

## GROKIT ASSIGNMENT

### Query Executed

#### Code

```
library(gtBase)
library(nanex)

data <- Read(nanex_trades) [Symbol == "AAPL"]

agg <- Segmenter(
  GroupBy(data,
    group=c(Date,MsOfDay),
    count=Count()
  ));

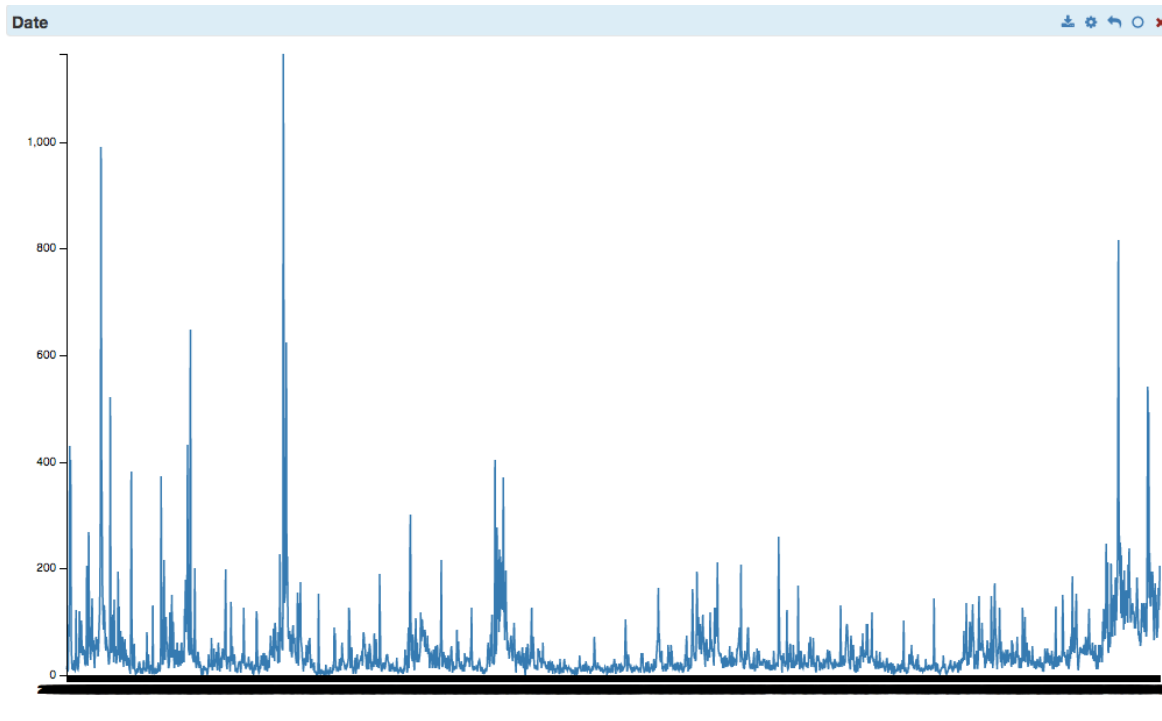
agg <- OrderBy(agg, dsc(count), limit=100000);

View(agg)
```

**Time Taken 573.92 seconds.**

## Results

### 2D Line Chart for Date versus Transaction Count



#### Related Explanation:

The highest peak is indicative of the day when the highest transaction was found. For apple, it was the day when first iPhone was launched.

It accounts to the following data

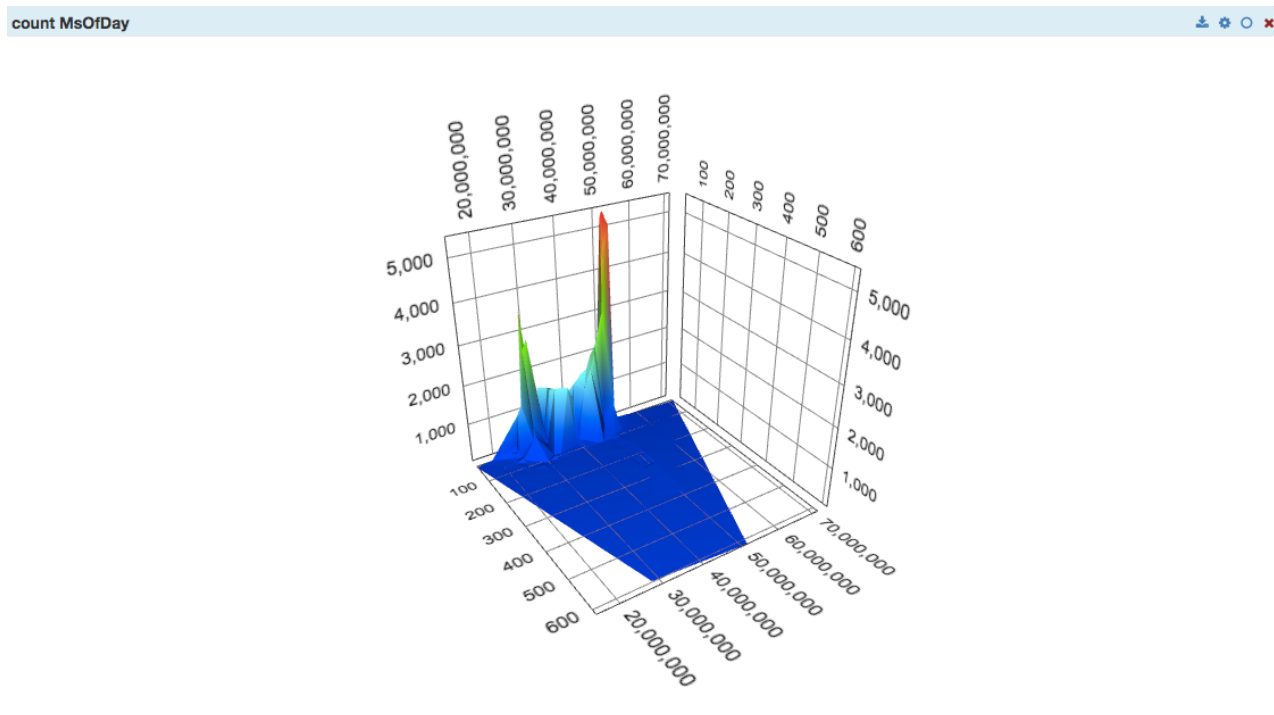
Date: 2007-01-09

MsOfDay: 47,940,535

Count: 1,165

count: 35

### 3D Surface view between transaction count and millisecond of day



Related Explanation: Two spikes indicating maximum transactions are prominent in the above 3D Surface view. One of spike is evident when the market opens (30,000,000) while the other is evident when the market closes (50,000,000).

### Front view for 3D Surface view between transaction count and millisecond of day

Related Explanation: During the middle hour ( close to 4,000,000 ), there comes a time when trading is the lowest.

