

Data Appendix

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December 14, 2023

The following data summarizes the properties of the collected data and variables. All data is from either the Bloomberg or Yahoo finance. There is total 161 observation.

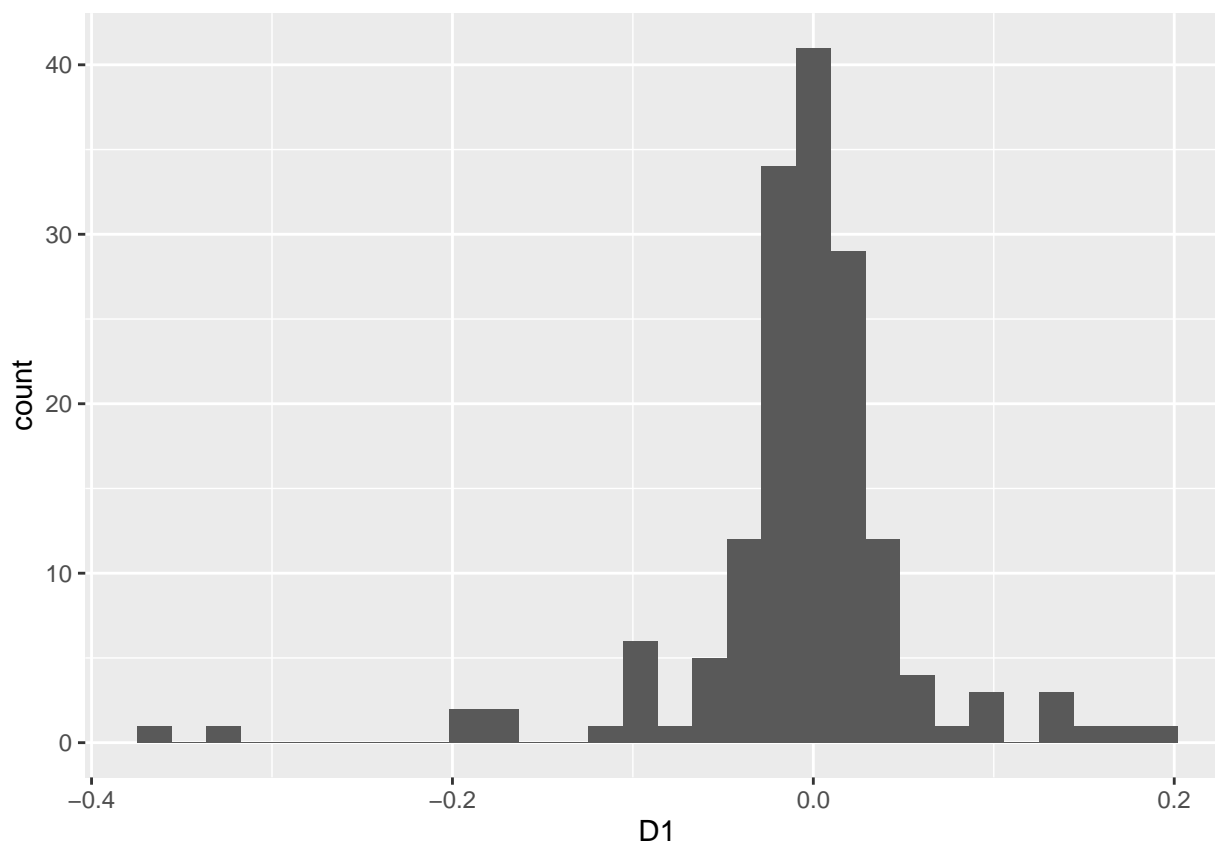
```
##
## Table 1: Summary Statistics
## =====
## Statistic   N    Mean  St. Dev.  Min    Max
## -----
## D1          161 -0.007   0.066   -0.374  0.183
## D2          161  0.005   0.058   -0.266  0.216
## D3          161  0.003   0.036   -0.136  0.133
## D5          161  0.003   0.031   -0.071  0.145
## D10         161  0.007   0.438   -3.784  1.025
## D20         161  0.002   0.025   -0.088  0.101
## Beta        161  1.155   0.400    0.082  2.519
## M1          161  0.002   0.008   -0.018  0.019
## M2          161  0.003   0.010   -0.017  0.019
## M3          161  0.0003  0.010   -0.017  0.019
## M5          161  0.002   0.009   -0.017  0.019
## M10         161  0.001   0.009   -0.020  0.019
## M20         155  0.002   0.005   -0.015  0.013
## -----
```

D1~20: Return of a stock on Day 1~20 of earning report release M1~20: Return of the market on Day 1~20

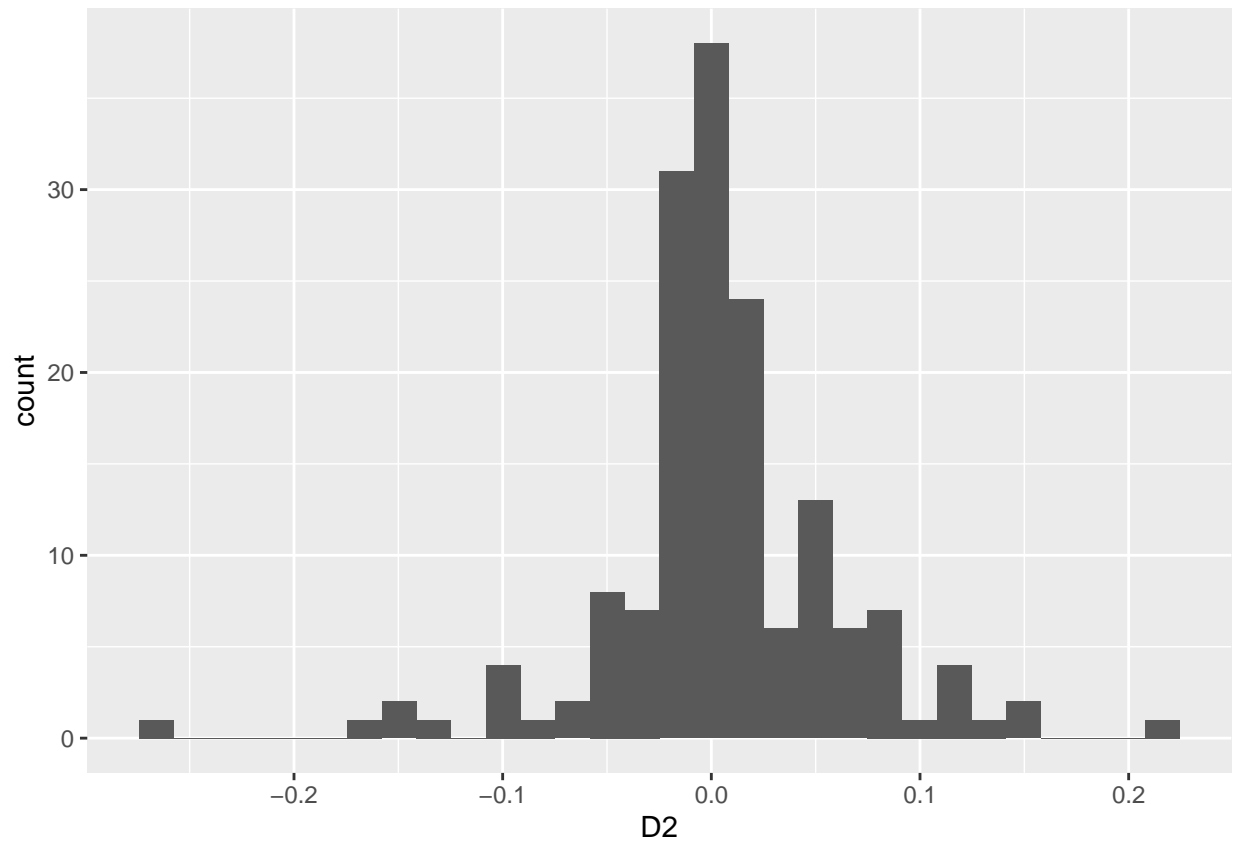
of earning report release Beta:the linear relationship of the stock related to the market based on historical data Dnews – News Categories — Extremely Bad/Bad/No News/Good/Extremely Good

Now we want to see the stock return's normal distribution.

