Assignment 7: Time Series Analysis

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## OVERVIEW

This exercise accompanies the lessons in Environmental Data Analytics on time series analysis.

## Directions

1. Change “Student Name” on line 3 (above) with your name.
2. Work through the steps, **creating code and output** that fulfill each instruction.
3. Be sure to **answer the questions** in this assignment document.
4. When you have completed the assignment, **Knit** the text and code into a single PDF file.
5. After Knitting, submit the completed exercise (PDF file) to the dropbox in Sakai. Add your last name into the file name (e.g., “Fay\_A07\_TimeSeries.Rmd”) prior to submission.

The completed exercise is due on Monday, March 14 at 7:00 pm.

## Set up

1. Set up your session:

* Check your working directory
* Load the tidyverse, lubridate, zoo, and trend packages
* Set your ggplot theme

#1  
getwd()

## [1] "/Users/samsaltman/Documents/R/Environmental\_Data\_Analytics\_2022"

library(tidyverse)

## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.1 ──

## ✓ ggplot2 3.3.5 ✓ purrr 0.3.4  
## ✓ tibble 3.1.4 ✓ dplyr 1.0.7  
## ✓ tidyr 1.1.3 ✓ stringr 1.4.0  
## ✓ readr 2.0.1 ✓ forcats 0.5.1

## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

library(lubridate)

##   
## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':  
##   
## date, intersect, setdiff, union

library(trend)  
library(zoo)

##   
## Attaching package: 'zoo'

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

library(Kendall)  
library(tseries)

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

library(plyr)

## ------------------------------------------------------------------------------

## You have loaded plyr after dplyr - this is likely to cause problems.  
## If you need functions from both plyr and dplyr, please load plyr first, then dplyr:  
## library(plyr); library(dplyr)

## ------------------------------------------------------------------------------

##   
## Attaching package: 'plyr'

## The following objects are masked from 'package:dplyr':  
##   
## arrange, count, desc, failwith, id, mutate, rename, summarise,  
## summarize

## The following object is masked from 'package:purrr':  
##   
## compact

library(dplyr)  
  
mytheme <- theme\_classic(base\_size = 14) +  
 theme(axis.text = element\_text(color = "black"),   
 legend.position = "right")  
theme\_set(mytheme)

1. Import the ten datasets from the Ozone\_TimeSeries folder in the Raw data folder. These contain ozone concentrations at Garinger High School in North Carolina from 2010-2019 (the EPA air database only allows downloads for one year at a time). Import these either individually or in bulk and then combine them into a single dataframe named GaringerOzone of 3589 observation and 20 variables.

#2  
  
Ozone\_TimeSeries\_csv = list.files(path = "./Data/Raw/Ozone\_TimeSeries/", pattern="\*.csv", full.names=TRUE)  
Ozone\_TimeSeries\_csv

## [1] "./Data/Raw/Ozone\_TimeSeries//EPAair\_O3\_GaringerNC2010\_raw.csv"  
## [2] "./Data/Raw/Ozone\_TimeSeries//EPAair\_O3\_GaringerNC2011\_raw.csv"  
## [3] "./Data/Raw/Ozone\_TimeSeries//EPAair\_O3\_GaringerNC2012\_raw.csv"  
## [4] "./Data/Raw/Ozone\_TimeSeries//EPAair\_O3\_GaringerNC2013\_raw.csv"  
## [5] "./Data/Raw/Ozone\_TimeSeries//EPAair\_O3\_GaringerNC2014\_raw.csv"  
## [6] "./Data/Raw/Ozone\_TimeSeries//EPAair\_O3\_GaringerNC2015\_raw.csv"  
## [7] "./Data/Raw/Ozone\_TimeSeries//EPAair\_O3\_GaringerNC2016\_raw.csv"  
## [8] "./Data/Raw/Ozone\_TimeSeries//EPAair\_O3\_GaringerNC2017\_raw.csv"  
## [9] "./Data/Raw/Ozone\_TimeSeries//EPAair\_O3\_GaringerNC2018\_raw.csv"  
## [10] "./Data/Raw/Ozone\_TimeSeries//EPAair\_O3\_GaringerNC2019\_raw.csv"

GaringerOzone <- Ozone\_TimeSeries\_csv %>%  
 ldply(read.csv)

## Wrangle

1. Set your date column as a date class.
2. Wrangle your dataset so that it only contains the columns Date, Daily.Max.8.hour.Ozone.Concentration, and DAILY\_AQI\_VALUE.
3. Notice there are a few days in each year that are missing ozone concentrations. We want to generate a daily dataset, so we will need to fill in any missing days with NA. Create a new data frame that contains a sequence of dates from 2010-01-01 to 2019-12-31 (hint: as.data.frame(seq())). Call this new data frame Days. Rename the column name in Days to “Date”.
4. Use a left\_join to combine the data frames. Specify the correct order of data frames within this function so that the final dimensions are 3652 rows and 3 columns. Call your combined data frame GaringerOzone.

