Scraping Weather Data for Bordeaux and Antibes

Code ▾

Antoine.P _ August 2017

We are going to use the package 'weatherData' in R to scrap one of Data souces we need to keep building the Context Aware Reccomendation System for restaurant sector.

Firstly, we try to do some weather data analysis with using this package which can be founded at: "https://ram-n.github.io/weatherData/example_weatherYear.html (https://ram-n.github.io/weatherData/example_weatherYear.html)"

(2nd solution with PYTHON : Wunderground Data with Python Pandas & Seaborn Tutorial /Shane Lynn)

Hide

```
library(weatherData)
```

```
Warning message:
running command '"C:/Program Files/RStudio/bin/pandoc/pandoc" +RTS -K512m -RTS R_extract_SQL.utf8.md --to html --from markdo
wn+autolink_bare_uris+ascii_identifiers+tex_math_single_backslash --output pandoc21684c3d59e9.html --smart --email-obfuscati
on none --self-contained --standalone --section-divs --template "C:\Users\PHAMAN~1\DOCUME~1\R\WIN-LI~1\3.4\RMARKD~1\rmd\h\DE
FAUL~1.HTM" --no-highlight --variable highlightjs=1 --variable "theme:bootstrap" --include-in-header "C:\Users\PHAMAN~1\AppD
ata\Local\Temp\RtmpU5ndJP\rmarkdown-str216853911d43.html" --mathjax --variable "mathjax-url:https://mathjax.rstudio.com/late
st/MathJax.js?config=TeX-AMS-MML_HTMLorMML" --variable code_folding=show --variable source_embed=R_extract_SQL.Rmd --include
-after-body "C:\Users\PHAMAN~1\AppData\Local\Temp\RtmpU5ndJP\file216814b65307.html" --variable code_menu=1 --variable kable-
scroll=1' had status 1
```

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```
city1 <- "BOD"
df1 <- getWeatherForYear(city1,2016)
```

```
URL to Try:
 https://www.wunderground.com/history/airport/BOD/2016/1/1/CustomHistory.html?dayend=31&monthend=12&yearend=2016&req_city=NA
&req_state=NA&req_statename=NA&format=1

Retrieving from: https://www.wunderground.com/history/airport/BOD/2016/1/1/CustomHistory.html?dayend=31&monthend=12&yearend=
2016&req_city=NA&req_state=NA&req_statename=NA&format=1
```

```
[1] 360
```

```
The following columns are available:
```

```
 [1] "X_0545"                     "Max_TemperatureC"           "Mean_TemperatureC"          "Min_TemperatureC"           "De
w_PointC"                  "MeanDew_PointC"
 [7] "Min_DewpointC"              "Max_Humidity"               "Mean_Humidity"              "Min_Humidity"               "Ma
x_Sea_Level_PressurehPa"   "Mean_Sea_Level_PressurehPa"
[13] "Min_Sea_Level_PressurehPa"  "Max_VisibilityKm"           "Mean_VisibilityKm"          "Min_VisibilitykM"           "Ma
x_Wind_SpeedKm_h"          "Mean_Wind_SpeedKm_h"
[19] "Max_Gust_SpeedKm_h"         "Precipitationmm"            "CloudCover"                 "Events"                     "Wi
ndDirDegrees"
```

