

Assignment 4

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Problem 1

```
# Install and import "nycflights3"

library(nycflights13)
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --

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

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

library(dplyr)
library(ggplot2)
```

Problem 1 part a

```
# Filter the dataset to display tail number, year, month, day, hour, origin,
# and humidity for all flights heading to TPA after 12pm on Nov. 1, 2013

weather2 <- weather %>%
  select(origin, year, month, day, hour, humid) %>%
  filter(hour >= 12, month == 11, day == 1, year == 2013)

flights_humidity <- flights %>%
  select(year, month, day, hour, origin, dest, tailnum) %>%
  filter(dest == 'TPA', hour >= 12, month == 11, day == 1, year == 2013)

flights_humidity %>%
  left_join(weather2, flights_humidity, by= 'hour') %>%
  filter(origin.x == origin.y) %>%
  select(-dest)

## # A tibble: 10 x 11
##   year.x month.x day.x hour origin.x tailnum origin.y year.y month.y day.y
##   <int>   <int> <int> <dbl> <chr>   <chr>   <chr>   <int>   <int> <int>
```

```
## 1 2013 11 1 14 JFK N580JB JFK 2013 11 1
## 2 2013 11 1 14 LGA N337NB LGA 2013 11 1
## 3 2013 11 1 15 EWR N567UA EWR 2013 11 1
## 4 2013 11 1 14 JFK N515MQ JFK 2013 11 1
## 5 2013 11 1 15 EWR N779JB EWR 2013 11 1
## 6 2013 11 1 16 LGA N561JB LGA 2013 11 1
## 7 2013 11 1 18 JFK N974DL JFK 2013 11 1
## 8 2013 11 1 19 LGA N319NB LGA 2013 11 1
## 9 2013 11 1 19 EWR N76265 EWR 2013 11 1
## 10 2013 11 1 19 JFK N768JB JFK 2013 11 1
## # ... with 1 more variable: humid <dbl>
```

Problem 1 part b Explain the difference between the following two joins:

- (1) `anti_join(flights, airports, by = c("dest" = "faa"))`
- (2) `anti_join(airports, flights, by = c("faa" = "dest"))`

1 will return any flights that had a destination not in the list of faa destinations. 2 will return any airport in the list of faa destinations that wasn't a destination of any flight in the dataset.

Both joins are looking for matches between dest and faa, but 1 will return flights minus the matches and 2 will return airports minus the matches.

Problem 2 part c

```
# Filter flights to show planes that have flown 100 or more flights

# flights_100 is a list of all the tail numbers that have flown at least 100 flights
flights_100 <- flights %>%
  group_by(tailnum) %>%
  summarise(flight_count = n()) %>%
  filter(flight_count >= 100)

# flight_100_info is a copy of flights,
#but only contains flights that have tail numbers listed in flights_100
flights_100_info <- flights %>%
  semi_join(flights_100)
```

```
## Joining, by = "tailnum"
```

```
print(flights_100_info, n=20)
```

```
## # A tibble: 230,902 x 19
##   year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
##   <int> <int> <int>   <int>         <int>         <dbl>   <int>         <int>
## 1 2013     1     1     517           515           2     830           819
## 2 2013     1     1     533           529           4     850           830
## 3 2013     1     1     544           545          -1    1004          1022
## 4 2013     1     1     554           558          -4     740           728
## 5 2013     1     1     555           600          -5     913           854
## 6 2013     1     1     557           600          -3     709           723
## 7 2013     1     1     557           600          -3     838           846
## 8 2013     1     1     558           600          -2     849           851
```

```
## 9 2013 1 1 558 600 -2 853 856
## 10 2013 1 1 558 600 -2 923 937
## 11 2013 1 1 559 559 0 702 706
## 12 2013 1 1 559 600 -1 854 902
## 13 2013 1 1 600 600 0 851 858
## 14 2013 1 1 600 600 0 837 825
## 15 2013 1 1 601 600 1 844 850
## 16 2013 1 1 602 605 -3 821 805
## 17 2013 1 1 606 610 -4 837 845
## 18 2013 1 1 607 607 0 858 915
## 19 2013 1 1 608 600 8 807 735
## 20 2013 1 1 613 610 3 925 921
## # ... with 230,882 more rows, and 11 more variables: arr_delay <dbl>,
## # carrier <chr>, flight <int>, tailnum <chr>, origin <chr>, dest <chr>,
## # air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dtm>
```

