EDA

Annie Cohen and Lian Morales

4/19/2021

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# pulling the data from the Los Angeles County GitHub
casedata <- read.csv(text = getURL("https://raw.githubusercontent.com/datadesk/california-coronavirus-d</pre>
  filter(county == "Los Angeles") %>%
  mutate(date = date(date), month = month(date)) %>%
  map_df(rev) %>%
  filter(!is.na(new_confirmed_cases) & between(date, date("2020-04-01"),date("2021-03-31")))
# creating the time series
case.ts <- ts(casedata$new_confirmed_cases, start = 1, frequency = 1)</pre>
# averaging dec 25th and 26th
case.ts[269] <- 14711
case.ts[270] <- 14712
## april 1 - sep 30
case.ts.1 \leftarrow ts(case.ts[1:183], start = 1, frequency = 1)
# april 1 - jul 14
case.ts.1.1 \leftarrow ts(case.ts[1:105], start = 1, frequency = 1)
# jul 15 - sep 30
case.ts.1.2 <- ts(case.ts[106:183], start = 1, frequency = 1)</pre>
## oct 1 - mar 31
case.ts.2 \leftarrow ts(case.ts[184:365], start = 1, frequency = 1)
# oct 1 - dec 20
case.ts.2.1 <- ts(case.ts[184:264], start = 1, frequency = 1)</pre>
# dec 21 - mar 31
case.ts.2.2 <- ts(case.ts[265:365], start = 1, frequency = 1)</pre>
## april 1 - july 14
bxcx.1.1 <- BoxCox.ar(case.ts.1.1)</pre>
## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible
## convergence problem: optim gave code = 1
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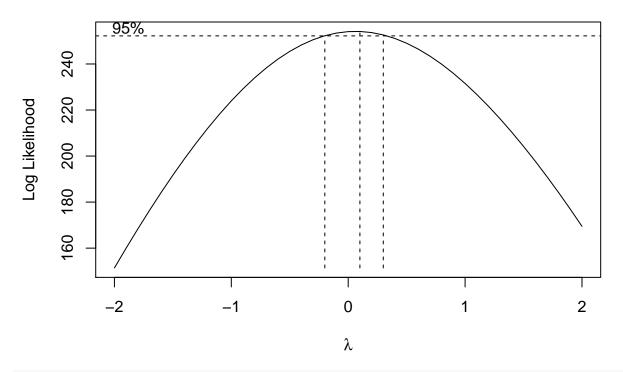
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bxcx.1.1\$mle

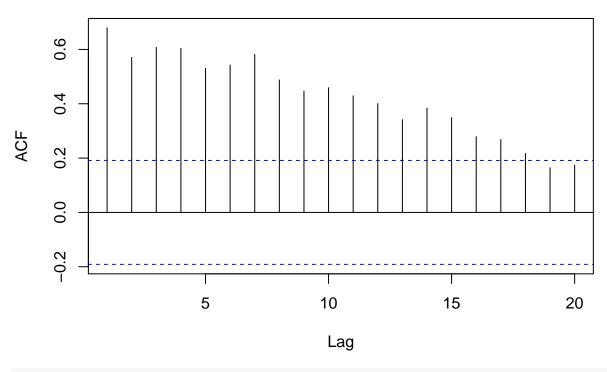
[1] 0.1

bxcx.1.1\$ci

[1] -0.2 0.3

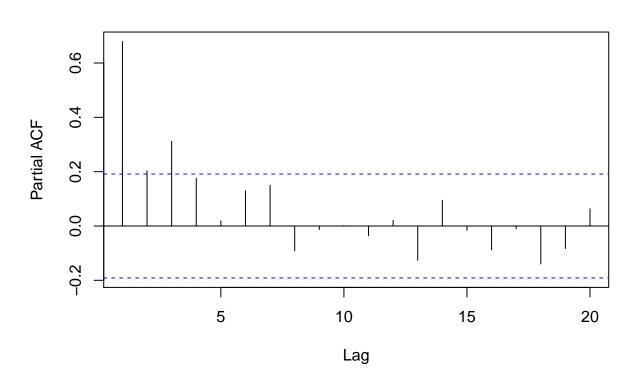
acf(case.ts.1.1)

