

# 608\_Final\_Project

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*May 17, 2015*

```
## Warning: package 'ggplot2' was built under R version 3.1.3
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```
## Warning: package 'lattice' was built under R version 3.1.3
```

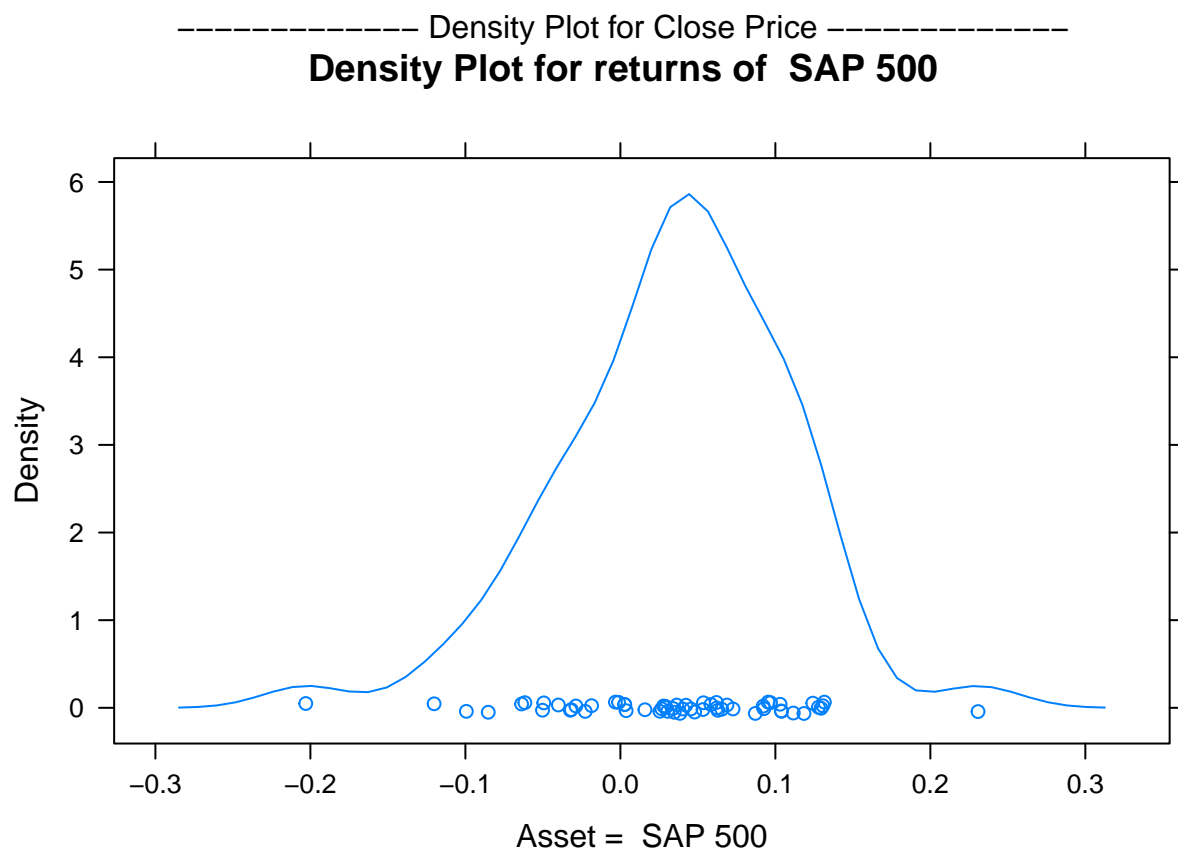
## Assumptions:

We use the closing price of the SAP 500 index for our calculations.

```
##      Date    Open    High    Low    Close    Volume Adj.Close Year
## 838 2011-12-30 1262.82 1264.12 1257.46 1257.60 2271850000 1257.60 2011
## 839 2011-12-29 1249.75 1263.54 1249.75 1263.02 2278130000 1263.02 2011
## 840 2011-12-28 1265.38 1265.85 1248.64 1249.64 2349980000 1249.64 2011
## 841 2011-12-27 1265.02 1269.37 1262.30 1265.43 2130590000 1265.43 2011
## 842 2011-12-23 1254.00 1265.42 1254.00 1265.33 2233830000 1265.33 2011
## 843 2011-12-22 1243.72 1255.22 1243.72 1254.00 3492250000 1254.00 2011
##      Month Day
## 838     12  30
## 839     12  29
## 840     12  28
## 841     12  27
## 842     12  23
## 843     12  22
```

## Assumptions:

For calculations on the prices for an index such as the SAP 500 Index, it is assumed that the prices are normally distributed. The plot below shows the distribution of the Close price for the SAP 500 index from 1953 to 2012. You can see that the plot roughly represent a normal distribution.



## NULL