Problem 1 part d

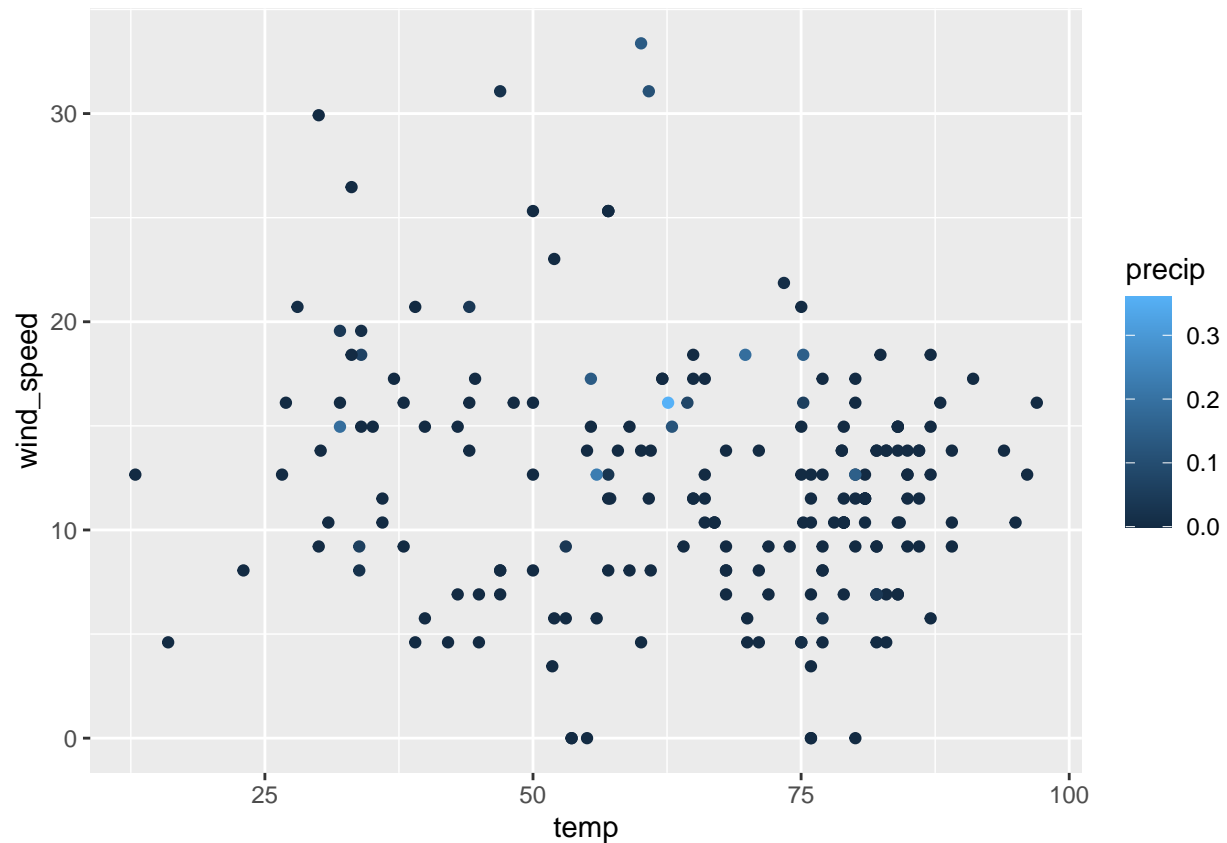
```
# What weather conditions make it more likely to see a delay?
# I'm going to use dep_delay to measure the delays
# I'm going to analyze the weather by looking at temp, wind_speed, and precip
```

```
flight_weather <- flights %>%
  full_join(weather) %>%
  select(dep_delay, temp, wind_speed, precip) %>%
  filter(dep_delay >= 1) %>%
  arrange(desc(dep_delay))
```

```
## Joining, by = c("year", "month", "day", "origin", "hour", "time_hour")
```

```
worst_delays <- flight_weather[c(1:200), c(1:4)]

ggplot(worst_delays, aes(x = temp, y=wind_speed, color = precip)) +
  geom_point()
```



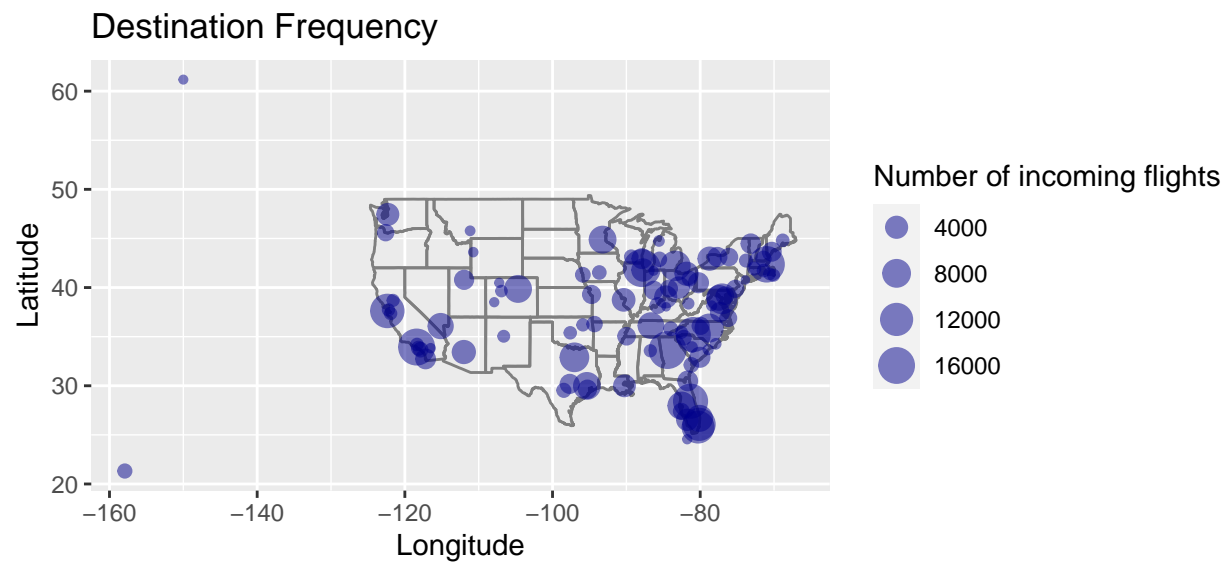
Looking at the plot of the longest 200 departure delays, it appears that cold temperatures and high wind speeds can cause delays, but precipitation is the biggest factor.

Problem 1 part e

```
# Create a map that sizes each destination airport by number of incoming flights

flights_dest <- flights %>%
  group_by(dest) %>%
  summarise(dest_count = n()) %>%
  inner_join(airports, by = c("dest" = "faa"))

flights_dest %>%
  ggplot(aes(lon, lat, size = dest_count)) +
  borders("state") +
  geom_point(stat="identity", alpha=0.5, color="darkblue") +
  coord_quickmap() +
  xlab("Longitude") +
  ylab("Latitude") +
  ggtitle("Destination Frequency") +
  labs(size = "Number of incoming flights")
```



Problem 2

```
#library(usmap)
#library(ggplot2)

us_states <- map_data("state")
vaccine_by_state <- read.csv("covid19_vaccinations_USA.csv", header = TRUE)

vaccine_by_state %>%
  right_join(us_states, by=c("state" = "region"))
```