```
Preview of the data available...
```

```
[1] 359  23
    X_0545 Max_TemperatureC Mean_TemperatureC Min_TemperatureC Dew_PointC MeanDew_PointC Min_DewpointC Max_Humidity Mean_Hum
idity Min_Humidity Max_Sea_Level_PressurehPa
1 2016-1-1               22                13                4         11              8             6           94
   64           37                      1022
2 2016-1-2               22                13                4         11              8             5           95
   63           33                      1022
3 2016-1-3               22                13                5         11              8             6           99
   65           30                      1019
4 2016-1-4               22                12                5         11              8             6           94
   72           48                      1021
5 2016-1-5               23                15                7         11              9             7           91
   67           33                      1018
6 2016-1-6               24                14                5         12              9             6           94
   61           30                      1019
  Mean_Sea_Level_PressurehPa Min_Sea_Level_PressurehPa Max_VisibilityKm Mean_VisibilityKm Min_VisibilitykM Max_Wind_SpeedKm_
h Mean_Wind_SpeedKm_h Max_Gust_SpeedKm_h Precipitationmm
1                       1020                      1019                8                 6                3                 1
1                   2                 NA               0
2                       1020                      1017                8                 7                2                 1
0                   2                 NA               0
3                       1017                      1015               10                 7                6                 1
3                   6                 NA               0
4                       1015                      1002                8                 6                2
8                   2                 NA               0
5                       1016                      1014               10                 7                6                 1
3                   3                 NA               0
6                       1017                      1016                8                 6                2                 2
1                   6                 NA               0
  CloudCover Events WindDirDegrees
1         NA                    -1
2         NA    Fog             -1
3         NA                    -1
4         NA    Fog             -1
5         NA                    -1
6         NA                    -1
```

```
Desired Columns Requested:
```

```
[1] 24  2  3  4
```

```
Checking Summarized Data Availability For BOD
Found 359 records for 2016-01-01 to 2016-12-31
Data is Available for the interval.
Will be fetching these Columns:
```

```
[1] "Date"              "Max_TemperatureC"  "Mean_TemperatureC" "Min_TemperatureC"
```

Hide

```
head(df1,3)
```

	Date	Max_TemperatureC	Mean_TemperatureC	Min_TemperatureC
	<S3: POSIXlt>	<int>	<int>	<int>
1	<POSIXlt>	22	13	4
2	<POSIXlt>	22	13	4
3	<POSIXlt>	22	13	5

3 rows

Hide

```
city2 <- "NCE"
df2 <- getWeatherForYear(city2, 2016)
```

```
URL to Try:
 https://www.wunderground.com/history/airport/NCE/2016/1/1/CustomHistory.html?dayend=31&monthend=12&yearend=2016&req_city=NA&req_state=NA&req_statename=NA&format=1

Retrieving from: https://www.wunderground.com/history/airport/NCE/2016/1/1/CustomHistory.html?dayend=31&monthend=12&yearend=2016&req_city=NA&req_state=NA&req_statename=NA&format=1
```

```
[1] 367
```

```
The following columns are available:
```

```
 [1] "CET"                      "Max_TemperatureC"         "Mean_TemperatureC"        "Min_TemperatureC"         "DewPointC"
 [6] "MeanDew_PointC"           "Min_DewpointC"            "Max_Humidity"             "Mean_Humidity"            "Min_Humidity"
[11] "Max_Sea_Level_PressurehPa" "Mean_Sea_Level_PressurehPa" "Min_Sea_Level_PressurehPa" "Max_VisibilityKm"        "Mean_VisibilityKm"
[16] "Min_VisibilitykM"         "Max_Wind_SpeedKm_h"       "Mean_Wind_SpeedKm_h"
[19] "Max_Gust_SpeedKm_h"       "Precipitationmm"          "CloudCover"               "Events"                   "WindDirDegrees"
```

```
Preview of the data available...
```

```
[1] 366  23
       CET Max_TemperatureC Mean_TemperatureC Min_TemperatureC Dew_PointC MeanDew_PointC Min_DewpointC Max_Humidity Mean_Humidity Min_Humidity Max_Sea_Level_PressurehPa
1 2016-1-1               12                10               9          7             5            4          87           66           49                      1026
2 2016-1-2               13                11               8         10             8            7          93           85           77                      1022
3 2016-1-3               13                 9               6          7             4            2          87           68           38                      1010
4 2016-1-4               15                11               8          6             4            2          76           59           36                      1005
5 2016-1-5               14                11               8          9             5            2          82           66           38                      1000
6 2016-1-6               13                 9               6          5             2           -1          81           61           37                      1002
  Mean_Sea_Level_PressurehPa Min_Sea_Level_PressurehPa Max_VisibilityKm Mean_VisibilityKm Min_VisibilitykM Max_Wind_SpeedKm_h Mean_Wind_SpeedKm_h Max_Gust_SpeedKm_h Precipitationmm
1                       1025                      1022               26                11                2                1                 10                 NA            2.03
2                       1014                      1010               19                 9                3                1                  4                 NA            7.11
3                       1008                      1004               31                14               10                2                 11                 NA            0.00
4                        998                       995               27                11               10                4                  5                 19            0.00
5                        998                       996               19                11               10                2                  4                 13            0.00
6                       1000                       999               27                12               10                2                  3                 14            0.00
  CloudCover Events WindDirDegrees
1          7   Rain            348
2          7   Rain            343
3          4                   318
4          6                   293
5          6   Rain              2
6          4                   335
```

