

# Stock prediction

*Said*

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## Precios de acciones

La idea es usar Prophet para predecir Stock

```
#install.packages("prophet")  
library(prophet)
```

```
## Loading required package: Rcpp  
## Loading required package: rlang  
## Warning: package 'rlang' was built under R version 3.5.2  
library(reshape)  
setwd("~/Github/Tools/Stock/")
```

## Including Plots

Leer los datos y acomodar el input para Prophet.

```
## Using Date as id variables
```

## Inicio de Prophet

Se inician las variables:

```
m <- prophet(df.melt,daily.seasonality = TRUE)  
  
future <- make_future_dataframe(m, periods = 365)  
tail(future)
```

```
##           ds  
## 7911 2017-11-25  
## 7912 2017-11-26  
## 7913 2017-11-27  
## 7914 2017-11-28  
## 7915 2017-11-29  
## 7916 2017-11-30
```

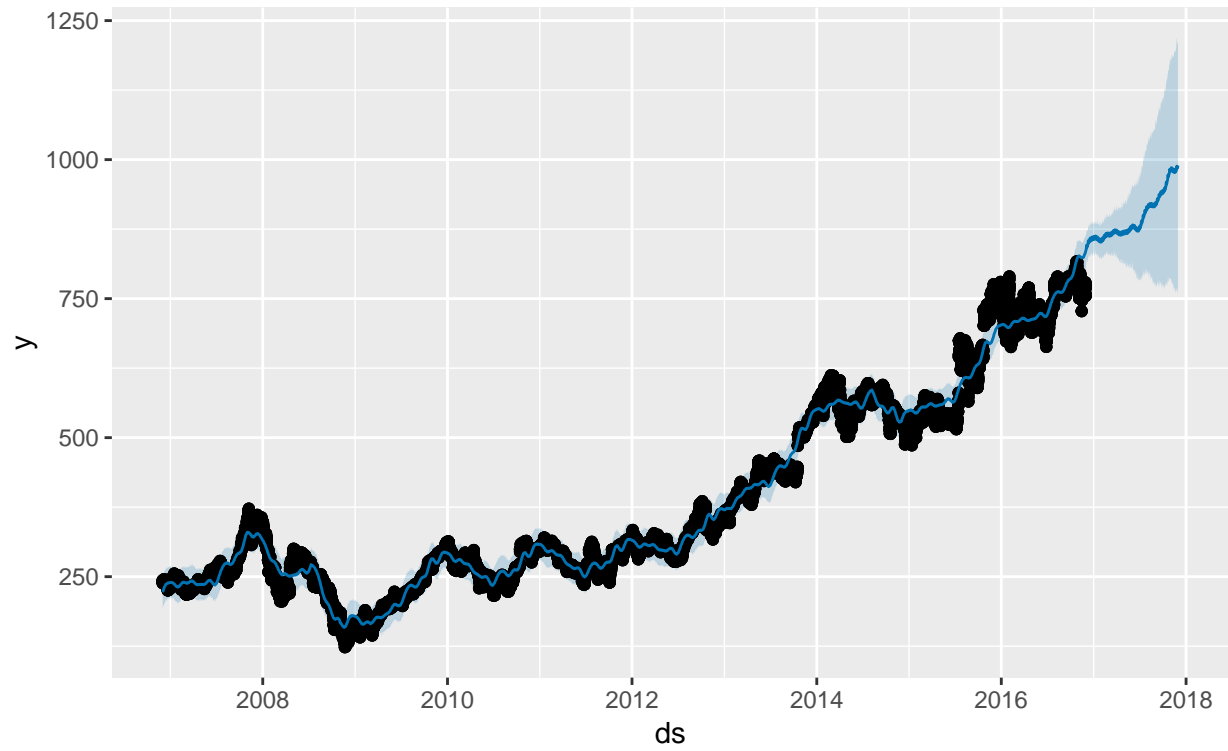
```
forecast <- predict(m, future)  
tail(forecast[c('ds', 'yhat', 'yhat_lower', 'yhat_upper')])
```

```
##           ds      yhat yhat_lower yhat_upper  
## 7911 2017-11-25 987.0975   766.6104   1217.732  
## 7912 2017-11-26 988.3024   772.3918   1218.786  
## 7913 2017-11-27 984.1644   759.3430   1207.559  
## 7914 2017-11-28 985.6699   770.2200   1209.582  
## 7915 2017-11-29 987.4357   761.8483   1210.964
```

```
## 7916 2017-11-30 989.2710 759.6222 1214.559
```

## Gráficos

```
plot(m, forecast)
```



```
prophet_plot_components(m, forecast)
```