##	state	Janssen_Doses	Moderna_Doses	Pfizer_Doses	long
## 1	alabama	137009	1968575	2334306	-87.46201
## 2	alabama	137009	1968575	2334306	-87.48493
## 3	alabama	137009	1968575	2334306	-87.52503
## 4	alabama	137009	1968575	2334306	-87.53076
## 5	alabama	137009	1968575	2334306	-87.57087
## 6	alabama	137009	1968575	2334306	-87.58806
## 7	alabama	137009	1968575	2334306	-87.59379
## 8	alabama	137009	1968575	2334306	-87.59379
## 9	alabama	137009	1968575	2334306	-87.67400
## 10	alabama	137009	1968575	2334306	-87.81152
## 11	alabama	137009	1968575	2334306	-87.88026
## 12	alabama	137009	1968575	2334306	-87.92037
## 13	alabama	137009	1968575	2334306	-87.95475
## 14	alabama	137009	1968575	2334306	-88.00632

## 15	alabama	137009	1968575	2334306	-88.01778
## 16	alabama	137009	1968575	2334306	-88.01205
## 17	alabama	137009	1968575	2334306	-87.99486
## 18	alabama	137009	1968575	2334306	-87.95475
## 19	alabama	137009	1968575	2334306	-87.90318
## 20	alabama	137009	1968575	2334306	-87.82870
## 21	alabama	137009	1968575	2334306	-87.80006
## 22	alabama	137009	1968575	2334306	-87.80006
## 23	alabama	137009	1968575	2334306	-87.81724
## 24	alabama	137009	1968575	2334306	-87.84016
## 25	alabama	137009	1968575	2334306	-87.85162
## 26	alabama	137009	1968575	2334306	-87.87453
## 27	alabama	137009	1968575	2334306	-87.90318
## 28	alabama	137009	1968575	2334306	-87.92610
## 29	alabama	137009	1968575	2334306	-87.93183
## 30	alabama	137009	1968575	2334306	-87.94329
## 31	alabama	137009	1968575	2334306	-87.92037
## 32	alabama	137009	1968575	2334306	-87.91464
## 33	alabama	137009	1968575	2334306	-87.92610
## 34	alabama	137009	1968575	2334306	-87.92037
## 35	alabama	137009	1968575	2334306	-87.94902
## 36	alabama	137009	1968575	2334306	-87.98913
## 37	alabama	137009	1968575	2334306	-88.00632
## 38	alabama	137009	1968575	2334306	-88.01778
## 39	alabama	137009	1968575	2334306	-88.03497
## 40	alabama	137009	1968575	2334306	-88.04642
## 41	alabama	137009	1968575	2334306	-88.05215
## 42	alabama	137009	1968575	2334306	-88.05215
## 43	alabama	137009	1968575	2334306	-88.06361
## 44	alabama	137009	1968575	2334306	-88.06934
## 45	alabama	137009	1968575	2334306	-88.08080
## 46	alabama	137009	1968575	2334306	-88.08080
## 47	alabama	137009	1968575	2334306	-88.09799
## 48	alabama	137009	1968575	2334306	-88.10944
## 49	alabama	137009	1968575	2334306	-88.11518
## 50	alabama	137009	1968575	2334306	-88.10944
## 51	alabama	137009	1968575	2334306	-88.12091
## 52	alabama	137009	1968575	2334306	-88.12091
## 53	alabama	137009	1968575	2334306	-88.12664
## 54	alabama	137009	1968575	2334306	-88.13237
## 55	alabama	137009	1968575	2334306	-88.14383
## 56	alabama	137009	1968575	2334306	-88.16102
## 57	alabama	137009	1968575	2334306	-88.17248
## 58	alabama	137009	1968575	2334306	-88.18966
## 59	alabama	137009	1968575	2334306	-88.22404
## 60	alabama	137009	1968575	2334306	-88.23550
## 61	alabama	137009	1968575	2334306	-88.28706
## 62	alabama	137009	1968575	2334306	-88.31571
## 63	alabama	137009	1968575	2334306	-88.33290
## 64	alabama	137009	1968575	2334306	-88.35010
## 65	alabama	137009	1968575	2334306	-88.39021
## 66	alabama	137009	1968575	2334306	-88.40739
## 67	alabama	137009	1968575	2334306	-88.41885
## 68	alabama	137009	1968575	2334306	-88.43031

## 69	alabama	137009	1968575	2334306	-88.45322
## 70	alabama	137009	1968575	2334306	-88.46468
## 71	alabama	137009	1968575	2334306	-88.47614
## 72	alabama	137009	1968575	2334306	-88.43031
## 73	alabama	137009	1968575	2334306	-88.43031
## 74	alabama	137009	1968575	2334306	-88.39021
## 75	alabama	137009	1968575	2334306	-88.35010
## 76	alabama	137009	1968575	2334306	-88.33863
## 77	alabama	137009	1968575	2334306	-88.29853
## 78	alabama	137009	1968575	2334306	-88.27560
## 79	alabama	137009	1968575	2334306	-88.25269
## 80	alabama	137009	1968575	2334306	-88.20686
## 81	alabama	137009	1968575	2334306	-88.20686
## 82	alabama	137009	1968575	2334306	-88.18394
## 83	alabama	137009	1968575	2334306	-88.16675
## 84	alabama	137009	1968575	2334306	-88.14955
## 85	alabama	137009	1968575	2334306	-88.10944
## 86	alabama	137009	1968575	2334306	-88.13237
## 87	alabama	137009	1968575	2334306	-88.16675
## 88	alabama	137009	1968575	2334306	-88.18966
## 89	alabama	137009	1968575	2334306	-88.18394
## 90	alabama	137009	1968575	2334306	-87.98913
## 91	alabama	137009	1968575	2334306	-87.60525
## 92	alabama	137009	1968575	2334306	-87.22710
## 93	alabama	137009	1968575	2334306	-87.20417
## 94	alabama	137009	1968575	2334306	-86.82603
## 95	alabama	137009	1968575	2334306	-86.78019
## 96	alabama	137009	1968575	2334306	-86.31036
## 97	alabama	137009	1968575	2334306	-85.85200
## 98	alabama	137009	1968575	2334306	-85.61135
## 99	alabama	137009	1968575	2334306	-85.58844
## 100	alabama	137009	1968575	2334306	-85.54260
## 101	alabama	137009	1968575	2334306	-85.52541
## 102	alabama	137009	1968575	2334306	-85.46812
## 103	alabama	137009	1968575	2334306	-85.42801
## 104	alabama	137009	1968575	2334306	-85.40509
## 105	alabama	137009	1968575	2334306	-85.39363
## 106	alabama	137009	1968575	2334306	-85.34779
## 107	alabama	137009	1968575	2334306	-85.31342
## 108	alabama	137009	1968575	2334306	-85.29623
## 109	alabama	137009	1968575	2334306	-85.24466
## 110	alabama	137009	1968575	2334306	-85.23893
## 111	alabama	137009	1968575	2334306	-85.19309
## 112	alabama	137009	1968575	2334306	-85.19309
## 113	alabama	137009	1968575	2334306	-85.17018
## 114	alabama	137009	1968575	2334306	-85.14725
## 115	alabama	137009	1968575	2334306	-85.13007
## 116	alabama	137009	1968575	2334306	-85.13007
## 117	alabama	137009	1968575	2334306	-85.12434
## 118	alabama	137009	1968575	2334306	-85.10142
## 119	alabama	137009	1968575	2334306	-85.10142
## 120	alabama	137009	1968575	2334306	-85.06704
## 121	alabama	137009	1968575	2334306	-85.04986
## 122	alabama	137009	1968575	2334306	-85.00975

