# Análisis y Tratamiento de Datos con R: Departamento de Matemática

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Ejemplo basado de http://blog.revolutionanalytics.com/2015/08/plotting-time-series-in-r.html y modificado

### Time Series Plotting

```
library(ggplot2)
library(xts)

## Loading required package: zoo

## ## Attaching package: 'zoo'

## The following objects are masked from 'package:base':

## as.Date, as.Date.numeric

library(dygraphs)
library(quantmod)

## Loading required package: TTR

## Version 0.4-0 included new data defaults. See ?getSymbols.
```

#### Get IBM and Linkedin stock data from Yahoo Finance

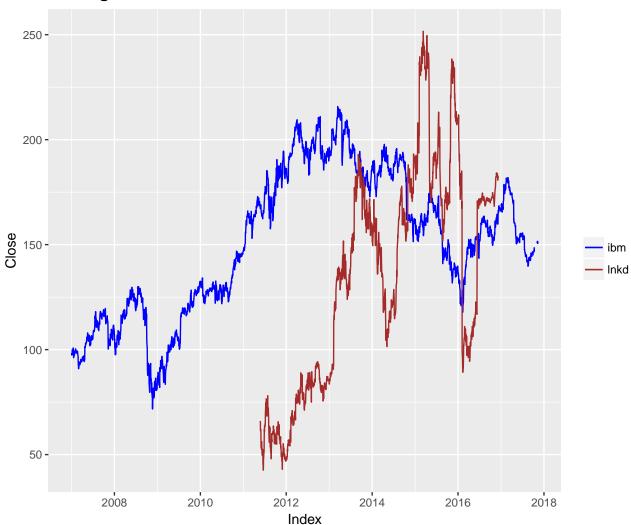
```
yahoo.read <- function(symb){
   getSymbols(symb, src = "yahoo", return.class = "xts")
   expre <- parse(text = paste("df <- ", symb,"[, 4]", sep = ""))
   eval(expre)
   names(df) <- "Close"
   return(df)
}

ibm <- yahoo.read("IBM")</pre>
```

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```
## '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.
## WARNING: There have been significant changes to Yahoo Finance data.
## Please see the Warning section of '?getSymbols.yahoo' for details.
## This message is shown once per session and may be disabled by setting
## options("getSymbols.yahoo.warning"=FALSE).
## Warning: IBM contains missing values. Some functions will not work if
## objects contain missing values in the middle of the series. Consider using
## na.omit(), na.approx(), na.fill(), etc to remove or replace them.
lnkd <- yahoo.read("LKI.F")</pre>
## Warning: LKI.F contains missing values. Some functions will not work if
## objects contain missing values in the middle of the series. Consider using
## na.omit(), na.approx(), na.fill(), etc to remove or replace them.
ggplot(ibm, aes(x = Index, y = Close)) +
 geom_line(aes(color="ibm")) +
  geom_line(data=lnkd,aes(color="lnkd")) +
 labs(color="Legend") +
  scale_colour_manual("", breaks = c("ibm", "lnkd"),
                      values = c("blue", "brown")) +
  ggtitle("Closing Stock Prices: IBM & Linkedin") +
  theme(plot.title = element_text(lineheight=.7, face="bold"))
```

## **Closing Stock Prices: IBM & Linkedin**



## Plot with the htmlwidget dygraphs

## PhantomJS not found. You can install it with webshot::install\_phantomjs(). If it is installed, pleas