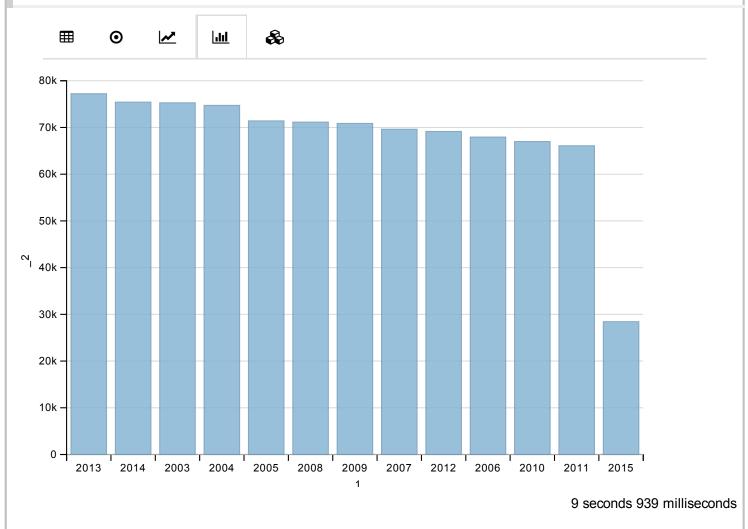
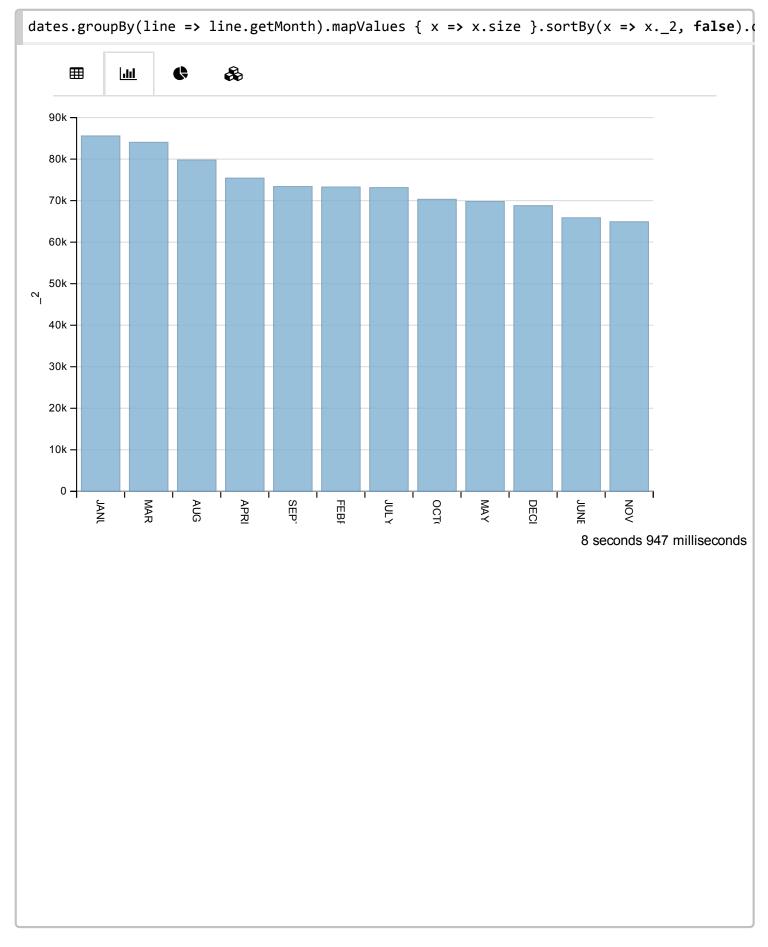
SFC

