

```
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 21 sec. Last updated by anonymous at January 26 2017, 8:39:26 PM.

```
/** 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, "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()
}
```

FINISHED ▷ ⌵ 📖 ⚙️

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

Took 3 sec. Last updated by anonymous at January 26 2017, 8:39:31 PM.

```
// Configure Twitter credentials
val apiKey = "bLXY4r0UzTqrmthbDm0md3Zkd"
val apiSecret = "MP13tycZZnTgrORvTNfYVgSEMygQrIXDKu8zjjLH1xGnnJMu71"
val accessToken = "2254153902-Upm6MWs4ouIQ1z9N3p5IYWYA9PsbrDijou97NGs"
val accessTokenSecret = "Hnwc5PzXiMogl99wuDMGG2v6adpu7NiIe1THiNWIm812a"
configureTwitterCredentials(apiKey, apiSecret, accessToken, accessTokenSecret)
```

FINISHED ▷ ⌵ 📖 ⚙️

```
apiKey: String = bLXY4r0UzTqrmthbDm0md3Zkd
apiSecret: String = MP13tycZZnTgr0RvTNfYVgSEMygQrIxDKu8zjjLH1xGnnJMu71
accessToken: String = 2254153902-Upm6MWS4ouIQ1z9N3p5IYWYa9PsbrDijou97NGs
accessTokenSecret: String = Hnwc5PzXiMog199wuDMGG2v6adpu7NiIe1THiNWIm812a
Configuring Twitter OAuth
  Property twitter4j.oauth.consumerKey set as [bLXY4r0UzTqrmthbDm0md3Zkd]
  Property twitter4j.oauth.accessToken set as [2254153902-Upm6MWS4ouIQ1z9N3p5IYWYa9PsbrDijou97NGs]
  Property twitter4j.oauth.consumerSecret set as [MP13tycZZnTgr0RvTNfYVgSEMygQrIxDKu8zjjLH1xGnnJMu71]
  Property twitter4j.oauth.accessTokenSecret set as [Hnwc5PzXiMog199wuDMGG2v6adpu7NiIe1THiNWIm812a]
```

Took 3 sec. Last updated by anonymous at January 26 2017, 8:41:01 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))
```

```
import org.apache.spark.streaming.twitter._
ssc: org.apache.spark.streaming.StreamingContext = org.apache.spark.streaming.StreamingContext@14e2b34
tweets: org.apache.spark.streaming.dstream.ReceiverInputDStream[twitter4j.Status] = org.apache.spark.streaming.twitter.TwitterInputDStream@407be6ce
twt: org.apache.spark.streaming.dstream.DStream[twitter4j.Status] = org.apache.spark.streaming.dstream.WindowedDStream@3af7f891
```

Took 2 sec. Last updated by anonymous at January 26 2017, 8:41:17 PM.

FINISHED ▶ ⌕ 📖 ⚙

```
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")
)

twt.print

ssc.start()
```

1/26/2017localhost:8080/#/notebook/2C76JTTJA

itter web client', isTruncated=false, inReplyToStatusId=-1, inReplyToUserId=-1, isFavorite=false, isRetweeted=false, favoriteCount=0, inReplyToScreenName='null', geoLocation=null, place=null, retweetCount=0, isPossiblySensitive=false, lang='tr', contributorsIDs=[], retweetedStatus=StatusJSONImpl{createdAt=Thu Jan 26 20:39:50 EST 2017, id=824794010392801280, text='#izmi reskort Nilay 23 yaşında ZİRVE! %100 Gerçek! Ev ve otellere geliyor. Whatsapp:0546 934 0517 #escortizmir https://t.co/I8sHYuuHIId', source='Twitter Web Client', isTruncated=false, inReplyToStatusId=-1, inReplyToUserId=-1, isFavorite=false, isRetweeted=false, favoriteCount=1396, inReplyToScreenName='null', geoLocation=null, place=null, retweetCount=1400, isPossiblySensitive=false, lang='tr', contributorsIDs=[], retweetedStatus=null, userMentionEntities=[], urlEntities=[], hashtagEntities=[HashtagEntityJSONImpl{id=824226751496777728, url=https://t.co/I8sHYuuHIId, mediaURL=http://pbs.twimg.com/media/C3A93RFW8AA5hbj.jpg, mediaURLHttps=https://pbs.twimg.com/media/C3A93RFW8AA5hbj.jpg, expandedURL=https://twitter.com/mixizmi reskort/status/824226910792192000/photo/1, displayURL='pic.twitter.com/I8sHYuuHIId', sizes={0=Size{width=150, height=150, resize=101}, 1=Size{width=679, height=680, resize=100}, 2=Size{width=1194, height=1195, resize=100}, 3=Size{width=1194, height=1195, resize=100}}, type=photo}], symbolEntities=[], currentUserRetweetId=-1, user=UserJSONImpl{id=795835965201903616, name='Escort Mix', screenName='escortmix50', location='null', description=

Twitterizmi reskort1HashtagEntityJSONImpl{text='escortizmir'}}], mediaEntities=[MediaEntityJSONImpl{id=824226751496777728, url=https://t.co/I8sHYuuHIId, mediaURL=http://pbs.twimg.com/media/C3A93RFW8AA5hbj.jpg, mediaURLHttps=https://pbs.twimg.com/media/C3A93RFW8AA5hbj.jpg, expandedURL=https://twitter.com/mixizmi reskort/status/824226910792192000/photo/1, displayURL='pic.twitter.com/I8sHYuuHIId', sizes={0=Size{width=150, height=150, resize=101}, 1=Size{width=679, height=680, resize=100}, 2=Size{width=1194, height=1195, resize=100}, 3=Size{width=1194, height=1195, resize=100}}, type=photo}], symbolEntities=[], currentUserRetweetId=-1, user=UserJSONImpl{id=795835965201903616, name='Escort Mix', screenName='escortmix50', location='null', description=

Took 4 sec. Last updated by anonymous at January 26 2017, 8:41:38 PM.

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

FINISHED

createdAt

text

1,485,481,375

@dumptrump33 Well he's definitely not getting a tip.

Took 1 sec. Last updated by anonymous at January 26 2017, 8:43:01 PM.

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

FINISHED

http://localhost:8080/#/notebook/2C76JTTJA

3/5

createdAt	count(1)
1,485,481,335	2
1,485,481,336	48
1,485,481,337	46
1,485,481,338	42
1,485,481,339	18
1,485,481,340	47
1,485,481,341	52
1,485,481,342	46
1,485,481,343	44

Took 5 sec. Last updated by anonymous at January 26 2017, 8:43:21 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;

  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"
}

// 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
res11: org.apache.spark.sql.expressions.UserDefinedFunction = UserDefinedFunction(<function1>,
StringType,Some(List(StringType)))

Took 2 sec. Last updated by anonymous at January 26 2017, 8:43:37 PM.
```

0/ FINISHED



UDF(text)	count(1)
neutral	3



Twitter



default ▼

Took 3 sec. Last updated by anonymous at January 26 2017, 8:43:56 PM.

READY ▶ ⌕ 📖 ⚙️