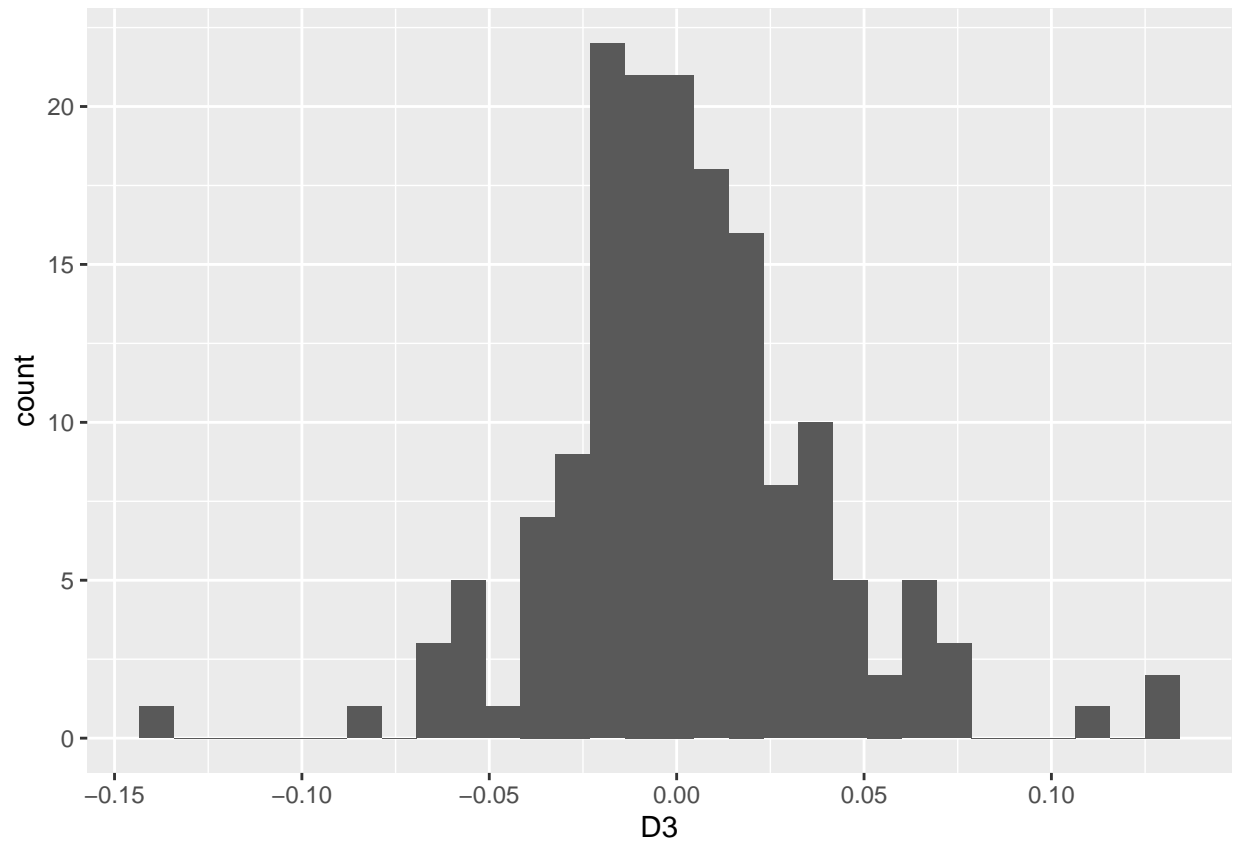
```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```



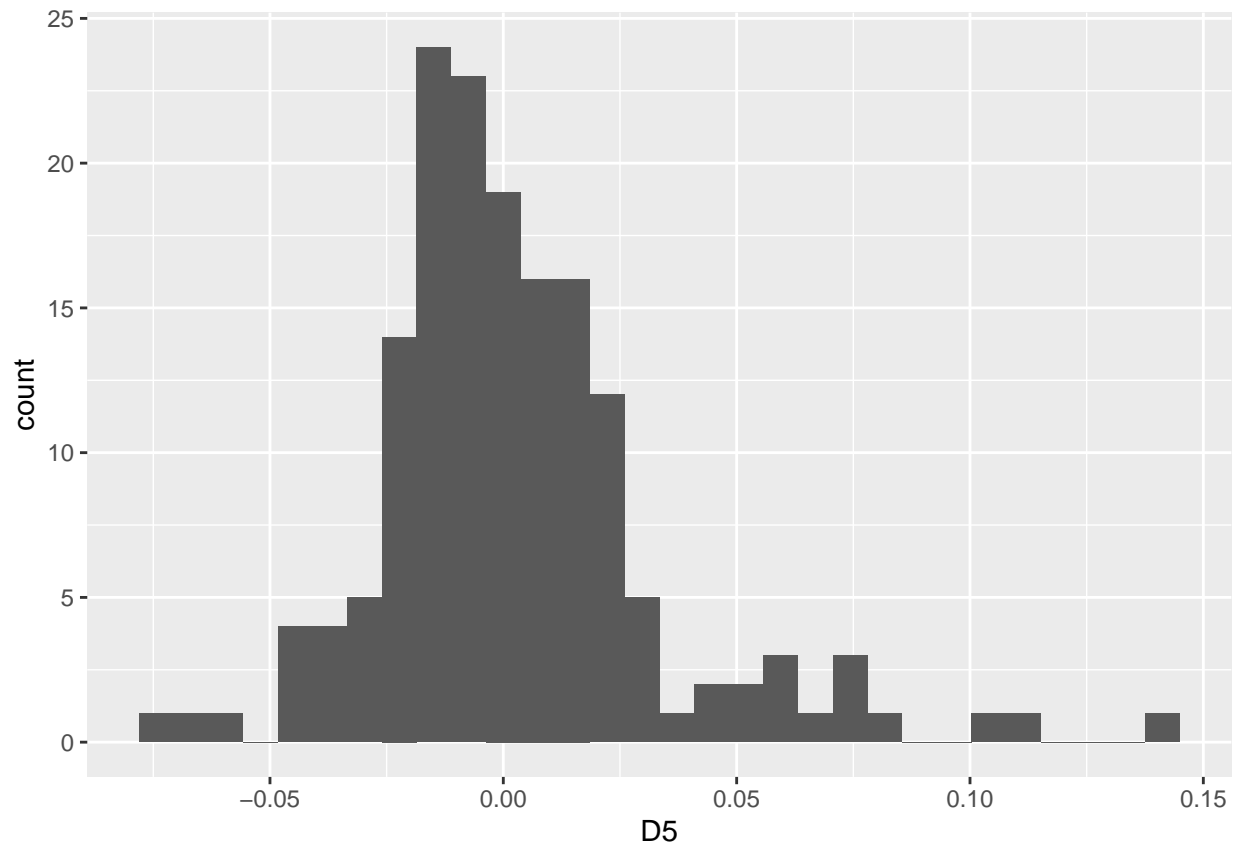
```
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```



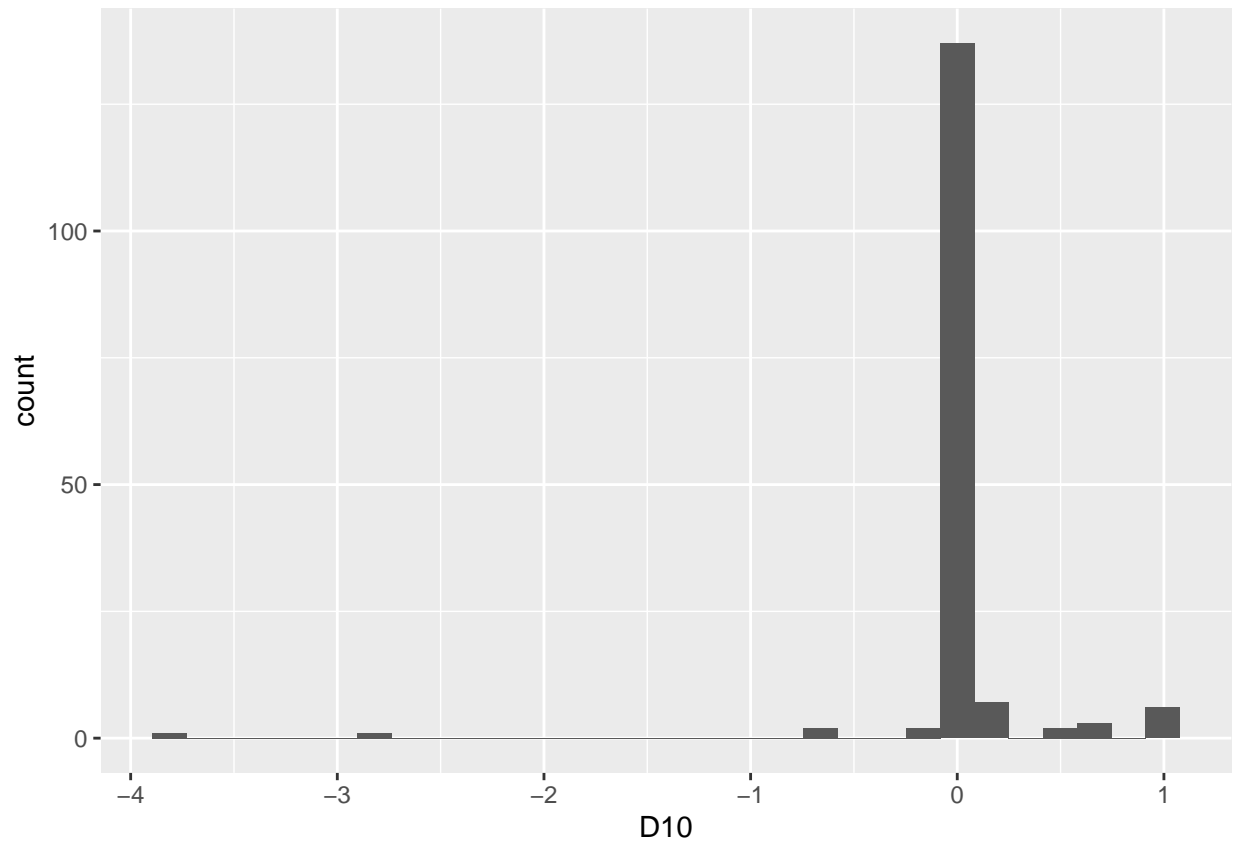
```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```



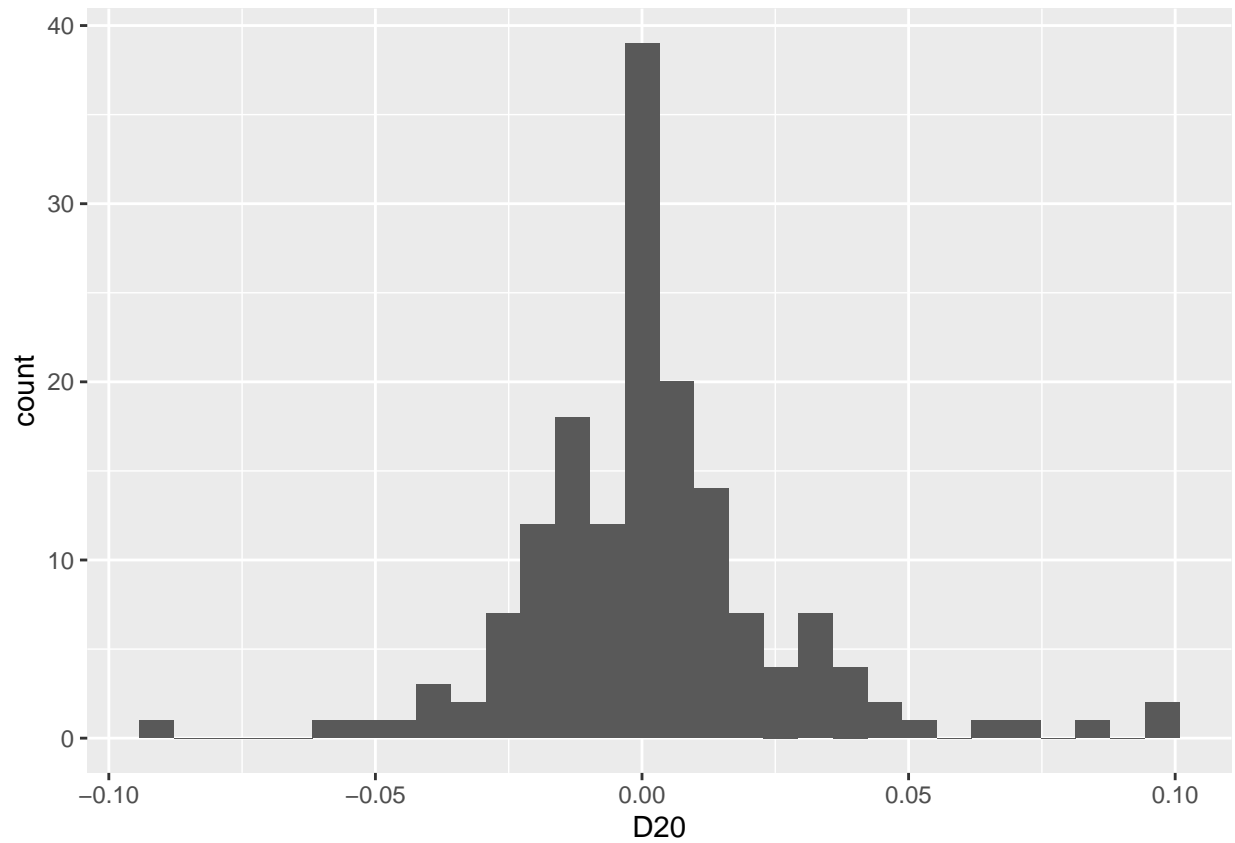
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```