```
Desired Columns Requested:
```

```
[1] 24  2  3  4
```

```
Checking Summarized Data Availability For NCE
Found 366 records for 2016-01-01 to 2016-12-31
Data is Available for the interval.
Will be fetching these Columns:
```

```
[1] "Date"             "Max_TemperatureC"  "Mean_TemperatureC" "Min_TemperatureC"
```

Hide

```
head(df2,3)
```

	Date <S3: POSIXlt>	Max_TemperatureC <int>	Mean_TemperatureC <int>	Min_TemperatureC <int>
1	<POSIXlt>	12	10	9
2	<POSIXlt>	13	11	8
3	<POSIXlt>	13	9	6

3 rows

Hide

```
a<-df1$Date
b<-df2$Date
manque_data<-b[!(b %in% a)]# to find out records in b but not in a
df22<-subset(df2,!(Date %in% c('2016-04-03','2016-04-04', '2016-05-12', '2016-10-29' ,'2016-11-19', '2016-11-20',  '2016-11-21')))
```

Hide

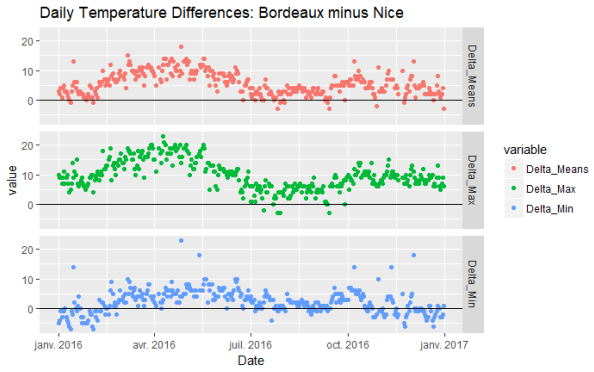
```
getDailyDifferences <- function(df1, df22){
  Delta_Means <- df1$Mean_TemperatureC - df22$Mean_TemperatureC
  Delta_Max <- df1$Max_TemperatureC - df22$Max_TemperatureC
  Delta_Min <- df1$Min_TemperatureC - df22$Min_TemperatureC

  diff_df <- data.frame(Date=df1$Date, Delta_Means, Delta_Max, Delta_Min)
  return(diff_df)
}
```

Hide

```
plotDifferences <- function (differences, city1, city2) {
library(reshape2)
  m.diff <- melt(differences, id.vars=c("Date"))
  p <- ggplot(m.diff, aes(x=Date, y=value)) + geom_point(aes(color=variable)) +
    facet_grid(variable ~ .) +geom_hline(yintercept=0)
  p <- p + labs(title=paste0("Daily Temperature Differences: ", "Bordeaux", " minus ","Nice"))
  print(p)
}
```

Hide

```
library(ggplot2)
differences<- getDailyDifferences(df1, df22)
plotDifferences(differences, city1, city2)
```



SCRAPING DATA FOR OUR PROJECT

First, get the station code of Bordeaux

Hide

```
getStationCode("Bordeaux")
```

```
[[1]]
```

	Station <chr>	State <chr>	airportCode <chr>
1547	Bordeaux	WY	KBRX

1 row

```
[[2]]
[1] "USA WY BORDEAUX         KBRX  BRX          41 57N  104 57W 1524   X          M    9 US"     " FRANCE    BORDEAUX/MERIG
NA LFBD        07510  44 49N  000 42W   61   X     T  X       6 FR"
```

The code of Bordeaux is 'LFBD'.

Now, which columns relate to our project?

The code following will fetch the data by defaut, so giving us a data set containing 2 columns: TemperatureC and DateUTC

Hide