# 3  
GaringerOzone$Date <- as.Date(GaringerOzone$Date , format = "%m/%d/%Y")  
  
# 4  
Wrangle\_GaringerOzone <- GaringerOzone %>%  
 select(Date, Daily.Max.8.hour.Ozone.Concentration, DAILY\_AQI\_VALUE )  
Wrangle\_GaringerOzone

## Date Daily.Max.8.hour.Ozone.Concentration DAILY\_AQI\_VALUE  
## 1 2010-01-01 0.031 29  
## 2 2010-01-02 0.033 31  
## 3 2010-01-03 0.035 32  
## 4 2010-01-04 0.031 29  
## 5 2010-01-05 0.027 25  
## 6 2010-01-07 0.033 31  
## 7 2010-01-08 0.035 32  
## 8 2010-01-09 0.032 30  
## 9 2010-01-10 0.032 30  
## 10 2010-01-11 0.030 28  
## 11 2010-01-12 0.026 24  
## 12 2010-01-16 0.035 32  
## 13 2010-01-17 0.028 26  
## 14 2010-01-18 0.035 32  
## 15 2010-01-19 0.029 27  
## 16 2010-01-20 0.035 32  
## 17 2010-01-21 0.015 14  
## 18 2010-01-22 0.023 21  
## 19 2010-01-23 0.026 24  
## 20 2010-01-24 0.035 32  
## 21 2010-01-25 0.036 33  
## 22 2010-01-26 0.028 26  
## 23 2010-01-27 0.020 19  
## 24 2010-01-28 0.031 29  
## 25 2010-01-29 0.033 31  
## 26 2010-01-30 0.032 30  
## 27 2010-01-31 0.037 34  
## 28 2010-02-01 0.034 31  
## 29 2010-02-02 0.023 21  
## 30 2010-02-03 0.029 27  
## 31 2010-02-04 0.030 28  
## 32 2010-02-05 0.029 27  
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## 43 2010-02-16 0.038 35  
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## 81 2010-03-26 0.041 38  
## 82 2010-03-27 0.046 43  
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## 84 2010-03-29 0.045 42  
## 85 2010-03-30 0.046 43  
## 86 2010-03-31 0.051 47  
## 87 2010-04-01 0.061 71  
## 88 2010-04-02 0.073 108  
## 89 2010-04-03 0.065 84  
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## 3206 2018-12-10 0.035 32  
## 3207 2018-12-11 0.026 24  
## 3208 2018-12-12 0.028 26  
## 3209 2018-12-13 0.015 14  
## 3210 2018-12-14 0.018 17  
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## 3212 2018-12-16 0.026 24  
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## 3214 2018-12-18 0.031 29  
## 3215 2018-12-19 0.024 22  
## 3216 2018-12-20 0.028 26  
## 3217 2018-12-21 0.031 29  
## 3218 2018-12-22 0.023 21  
## 3219 2018-12-23 0.028 26  
## 3220 2018-12-24 0.032 30  
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## 3224 2018-12-28 0.019 18  
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## 3226 2018-12-30 0.029 27  
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## 3228 2019-01-02 0.021 19  
## 3229 2019-01-03 0.013 12  
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## 3254 2019-01-29 0.034 31  
## 3255 2019-01-30 0.036 33  
## 3256 2019-01-31 0.037 34  
## 3257 2019-02-01 0.042 39  
## 3258 2019-02-02 0.045 42  
## 3259 2019-02-03 0.044 41  
## 3260 2019-02-04 0.043 40  
## 3261 2019-02-05 0.035 32  
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## 3263 2019-02-07 0.036 33  
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## 3265 2019-02-09 0.040 37  
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## 3267 2019-02-11 0.019 18  
## 3268 2019-02-12 0.011 10  
## 3269 2019-02-13 0.041 38  
## 3270 2019-02-14 0.038 35  
## 3271 2019-02-15 0.039 36  
## 3272 2019-02-16 0.037 34  
## 3273 2019-02-17 0.028 26  
## 3274 2019-02-18 0.035 32  
## 3275 2019-02-19 0.026 24  
## 3276 2019-02-20 0.029 27  
## 3277 2019-02-21 0.020 19  
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## 3279 2019-02-23 0.032 30  
## 3280 2019-02-24 0.044 41  
## 3281 2019-02-25 0.044 41  
## 3282 2019-02-26 0.046 43  
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## 3284 2019-02-28 0.030 28  
## 3285 2019-03-01 0.020 19  
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## 3287 2019-03-03 0.015 14  
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## 3290 2019-03-06 0.045 42  
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## 3293 2019-03-09 0.026 24  
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## 3303 2019-03-19 0.049 45  
## 3304 2019-03-20 0.053 49  
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## 3307 2019-03-23 0.054 50  
## 3308 2019-03-24 0.057 58  
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## 3312 2019-03-28 0.057 58  
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## 3315 2019-03-31 0.045 42  
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## 3317 2019-04-02 0.043 40  
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## 3374 2019-05-30 0.051 47  
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## 3377 2019-06-02 0.064 80  
## 3378 2019-06-03 0.061 71  
## 3379 2019-06-04 0.059 64  
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## 3385 2019-06-10 0.036 33  