## 123	alabama	137009	1968575	2334306	-84.98683
## 124	alabama	137009	1968575	2334306	-84.99256
## 125	alabama	137009	1968575	2334306	-84.97537
## 126	alabama	137009	1968575	2334306	-84.98109
## 127	alabama	137009	1968575	2334306	-85.00402
## 128	alabama	137009	1968575	2334306	-84.97537
## 129	alabama	137009	1968575	2334306	-84.92381
## 130	alabama	137009	1968575	2334306	-84.90089
## 131	alabama	137009	1968575	2334306	-84.92953
## 132	alabama	137009	1968575	2334306	-84.95245
## 133	alabama	137009	1968575	2334306	-84.96964
## 134	alabama	137009	1968575	2334306	-84.99256
## 135	alabama	137009	1968575	2334306	-85.04986
## 136	alabama	137009	1968575	2334306	-85.06131
## 137	alabama	137009	1968575	2334306	-85.06131
## 138	alabama	137009	1968575	2334306	-85.06131
## 139	alabama	137009	1968575	2334306	-85.06131
## 140	alabama	137009	1968575	2334306	-85.06131
## 141	alabama	137009	1968575	2334306	-85.06131
## 142	alabama	137009	1968575	2334306	-85.07851
## 143	alabama	137009	1968575	2334306	-85.10715
## 144	alabama	137009	1968575	2334306	-85.14153
## 145	alabama	137009	1968575	2334306	-85.13580
## 146	alabama	137009	1968575	2334306	-85.13580
## 147	alabama	137009	1968575	2334306	-85.13007
## 148	alabama	137009	1968575	2334306	-85.11861
## 149	alabama	137009	1968575	2334306	-85.07851
## 150	alabama	137009	1968575	2334306	-85.06131
## 151	alabama	137009	1968575	2334306	-85.06131
## 152	alabama	137009	1968575	2334306	-85.08424
## 153	alabama	137009	1968575	2334306	-85.08424
## 154	alabama	137009	1968575	2334306	-85.09570
## 155	alabama	137009	1968575	2334306	-85.09570
## 156	alabama	137009	1968575	2334306	-85.10142
## 157	alabama	137009	1968575	2334306	-85.12434
## 158	alabama	137009	1968575	2334306	-85.12434
## 159	alabama	137009	1968575	2334306	-85.11288
## 160	alabama	137009	1968575	2334306	-85.11288
## 161	alabama	137009	1968575	2334306	-85.08997
## 162	alabama	137009	1968575	2334306	-85.04413
## 163	alabama	137009	1968575	2334306	-85.03840
## 164	alabama	137009	1968575	2334306	-85.03267
## 165	alabama	137009	1968575	2334306	-85.03267
## 166	alabama	137009	1968575	2334306	-85.01548
## 167	alabama	137009	1968575	2334306	-85.01548
## 168	alabama	137009	1968575	2334306	-85.49677
## 169	alabama	137009	1968575	2334306	-85.51968
## 170	alabama	137009	1968575	2334306	-86.04680
## 171	alabama	137009	1968575	2334306	-86.20150
## 172	alabama	137009	1968575	2334306	-86.39057
## 173	alabama	137009	1968575	2334306	-86.70570
## 174	alabama	137009	1968575	2334306	-86.79737
## 175	alabama	137009	1968575	2334306	-87.18126
## 176	alabama	137009	1968575	2334306	-87.60525