```
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```

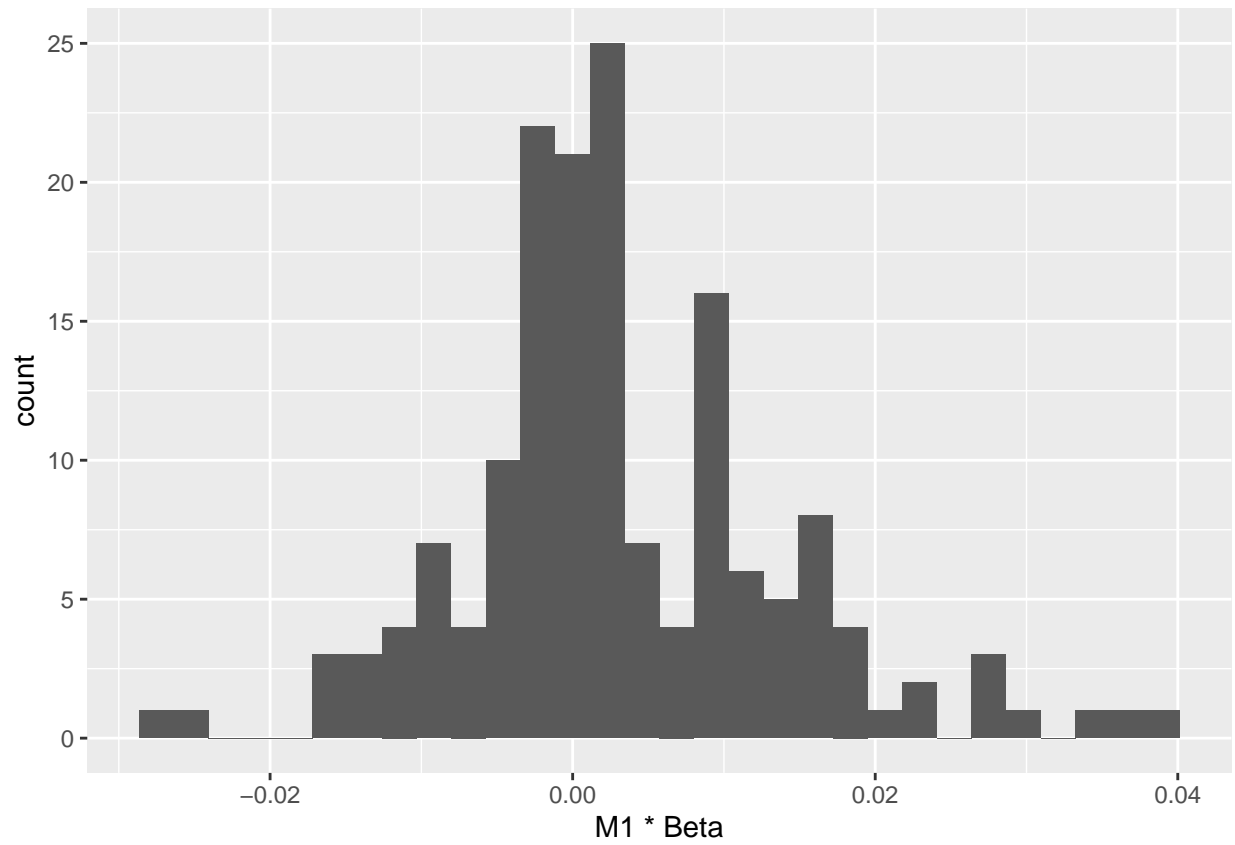


```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```

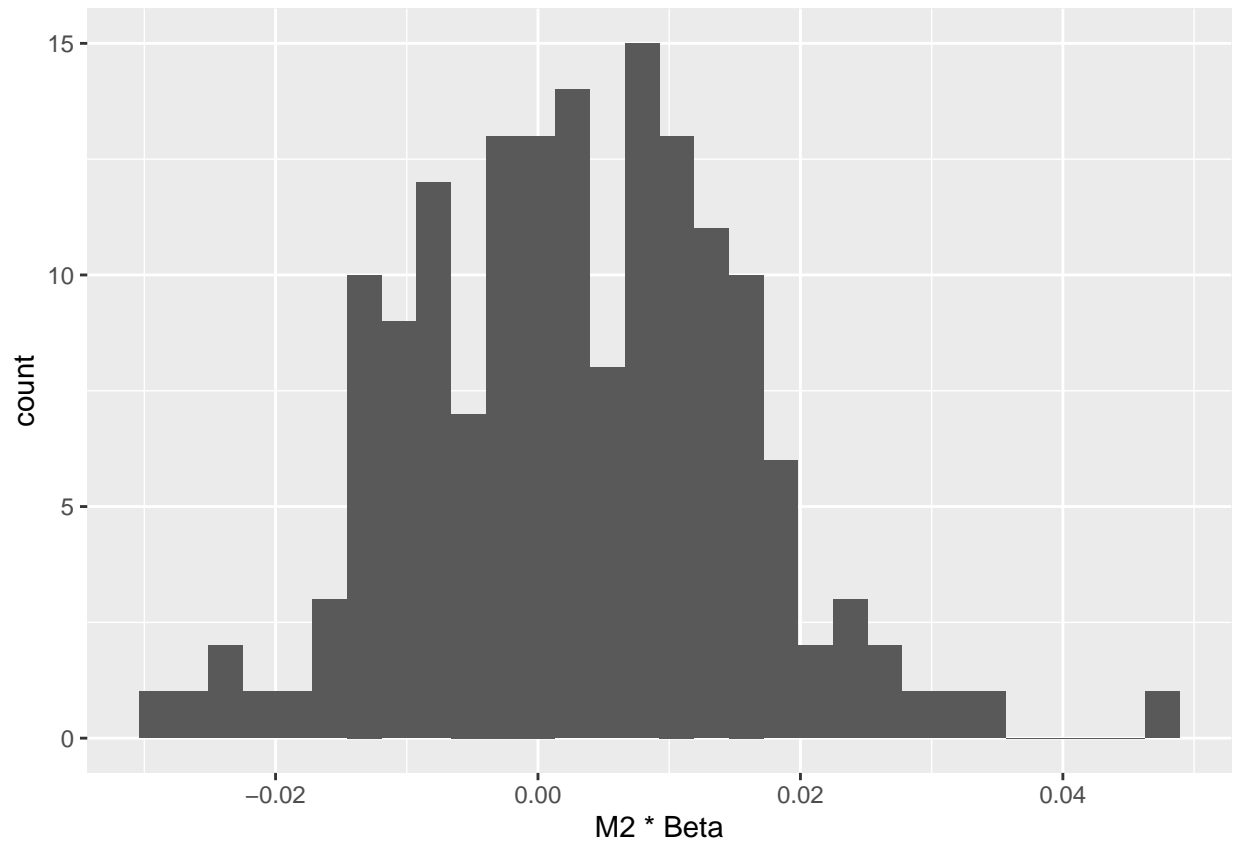


Now we want to see the market return's normal distribution

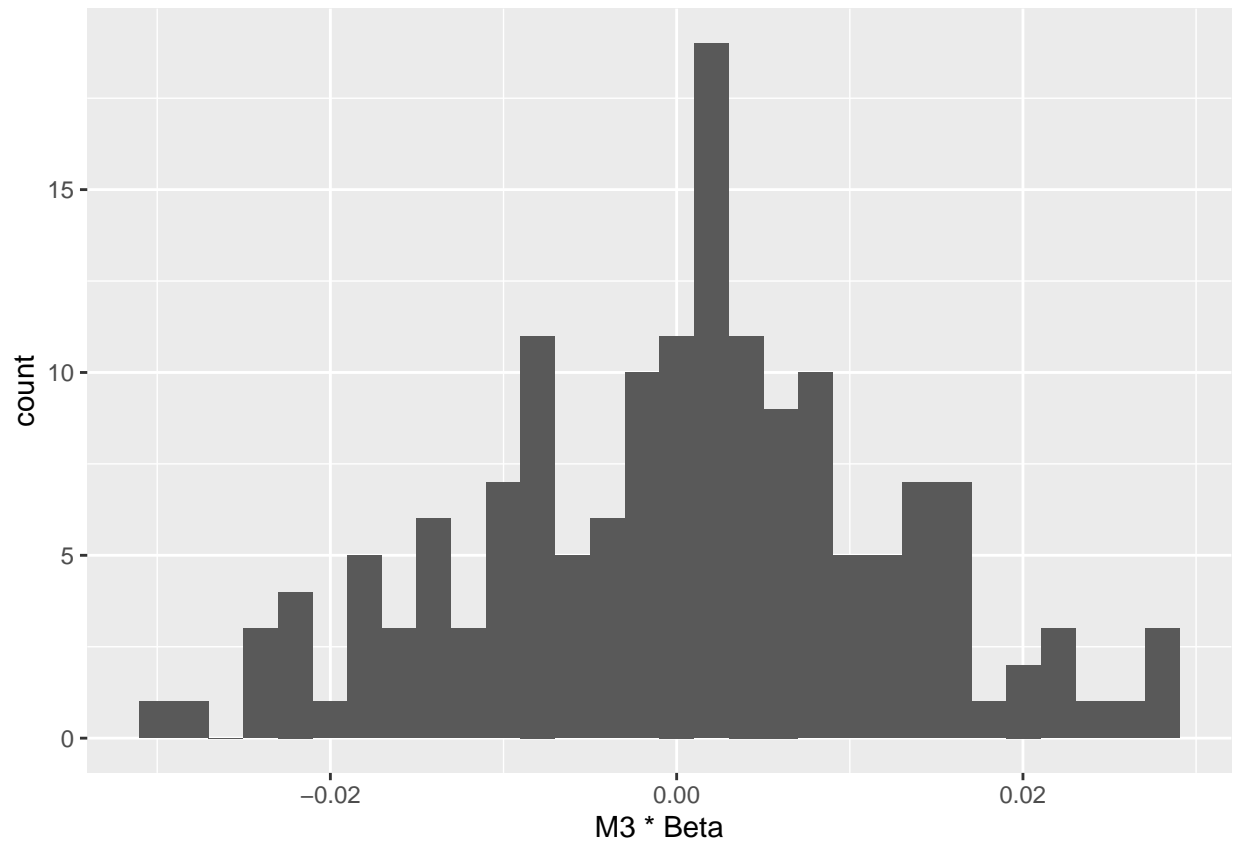
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```



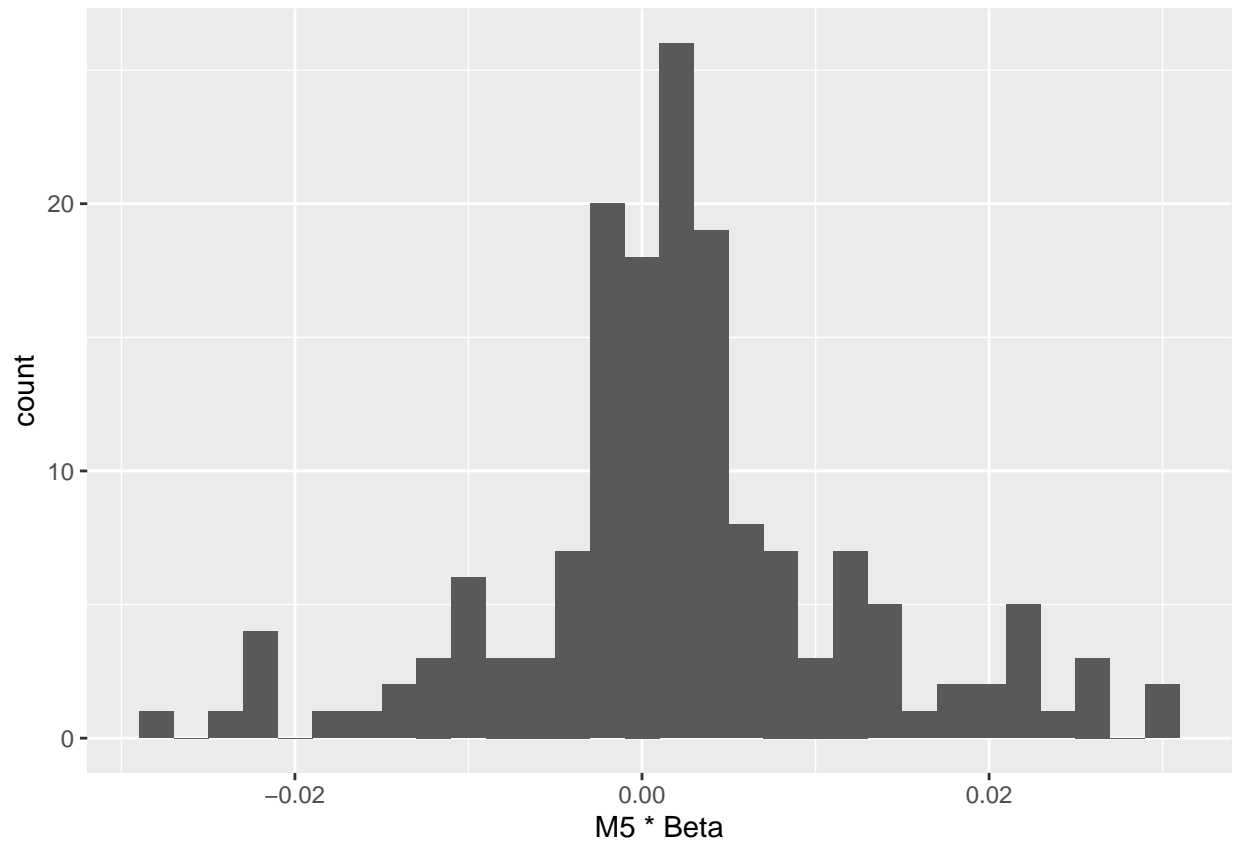
```
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```