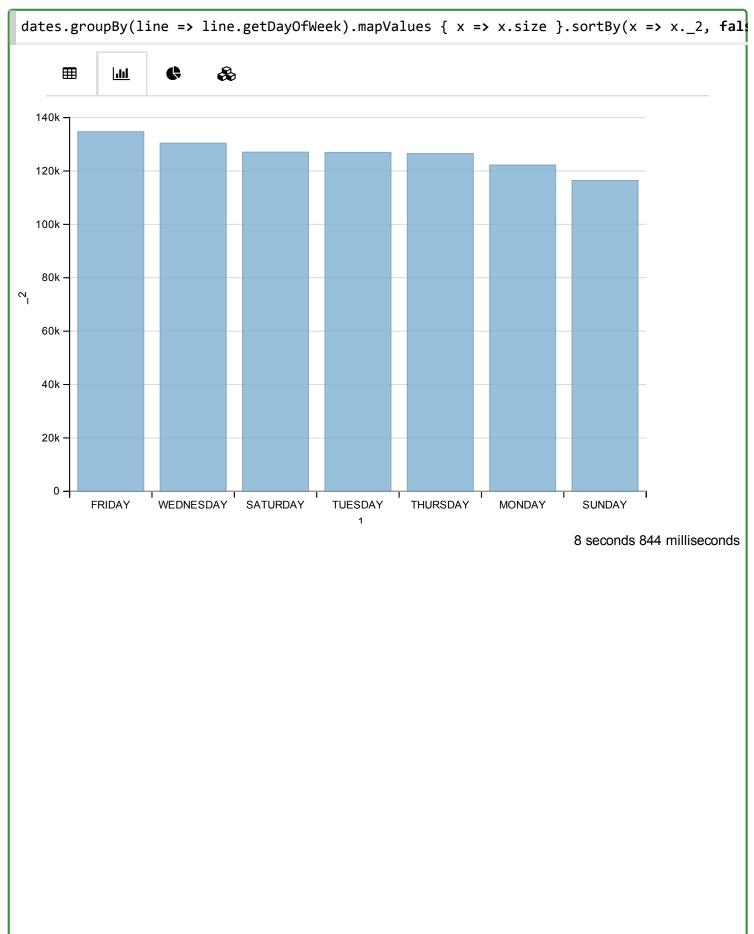
```
val rdd = sparkContext.textFile("sfc/test.csv")
val descriptionIndex = rdd.first.split(",").zipWithIndex
val rows = rdd.filter(x => !x.startsWith("Id"))
//rows.first.split(",").zipWithIndex
val samples3 = rows.takeSample(true, 3)
```

2 seconds 466 milliseconds

import java.time._
import java.time.format._
case class StaticRed(year: Int, BRYANT_ST: Int, MARKET_ST: Int, MISSION_ST: Int, POTRERO
val dates = splits.map(x => LocalDateTime.parse(x(1), DateTimeFormatter.ofPattern("yyyy-N
dates.groupBy(line => line.getYear).mapValues { x => x.size }.sortBy(x=>x._2, false).coll
//dates.groupBy(line => line.getYear).mapValues(x => x.size).map(x => x.swap).sortByKey()