```
bor_rawdat<-getWeatherForDate("LFBD",start_date = "2016-01-01",end_date = "2017-08-30",opt_detailed = TRUE)
```

```
Getting data from:
 https://www.wunderground.com/history/airport/LFBD/2016/1/1/DailyHistory.html?format=1
```

```
[1] 73
```

```
The following columns are available for:2016-01-01
```

```
 [1] "TimeCET"              "TemperatureC"         "Dew_PointC"           "Humidity"             "Sea_Level_PressurehPa"
"VisibilityKm"         "Wind_Direction"
 [8] "Wind_SpeedKm_h"       "Gust_SpeedKm_h"       "Precipitationmm"      "Events"               "Conditions"
"WindDirDegrees"       "DateUTC"
[1] 36 14
        V1 V2 V3  V4   V5      V6    V7  V8 V9 V10 V11           V12 V13                V14
1 12:00 AM  7  6  95 1026      NA South 5.6        Fog Patches of Fog 170 2015-12-31 23:00:00
2 12:30 AM  6  6 100 1025 -9999.0   ESE 5.6  - N/A              Mist 120 2015-12-31 23:30:00
3  1:00 AM  6  5  93 1025     0.6   ESE 5.6  - N/A Fog           Fog 120 2016-01-01 00:00:00
4  2:00 AM  5  4  95 1026      NA   ESE 5.6        Fog    Partial Fog 110 2016-01-01 01:00:00
5  2:30 AM  5  4  93 1025     0.4   ESE 5.6  - N/A Fog           Fog 110 2016-01-01 01:30:00
6  3:00 AM  5  4  93 1025     0.7  East 7.4  - N/A Fog           Fog 100 2016-01-01 02:00:00
```

```
Getting data from:
 https://www.wunderground.com/history/airport/LFBD/2017/8/30/DailyHistory.html?format=1
```

```
[1] 69
```

```
The following columns are available for:2017-08-30
```

```
 [1] "TimeCEST"             "TemperatureC"         "Dew_PointC"           "Humidity"             "Sea_Level_PressurehPa"
"VisibilityKm"         "Wind_Direction"
 [8] "Wind_SpeedKm_h"       "Gust_SpeedKm_h"       "Precipitationmm"      "Events"               "Conditions"
"WindDirDegrees"       "DateUTC"
[1] 34 14
        V1 V2 V3 V4   V5    V6       V7   V8 V9 V10 V11          V12 V13                V14
1 12:00 AM 21 18 79 1013    45       NW  9.3                 Clear 310 2017-08-29 22:00:00
2 12:30 AM 21 19 88 1013 -9999      WNW  7.4  - N/A            Clear 300 2017-08-29 22:30:00
3  1:00 AM 21 19 88 1013 -9999     Calm Calm  - N/A            Clear   0 2017-08-29 23:00:00
4  2:00 AM 21 19 86 1014    20      WSW  7.4                 Clear 250 2017-08-30 00:00:00
5  2:30 AM 21 19 88 1013    10 Variable  5.6  - N/A         Overcast   0 2017-08-30 00:30:00
6  3:00 AM 21 19 88 1014    10      WSW  9.3  - N/A     Mostly Cloudy 240 2017-08-30 01:00:00
```

```
Checking Data Availability For LFBD
Found 36 records for 2016-01-01
Found 34 records for 2017-08-30

Data is Available for the interval.

