SFC

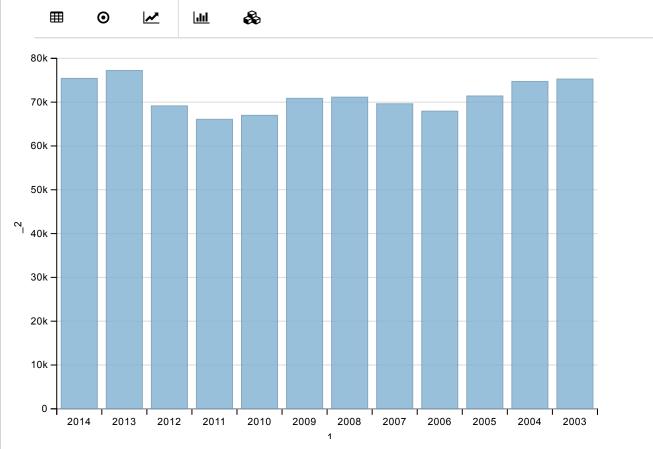
```
val rdd = sparkContext.textFile("sfc/test.csv")
//val descriptionIndex = rdd.first.split(",").zipWithIndex
val rows = rdd.mapPartitionsWithIndex{ (idx, iter) => if (idx == 0) iter.drop(1) else iter }.maples3 = rows.takeSample(true, 3)
```

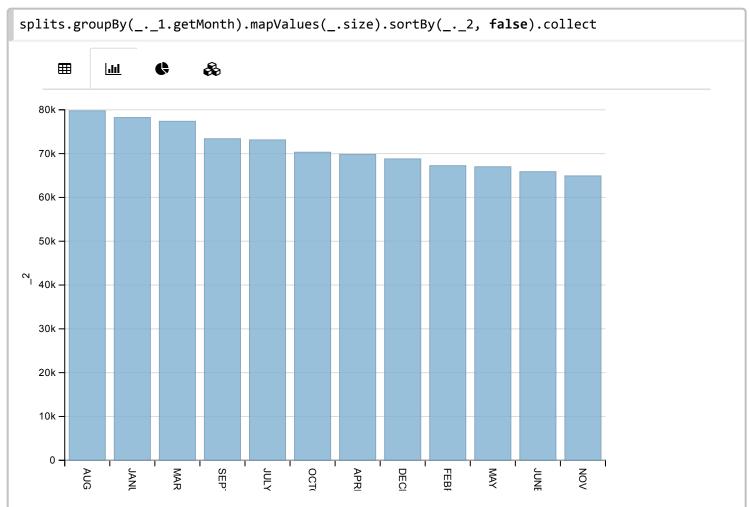
//rows.first.split(",").zipWithIndex

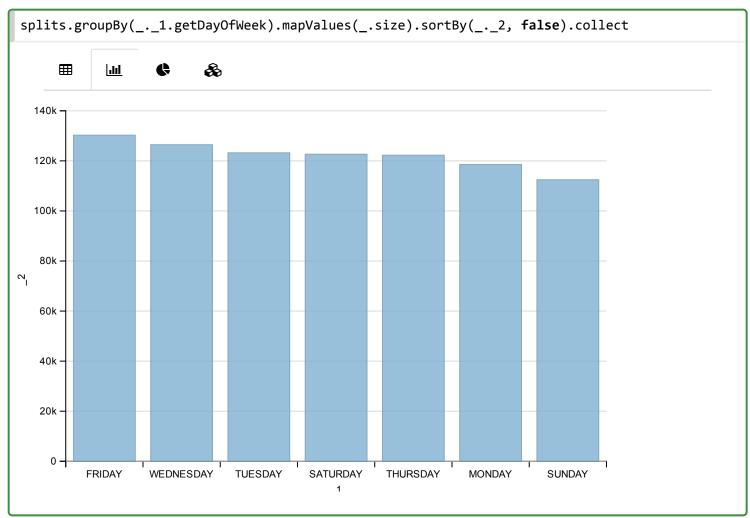
```
import java.time._
import java.time.format._

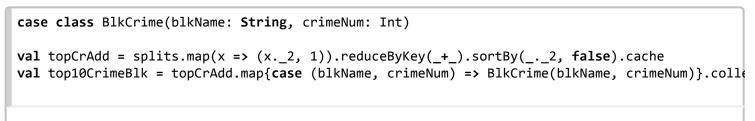
val splits = rows
    .map(x => (LocalDateTime.parse(x(1), DateTimeFormatter.ofPattern("yyyy-MM-dd kk:mm:ss")),
    .filter(_._1.getYear != 2015).cache

splits.groupBy(_._1.getYear).mapValues(_.size).sortBy(_._1, false).collect
//dates.groupBy(line => line.getYear).mapValues(x => x.size).map(x => x.swap).sortByKey().collect
```