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## 3387 2019-06-12 0.039 36  
## 3388 2019-06-13 0.045 42  
## 3389 2019-06-14 0.061 71  
## 3390 2019-06-15 0.054 50  
## 3391 2019-06-16 0.044 41  
## 3392 2019-06-17 0.043 40  
## 3393 2019-06-18 0.033 31  
## 3394 2019-06-19 0.033 31  
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## 3396 2019-06-21 0.048 44  
## 3397 2019-06-22 0.052 48  
## 3398 2019-06-23 0.047 44  
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## 3403 2019-06-28 0.068 93  
## 3404 2019-06-29 0.061 71  
## 3405 2019-06-30 0.051 47  
## 3406 2019-07-01 0.062 74  
## 3407 2019-07-02 0.077 122  
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## 3413 2019-07-08 0.064 80  
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## 3426 2019-07-21 0.036 33  
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## 3432 2019-07-27 0.059 64  
## 3433 2019-07-28 0.069 97  
## 3434 2019-07-29 0.064 80  
## 3435 2019-07-30 0.060 67  
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## 3454 2019-08-18 0.056 54  
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## 3473 2019-09-06 0.056 54  
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## 3481 2019-09-14 0.037 34  
## 3482 2019-09-15 0.046 43  
## 3483 2019-09-16 0.056 54  
## 3484 2019-09-17 0.073 108  
## 3485 2019-09-18 0.045 42  
## 3486 2019-09-19 0.047 44  
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## 3488 2019-09-21 0.055 51  
## 3489 2019-09-22 0.049 45  
## 3490 2019-09-23 0.061 71  
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## 3492 2019-09-25 0.070 100  
## 3493 2019-09-26 0.064 80  
## 3494 2019-09-27 0.054 50  
## 3495 2019-09-28 0.046 43  
## 3496 2019-09-29 0.055 51  
## 3497 2019-09-30 0.048 44  
## 3498 2019-10-01 0.069 97  
## 3499 2019-10-02 0.063 77  
## 3500 2019-10-03 0.067 90  
## 3501 2019-10-04 0.060 67  
## 3502 2019-10-05 0.030 28  
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## 3504 2019-10-07 0.038 35  
## 3505 2019-10-08 0.030 28  
## 3506 2019-10-09 0.044 41  
## 3507 2019-10-10 0.046 43  
## 3508 2019-10-11 0.052 48  
## 3509 2019-10-12 0.046 43  
## 3510 2019-10-13 0.019 18  
## 3511 2019-10-14 0.045 42  
## 3512 2019-10-15 0.049 45  
## 3513 2019-10-16 0.031 29  
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## 3521 2019-10-24 0.045 42  
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## 3523 2019-10-26 0.037 34  
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## 3525 2019-10-28 0.039 36  
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## 3527 2019-10-30 0.020 19  
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## 3529 2019-11-01 0.030 28  
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## 3532 2019-11-04 0.034 31  
## 3533 2019-11-05 0.026 24  
## 3534 2019-11-06 0.039 36  
## 3535 2019-11-07 0.035 32  
## 3536 2019-11-08 0.033 31  
## 3537 2019-11-09 0.034 31  
## 3538 2019-11-10 0.037 34  
## 3539 2019-11-11 0.037 34  
## 3540 2019-11-12 0.029 27  
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## 3543 2019-11-15 0.034 31  
## 3544 2019-11-16 0.034 31  
## 3545 2019-11-17 0.035 32  
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## 3547 2019-11-19 0.015 14  
## 3548 2019-11-20 0.033 31  
## 3549 2019-11-21 0.032 30  
## 3550 2019-11-22 0.035 32  
## 3551 2019-11-23 0.016 15  
## 3552 2019-11-24 0.036 33  
## 3553 2019-11-25 0.033 31  
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## 3555 2019-11-27 0.024 22  
## 3556 2019-11-28 0.037 34  
## 3557 2019-11-29 0.026 24  
## 3558 2019-11-30 0.024 22  
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## 3561 2019-12-03 0.025 23  
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## 3566 2019-12-08 0.033 31  
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## 3568 2019-12-10 0.030 28  
## 3569 2019-12-11 0.035 32  
## 3570 2019-12-12 0.032 30  
## 3571 2019-12-13 0.014 13  
## 3572 2019-12-14 0.028 26  
## 3573 2019-12-15 0.031 29  
## 3574 2019-12-16 0.036 33  
## 3575 2019-12-17 0.029 27  
## 3576 2019-12-18 0.035 32  
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## 3578 2019-12-20 0.020 19  
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## 3580 2019-12-22 0.027 25  
## 3581 2019-12-23 0.028 26  
## 3582 2019-12-24 0.036 33  
## 3583 2019-12-25 0.034 31  
## 3584 2019-12-26 0.026 24  
## 3585 2019-12-27 0.021 19  
## 3586 2019-12-28 0.031 29  
## 3587 2019-12-29 0.027 25  
## 3588 2019-12-30 0.039 36  
## 3589 2019-12-31 0.035 32