## 177	alabama	137009	1968575	2334306	-87.60525
## 178	alabama	137009	1968575	2334306	-87.61097
## 179	alabama	137009	1968575	2334306	-87.63390
## 180	alabama	137009	1968575	2334306	-87.63963
## 181	alabama	137009	1968575	2334306	-87.63390
## 182	alabama	137009	1968575	2334306	-87.61097
## 183	alabama	137009	1968575	2334306	-87.54795
## 184	alabama	137009	1968575	2334306	-87.49065
## 185	alabama	137009	1968575	2334306	-87.46201
## 186	alabama	137009	1968575	2334306	-87.45055
## 187	alabama	137009	1968575	2334306	-87.42190
## 188	alabama	137009	1968575	2334306	-87.41044
## 189	alabama	137009	1968575	2334306	-87.41044
## 190	alabama	137009	1968575	2334306	-87.43336
## 191	alabama	137009	1968575	2334306	-87.46201
## 192	alabama	137009	1968575	2334306	-87.46774
## 193	alabama	137009	1968575	2334306	-87.46201
## 194	alabama	137009	1968575	2334306	-87.44482
## 195	alabama	137009	1968575	2334306	-87.39899
## 196	alabama	137009	1968575	2334306	-87.39326
## 197	alabama	137009	1968575	2334306	-87.40472
## 198	alabama	137009	1968575	2334306	-87.42190
## 199	alabama	137009	1968575	2334306	-87.43909
## 200	alabama	137009	1968575	2334306	-87.43909
## 201	alabama	137009	1968575	2334306	-87.45055
## 202	alabama	137009	1968575	2334306	-87.46201
## 203	arkansas	98014	1294279	1573396	-94.05103
## 204	arkansas	98014	1294279	1573396	-94.05103
## 205	arkansas	98014	1294279	1573396	-94.05676
## 206	arkansas	98014	1294279	1573396	-94.07967
## 207	arkansas	98014	1294279	1573396	-94.09113
## 208	arkansas	98014	1294279	1573396	-94.11977
## 209	arkansas	98014	1294279	1573396	-94.14843
## 210	arkansas	98014	1294279	1573396	-94.15416
## 211	arkansas	98014	1294279	1573396	-94.18854
## 212	arkansas	98014	1294279	1573396	-94.20572
## 213	arkansas	98014	1294279	1573396	-94.22291
## 214	arkansas	98014	1294279	1573396	-94.22864
## 215	arkansas	98014	1294279	1573396	-94.24010
## 216	arkansas	98014	1294279	1573396	-94.26302
## 217	arkansas	98014	1294279	1573396	-94.28020
## 218	arkansas	98014	1294279	1573396	-94.29739
## 219	arkansas	98014	1294279	1573396	-94.30885
## 220	arkansas	98014	1294279	1573396	-94.36615
## 221	arkansas	98014	1294279	1573396	-94.40053
## 222	arkansas	98014	1294279	1573396	-94.40625
## 223	arkansas	98014	1294279	1573396	-94.42345
## 224	arkansas	98014	1294279	1573396	-94.45209
## 225	arkansas	98014	1294279	1573396	-94.46355
## 226	arkansas	98014	1294279	1573396	-94.47501
## 227	arkansas	98014	1294279	1573396	-94.48074
## 228	arkansas	98014	1294279	1573396	-94.49792
## 229	arkansas	98014	1294279	1573396	-94.49220
## 230	arkansas	98014	1294279	1573396	-94.49220

## 231	arkansas	98014	1294279	1573396	-94.48647
## 232	arkansas	98014	1294279	1573396	-94.48074
## 233	arkansas	98014	1294279	1573396	-94.46928
## 234	arkansas	98014	1294279	1573396	-94.45782
## 235	arkansas	98014	1294279	1573396	-94.44064
## 236	arkansas	98014	1294279	1573396	-94.44636
## 237	arkansas	98014	1294279	1573396	-94.48074
## 238	arkansas	98014	1294279	1573396	-94.50366
## 239	arkansas	98014	1294279	1573396	-94.56096
## 240	arkansas	98014	1294279	1573396	-94.57241
## 241	arkansas	98014	1294279	1573396	-94.62398
## 242	arkansas	98014	1294279	1573396	-94.08540
## 243	arkansas	98014	1294279	1573396	-94.07967
## 244	arkansas	98014	1294279	1573396	-93.89059
## 245	arkansas	98014	1294279	1573396	-93.87341
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## 1189	colorado	264998	2811381	3994177	-102.04379
## 1190	colorado	264998	2811381	3994177	-102.04379
## 1191	colorado	264998	2811381	3994177	-102.04951
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## 1193	colorado	264998	2811381	3994177	-102.12400
## 1194	colorado	264998	2811381	3994177	-102.27869
## 1195	colorado	264998	2811381	3994177	-102.48496
## 1196	colorado	264998	2811381	3994177	-102.74852
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## 1199	colorado	264998	2811381	3994177	-103.08657
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## 1201	colorado	264998	2811381	3994177	-103.39024
## 1202	colorado	264998	2811381	3994177	-103.63660

## 1203	colorado	264998	2811381	3994177 -103.87724
## 1204	colorado	264998	2811381	3994177 -104.01476
## 1205	colorado	264998	2811381	3994177 -104.11217
## 1206	colorado	264998	2811381	3994177 -104.39864
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## 1219	colorado	264998	2811381	3994177 -107.45823
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## 1233	colorado	264998	2811381	3994177 -109.06252
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## 1257	colorado	264998	2811381	3994177	-102.06670
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## 1259	connecticut	203521	1853366	2915616	-73.49902
## 1260	connecticut	203521	1853366	2915616	-73.04066
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## 1262	connecticut	203521	1853366	2915616	-72.81721
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## 1264	connecticut	203521	1853366	2915616	-72.75991
## 1265	connecticut	203521	1853366	2915616	-72.74845
## 1266	connecticut	203521	1853366	2915616	-72.55364
## 1267	connecticut	203521	1853366	2915616	-72.50208
## 1268	connecticut	203521	1853366	2915616	-72.12966
## 1269	connecticut	203521	1853366	2915616	-72.10101
## 1270	connecticut	203521	1853366	2915616	-71.80308
## 1271	connecticut	203521	1853366	2915616	-71.78588
## 1272	connecticut	203521	1853366	2915616	-71.78015
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## 1282	connecticut	203521	1853366	2915616	-71.98069
## 1283	connecticut	203521	1853366	2915616	-72.00361
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## 1285	connecticut	203521	1853366	2915616	-72.08382
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## 1287	connecticut	203521	1853366	2915616	-72.12393
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## 1291	connecticut	203521	1853366	2915616	-72.20988
## 1292	connecticut	203521	1853366	2915616	-72.23852
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## 1295	connecticut	203521	1853366	2915616	-72.32446
## 1296	connecticut	203521	1853366	2915616	-72.35884
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## 1307	connecticut	203521	1853366	2915616	-72.65105
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## 1326	connecticut	203521	1853366	2915616	-73.18390
## 1327	connecticut	203521	1853366	2915616	-73.21255
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## 1340	connecticut	203521	1853366	2915616	-73.63081
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## 1350	district of columbia	30629	373283	579283	-77.13731
## 1351	district of columbia	30629	373283	579283	-77.06283
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## 1387	delaware	50345	460285	676484	-75.58459
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## 1481	florida	1195116	9964317	15086555	-82.20798
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## 1867	florida	1195116	9964317	15086555	-82.62051
## 1868	florida	1195116	9964317	15086555	-82.63770
## 1869	florida	1195116	9964317	15086555	-82.65489
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## 9622	new jersey	436124	4412867	6534052	-74.34128
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## 6453	45.97413	23	6475	north
## 6454	45.97413	23	6476	north
## 6455	45.98560	23	6477	north
## 6456	45.99705	23	6478	north
## 6457	45.99132	23	6479	north
## 6458	45.98560	23	6480	north
## 6459	45.99132	23	6481	north
## 6460	45.99705	23	6482	north
## 6461	45.99705	23	6483	north
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## 6463	45.99132	23	6485	north
## 6464	45.97986	23	6486	north
## 6465	45.98560	23	6487	north
## 6466	46.01997	23	6488	north
## 6467	46.01997	23	6489	north
## 6468	46.03716	23	6490	north
## 6469	46.02570	23	6491	north
## 6470	45.99132	23	6492	north
## 6471	45.96840	23	6493	north
## 6472	45.95121	23	6494	north
## 6473	45.92830	23	6495	north
## 6474	45.91111	23	6496	north
## 6475	45.87100	23	6497	north
## 6476	45.85381	23	6498	north
## 6477	45.85954	23	6499	north
## 6478	45.87100	23	6500	north
## 6479	45.88246	23	6501	north
## 6480	45.89965	23	6502	north
## 6481	45.92257	23	6503	north
## 6482	45.93402	23	6504	north
## 6483	45.93976	23	6505	north
## 6484	45.97413	23	6506	north
## 6485	46.01424	23	6507	north
## 6486	46.02570	23	6508	north
## 6487	46.04289	23	6509	north
## 6488	46.04861	23	6510	north
## 6489	46.05435	23	6511	north
## 6490	46.06581	23	6512	north
## 6491	46.08300	23	6513	north
## 6492	46.08300	23	6514	north
## 6493	46.08873	23	6515	north
## 6494	46.07727	23	6516	north
## 6495	46.08873	23	6517	north
## 6496	46.04861	23	6518	north
## 6497	45.99705	23	6519	north
## 6498	45.97986	23	6520	north
## 6499	45.96840	23	6521	north
## 6500	45.97413	23	6522	north
## 6501	45.97986	23	6523	north
## 6502	45.96840	23	6524	north
## 6503	45.96840	23	6525	north
## 6504	45.96268	23	6526	north
## 6505	45.93976	23	6527	north
## 6506	45.96268	23	6528	north

