MGT Research Prophet Part

Libraries

```
library(quantmod)
```

```
## Loading required package: xts
```

```
## Loading required package: zoo
```

```
##
## Attaching package: 'zoo'
```

```
## The following objects are masked from 'package:base':
##
##     as.Date, as.Date.numeric
```

```
## Loading required package: TTR
```

```
## Registered S3 method overwritten by 'quantmod':
##   method            from
##   as.zoo.data.frame zoo
```

```
library(Rcpp)
library(rlang)
library(prophet)
```

Data and Factors

You can also embed plots, for example:

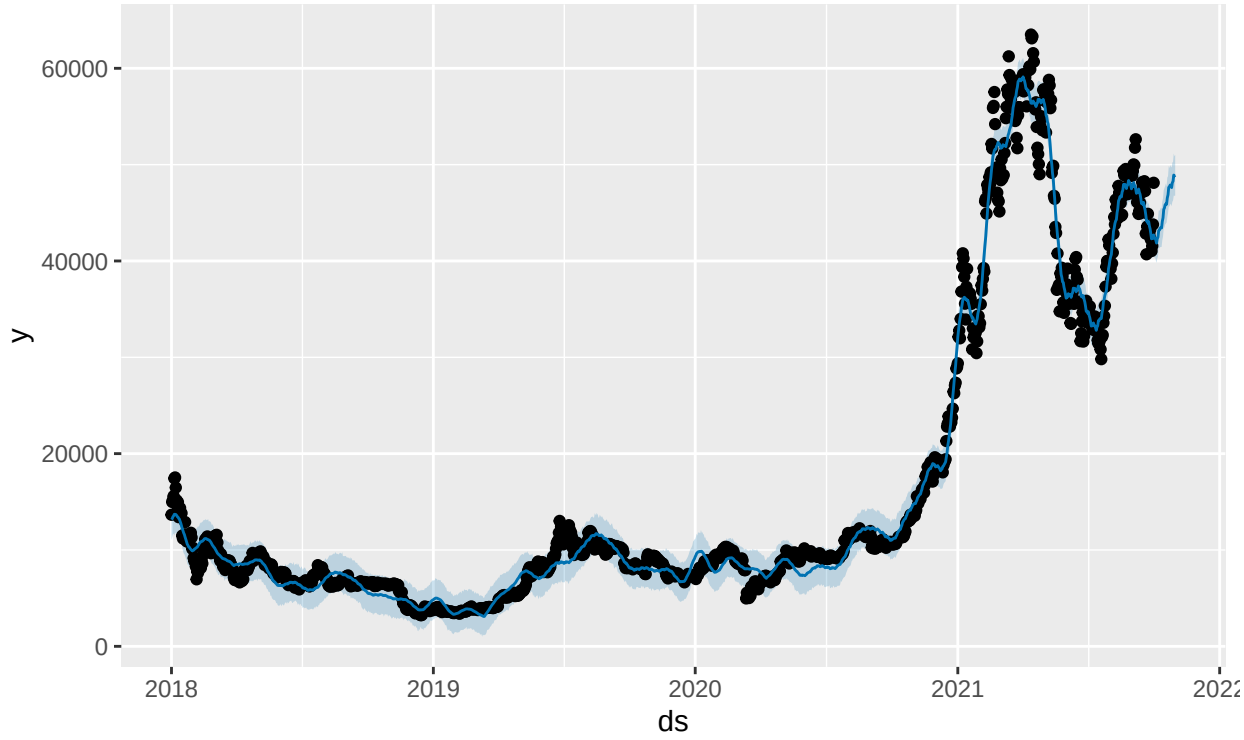
```
## 'getSymbols' currently uses auto.assign=TRUE by default, but will
## use auto.assign=FALSE in 0.5-0. You will still be able to use
## 'loadSymbols' to automatically load data. getOption("getSymbols.env")
## and getOption("getSymbols.auto.assign") will