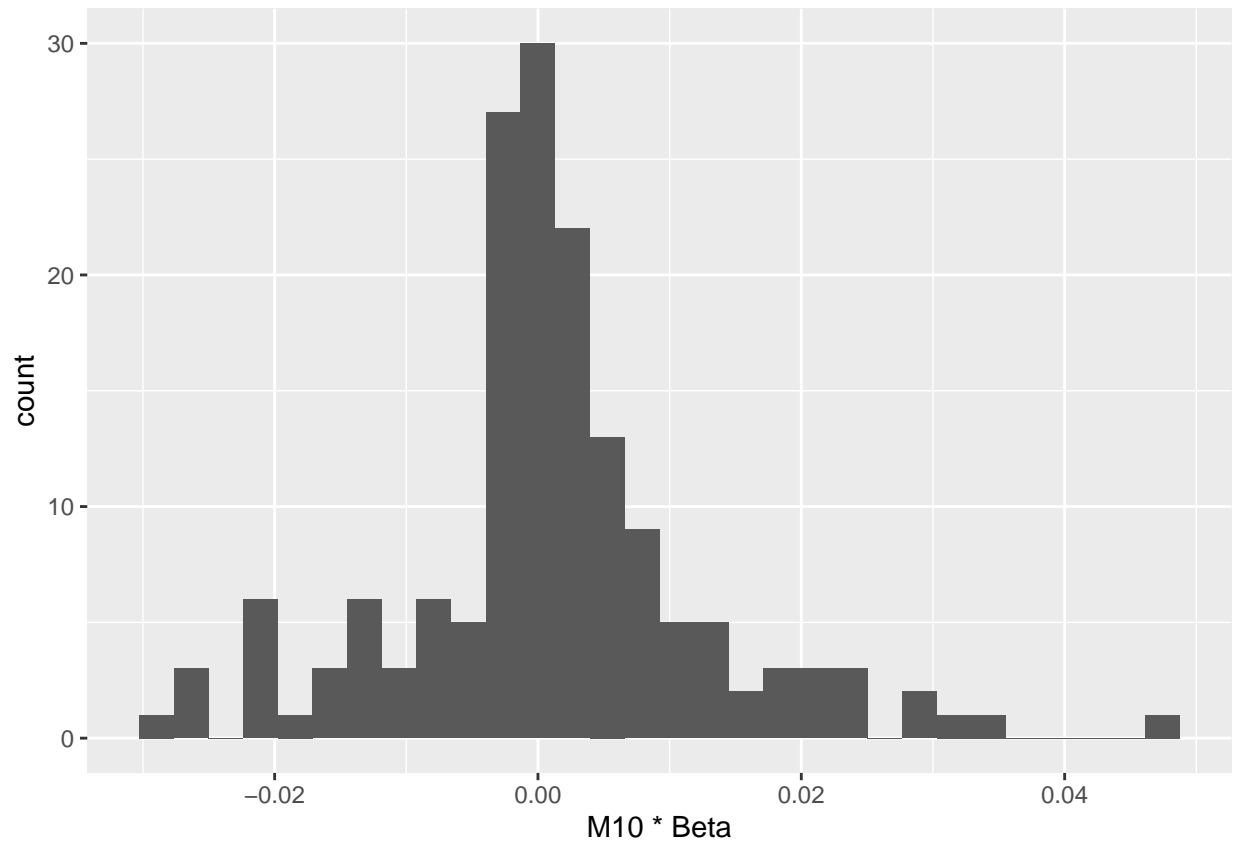
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```
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```