## 6507	45.96840	23	6529	north
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## 6511	45.91111	23	6533	north
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## 6514	45.84235	23	6536	north
## 6515	45.81371	23	6537	north
## 6516	45.79079	23	6538	north
## 6517	45.78506	23	6539	north
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## 6519	45.75641	23	6541	north
## 6520	45.74495	23	6542	north
## 6521	45.71630	23	6543	north
## 6522	45.70484	23	6544	north
## 6523	45.67620	23	6545	north
## 6524	45.66473	23	6546	north
## 6525	45.63609	23	6547	north
## 6526	45.61890	23	6548	north
## 6527	45.61890	23	6549	north
## 6528	45.63036	23	6550	north
## 6529	45.65900	23	6551	north
## 6530	45.67047	23	6552	north
## 6531	45.69339	23	6553	north
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## 6534	45.78506	23	6556	north
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## 6537	45.88246	23	6559	north
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## 6539	45.90538	23	6561	north
## 6540	45.89965	23	6562	north
## 6541	45.84235	23	6563	north
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## 6545	45.86527	23	6567	north
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## 6547	45.76787	23	6569	north
## 6548	45.72776	23	6570	north
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## 6550	45.69911	23	6572	north
## 6551	45.72776	23	6573	north
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## 6553	45.78506	23	6575	north
## 6554	45.83089	23	6576	north
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## 6564	45.70484	23	6586	north
## 6565	45.64755	23	6587	north
## 6566	45.59025	23	6588	north
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## 6568	45.49285	23	6590	north
## 6569	45.37826	23	6591	north
## 6570	45.30378	23	6592	north
## 6571	45.21783	23	6593	north
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## 6573	45.12616	23	6595	north
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## 6577	45.15480	23	6599	north
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## 6579	45.20637	23	6601	north
## 6580	45.24075	23	6602	north
## 6581	45.29804	23	6603	north
## 6582	45.34961	23	6604	north
## 6583	45.37826	23	6605	north
## 6584	45.36107	23	6606	north
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## 6587	45.37826	23	6609	north
## 6588	45.40691	23	6610	north
## 6589	45.45274	23	6611	north
## 6590	45.49285	23	6612	north
## 6591	45.53296	23	6613	north
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## 6593	45.58452	23	6615	north
## 6594	45.61317	23	6616	north
## 6595	45.63609	23	6617	north
## 6596	45.65900	23	6618	north
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## 6598	45.68765	23	6620	north
## 6599	45.72203	23	6621	north
## 6600	45.75641	23	6622	north
## 6601	45.77360	23	6623	north
## 6602	45.79079	23	6624	north
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## 6610	45.88246	23	6632	north
## 6611	45.90538	23	6633	north
## 6612	45.92257	23	6634	north
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## 6614	45.93976	23	6636	north

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## 6619	45.99132	23	6641	north
## 6620	45.99705	23	6642	north
## 6621	46.01997	23	6643	north
## 6622	46.01424	23	6644	north
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## 6625	46.00851	23	6647	north
## 6626	46.02570	23	6648	north
## 6627	46.03143	23	6649	north
## 6628	46.03716	23	6650	north
## 6629	46.07727	23	6651	north
## 6630	46.10019	23	6652	north
## 6631	46.12310	23	6653	north
## 6632	46.12883	23	6654	north
## 6633	46.14029	23	6655	north
## 6634	46.16894	23	6656	north
## 6635	46.24915	23	6657	north
## 6636	46.28353	23	6658	north
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## 6638	46.32364	23	6660	north
## 6639	46.33510	23	6661	north
## 6640	46.34082	23	6662	north
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## 6645	46.50698	23	6667	north
## 6646	46.51271	23	6668	north
## 6647	46.51271	23	6669	north
## 6648	46.52990	23	6670	north
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## 6650	46.53563	23	6672	north
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## 6652	46.55855	23	6674	north
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## 6654	41.73997	24	6677	south
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## 6656	41.72279	24	6679	south
## 6657	41.72279	24	6680	south
## 6658	41.71133	24	6681	south
## 6659	41.78008	24	6682	south
## 6660	41.78008	24	6683	south
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## 6662	41.78008	24	6685	south
## 6663	41.77435	24	6686	south
## 6664	41.76862	24	6687	south
## 6665	41.76862	24	6688	south
## 6666	41.76862	24	6689	south
## 6667	41.76862	24	6690	south
## 6668	41.76862	24	6691	south