still be checked for
## alternate defaults.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

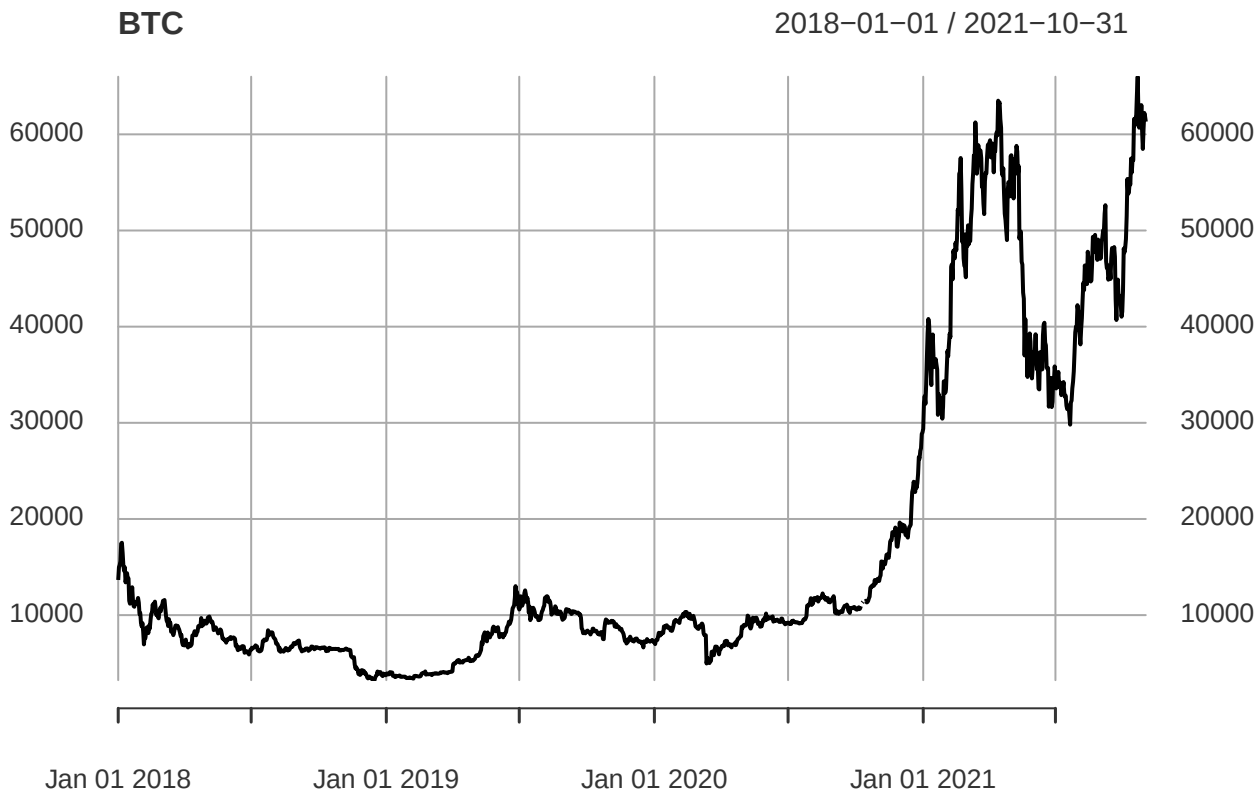
```
## [1] "BTC-USD" "BNB-USD" "ETH-USD" "XRP-USD" "LTC-USD"
```

```
## [1] "VIX"
```

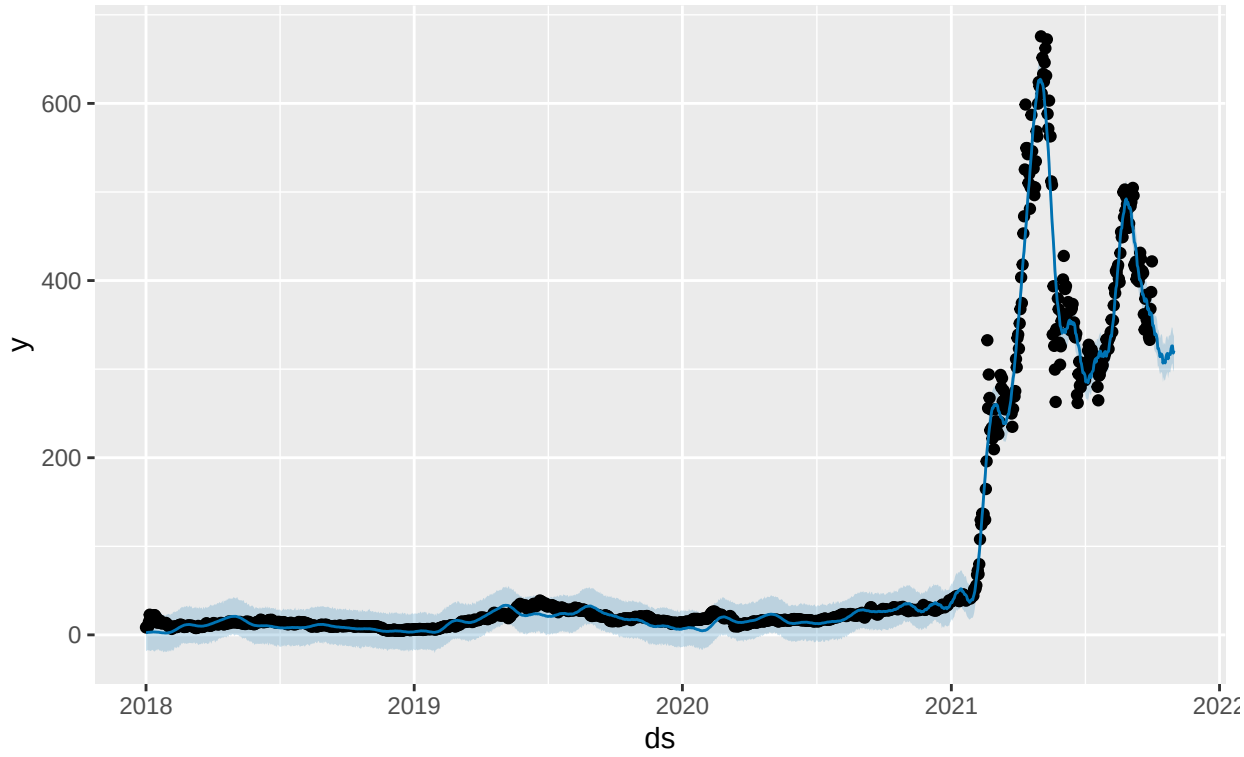