# 5  
  
Days <- as.data.frame(seq(as.Date("2010-01-01"),as.Date("2019-12-31"), by = 1))  
  
  
Days <- Days %>%  
 mutate(Date = seq(as.Date("2010-01-01"),as.Date("2019-12-31"), by = 1)) %>%  
 select(Date)  
Days

## Date  
## 1 2010-01-01  
## 2 2010-01-02  
## 3 2010-01-03  
## 4 2010-01-04  
## 5 2010-01-05  
## 6 2010-01-06  
## 7 2010-01-07  
## 8 2010-01-08  
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## 10 2010-01-10  
## 11 2010-01-11  
## 12 2010-01-12  
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## 14 2010-01-14  
## 15 2010-01-15  
## 16 2010-01-16  
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## 20 2010-01-20  
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## 33 2010-02-02  
## 34 2010-02-03  
## 35 2010-02-04  
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## 37 2010-02-06  
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## 39 2010-02-08  
## 40 2010-02-09  
## 41 2010-02-10  
## 42 2010-02-11  
## 43 2010-02-12  
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## 57 2010-02-26  
## 58 2010-02-27  
## 59 2010-02-28  
## 60 2010-03-01  
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## 71 2010-03-12  
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# 6  
  
GaringerOzone <- left\_join(Days, Wrangle\_GaringerOzone)

## Joining, by = "Date"

dim(GaringerOzone)

## [1] 3652 3

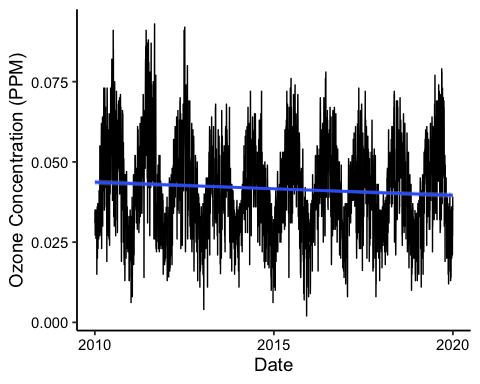
## Visualize

1. Create a line plot depicting ozone concentrations over time. In this case, we will plot actual concentrations in ppm, not AQI values. Format your axes accordingly. Add a smoothed line showing any linear trend of your data. Does your plot suggest a trend in ozone concentration over time?