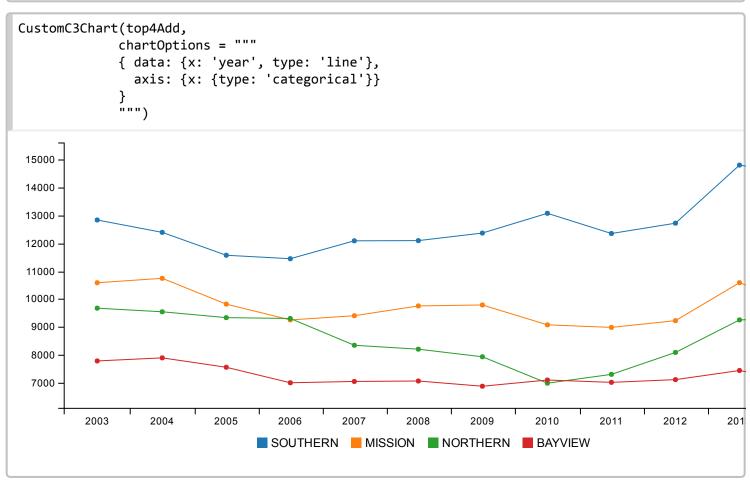




```
CustomC3Chart(top10CrimeBlk,
               chartOptions = """
               { data: {x: 'blkName', type: 'bar'},
                 axis: {x: {type: 'categorical'}}
               ·"")
 160000 -
 140000 -
 120000 -
 100000
  80000 -
  60000 -
  40000 -
  20000
     0 -
                                                                   TENDERLOIN INGLESIDE
                      MISSION
                                 NORTHERN
                                             BAYVIEW
                                                        CENTRAL
                                                        crimeNum
```

```
import java.time.
import java.time.format.
case class StaticRed(year: Int, SOUTHERN: Int, MISSION: Int, NORTHERN: Int, BAYVIEW: Int)
val top4AddNames = topCrAdd.map( . 1).collect().take(4).toList
val adds = splits.map(x => (x. 2.trim, x. 1.getYear))
//adds.map(x => (x, 1)).reduceByKey((x, y) => (x+y)).map(x => (x._1._1, x._1._2, x._2)).sortBy(x, y)
def matchAdd(input:String):Boolean = {
  for(add <- top4AddNames) {if(input.equals(add)) return true}</pre>
  false
}
val top4Add = adds.filter(x => matchAdd(x._1))
          .map(x => (x, 1)).reduceByKey((x, y) => (x+y)).map(x => (x._1._2, (x._1._1, x._2)))
          .groupByKey().mapValues(x => x.toMap)
          .map{case (year, map) => StaticRed(year, map(top4AddNames(0)),
                                              map(top4AddNames(1)),
                                              map(top4AddNames(2)),
                                              map(top4AddNames(3)))}
          .sortBy(_.year).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)
```

```
CustomC3Chart(top4Add,
             chartOptions = """
              { data: {x: 'year', type: 'bar'},
                axis: {x: {type: 'categorical'}}
             }
""")
16000 🗏
14000
12000
10000
 8000
 6000
 4000
 2000
    0 -
         2003
                  2004
                           2005
                                    2006
                                             2007
                                                      2008
                                                                                          2012
                                                                                                   201
                                 SOUTHERN MISSION NORTHERN BAYVIEW
```



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://169.254.215.57:4040)

Terms defined

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