Series case.ts.1.1



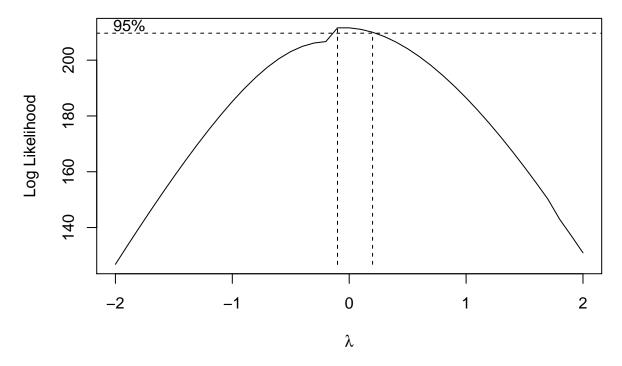
pacf(case.ts.1.1)

Series case.ts.1.1



```
## july 15 - september 30
bxcx.1.2 <- BoxCox.ar(case.ts.1.2)</pre>
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bxcx.1.2\$mle

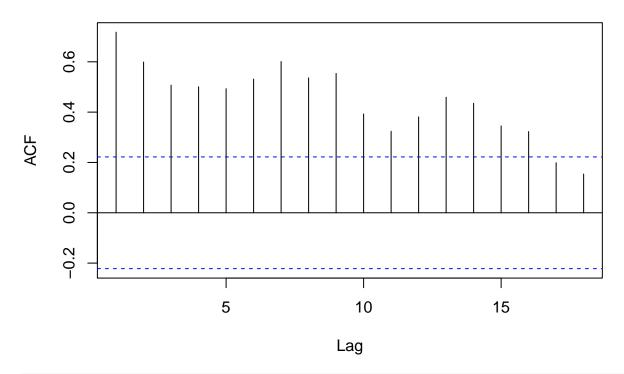
[1] -0.1

bxcx.1.2\$ci

[1] -0.1 0.2

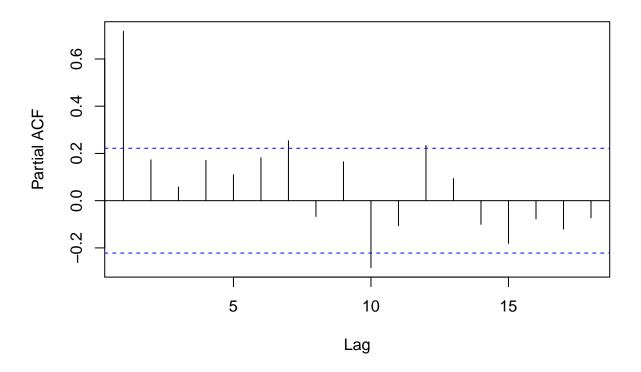
acf(case.ts.1.2)

Series case.ts.1.2



pacf(case.ts.1.2)

Series case.ts.1.2



october 1 - december 20 bxcx.2.1 <- BoxCox.ar(case.ts.2.1)</pre> ## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arima0(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arima0(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arima0(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1 ## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible ## convergence problem: optim gave code = 1

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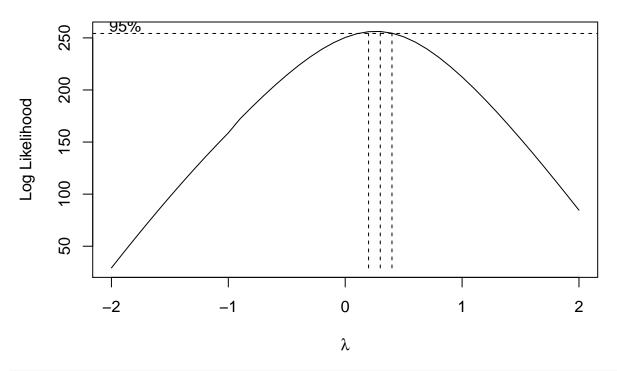
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bxcx.2.1\$mle

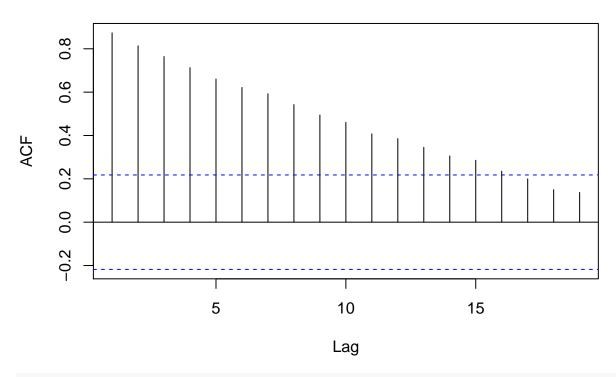
[1] 0.3

bxcx.2.1\$ci

[1] 0.2 0.4

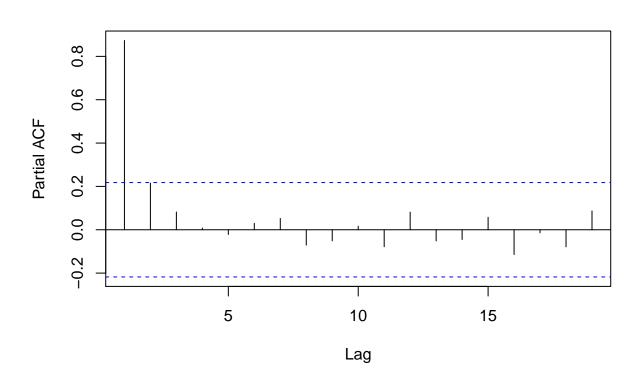
acf(case.ts.2.1)

Series case.ts.2.1



pacf(case.ts.2.1)

Series case.ts.2.1