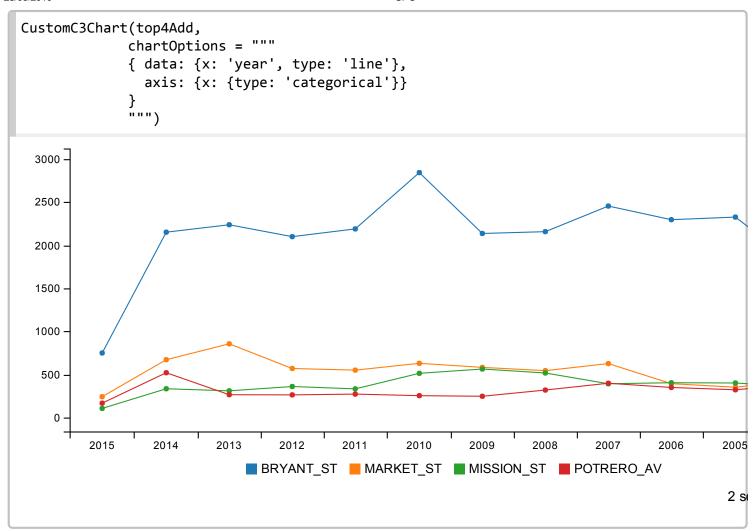
```
case class BlkCrime(blkName: String, crimeNum: Int)
val splits = rows.map(x => x.split(","))
val topCrAdd = splits.map { x => (x(4), 1) }.reduceByKey((x, y) => (x + y)).sortBy(x=>x.]
val top10CrimeBlk = topCrAdd.map{case (blkName, crimeNum) => BlkCrime(blkName, crimeNum)]
3 seconds 270 milliseconds
```

```
CustomC3Chart(top10CrimeBlk,
                chartOptions = """
                { data: {x: 'blkName', type: 'bar'},
                  axis: {x: {type: 'categorical'}}
25000 -
20000 -
 15000
 10000 -
 5000
         800 Block
                      800 Block
                                  2000 Block
                                               1000 Block
                                                            0 Block of
                                                                         900 Block
                                                                                     0 Block of
                                                                                                  300 Block
         of BRYANT
                     of MARKET
                                  of MISSION
                                              of POTRERO
                                                            TURK ST
                                                                        of MARKET
                                                                                      6TH ST
                                                                                                 of ELLIS ST
                                                            crimeNum
            ST
                         ST
                                                  ΑV
                                                                                                             1
```

```
import java.time._
import java.time.format.
case class StaticRed(year: Int, BRYANT ST: Int, MARKET ST: Int, MISSION ST: Int, POTRERO
val top4AddNames = topCrAdd.map(x => x._1).collect().take(4).toList
val adds = splits.map(x => (x(4).trim,
                             LocalDateTime.parse(x(1), DateTimeFormatter.ofPattern("yyyy-N
                             getYear))
//adds.map(x \Rightarrow (x, 1)).reduceByKey((x, y) \Rightarrow (x+y)).map(x \Rightarrow (x._1._1, x._1._2, x._2)).s
val top4Add = adds.filter(x => x._1.startsWith(top4AddNames(0)) ||
            x. 1.startsWith(top4AddNames(1)) | |
           x. 1.startsWith(top4AddNames(2)) | |
           x. 1.startsWith(top4AddNames(3)))
.map(x => (x, 1)).reduceByKey((x, y) => (x+y)).map(x => (x._1._2, (x._1._1, x._2)))
.groupByKey().sortByKey(false).mapValues(x => x.toMap)
.map{case (year, map) => StaticRed(year, map(top4AddNames(0)),
                                    map(top4AddNames(1)),
                                    map(top4AddNames(2)),
                                    map(top4AddNames(3)))}.collect
//.map(x \Rightarrow (x._1, x._2.toList(0)._3, x._2.toList(1)._3))
//.map{case (year, list) => StaticRed(year, list.toList(0). 3, list.toList(1). 3)}
//top4Add.take(12)
```

5 seconds 842 milliseconds

```
CustomC3Chart(top4Add,
              chartOptions = """
              { data: {x: 'year', type: 'bar'},
                axis: {x: {type: 'categorical'}}
              }
""")
 3000 -
 2500
 2000 -
 1500 -
 1000 -
  500
                          2013
                                            2011
                                                     2010
                                                             2009
                                                                      2008
                                                                               2007
                                                                                        2006
                  2014
                                   2012
                                                                                                 2005
                               ■ BRYANT_ST ■ MARKET_ST ■ MISSION_ST ■ POTRERO_AV
                                                                                                 2 s
```



Build: | buildTime-Thu Mar 17 12:12:20 UTC 2016 | formattedShaVersion-0.6.3-61efca56c2a45613ec609f350dc4911b166b3f28-SNAPSHOT | sbtVersion-0.13.8 | scalaVersion-2.10.5 | sparkNotebookVersion-0.6.3 | hadoopVersion-2.7.2 | jets3tVersion-0.7.1 | jlineDef-(org.scalalang, 2.10.5) | sparkVersion-1.6.1 | withHive-true | withParquet-true |.

Spark Job Progress open SparkUI (http://192.168.56.1:4040)

Terms defined

Name	Туре
res3	Array[(String, Int)]
res6	Array[String]
myDateFormat	java.time.format.DateTi
res8	java.time.LocalDateTim
4	,

Chat Room

Choose an alias

Type your message...