handout (complete version)

Zhengkai Fu

12/07/2020

Load Library

```r
library(tidyverse)   # good old tidyverse, just in case
library(quantmod)    # get information about stocks
```

1. Get stocks with "quantmod"

```r
# choose 2 stocks and 1 index
# example: AMAZON, APPLE, and SP500

# AMAZON
amazon <- getSymbols('AMZN', src = 'yahoo', from = '2010-01-01')
```

```
## 'getSymbols' currently uses auto.assign=TRUE by default, but will
## use auto.assign=FALSE in 0.5-0. You will still be able to use
## 'loadSymbols' to automatically load data. getOption("getSymbols.env")
## and getOption("getSymbols.auto.assign") will still be checked for
## alternate defaults.
##
## This message is shown once per session and may be disabled by setting
## options("getSymbols.warning4.0"=FALSE). See ?getSymbols for details.
```

```r
# APPLE
apple <- 'AAPL'

# SP500
sp <- '^GSPC'
# index usually has '^' before its code name.
```

quantmod retrieves stock information based on their code name, and you can easily look up those code name with yahoo finance, which is also the source of the information we grabbed ("src = 'yahoo' ").

It was possible to set information source as google finance but it has been discontinued.