Will be fetching these Columns:
```

```
[1] "Time"         "TemperatureC"
```

```
Begin getting Daily Data for LFBD
LFBD 1 2016-01-01 : Fetching 72 Rows with 2 Column(s)
LFBD 2 2016-01-02 : Fetching 72 Rows with 2 Column(s)
LFBD 3 2016-01-03 : Fetching 72 Rows with 2 Column(s)
LFBD 4 2016-01-04 : Fetching 72 Rows with 2 Column(s)
LFBD 5 2016-01-05 : Fetching 60 Rows with 2 Column(s)
LFBD 6 2016-01-06 : Fetching 72 Rows with 2 Column(s)
LFBD 7 2016-01-07 : Fetching 72 Rows with 2 Column(s)
LFBD 8 2016-01-08 : Fetching 72 Rows with 2 Column(s)
LFBD 9 2016-01-09 : Fetching 72 Rows with 2 Column(s)
LFBD 10 2016-01-10 : Fetching 72 Rows with 2 Column(s)
LFBD 11 2016-01-11 : Fetching 72 Rows with 2 Column(s)
LFBD 12 2016-01-12 : Fetching 72 Rows with 2 Column(s)
LFBD 13 2016-01-13 : Fetching 72 Rows with 2 Column(s)
LFBD 14 2016-01-14 : Fetching 72 Rows with 2 Column(s)
LFBD 15 2016-01-15 : Fetching 72 Rows with 2 Column(s)
LFBD 16 2016-01-16 : Fetching 72 Rows with 2 Column(s)
LFBD 17 2016-01-17 : Fetching 72 Rows with 2 Column(s)
LFBD 18 2016-01-18 : Fetching 72 Rows with 2 Column(s)
LFBD 19 2016-01-19 : Fetching 72 Rows with 2 Column(s)
LFBD 20 2016-01-20 : Fetching 72 Rows with 2 Column(s)
LFBD 21 2016-01-21 : Fetching 72 Rows with 2 Column(s)
LFBD 22 2016-01-22 : Fetching 72 Rows with 2 Column(s)
LFBD 23 2016-01-23 : Fetching 72 Rows with 2 Column(s)
LFBD 24 2016-01-24 : Fetching 72 Rows with 2 Column(s)
LFBD 25 2016-01-25 : Fetching 72 Rows with 2 Column(s)
LFBD 26 2016-01-26 : Fetching 72 Rows with 2 Column(s)
LFBD 27 2016-01-27 : Fetching 72 Rows with 2 Column(s)
LFBD 28 2016-01-28 : Fetching 72 Rows with 2 Column(s)
LFBD 29 2016-01-29 : Fetching 72 Rows with 2 Column(s)
LFBD 30 2016-01-30 : Fetching 72 Rows with 2 Column(s)
LFBD 31 2016-01-31 : Fetching 72 Rows with 2 Column(s)
LFBD 32 2016-02-01 : Fetching 72 Rows with 2 Column(s)
LFBD 33 2016-02-02 : Fetching 71 Rows with 2 Column(s)
LFBD 34 2016-02-03 : Fetching 72 Rows with 2 Column(s)
LFBD 35 2016-02-04 : Fetching 72 Rows with 2 Column(s)
LFBD 36 2016-02-05 : Fetching 72 Rows with 2 Column(s)
LFBD 37 2016-02-06 : Fetching 71 Rows with 2 Column(s)
LFBD 38 2016-02-07 : Fetching 72 Rows with 2 Column(s)
LFBD 39 2016-02-08 : Fetching 72 Rows with 2 Column(s)
LFBD 40 2016-02-09 : Fetching 72 Rows with 2 Column(s)
LFBD 41 2016-02-10 : Fetching 72 Rows with 2 Column(s)
LFBD 42 2016-02-11 : Fetching 72 Rows with 2 Column(s)
LFBD 43 2016-02-12 : Fetching 72 Rows with 2 Column(s)