#7  
lineplot\_GaringerOzone <-ggplot(GaringerOzone) +  
 aes(x = Date, y = Daily.Max.8.hour.Ozone.Concentration) +  
 geom\_line() +  
 ylab("Ozone Concentration (PPM)") +  
 geom\_smooth(method = "lm")  
print(lineplot\_GaringerOzone)

## `geom\_smooth()` using formula 'y ~ x'

## Warning: Removed 63 rows containing non-finite values (stat\_smooth).



Answer: There appears to be a slight negative trend since 2010.

## Time Series Analysis

Study question: Have ozone concentrations changed over the 2010s at this station?

1. Use a linear interpolation to fill in missing daily data for ozone concentration. Why didn’t we use a piecewise constant or spline interpolation?

#8  
summary(GaringerOzone$Daily.Max.8.hour.Ozone.Concentration)

## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's   
## 0.00200 0.03200 0.04100 0.04163 0.05100 0.09300 63

GaringerOzone$Daily.Max.8.hour.Ozone.Concentration <- zoo::na.approx(GaringerOzone$Daily.Max.8.hour.Ozone.Concentration)   
  
summary(GaringerOzone$Daily.Max.8.hour.Ozone.Concentration)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.00200 0.03200 0.04100 0.04151 0.05100 0.09300

Answer: We don’t use a spline because we are not using a quadratic function. We don’t use nearest neighbor because the gap isn’t big.

1. Create a new data frame called GaringerOzone.monthly that contains aggregated data: mean ozone concentrations for each month. In your pipe, you will need to first add columns for year and month to form the groupings. In a separate line of code, create a new Date column with each month-year combination being set as the first day of the month (this is for graphing purposes only)

#9  
GaringerOzone.monthly <- GaringerOzone %>%  
 mutate(Year = year(Date)) %>%  
 mutate(Month = month(Date)) %>%  
 group\_by(Year, Month) %>%  
 dplyr::summarise(MonthOzoneMean = mean(Daily.Max.8.hour.Ozone.Concentration))

## `summarise()` has grouped output by 'Year'. You can override using the `.groups` argument.

GaringerOzone.monthly$NewDate <- as.yearmon(paste(GaringerOzone.monthly$Year, GaringerOzone.monthly$Month), "%Y %m")  
GaringerOzone.monthly$NewDate <- as.Date(GaringerOzone.monthly$NewDate, format = "%Y %m")  
  
head(GaringerOzone.monthly)

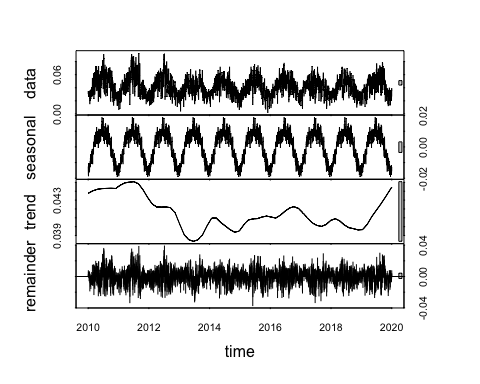
## # A tibble: 6 × 4  
## # Groups: Year [1]  
## Year Month MonthOzoneMean NewDate   
## <dbl> <dbl> <dbl> <date>   
## 1 2010 1 0.0305 2010-01-01  
## 2 2010 2 0.0345 2010-02-01  
## 3 2010 3 0.0446 2010-03-01  
## 4 2010 4 0.0556 2010-04-01  
## 5 2010 5 0.0466 2010-05-01  
## 6 2010 6 0.0576 2010-06-01

1. Generate two time series objects. Name the first GaringerOzone.daily.ts and base it on the dataframe of daily observations. Name the second GaringerOzone.monthly.ts and base it on the monthly average ozone values. Be sure that each specifies the correct start and end dates and the frequency of the time series.