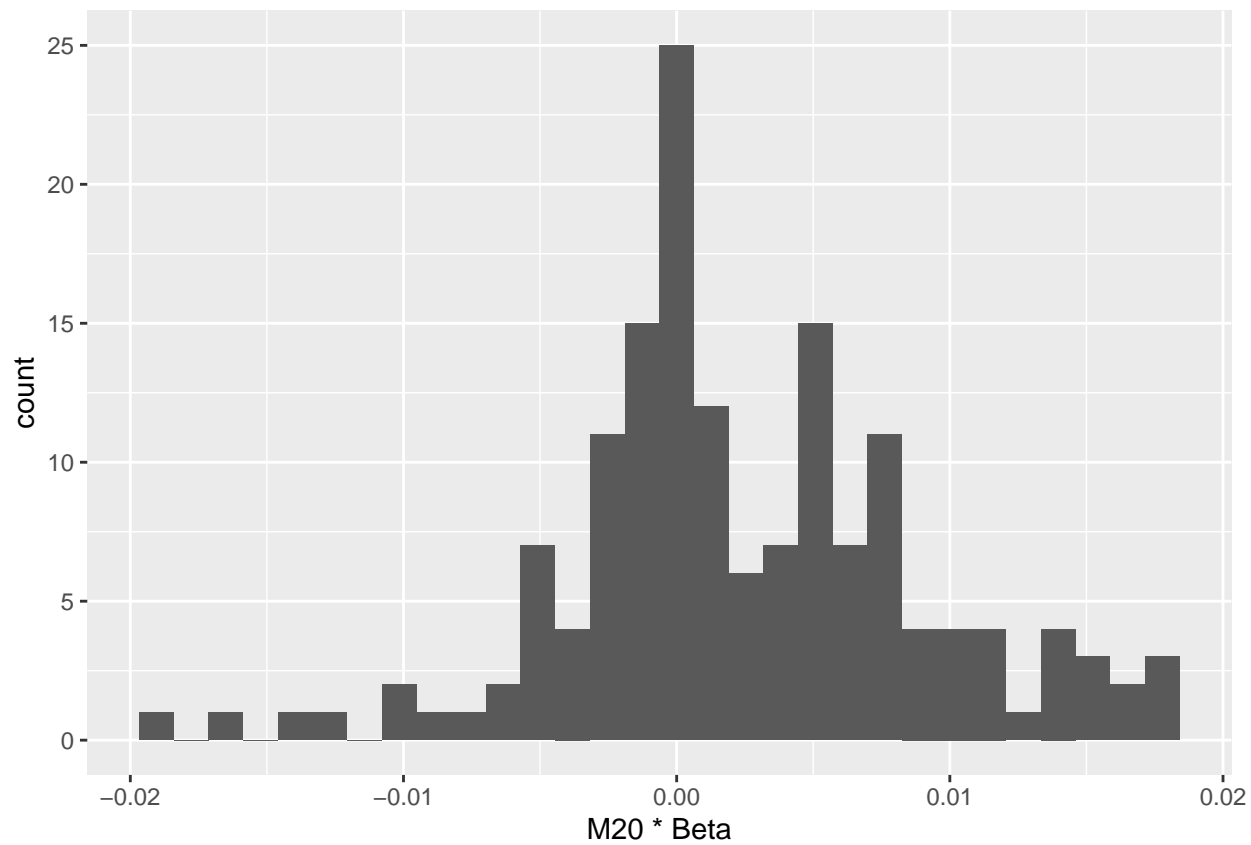
```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```

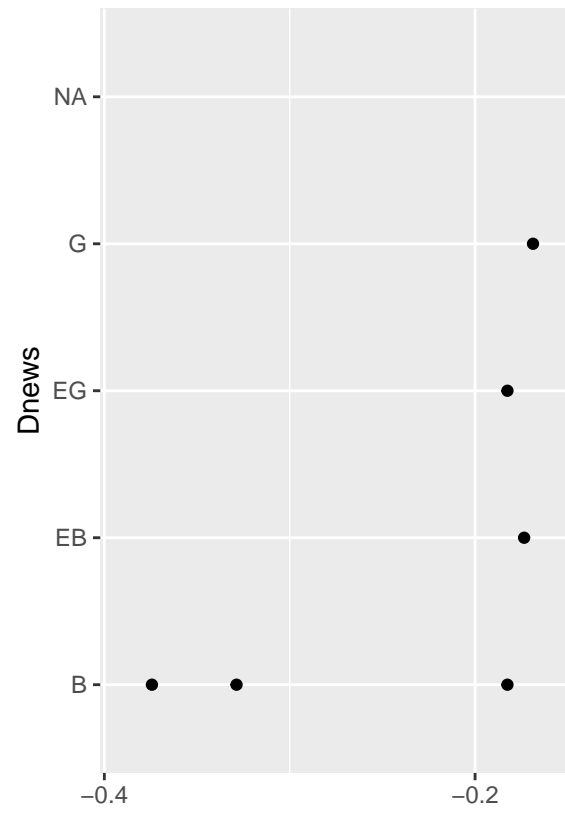


```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```

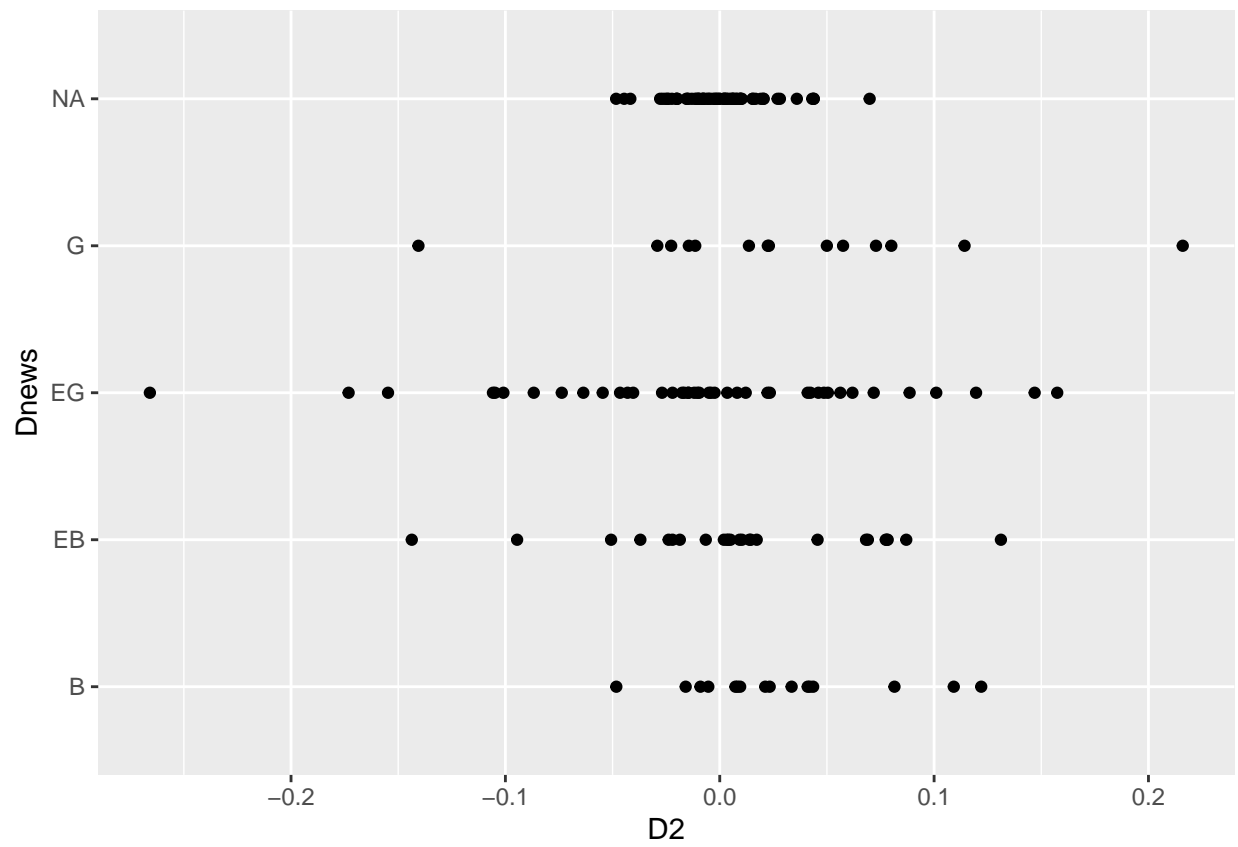
```
## Warning: Removed 6 rows containing non-finite outside the scale range
```