Functoin for prophet plots

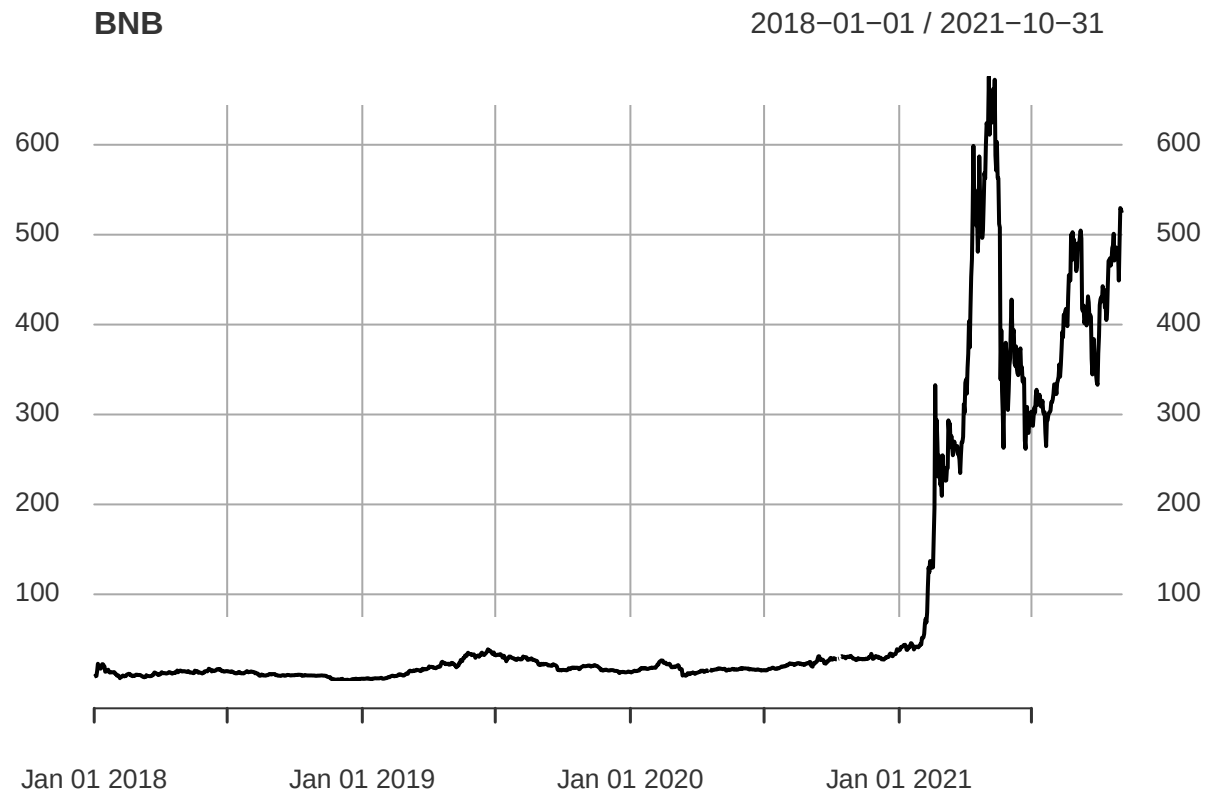
```
## [1] "BTC"
```



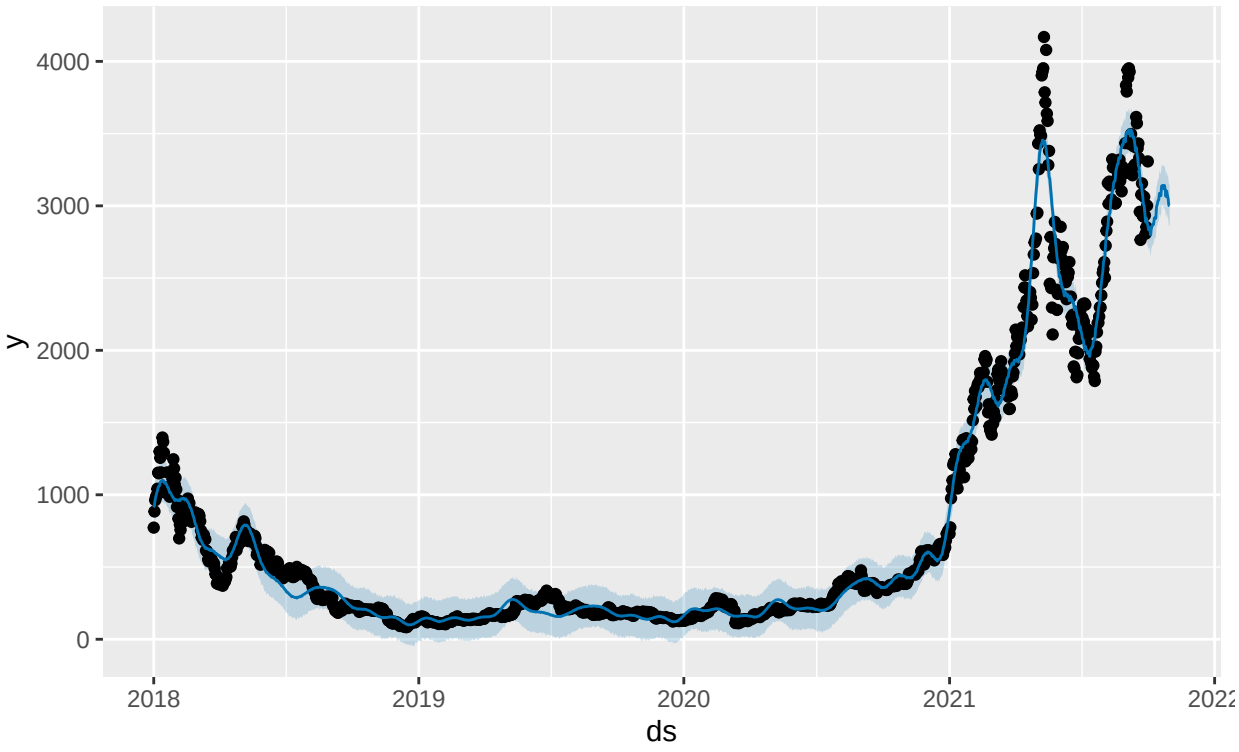

BTC
2018-01-01 / 2021-10-31
60000
50000
40000
30000
20000
10000
Jan 01 2018
Jan 01 2019
Jan 01 2020
Jan 01 2021

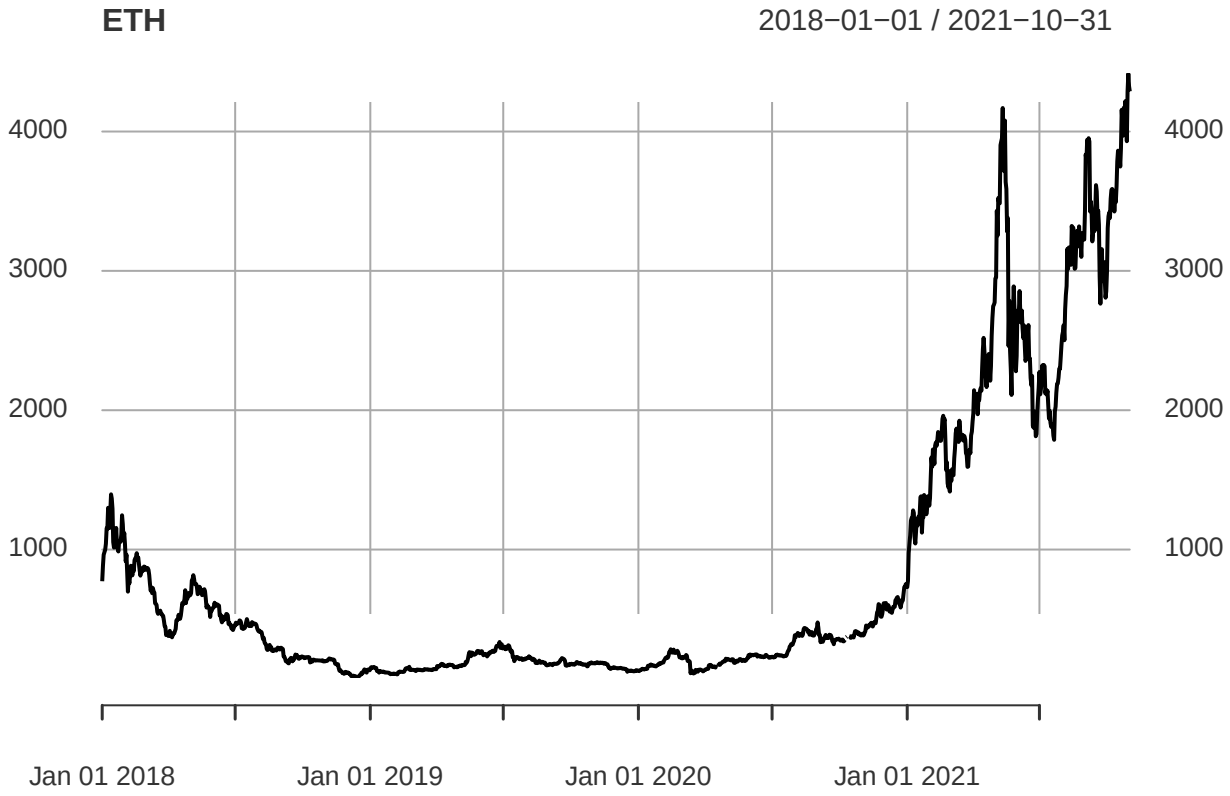