LFBD 44 2016-02-13 : Fetching 72 Rows with 2 Column(s)
LFBD 45 2016-02-14 : Fetching 72 Rows with 2 Column(s)
LFBD 46 2016-02-15 : Fetching 72 Rows with 2 Column(s)
LFBD 47 2016-02-16 : Fetching 72 Rows with 2 Column(s)
LFBD 48 2016-02-17 : Fetching 72 Rows with 2 Column(s)
LFBD 49 2016-02-18 : Fetching 72 Rows with 2 Column(s)
LFBD 50 2016-02-19 : Fetching 72 Rows with 2 Column(s)
LFBD 51 2016-02-20 : Fetching 72 Rows with 2 Column(s)
LFBD 52 2016-02-21 : Fetching 72 Rows with 2 Column(s)
LFBD 53 2016-02-22 : Fetching 72 Rows with 2 Column(s)
LFBD 54 2016-02-23 : Fetching 72 Rows with 2 Column(s)
LFBD 55 2016-02-24 : Fetching 72 Rows with 2 Column(s)
LFBD 56 2016-02-25 : Fetching 72 Rows with 2 Column(s)
LFBD 57 2016-02-26 : Fetching 72 Rows with 2 Column(s)
LFBD 58 2016-02-27 : Fetching 72 Rows with 2 Column(s)
LFBD 59 2016-02-28 : Fetching 72 Rows with 2 Column(s)
LFBD 60 2016-02-29 : Fetching 72 Rows with 2 Column(s)
LFBD 61 2016-03-01 : Fetching 72 Rows with 2 Column(s)
LFBD 62 2016-03-02 : Fetching 72 Rows with 2 Column(s)
LFBD 63 2016-03-03 : Fetching 72 Rows with 2 Column(s)
LFBD 64 2016-03-04 : Fetching 72 Rows with 2 Column(s)
LFBD 65 2016-03-05 : Fetching 69 Rows with 2 Column(s)
LFBD 66 2016-03-06 : Fetching 72 Rows with 2 Column(s)
LFBD 67 2016-03-07 : Fetching 72 Rows with 2 Column(s)
LFBD 68 2016-03-08 : Fetching 72 Rows with 2 Column(s)
LFBD 69 2016-03-09 : Fetching 72 Rows with 2 Column(s)
LFBD 70 2016-03-10 : Fetching 72 Rows with 2 Column(s)
LFBD 71 2016-03-11 : Fetching 72 Rows with 2 Column(s)
LFBD 72 2016-03-12 : Fetching 72 Rows with 2 Column(s)
LFBD 73 2016-03-13 : Fetching 72 Rows with 2 Column(s)
LFBD 74 2016-03-14 : Fetching 72 Rows with 2 Column(s)
LFBD 75 2016-03-15 : Fetching 72 Rows with 2 Column(s)
LFBD 76 2016-03-16 : Fetching 72 Rows with 2 Column(s)
LFBD 77 2016-03-17 : Fetching 72 Rows with 2 Column(s)
LFBD 78 2016-03-18 : Fetching 72 Rows with 2 Column(s)
LFBD 79 2016-03-19 : Fetching 72 Rows with 2 Column(s)
LFBD 80 2016-03-20 : Fetching 72 Rows with 2 Column(s)
LFBD 81 2016-03-21 : Fetching 72 Rows with 2 Column(s)
LFBD 82 2016-03-22 : Fetching 72 Rows with 2 Column(s)
LFBD 83 2016-03-23 : Fetching 71 Rows with 2 Column(s)
LFBD 84 2016-03-24 : Fetching 72 Rows with 2 Column(s)
LFBD 85 2016-03-25 : Fetching 72 Rows with 2 Column(s)
LFBD 86 2016-03-26 : Fetching 72 Rows with 2 Column(s)
LFBD 87 2016-03-27 : Fetching 72 Rows with 2 Column(s)
LFBD 88 2016-03-28 : Fetching 72 Rows with 2 Column(s)
