Chapter 8 Autocorrelation Assignment

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1 Introduction

I wrote three scripts (so far!). Initially I wrote a python-ish functions script, but I wanted to make this run using Rscript, which I couldnt. I therefore rewrote I long ugly code, thinking that if I ran that from Rscript it would simple run through line by line. But the load command would not work. I also checked the results of my calculations against the R acf() function, and they were the same, so I wrote another script using that.

2 Graphs

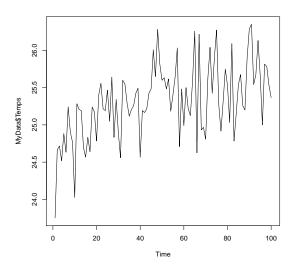


Figure 1: Time series plot.

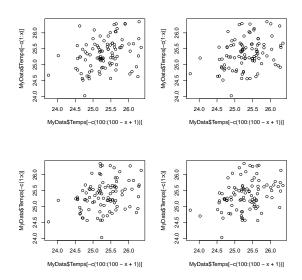


Figure 2: Scatter plots of years for lags of 1 to 4 years.

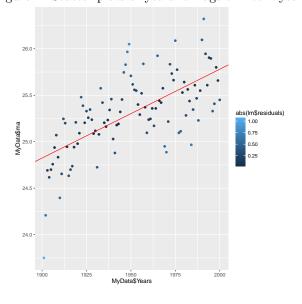


Figure 3: Plot of moving averages and fit. $\,$

3 Code

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##/Just/bin/env Resript
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## get the data and make two vectors coz easier for loops
load("../Data/KeyWestAnnualMeanTemperature.RData")
Years = ats[[2]]
Years = ats[[2]]
Years = ats[[2]]
## Job simple time seriesgraphics.off()
## J
```

Figure 4: Longwinded and ugly without functions.

Figure 5: With functions.

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Figure 6: Using acf() and pipes.