```
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## convergence problem: optim gave code = 1
## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible
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## convergence problem: optim gave code = 1
## Warning in arimaO(x, order = c(i, OL, OL), include.mean = demean): possible
## convergence problem: optim gave code = 1
```

```
## Warning in arima0(x, order = c(i, OL, OL), include.mean = demean): possible
## convergence problem: optim gave code = 1

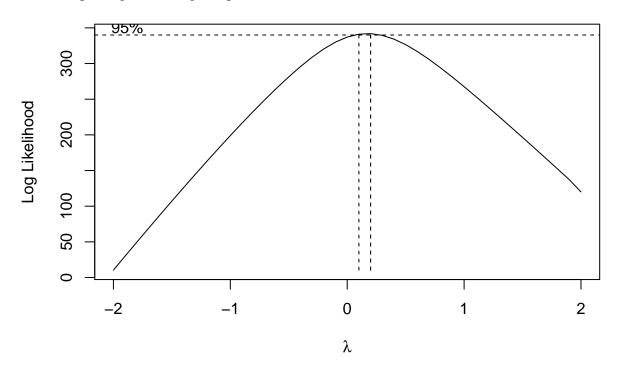
## Warning in arima0(x, order = c(i, OL, OL), include.mean = demean): possible
## convergence problem: optim gave code = 1

## Warning in arima0(x, order = c(i, OL, OL), include.mean = demean): possible
## convergence problem: optim gave code = 1

## Warning in arima0(x, order = c(i, OL, OL), include.mean = demean): possible
## convergence problem: optim gave code = 1

## Warning in arima0(x, order = c(i, OL, OL), include.mean = demean): possible
## convergence problem: optim gave code = 1

## Warning in arima0(x, order = c(i, OL, OL), include.mean = demean): possible
## convergence problem: optim gave code = 1
```



bxcx.2.2\$mle

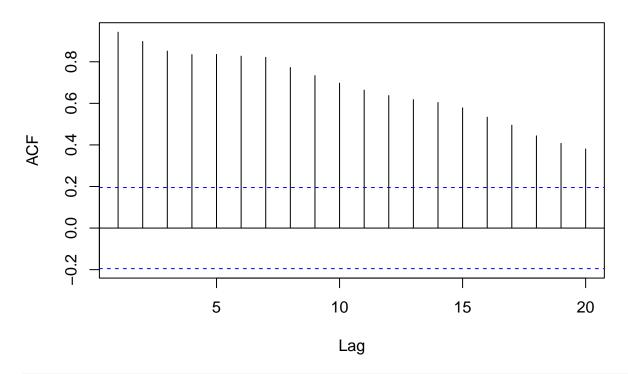
[1] 0.2

bxcx.2.2\$ci

[1] 0.1 0.2

acf(case.ts.2.2)

Series case.ts.2.2



pacf(case.ts.2.2)

Series case.ts.2.2