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## 6670	41.83738	24	6693	south
## 6671	41.84884	24	6694	south
## 6672	41.87748	24	6695	south
## 6673	41.90614	24	6696	south
## 6674	41.93478	24	6697	south
## 6675	41.99208	24	6698	south
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## 6680	42.30148	24	6703	south
## 6681	42.37023	24	6704	south
## 6682	42.41607	24	6705	south
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## 6685	42.58222	24	6708	south
## 6686	42.63952	24	6709	south
## 6687	42.64525	24	6710	south
## 6688	42.63379	24	6711	south
## 6689	42.65671	24	6712	south
## 6690	42.67390	24	6713	south
## 6691	42.69682	24	6714	south
## 6692	42.74265	24	6715	south
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## 6696	42.93746	24	6719	south
## 6697	42.96038	24	6720	south
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## 6700	43.14945	24	6723	south
## 6701	43.23539	24	6724	south
## 6702	43.31561	24	6725	south
## 6703	43.43593	24	6726	south
## 6704	43.46458	24	6727	south
## 6705	43.49895	24	6728	south
## 6706	43.53333	24	6729	south
## 6707	43.58490	24	6730	south
## 6708	43.62500	24	6731	south
## 6709	43.65939	24	6732	south
## 6710	43.68230	24	6733	south
## 6711	43.73960	24	6734	south
## 6712	43.76252	24	6735	south
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## 6714	43.87138	24	6737	south
## 6715	43.94587	24	6738	south
## 6716	44.03180	24	6739	south
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## 6718	44.07764	24	6741	south
## 6719	44.08910	24	6742	south
## 6720	44.11775	24	6743	south
## 6721	44.13494	24	6744	south
## 6722	44.17505	24	6745	south

## 6723	44.22088	24	6746	south
## 6724	44.29537	24	6747	south
## 6725	44.36412	24	6748	south
## 6726	44.41569	24	6749	south
## 6727	44.49017	24	6750	south
## 6728	44.52455	24	6751	south
## 6729	44.57038	24	6752	south
## 6730	44.59903	24	6753	south
## 6731	44.65060	24	6754	south
## 6732	44.67925	24	6755	south
## 6733	44.69644	24	6756	south
## 6734	44.71363	24	6757	south
## 6735	44.72509	24	6758	south
## 6736	44.74228	24	6759	south
## 6737	44.76519	24	6760	south
## 6738	44.78238	24	6761	south
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## 6740	44.88551	24	6763	south
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## 6744	44.91416	24	6767	south
## 6745	44.93708	24	6768	south
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## 6750	44.97146	24	6773	south
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## 6753	45.15480	24	6776	south
## 6754	45.16626	24	6777	south
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## 6760	45.11470	24	6783	south
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## 6764	44.98865	24	6787	south
## 6765	44.95427	24	6788	south
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## 6767	44.85686	24	6790	south
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## 6769	44.79384	24	6792	south
## 6770	44.78238	24	6793	south
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## 6782	44.83395	24	6805	south
## 6783	44.79957	24	6806	south
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## 6795	45.24075	24	6818	south
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## 6817	45.64182	24	6840	south
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## 6823	45.75641	24	6846	south
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## 6827	45.75068	24	6850	south
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## 6911	43.91148	24	6934	south
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## 6913	43.81981	24	6936	south
## 6914	43.77398	24	6937	south
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## 6920	43.63074	24	6943	south
## 6921	43.61355	24	6944	south
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## 10968 33.38052	47 11509	<NA>
## 10969 33.38052	47 11510	<NA>
## 10970 33.36906	47 11511	<NA>
## 10971 33.33468	47 11512	<NA>
## 10972 33.31176	47 11513	<NA>
## 10973 33.27739	47 11514	<NA>
## 10974 33.26593	47 11515	<NA>
## 10975 33.24874	47 11516	<NA>
## 10976 33.23155	47 11517	<NA>
## 10977 33.21436	47 11518	<NA>
## 10978 33.17426	47 11519	<NA>
## 10979 33.16280	47 11520	<NA>
## 10980 33.16853	47 11521	<NA>
## 10981 33.16853	47 11522	<NA>
## 10982 33.16280	47 11523	<NA>
## 10983 33.14561	47 11524	<NA>
## 10984 33.13415	47 11525	<NA>
## 10985 33.12842	47 11526	<NA>
## 10986 33.11696	47 11527	<NA>
## 10987 33.09977	47 11528	<NA>
## 10988 33.09977	47 11529	<NA>