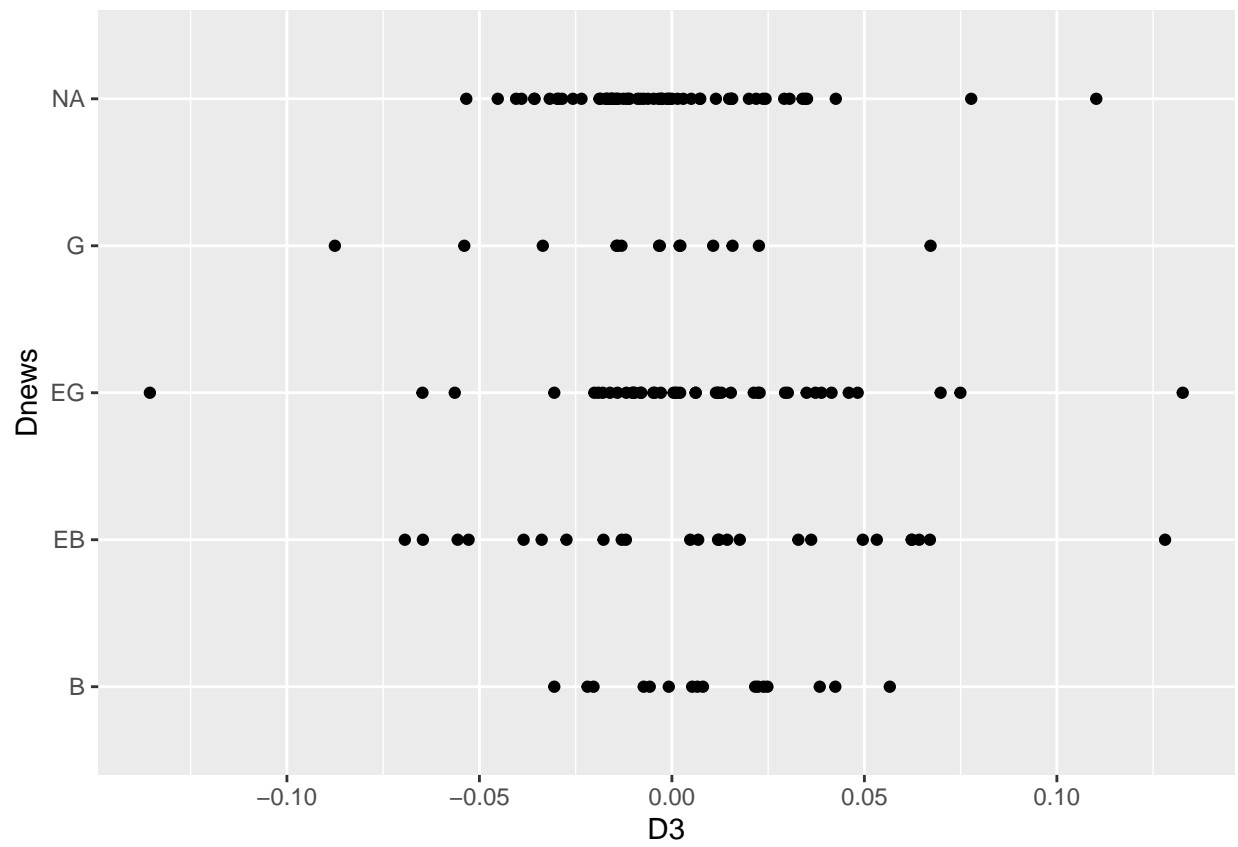
```
## ('stat_bin()').
```

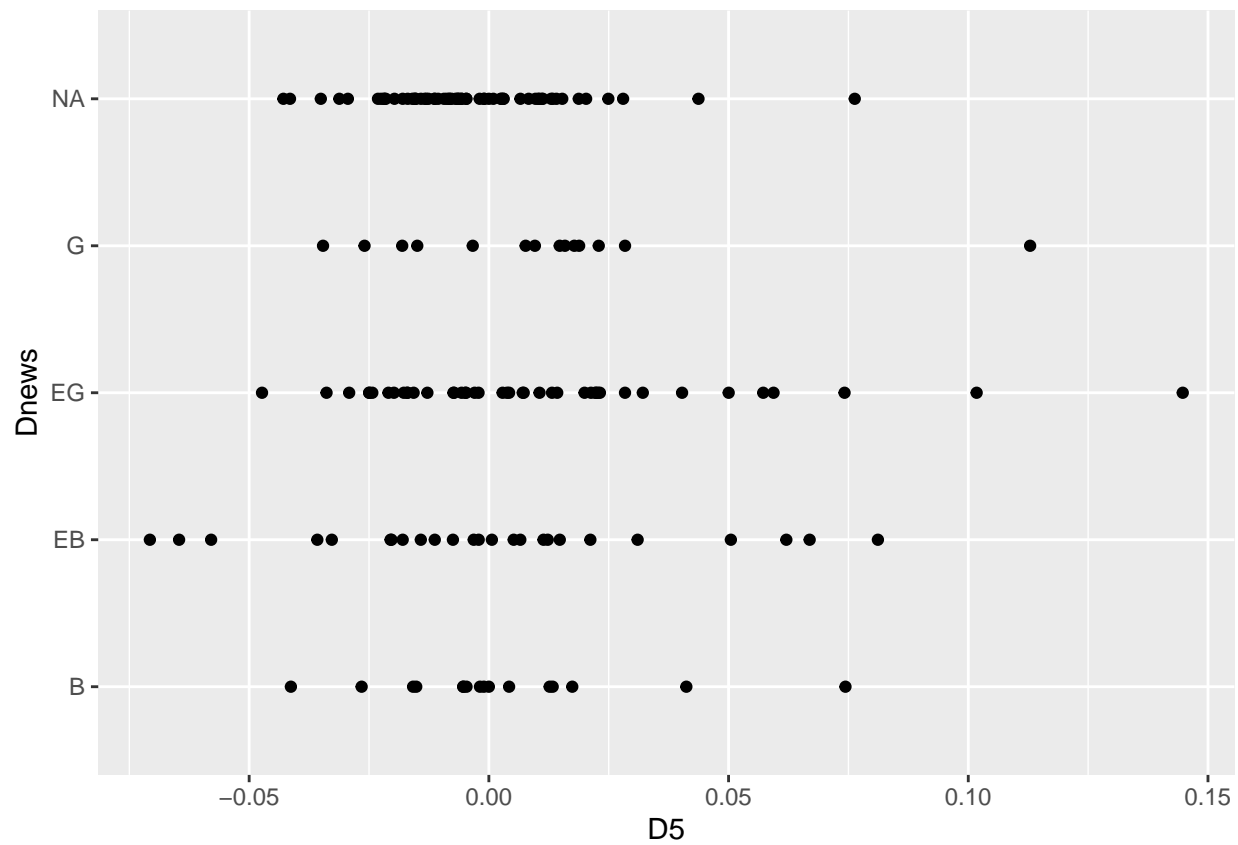


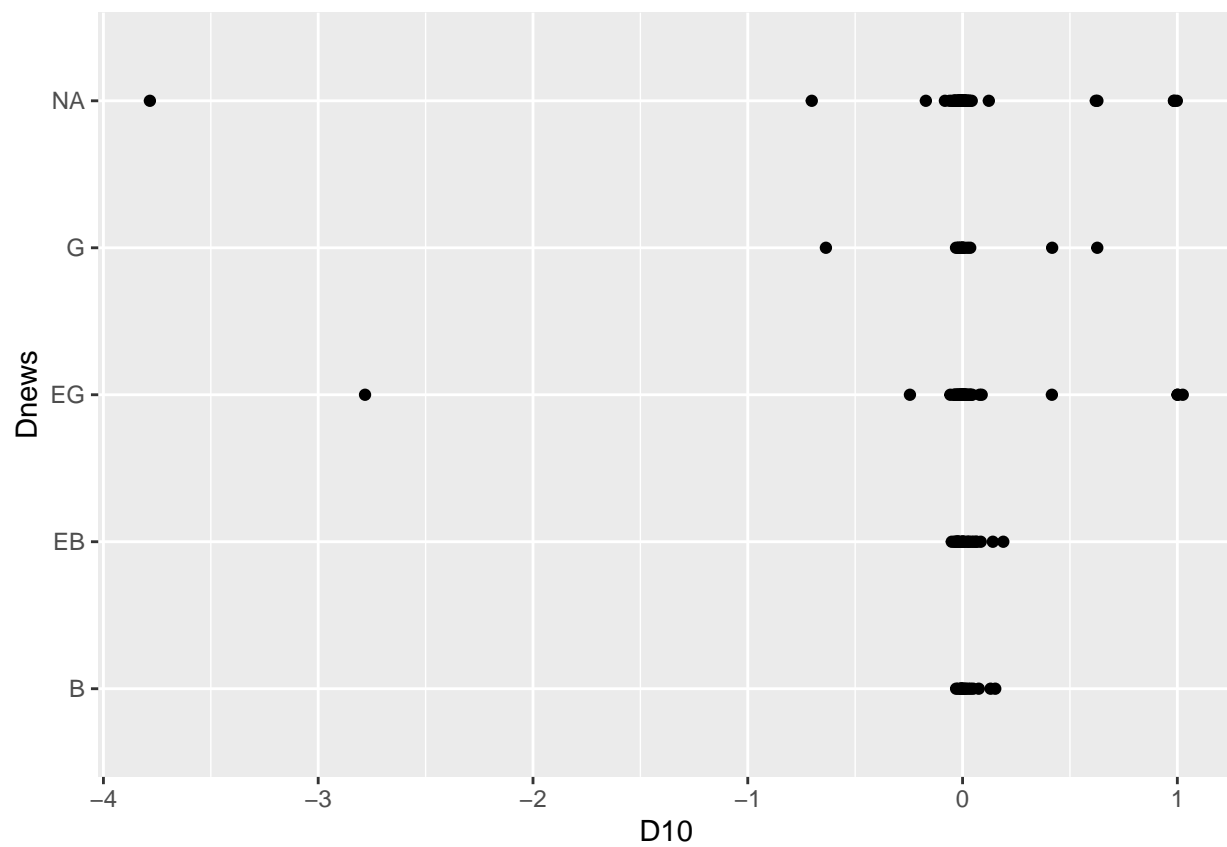


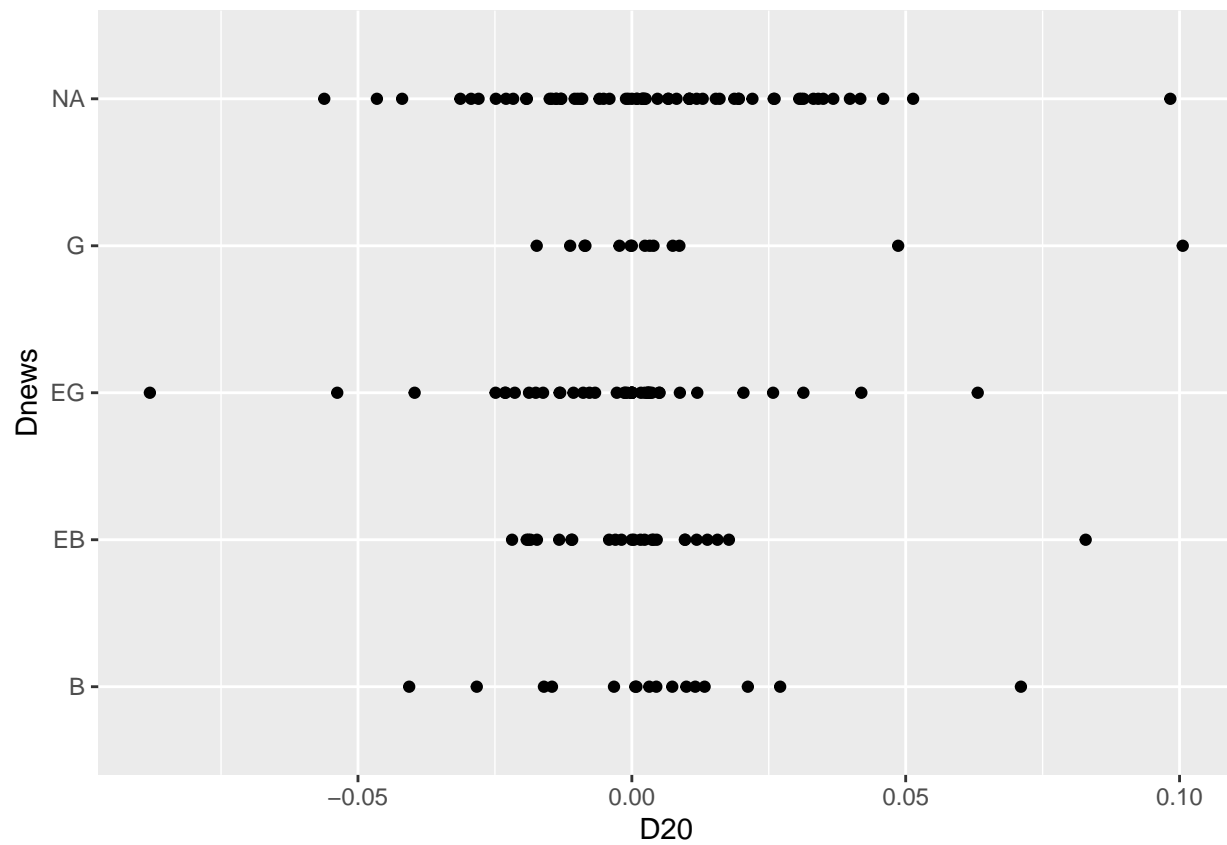
Under different news categories whether the stock return is distributed or not



