 7:07:12 PM.

```
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().registerTempTable("tweets")
)
```

FINISHED    

```
defined class Tweet
warning: there was one deprecation warning; re-run with -deprecation for details
```

Took 2 sec. Last updated by anonymous at January 26 2017, 7:07:24 PM.

```
twit.print
```

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Took 0 sec. Last updated by anonymous at January 26 2017, 7:07:27 PM.

Zeppelin

Twitter Sentiment Analysis

... ou... bs.twimg.com/images/themes/theme1/bg.png', profileBackgroundImageU...
om/images/themes/theme1/bg.png', profileBackgroundTiled=false, lang='pt', statusesCount=65, is...
e, withheldInCountries=null}, withheldInCountries=null, quotedStatusId=-1, quotedStatus=null},
userMentionEntities=[UserMentionEntityJSONImpl{name='Aconteceu', screenName='AconteceuFatos',
id=2832255200}], urlEntities=[], hashtagEntities=[], mediaEntities=[], symbolEntities=[], cur...
rentUserRetweetId=-1, user=UserJSONImpl{id=722766381637308416, name='Ravenna', screenName...
'EsthefanyErika', location='NÃO É DA SUA CONTA !!', description='MEU FECHAMENTO É VC @EitaNan...
ah!!', isContributorsEnabled=false, profileImageUrl='http://pbs.twimg.com/profile_images/82188...
1638061834241/E3D2ht48_normal.jpg', profileImageUrlHttps='https://pbs.twimg.com/profile_image...
s/821881638061834241/E3D2ht48_normal.jpg', isDefaultProfileImage=false, url='null', isProtecte...
d=false, followersCount=121, status=null, profileBackgroundColor='000000', profileTextColor='0...
00000', profileLinkColor='981CEB', profileSidebarFillColor='000000', profileSidebarBorderColor...
='000000', profileUseBackgroundImage=false, isDefaultProfile=false, showAllInlineMedia=false,
friendsCount=240, createdAt=Wed Apr 20 08:38:28 EDT 2016, favouritesCount=342, utcOffset=-1,
timeZone='null', profileBackgroundImageUrl='http://abs.twimg.com/images/themes/theme1/bg.pn...
g', profileBackgroundImageUrlHttps='https://abs.twimg.com/images/themes/theme1/bg.png', profil...

Took 1 sec. Last updated by anonymous at January 26 2017, 7:07:31 PM.

%sql select * from tweets where text like '%trump%' limit 10

FINISHED

| createdAt | text |
|---------------|---|
| 1,485,475,781 | RT @MaximusTheRuler: What? #crazy #trump https://t.co/uYEr57avfr |
| 1,485,475,794 | RT @VicenteFoxQue: @ajplus @DeniseDresserG trump, I want to see your tax returnsjj |
| 1,485,475,798 | RT @JordanUhl: rt if trump needs to stop talking about his inauguration crowd size |
| 1,485,475,803 | @MAGATrump5 Was Hardiman on Trump's list? |
| 1,485,475,816 | RT @princessjarii: trump wants to build a mexican border but wants Mexico to pay for |
| 1,485,475,821 | @realDonaldTrump @MiamiHerald go trump! |
| 1,485,475,825 | RT @nia4_trump: #climatefacts George Soros paid Al Gore MILLIONS to push junk sci |
| 1,485,475,828 | RT @NaYaKnoMi: all you celebrities that claim you are against trump re-tweet, rephras |

Took 1 sec. Last updated by anonymous at January 26 2017, 7:10:42 PM.

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

FINISHED

| createdAt |
|---------------|
| 1,485,475,668 |

Took 1 sec. Last updated by anonymous at January 26 2017, 7:10:42 PM.

Zeppelin

1,485,475,669

Twitter Sentiment A...

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1,485,475,671

1,485,475,672

1,485,475,673

1,485,475,674

Took 4 sec. Last updated by anonymous at January 26 2017, 7:08:54 PM.

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```
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"
}
```

sentiment: (s: String)String

Took 1 sec. Last updated by anonymous at January 26 2017, 7:09:03 PM.

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```
sqlc.udf.register("sentiment", sentiment _)
```

```
res14: org.apache.spark.sql.expressions.UserDefinedFunction = UserDefinedFunction(<function1>,
StringType,Some(List(StringType)))
```

Took 1 sec. Last updated by anonymous at January 26 2017, 7:09:13 PM.

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

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~~neutral~~



default ▼

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