STAT-HW1

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 $3.\mathrm{First}$ we need to download the files from 2016 to 2018

for i in {2016..2018};do
 curl -o \${i}.csv.gz https://www1.ncdc.noaa.gov/pub/data/ghcn/daily/by_year/\${i}.csv.gz
done

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0	192M	0	979k	0	0	460k		0	0:07		0:00		0:07:05	460k
1	192M		3159k	0	0	1013k		0	0:03		0:00		0:03:11	
3	192M		7018k	0	0	1705k		0	0:01		0:00		0:01:51	
6	192M		12.7M	0	0	2550k		0	0:01		0:00		0:01:12	
10	192M		20.9M	0	0	3501k		0	0:00		0:00		0:00:50	
15	192M		29.9M	0	0	4304k		0	0:00		0:00		0:00:38	
20	192M		39.1M	0	0	4940k		0	0:00		0:00		0:00:31	
25	192M		49.0M	0	0	5499k		0	0:00		0:00		0:00:26	
30	192M		58.6M	0	0	5940k		0	0:00		0:00		0:00:23	
35	192M		68.1M	0	0	6276k		0	0:00		0:00		0:00:20	
40	192M		78.1M	0	0	6600k		0	0:00		0:00		0:00:17	
45	192M		87.8M	0	0	6853k		0	0:00		0:00		0:00:15	
50	192M		97.5M	0	0	7078k		0	0:00		0:00		0:00:13	
55	192M	55	107M	0	0	7285k		0	0:00		0:00		0:00:12	9.7M
60	192M	60	116M	0	0	7431k		0	0:00		0:00		0:00:10	9.7M
66	192M	66	126M	0	0	7594k		0	0:00		0:00		0:00:08	9.7M
71	192M	71	136M	0	0	7718k		0	0:00		0:00		0:00:07	
76	192M	76	146M	0	0	7845k		0	0:00		0:00		0:00:06	9.7M
81	192M	81	156M	0	0	7954k		0	0:00		0:00		0:00:04	
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1	189M		3487k	0	0	1025k		0	0:03		0:00		0:03:05	
3	189M		6167k	0	0	1407k		0	0:02		0:00		0:02:13	
5	189M		9987k	0	0	1860k		0	0:01		0:00		0:01:39	
7	189M		15.0M	0	0	2384k		0	0:01		0:00		0:01:15	
11	189M		22.1M	0	0	3078k		0	0:01		0:00		0:00:55	
16	189M		31.1M	0	0	3824k		0	0:00		0:00		0:00:42	
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 58
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 78
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 38
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```

Then we need to unzip the files

```
gunzip *.csv.gz
```

(a). Now we need to use wc -l to count the observations in each year

```
for i in {2016..2018};do
   echo "${i} has$(wc -l < ${i}.csv) observations."
done</pre>
```

```
## 2016 has 35384539 observations.
## 2017 has 34748555 observations.
```

2018 has 20229121 observations.

(b). First we still need to download ghand-stations.txt

curl -o ghcnd-stations.txt https://www1.ncdc.noaa.gov/pub/data/ghcn/daily/ghcnd-stations.txt

```
##
    % Total
               % Received % Xferd Average Speed
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 2 8959k
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16 8959k
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43 8959k
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100 8959k
          100 8959k
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                               1943k
                                          0
```

Then we need to get the code from the ghcnd-stations.txt, after that we can grep the lines we need from the three files and put them into a new file named TMAX.txt.

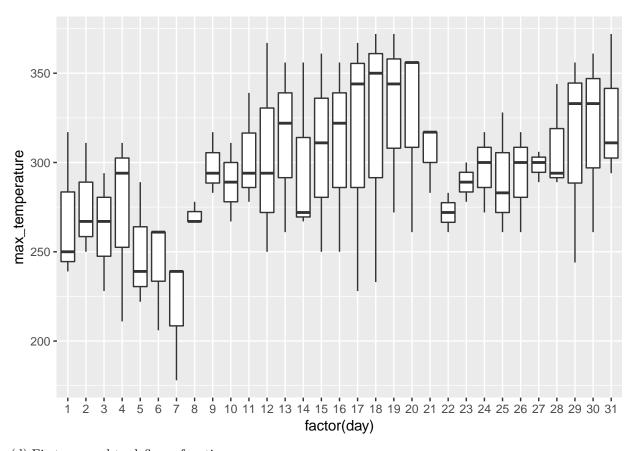
```
ID=$(grep 'DEATH VALLEY' ghcnd-stations.txt | cut -d' ' -f1)
echo $ID
for i in {2016..2018};do
   grep $ID ${i}.csv | grep TMAX | grep ${i}03 >> TMAX.txt
done
```

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After that we can grep the lines we need from the three files and put them into a new file named TMAX.txt