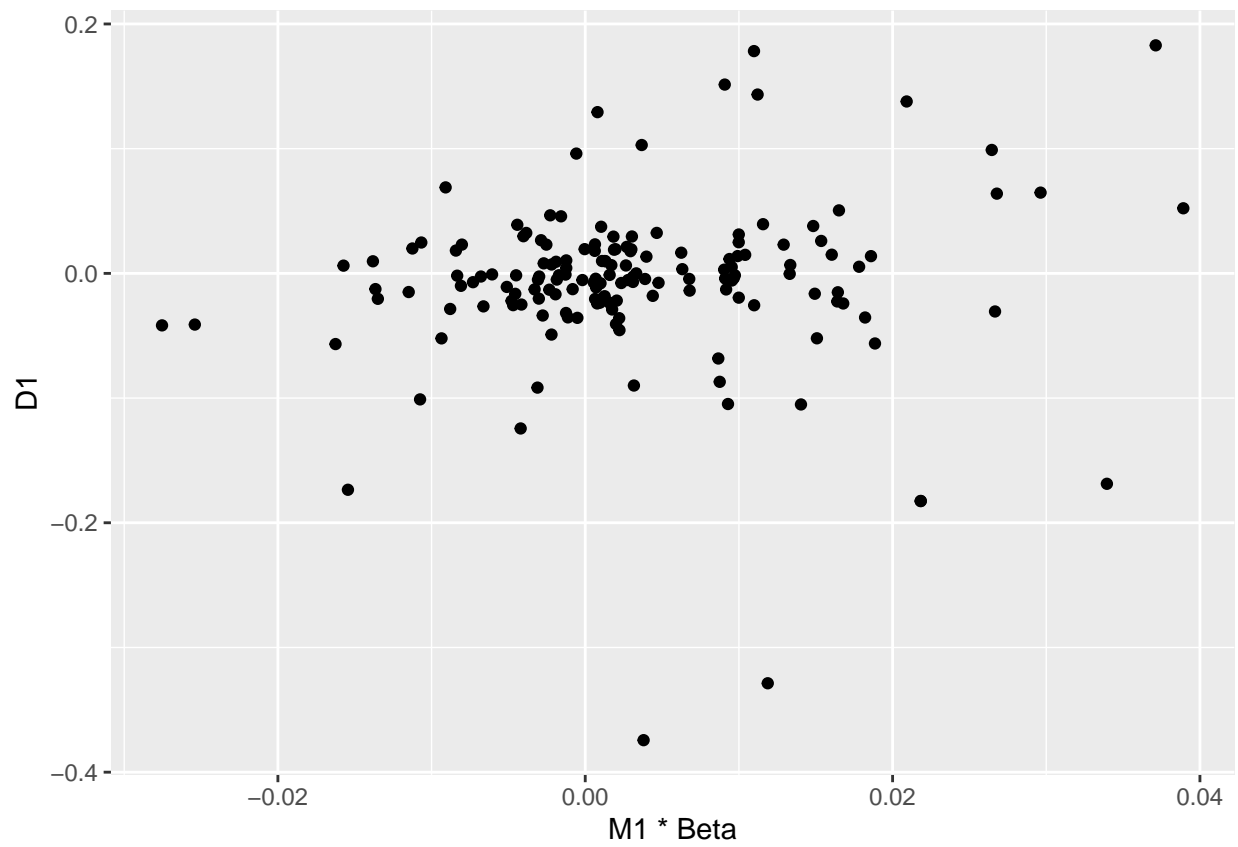


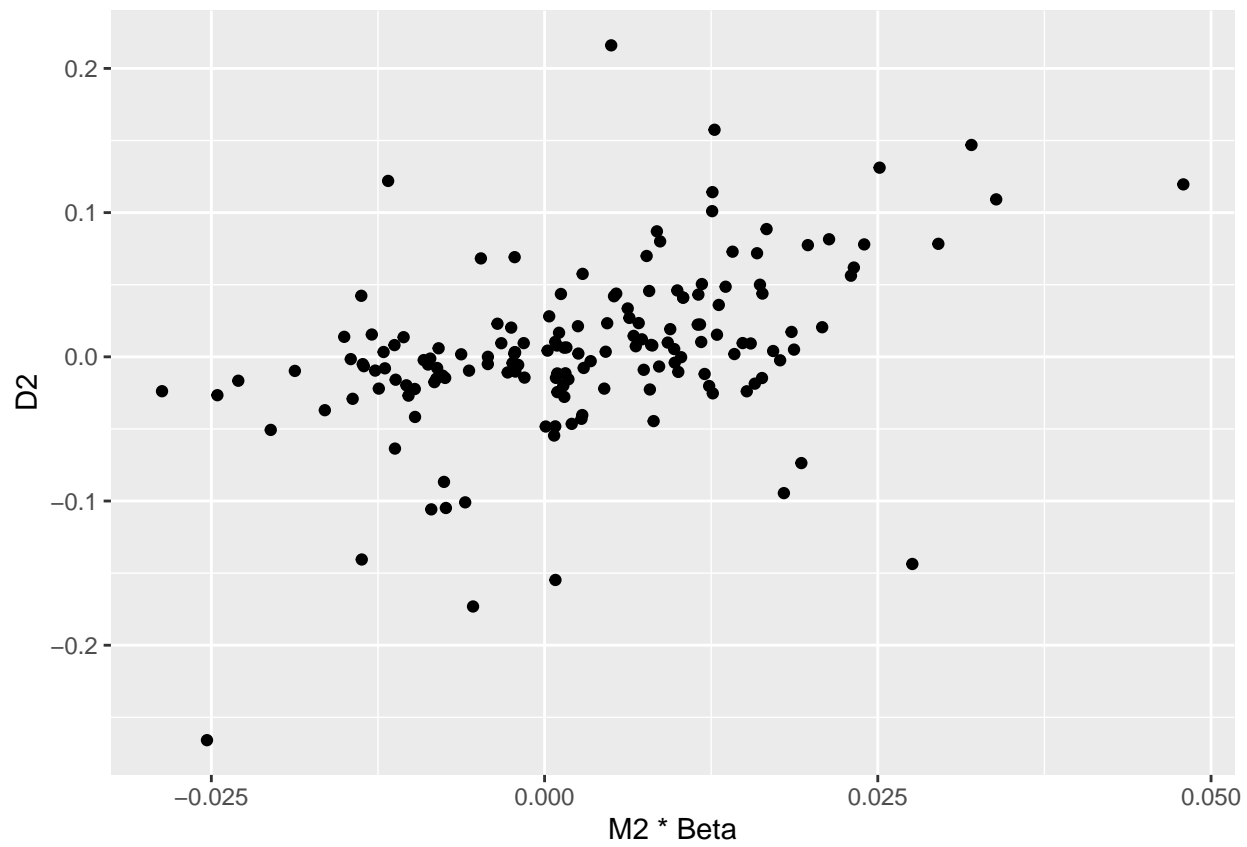


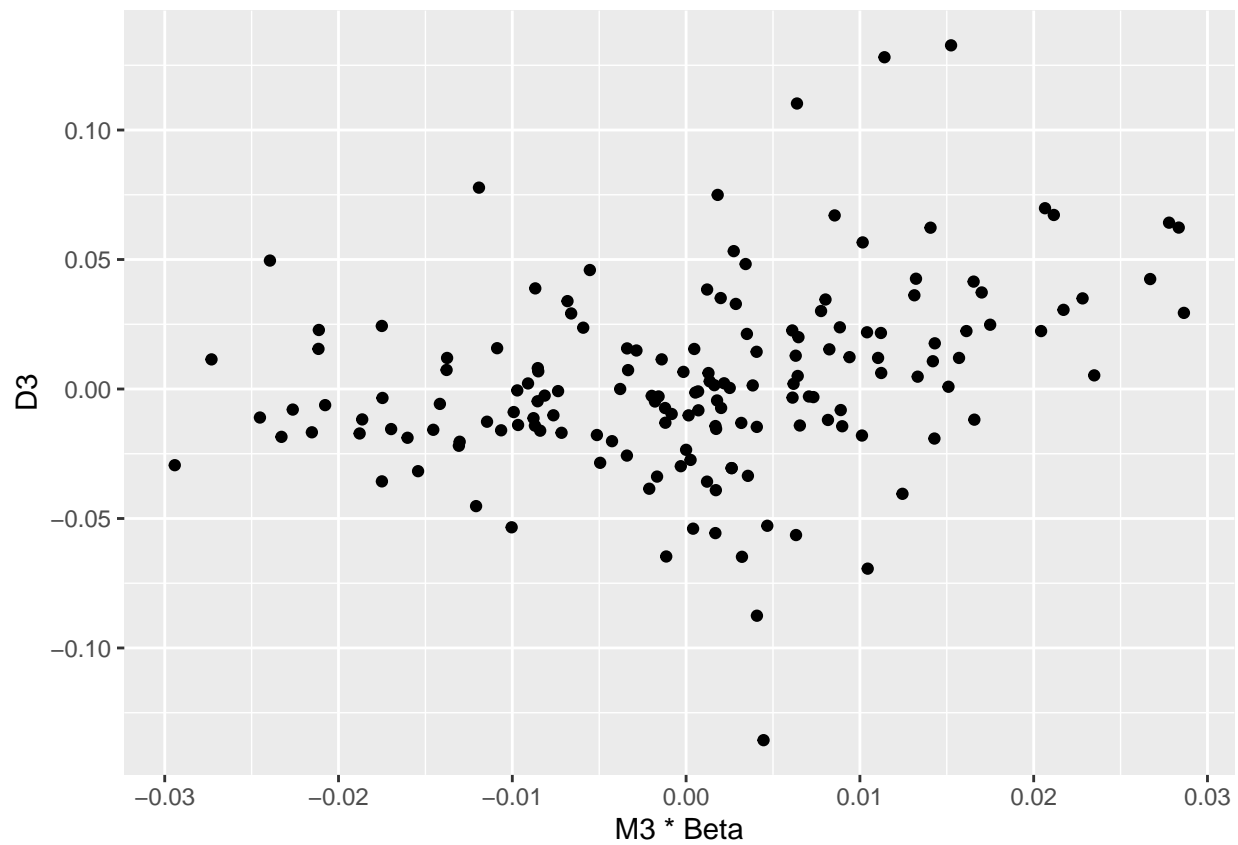


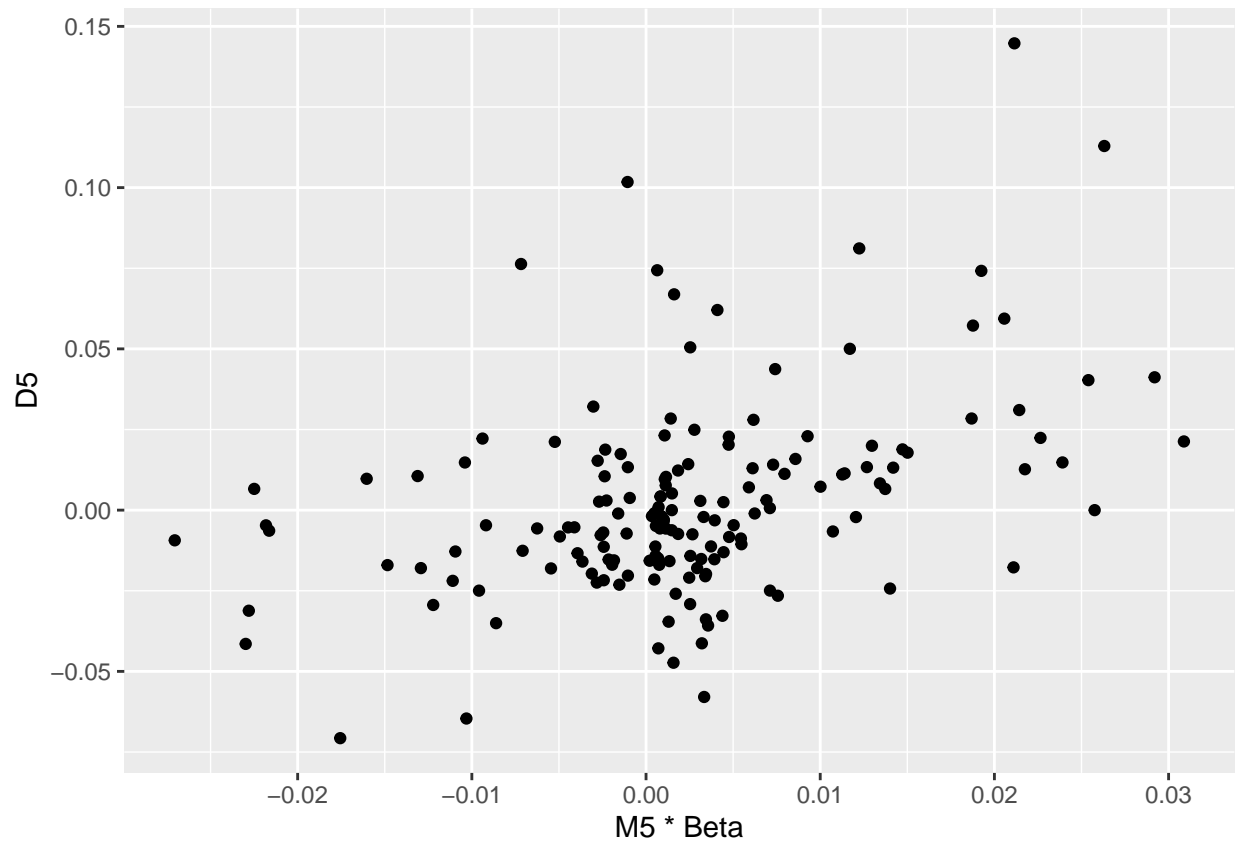


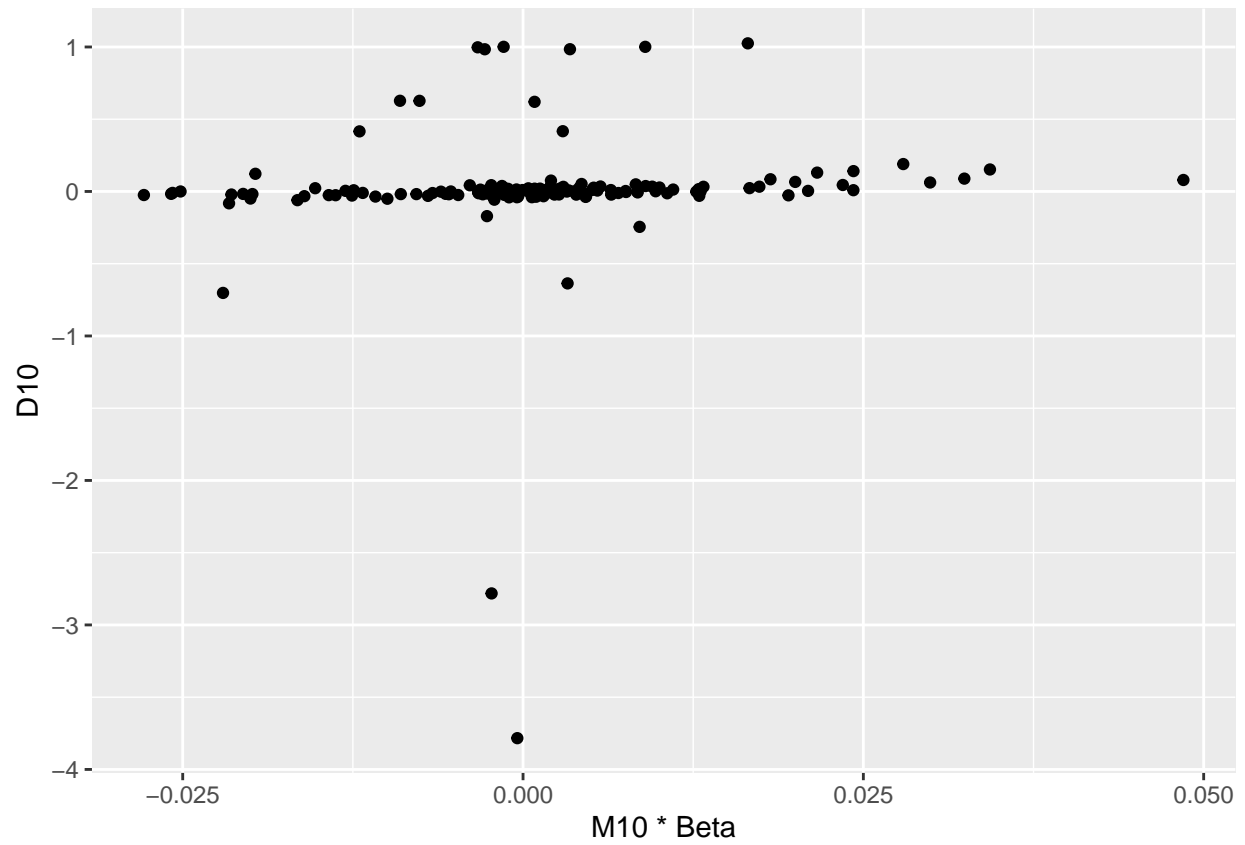
Whether there is a linear relationship between stock return and market return.











```
## Warning: Removed 6 rows containing missing values or values outside the scale range
## ('geom_point()').
```