```
## [1] "BNB"
```


600
400
200
0
y
2018
2019
2020
2021
2022
ds

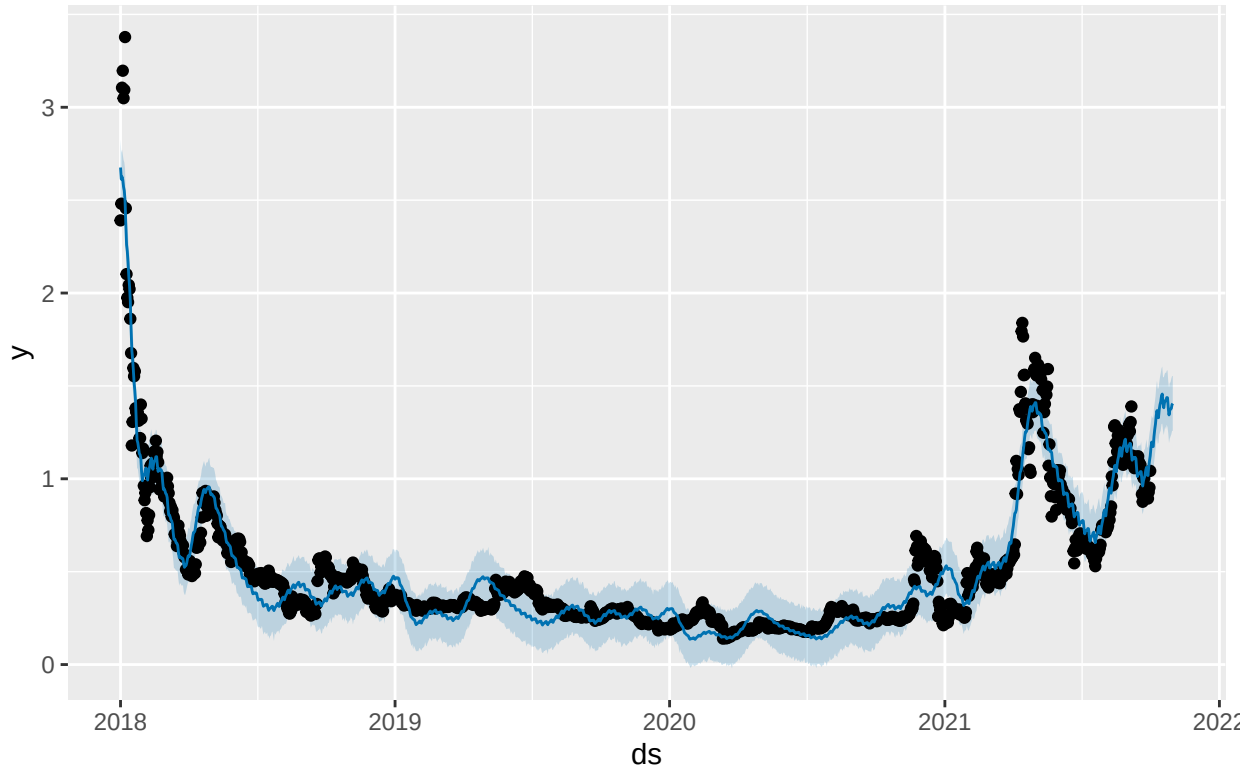

BNB
2018−01−01 / 2021−10−31
600
500
400
300
200
100
Jan 01 2018
Jan 01 2019
Jan 01 2020
Jan 01 2021

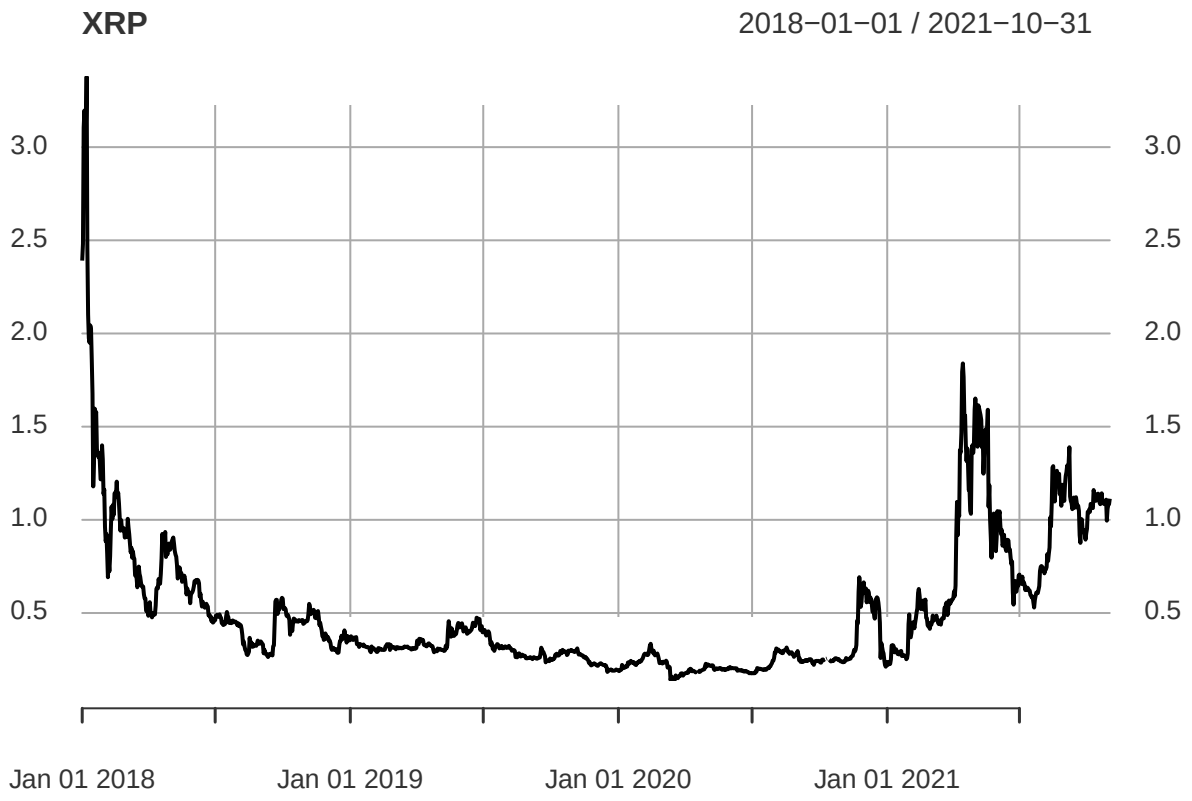
```
## [1] "ETH"
```