LFBD 89 2016-03-29 : Fetching 72 Rows with 2 Column(s)
LFBD 90 2016-03-30 : Fetching 72 Rows with 2 Column(s)
LFBD 91 2016-03-31 : Fetching 72 Rows with 2 Column(s)
LFBD 92 2016-04-01 : Fetching 72 Rows with 2 Column(s)
LFBD 93 2016-04-02 : Fetching 72 Rows with 2 Column(s)
LFBD 94 2016-04-03 : Fetching 72 Rows with 2 Column(s)
LFBD 95 2016-04-04 : Fetching 72 Rows with 2 Column(s)
LFBD 96 2016-04-05 : Fetching 72 Rows with 2 Column(s)
LFBD 97 2016-04-06 : Fetching 72 Rows with 2 Column(s)
LFBD 98 2016-04-07 : Fetching 72 Rows with 2 Column(s)
LFBD 99 2016-04-08 : Fetching 71 Rows with 2 Column(s)
LFBD 100 2016-04-09 : Fetching 72 Rows with 2 Column(s)
LFBD 101 2016-04-10 : Fetching 72 Rows with 2 Column(s)
LFBD 102 2016-04-11 : Fetching 72 Rows with 2 Column(s)
LFBD 103 2016-04-12 : Fetching 72 Rows with 2 Column(s)
LFBD 104 2016-04-13 : Fetching 72 Rows with 2 Column(s)
LFBD 105 2016-04-14 : Fetching 72 Rows with 2 Column(s)
LFBD 106 2016-04-15 : Fetching 72 Rows with 2 Column(s)
LFBD 107 2016-04-16 : Fetching 72 Rows with 2 Column(s)
LFBD 108 2016-04-17 : Fetching 72 Rows with 2 Column(s)
LFBD 109 2016-04-18 : Fetching 72 Rows with 2 Column(s)
LFBD 110 2016-04-19 : Fetching 72 Rows with 2 Column(s)
LFBD 111 2016-04-20 : Fetching 72 Rows with 2 Column(s)
LFBD 112 2016-04-21 : Fetching 72 Rows with 2 Column(s)
LFBD 113 2016-04-22 : Fetching 72 Rows with 2 Column(s)
LFBD 114 2016-04-23 : Fetching 72 Rows with 2 Column(s)
LFBD 115 2016-04-24 : Fetching 72 Rows with 2 Column(s)
LFBD 116 2016-04-25 : Fetching 72 Rows with 2 Column(s)
LFBD 117 2016-04-26 : Fetching 72 Rows with 2 Column(s)
LFBD 118 2016-04-27 : Fetching 72 Rows with 2 Column(s)
LFBD 119 2016-04-28 : Fetching 72 Rows with 2 Column(s)
LFBD 120 2016-04-29 : Fetching 72 Rows with 2 Column(s)
LFBD 121 2016-04-30 : Fetching 72 Rows with 2 Column(s)
LFBD 122 2016-05-01 : Fetching 72 Rows with 2 Column(s)
LFBD 123 2016-05-02 : Fetching 72 Rows with 2 Column(s)
LFBD 124 2016-05-03 : Fetching 72 Rows with 2 Column(s)
LFBD 125 2016-05-04 : Fetching 72 Rows with 2 Column(s)
LFBD 126 2016-05-05 : Fetching 72 Rows with 2 Column(s)
LFBD 127 2016-05-06 : Fetching 72 Rows with 2 Column(s)
LFBD 128 2016-05-07 : Fetching 72 Rows with 2 Column(s)
LFBD 129 2016-05-08 : Fetching 72 Rows with 2 Column(s)
LFBD 130 2016-05-09 : Fetching 72 Rows with 2 Column(s)
LFBD 131 2016-05-10 : Fetching 72 Rows with 2 Column(s)
LFBD 132 2016-05-11 : Fetching 72 Rows with 2 Column(s)
LFBD 133 2016-05-12 : Fetching 72 Rows with 2 Column(s)
```