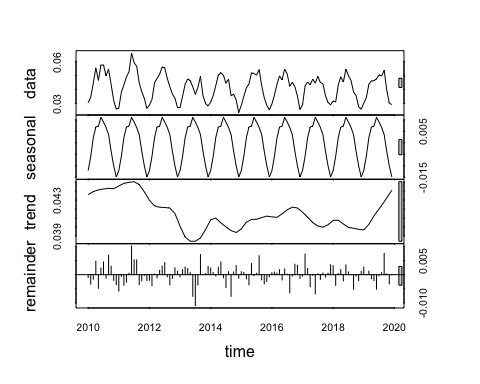
#10   
GaringerOzone.daily.ts <- ts(GaringerOzone$Daily.Max.8.hour.Ozone.Concentration, start = c(2010,1), frequency = 365)  
   
  
GaringerOzone.monthly.ts <- ts(GaringerOzone.monthly$MonthOzoneMean, start = c(2010,1), frequency = 12)

1. Decompose the daily and the monthly time series objects and plot the components using the plot() function.

#11  
  
Decompose\_GaringerOzone.daily.ts <- stl(GaringerOzone.daily.ts, s.window = "periodic")  
  
Decompose\_GaringerOzone.monthly.ts <- stl(GaringerOzone.monthly.ts, s.window = "periodic")  
  
plot(Decompose\_GaringerOzone.daily.ts)



plot(Decompose\_GaringerOzone.monthly.ts)



1. Run a monotonic trend analysis for the monthly Ozone series. In this case the seasonal Mann-Kendall is most appropriate; why is this?

#12  
  
monotonic\_month\_ozone <- Kendall::SeasonalMannKendall(GaringerOzone.monthly.ts)  
monotonic\_month\_ozone

## tau = -0.143, 2-sided pvalue =0.046724

summary(monotonic\_month\_ozone)

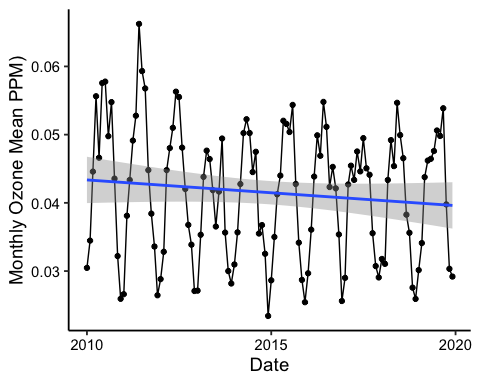
## Score = -77 , Var(Score) = 1499  
## denominator = 539.4972  
## tau = -0.143, 2-sided pvalue =0.046724

Answer: We run a monotonic test because this data has seasonality

1. Create a plot depicting mean monthly ozone concentrations over time, with both a geom\_point and a geom\_line layer. Edit your axis labels accordingly.

# 13  
  
Plot\_Mean\_Ozone <- ggplot(GaringerOzone.monthly) +  
 aes(x = NewDate, y = MonthOzoneMean) +  
 geom\_point() +  
 geom\_line() +  
 geom\_smooth( method = lm ) +  
 ylab("Monthly Ozone Mean PPM)") +  
 xlab("Date")  
print(Plot\_Mean\_Ozone)

## `geom\_smooth()` using formula 'y ~ x'



1. To accompany your graph, summarize your results in context of the research question. Include output from the statistical test in parentheses at the end of your sentence. Feel free to use multiple sentences in your interpretation.

Answer: Our results show seasonality. The Seasonal Mann Kendall test confirms the statistical significance of a downwards monotonic seasonal trend (2-sided p-value =0.046724, Score = -77).

1. Subtract the seasonal component from the GaringerOzone.monthly.ts. Hint: Look at how we extracted the series components for the EnoDischarge on the lesson Rmd file.
2. Run the Mann Kendall test on the non-seasonal Ozone monthly series. Compare the results with the ones obtained with the Seasonal Mann Kendall on the complete series.

#15 GaringerOzone.monthly.ts <- ts(GaringerOzone.monthly$MonthOzoneMean, start = c(2010,1), frequency = 12)  
  
SubtractSeasonal <- as.data.frame(Decompose\_GaringerOzone.monthly.ts$time.series[,2:3])  
  
TS\_SubtractSeasonal <- ts(SubtractSeasonal)  
  
#16  
  
OzoneMannKendall\_month <- Kendall::MannKendall(TS\_SubtractSeasonal)  
OzoneMannKendall\_month

## tau = -0.568, 2-sided pvalue =< 2.22e-16

summary(OzoneMannKendall\_month)

## Score = -16300 , Var(Score) = 1545533  
## denominator = 28680  
## tau = -0.568, 2-sided pvalue =< 2.22e-16

Answer: The results show that when you take out seasonality the difference becomes much greater. The S score also shows that there is a stronger tendency of decrease