RV

Collaborative project

4/9/2021

```
library(tidyquant)
## Loading required package: lubridate
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
      date, intersect, setdiff, union
## Loading required package: PerformanceAnalytics
## Loading required package: xts
## Loading required package: zoo
## Attaching package: 'zoo'
## The following objects are masked from 'package:base':
##
##
      as.Date, as.Date.numeric
##
## Attaching package: 'PerformanceAnalytics'
  The following object is masked from 'package:graphics':
##
##
##
      legend
## Loading required package: quantmod
## Loading required package: TTR
## Registered S3 method overwritten by 'quantmod':
    method
##
    as.zoo.data.frame zoo
## Business Science offers a 1-hour course - Learning Lab #9: Performance Analysis & Portfolio Optimiza
## </> Learn more at: https://university.business-science.io/p/learning-labs-pro </>
library(tidyverse)
## -- Attaching packages -----
                                    ----- tidyverse 1.3.1 --
## v ggplot2 3.3.3
                     v purrr
                              0.3.4
```

v tibble 3.1.2

v tidyr 1.1.3

v dplyr

v stringr 1.4.0

1.0.6

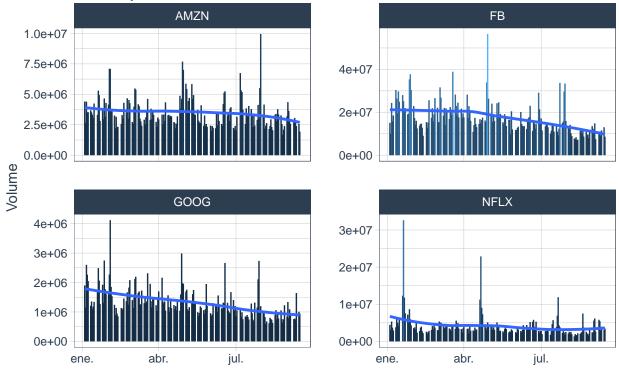
```
## v readr
            1.4.0
                      v forcats 0.5.1
## -- Conflicts ----- tidyverse_conflicts() --
## x lubridate::as.difftime() masks base::as.difftime()
## x lubridate::date()
                            masks base::date()
## x dplyr::filter()
                            masks stats::filter()
## x dplyr::first()
                            masks xts::first()
                            masks base::intersect()
## x lubridate::intersect()
## x dplyr::lag()
                            masks stats::lag()
## x dplyr::last()
                            masks xts::last()
## x lubridate::setdiff()
                            masks base::setdiff()
## x lubridate::union()
                            masks base::union()
head(FANG)
## # A tibble: 6 x 8
##
    symbol date
                       open high
                                   low close
                                                volume adjusted
##
    <chr> <date>
                      <dbl> <dbl> <dbl> <dbl>
                                                 <dbl>
                                                          <dbl>
## 1 FB
           2013-01-02 27.4 28.2
                                  27.4 28
                                              69846400
                                                           28
## 2 FB
           2013-01-03
                       27.9
                             28.5
                                  27.6
                                        27.8 63140600
                                                           27.8
                       28.0
## 3 FB
           2013-01-04
                             28.9
                                  27.8
                                        28.8
                                              72715400
                                                           28.8
## 4 FB
           2013-01-07
                       28.7
                             29.8
                                  28.6 29.4 83781800
                                                           29.4
## 5 FB
           2013-01-08
                       29.5
                             29.6
                                  28.9 29.1 45871300
                                                           29.1
## 6 FB
           2013-01-09
                       29.7
                             30.6
                                  29.5 30.6 104787700
                                                           30.6
```

Natalia. Comments by Martín in italics.

I recommend using the pre-loaded FANG database as it is (with the corresponding length). Here, Natalia downloaded the data and took the first months of the 2021 year. She includes two plots. Are both plots the same? I would recommend adding some comments to understand the plots. Also, remember the objective is to link the volume with the returns as explained in the instructions (readme repo). Martín.

FANG Volume Chart

2021 Daily Volume



`geom_smooth()` using formula 'y ~ x'

FANG Volume Chart

2021 Daily Volume