(c).I read the TMAX.txt file into data, and put the max temperature and day value into data_m, and put the same day in March from different years together and draw the side by side boxplot

```
library('ggplot2')
data=read.table("TMAX.txt",sep=",")
data_m=data[c(2,4)]
data_m[1]=data_m[1]%%1000
data_m=data_m[which(data_m[1]>=300) && which(data_m[1]<400),]
data_m[1]=data_m[1]%%100
data_m=data_m[order(data_m[1]),]
names(data_m)=c("day","max_temperature")
p<-ggplot(data=data_m, aes(x=factor(day),y=max_temperature))+geom_boxplot()
p</pre>
```



(d). First we need to define a function

```
function get_weather(){
    if [ "$1" == "-h" ];then
        echo "get_weather usage:get_weather location weather year month filename"
   else
        if [ "$#" != "5" ];then
            echo "Wrong arguments number"
        else
            for i in ${3};do
                curl -o ${i}.csv.gz https://www1.ncdc.noaa.gov/pub/data/ghcn/daily/by_year/${i}.csv.gz
                if [ ! -e ${i}.csv ];then
                    rm -f ${i}.csv
                fi
                gunzip ${i}.csv.gz
            done
            curl -o ghcnd-stations.txt https://www1.ncdc.noaa.gov/pub/data/ghcn/daily/ghcnd-stations.tx
            code=$(grep -h "${1}" ghcnd-stations.txt | cut -d' ' -f1)
            if [ -n $code ];then
                if [-e $5]; then
                    rm -f $5
                fi
                for i in ${3};do
                    grep $code ${i}.csv | grep -h ${2} | grep -h "${i}${4}" >> $5
                done
                if [-s $5]; then
                    echo "finished"
```

```
else
echo "None fits"

fi

else
echo 'Wrong location'

fi

for i in ${3};do
rm -f ${i}.csv
rm -f ${i}.csv.gz

done
rm -f ghcnd-stations.txt

fi

fi

fi

fget_weather 'DEATH VALLEY' TMAX 2016 03 TMAX1.txt
```

```
##
     % Total
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     192M
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 18
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 23
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 37
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```
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                                               0:00:36
## gunzip: 2016.csv already exists -- skipping
##
     % Total
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                        0
                              0
                                  305k
                                               0:00:29
                                                        0:00:01
                                                                  0:00:28
                                                                           305k
 18 8959k
            18 1632k
                        0
                              0
                                  620k
                                               0:00:14
                                                         0:00:02
                                                                  0:00:12
                                                                           620k
                                  990k
                                               0:00:09
                                                         0:00:03
 39 8959k
            39 3577k
                        0
                              0
                                            0
                                                                  0:00:06
                                                                           990k
77 8959k
            77 6929k
                        0
                              0
                                 1498k
                                            0
                                               0:00:05
                                                        0:00:04 0:00:01 1498k
100 8959k
                                               0:00:05 0:00:05 --:-- 2021k
           100 8959k
                        0
                              0
                                 1762k
## finished
```

4. First we need to extract the original html code from the website

curl https://www1.ncdc.noaa.gov/pub/data/ghcn/daily/ -o daily

```
##
    % Total
              % Received % Xferd
                               Average Speed
                                             Time
                                                    Time
                                                            Time
                                                                 Current
##
                               Dload Upload
                                                                 Speed
                                             Total
                                                    Spent
                                                            Left
##
                                      0 --:--:--
                                0
                                                                   0
 Ω
       0
           0
                0
                     \cap
                          0
       0
           0
                0
                     0
                                0
                                      0 --:--:--
                                                                   0
 0
                                      0 --:--: 13105
100
    6068
         100
             6068
                     0
                          0
                            13119
```

Then we need to extract all the txt files from the html. We find that each txt files' names is in a pair of quotes, so we extract all the data in the quotes and then extract those contains .txt. Finally we use curl to download these files from the website.

```
files=$(egrep -o '".*?"' daily | grep ".txt" | tr -d '"')
for i in $files;do
    echo "Now we are downloading ${i}."
    curl -o ${i} https://www1.ncdc.noaa.gov/pub/data/ghcn/daily/${i}
done
rm -f daily
```

```
## Now we are downloading ghand-countries.txt.
##
    % Total
               % Received % Xferd
                                 Average Speed
                                                         Time
                                                                 Time
                                                                       Current
                                                 Time
##
                                  Dload Upload
                                                 Total
                                                         Spent
                                                                 Left
                                                                       Speed
##
       0
            0
                  0
                       0
                            0
                                   0
                                         0 --:--:--
                                                                         0
    3670 100 3670
                      0
                            0
                                8127
                                         0 --:--:--
100
                                                                      8137
## Now we are downloading ghand-inventory.txt.
##
    % Total
               % Received % Xferd Average Speed
                                                 Time
                                                         Time
                                                                 Time
                                                                       Current
                                                                       Speed
##
                                  Dload Upload
                                                 Total
                                                         Spent
                                                                 Left
##
                                   0
                                         0 --:--:--
 0
       0
            0
                  0
                      0
                            0
       0
                  0
                            0
                                   0
                                           --:--:--
                                                                         0
 0
            0
                      0
 0 26.6M
            0
              190k
                      0
                            0
                                162k
                                            0:02:47 0:00:01
                                                             0:02:46
                                                                      162k
 4 26.6M
            4 1151k
                      0
                            0
                                515k
                                         0
                                            0:00:52
                                                     0:00:02
                                                             0:00:50
                                                                      515k
 10 26.6M
           10 2956k
                      0
                            0
                                923k
                                         0
                                            0:00:29
                                                     0:00:03
                                                             0:00:26
                                                                      923k
```