4000
3000
2000
1000
0
y
2018
2019
2020
2021
2022
ds

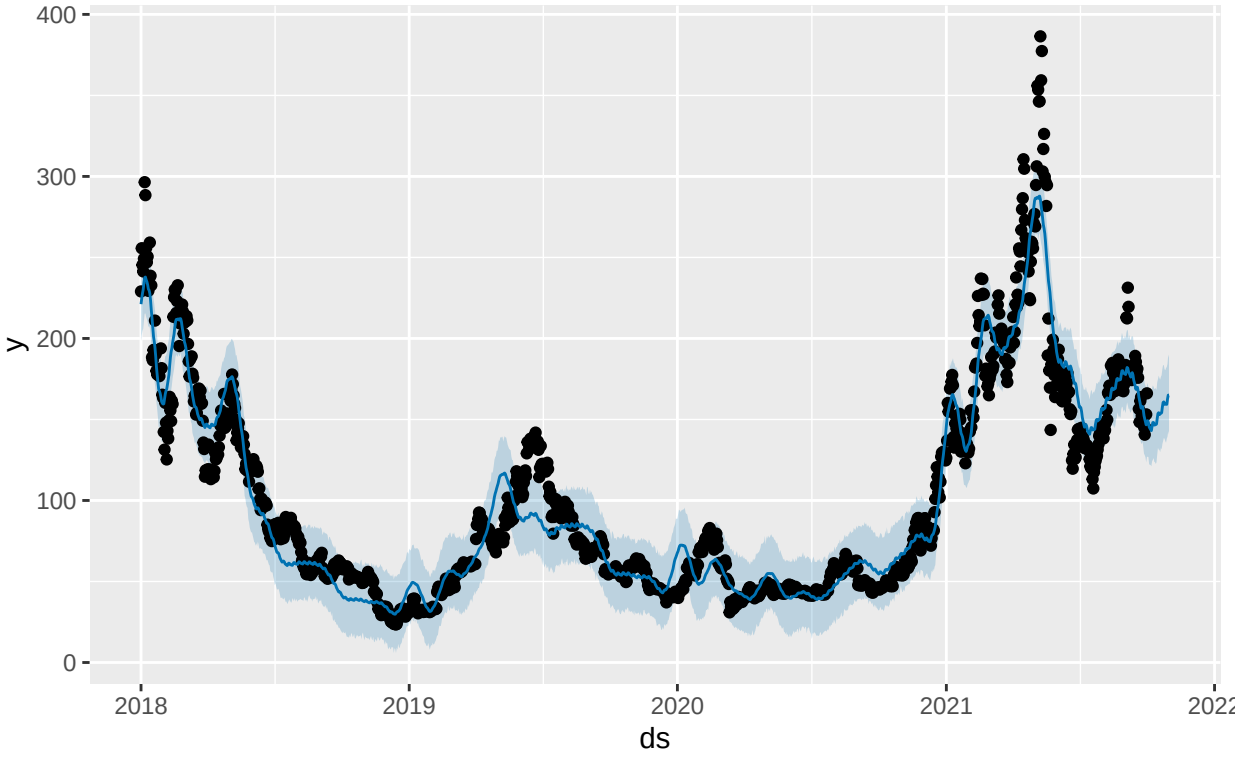

ETH
2018−01−01 / 2021−10−31
4000
3000
2000
1000
Jan 01 2018
Jan 01 2019
Jan 01 2020
Jan 01 2021

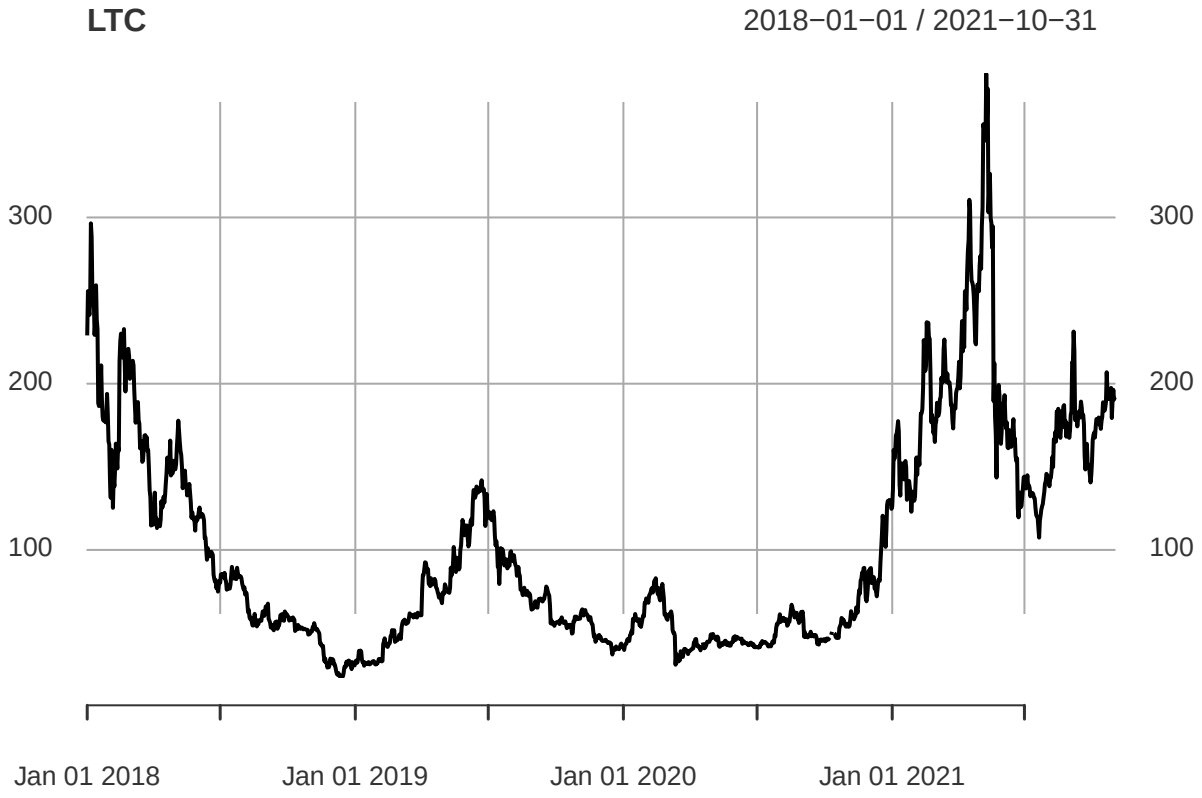
```
## [1] "XRP"
```


3
2
1
0
y
2018
2019
2020
2021
2022
ds


XRP
2018−01−01 / 2021−10−31
3.0
2.5
2.0
1.5
1.0
0.5
Jan 01 2018
Jan 01 2019
Jan 01 2020
Jan 01 2021

```
## [1] "LTC"
```


400
300
200
100
0
y
2018
2019
2020
2021
2022
ds


LTC
2018−01−01 / 2021−10−31
300
200
100
Jan 01 2018
Jan 01 2019
Jan 01 2020
Jan 01 2021