## 10989 33.09404	47 11530	<NA>
## 10990 33.07113	47 11531	<NA>
## 10991 33.05967	47 11532	<NA>
## 10992 33.05967	47 11533	<NA>
## 10993 33.05394	47 11534	<NA>
## 10994 33.02529	47 11535	<NA>
## 10995 33.01956	47 11536	<NA>
## 10996 33.02529	47 11537	<NA>
## 10997 33.03102	47 11538	<NA>
## 10998 33.02529	47 11539	<NA>
## 10999 32.97945	47 11540	<NA>
## 11000 32.94507	47 11541	<NA>
## 11001 32.93362	47 11542	<NA>
## 11002 32.91643	47 11543	<NA>
## 11003 32.89923	47 11544	<NA>
## 11004 32.89351	47 11545	<NA>
## 11005 32.87632	47 11546	<NA>
## 11006 32.85913	47 11547	<NA>
## 11007 32.83621	47 11548	<NA>
## 11008 32.78465	47 11549	<NA>
## 11009 32.76746	47 11550	<NA>
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## 11011 32.76746	47 11552	<NA>
## 11012 32.82475	47 11553	<NA>
## 11013 32.82475	47 11554	<NA>
## 11014 32.81902	47 11555	<NA>
## 11015 32.79037	47 11556	<NA>
## 11016 32.77892	47 11557	<NA>
## 11017 32.76173	47 11558	<NA>
## 11018 32.75027	47 11559	<NA>
## 11019 32.74454	47 11560	<NA>
## 11020 32.73308	47 11561	<NA>
## 11021 32.72162	47 11562	<NA>
## 11022 32.70443	47 11563	<NA>
## 11023 32.64714	47 11564	<NA>
## 11024 32.64141	47 11565	<NA>
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## 11026 32.62422	47 11567	<NA>
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## 11028 32.59557	47 11569	<NA>
## 11029 32.59557	47 11570	<NA>
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## 11031 32.60703	47 11572	<NA>
## 11032 32.59557	47 11573	<NA>
## 11033 32.57838	47 11574	<NA>
## 11034 32.56692	47 11575	<NA>
## 11035 32.55546	47 11576	<NA>
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## 11039 32.49244	47 11580	<NA>
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## 11045 32.50962	47 11586	<NA>
## 11046 32.50390	47 11587	<NA>
## 11047 32.49244	47 11588	<NA>
## 11048 32.47525	47 11589	<NA>
## 11049 32.46952	47 11590	<NA>
## 11050 32.45806	47 11591	<NA>
## 11051 32.44660	47 11592	<NA>
## 11052 32.43514	47 11593	<NA>
## 11053 32.41795	47 11594	<NA>
## 11054 32.40649	47 11595	<NA>
## 11055 32.38931	47 11596	<NA>
## 11056 32.34347	47 11597	<NA>
## 11057 32.32628	47 11598	<NA>
## 11058 32.30909	47 11599	<NA>
## 11059 32.30336	47 11600	<NA>
## 11060 32.30909	47 11601	<NA>
## 11061 32.30909	47 11602	<NA>
## 11062 32.36639	47 11603	<NA>
## 11063 32.39503	47 11604	<NA>
## 11064 32.44660	47 11605	<NA>
## 11065 32.45233	47 11606	<NA>
## 11066 32.44660	47 11607	<NA>
## 11067 32.42368	47 11608	<NA>
## 11068 32.38931	47 11609	<NA>
## 11069 32.36639	47 11610	<NA>
## 11070 32.33201	47 11611	<NA>
## 11071 32.30336	47 11612	<NA>
## 11072 32.28044	47 11613	<NA>
## 11073 32.25179	47 11614	<NA>
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## 11075 32.22887	47 11616	<NA>
## 11076 32.24033	47 11617	<NA>
## 11077 32.26325	47 11618	<NA>
## 11078 32.26898	47 11619	<NA>
## 11079 32.25179	47 11620	<NA>
## 11080 32.24606	47 11621	<NA>
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## 11082 32.18877	47 11623	<NA>
## 11083 32.15439	47 11624	<NA>
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## 11085 32.12574	47 11626	<NA>
## 11086 32.14293	47 11627	<NA>
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## 11089 32.10855	47 11630	<NA>
## 11090 32.09710	47 11631	<NA>
## 11091 32.07418	47 11632	<NA>
## 11092 32.03980	47 11633	<NA>
## 11093 32.05126	47 11634	<NA>
## 11094 32.06845	47 11635	<NA>
## 11095 32.08564	47 11636	<NA>
## 11096 32.09137	47 11637	<NA>


```
## 11097 32.09710      47 11638      <NA>
## 11098 32.11428      47 11639      <NA>
## 11099 32.13147      47 11640      <NA>
## 11100 32.16012      47 11641      <NA>
## 11101 32.18304      47 11642      <NA>
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## 11107 32.42368      47 11648      <NA>
## 11108 32.46379      47 11649      <NA>
## 11109 32.48098      47 11650      <NA>
## 11110 32.55546      47 11651      <NA>
## 11111 32.57265      47 11652      <NA>
## [ reached 'max' / getOption("max.print") -- omitted 4426 rows ]
```

```
min_by_vacc <- min(vaccine_by_state$Janssen_Doses,
                  vaccine_by_state$Moderna_Doses,
                  vaccine_by_state$Pfizer_Doses)

max_by_vacc <- max(vaccine_by_state$Janssen_Doses,
                  vaccine_by_state$Moderna_Doses,
                  vaccine_by_state$Pfizer_Doses)

# Janssen
#vaccine_by_state %>%
# ggplot(aes(x=long, y=lat, fill=Janssen_Doses)) +
# borders("state") +
# geom_polygon(color = "gray90", size = 0.1) +
# guides(fill="none") +
# coord_map(projection = "albers", lat0 = 39, lat1 = 45) +
# theme(axis.line = element_blank(),
#       axis.text = element_blank(),
#       axis.ticks = element_blank(),
#       axis.title = element_blank(),
#       panel.background = element_blank(),
#       panel.border = element_blank(),
#       panel.grid = element_blank())

# I could not get this problem to work even after trying a couple different methods.
```

Problem 3

```
library("tm")

## Loading required package: NLP

##
## Attaching package: 'NLP'

## The following object is masked from 'package:ggplot2':
```

```
##
##      annotate

library("SnowballC")
library("wordcloud")

## Loading required package: RColorBrewer

library("RColorBrewer")
library("dplyr")

file_text <- readLines("Repurposing_Project_Report_Final.txt")
corpus <- Corpus(VectorSource(file_text))
corpus <- corpus %>%
  tm_map(removeNumbers) %>%
  tm_map(removePunctuation) %>%
  tm_map(stripWhitespace)

## Warning in tm_map.SimpleCorpus(., removeNumbers): transformation drops documents

## Warning in tm_map.SimpleCorpus(., removePunctuation): transformation drops
## documents

## Warning in tm_map.SimpleCorpus(., stripWhitespace): transformation drops
## documents

dtm <- TermDocumentMatrix(corpus)
matrix <- as.matrix(dtm)
sorted_matrix <- sort(rowSums(matrix), decreasing=TRUE)
df <- data.frame(word = names(sorted_matrix), frequency = sorted_matrix)

res <- wordcloud(corpus, min.freq = 1, max.words = 200, colors = brewer.pal(6, name="Dark2"))
```