21 26.6M

38 26.6M

60 26.6M

21 5948k

38 10.1M

60 16.2M

0

0

0

0

0

0

1421k

2014k

2697k

0

0:00:19

0:00:13

0:00:10 0:00:06

0:00:04

0:00:05

0:00:15 1421k

0:00:08 2098k

0:00:04 3291k

```
0 0 3544k 0 0:00:07 0:00:07 --:-- 4916k
0 0 3711k 0 0:00:07 0:00:07 --:-- 5860k
93 26.6M 93 24.8M
100 26.6M 100 26.6M
## Now we are downloading ghcnd-states.txt.
## % Total % Received % Xferd Average Speed
                                          Time
                                                 Time
                                                         Time Current
##
                             Dload Upload
                                          Total
                                                 Spent
                                                         Left Speed
##
               0
                             0
                                   0 --:--:--
                        0
                                  0 --:--:-- 2366
100 1086 100 1086
                           2364
                   0
## Now we are downloading ghcnd-stations.txt.
## % Total % Received % Xferd Average Speed
                                          Time
                                                 Time
                                                         Time Current
##
                             Dload Upload
                                          Total
                                                 Spent
                                                        Left Speed
##
                              0
                                    0 --:--:--
 0
      0
          0
               0
                   0
                        0
                                    0 --:--:--
                             0
      0
          Ω
               0
                   0
                        0
 2 8959k
          2 266k
                   0
                        0 196k
                                   0 0:00:45 0:00:01 0:00:44 196k
                          592k
                                   0 0:00:15 0:00:02 0:00:13 592k
15 8959k
         15 1399k
                   0
                        0
40 8959k
         40 3633k
                   0
                       0 1084k
                                   0 0:00:08 0:00:03 0:00:05 1083k
         81 7337k
                        0 1685k
                                   0 0:00:05 0:00:04 0:00:01 1685k
81 8959k
                   0
                                   0 0:00:04 0:00:04 --:-- 2092k
100 8959k 100 8959k
                   0
                        0 1919k
## Now we are downloading ghcnd-version.txt.
## % Total % Received % Xferd Average Speed Time
                                                 Time
                                                        Time Current
##
                             Dload Upload Total
                                                 Spent Left Speed
##
                                    0 --:--:--
                   0
                        0
                             0
              0
                   0
                                    0 --:--:--
    270 100 270
                        0
                             566
                                                              567
## Now we are downloading mingle-list.txt.
## % Total % Received % Xferd Average Speed
                                          Time
                                                 Time
                                                         Time Current
##
                             Dload Upload
                                          Total
                                                 Spent
                                                         Left Speed
##
                             0
                                    0 --:--:--
0
          0
               0
                   0
                        0
                                    0 --:--:--
 0
      0
          0
               0
                   0
                        0
                             0
 6 3707k
          6 226k
                   0
                        0
                           197k
                                    0 0:00:18 0:00:01 0:00:17 196k
36 3707k
         36 1351k
                          615k
                                   0 0:00:06 0:00:02 0:00:04 615k
                   0
                        0
96 3707k
        96 3585k
                        0 1128k
                                   0 0:00:03 0:00:03 --:-- 1127k
                   0
100 3707k 100 3707k
                                   0 0:00:03 0:00:03 --:--: 1161k
                        0 1162k
                   0
## Now we are downloading readme.txt.
## % Total % Received % Xferd Average Speed Time
                                                 Time
                                                        Time Current
##
                             Dload Upload Total
                                                 Spent
                                                        Left Speed
##
                   0
                        0
                                    0 --:--:--
      0
          0
               0
                             0
                                   0 --:--:- 47065
100 26498 100 26498
                   0
                        0 47023
## Now we are downloading status.txt.
## % Total % Received % Xferd Average Speed
                                          Time
                                                 Time
                                                         Time Current
##
                             Dload Upload
                                          Total
                                                 Spent
                                                         Left Speed
##
                                   0 --:--:--
                              0
     0
               0
                   0
                        0
          0
                                   0 --:--:--
 0 31860
          0
               0
                   0
                        0
                              0
100 31860 100 31860
                        0 49862
                                    0 --:--:- 49859
                   0
```