```
LFBD 134 2016-05-13 : Fetching 72 Rows with 2 Column(s)
LFBD 135 2016-05-14 : Fetching 72 Rows with 2 Column(s)
LFBD 136 2016-05-15 : Fetching 72 Rows with 2 Column(s)
LFBD 137 2016-05-16 : Fetching 72 Rows with 2 Column(s)
LFBD 138 2016-05-17 : Fetching 72 Rows with 2 Column(s)
LFBD 139 2016-05-18 : Fetching 72 Rows with 2 Column(s)
LFBD 140 2016-05-19 : Fetching 72 Rows with 2 Column(s)
LFBD 141 2016-05-20 : Fetching 72 Rows with 2 Column(s)
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LFBD 495 2017-05-09 : Fetching 68 Rows with 2 Column(s)
LFBD 496 2017-05-10 : Fetching 67 Rows with 2 Column(s)
LFBD 497 2017-05-11 : Fetching 65 Rows with 2 Column(s)
LFBD 498 2017-05-12 : Fetching 68 Rows with 2 Column(s)
LFBD 499 2017-05-13 : Fetching 69 Rows with 2 Column(s)
LFBD 500 2017-05-14 : Fetching 66 Rows with 2 Column(s)
LFBD 501 2017-05-15 : Fetching 70 Rows with 2 Column(s)
LFBD 502 2017-05-16 : Fetching 69 Rows with 2 Column(s)
LFBD 503 2017-05-17 : Fetching 67 Rows with 2 Column(s)
LFBD 504 2017-05-18 : Fetching 65 Rows with 2 Column(s)
LFBD 505 2017-05-19 : Fetching 67 Rows with 2 Column(s)
LFBD 506 2017-05-20 : Fetching 64 Rows with 2 Column(s)
LFBD 507 2017-05-21 : Fetching 65 Rows with 2 Column(s)
LFBD 508 2017-05-22 : Fetching 71 Rows with 2 Column(s)
LFBD 509 2017-05-23 : Fetching 67 Rows with 2 Column(s)
LFBD 510 2017-05-24 : Fetching 68 Rows with 2 Column(s)
LFBD 511 2017-05-25 : Fetching 68 Rows with 2 Column(s)
LFBD 512 2017-05-26 : Fetching 70 Rows with 2 Column(s)
LFBD 513 2017-05-27 : Fetching 67 Rows with 2 Column(s)
LFBD 514 2017-05-28 : Fetching 68 Rows with 2 Column(s)
LFBD 515 2017-05-29 : Fetching 68 Rows with 2 Column(s)
LFBD 516 2017-05-30 : Fetching 68 Rows with 2 Column(s)
LFBD 517 2017-05-31 : Fetching 68 Rows with 2 Column(s)
LFBD 518 2017-06-01 : Fetching 68 Rows with 2 Column(s)
LFBD 519 2017-06-02 : Fetching 67 Rows with 2 Column(s)
LFBD 520 2017-06-03 : Fetching 68 Rows with 2 Column(s)
LFBD 521 2017-06-04 : Fetching 68 Rows with 2 Column(s)
LFBD 522 2017-06-05 : Fetching 68 Rows with 2 Column(s)
LFBD 523 2017-06-06 : Fetching 69 Rows with 2 Column(s)
LFBD 524 2017-06-07 : Fetching 68 Rows with 2 Column(s)
LFBD 525 2017-06-08 : Fetching 61 Rows with 2 Column(s)
LFBD 526 2017-06-09 : Fetching 67 Rows with 2 Column(s)
LFBD 527 2017-06-10 : Fetching 68 Rows with 2 Column(s)
LFBD 528 2017-06-11 : Fetching 68 Rows with 2 Column(s)
LFBD 529 2017-06-12 : Fetching 66 Rows with 2 Column(s)
LFBD 530 2017-06-13 : Fetching 69 Rows with 2 Column(s)
LFBD 531 2017-06-14 : Fetching 69 Rows with 2 Column(s)
LFBD 532 2017-06-15 : Fetching 66 Rows with 2 Column(s)
LFBD 533 2017-06-16 : Fetching 64 Rows with 2 Column(s)
LFBD 534 2017-06-17 : Fetching 67 Rows with 2 Column(s)
LFBD 535 2017-06-18 : Fetching 68 Rows with 2 Column(s)
LFBD 536 2017-06-19 : Fetching 69 Rows with 2 Column(s)
LFBD 537 2017-06-20 : Fetching 69 Rows with 2 Column(s)
LFBD 538 2017-06-21 : Fetching 68 Rows with 2 Column(s)
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LFBD 539 2017-06-22 : Fetching 68 Rows with 2 Column(s)
LFBD 540 2017-06-23 : Fetching 68 Rows with 2 Column(s)
LFBD 541 2017-06-24 : Fetching 69 Rows with 2 Column(s)
LFBD 542 2017-06-25 : Fetching 67 Rows with 2 Column(s)
LFBD 543 2017-06-26 : Fetching 66 Rows with 2 Column(s)
LFBD 544 2017-06-27 : Fetching 69 Rows with 2 Column(s)
LFBD 545 2017-06-28 : Fetching 70 Rows with 2 Column(s)
LFBD 546 2017-06-29 : Fetching 69 Rows with 2 Column(s)
LFBD 547 2017-06-30 : Fetching 70 Rows with 2 Column(s)
LFBD 548 2017-07-01 : Fetching 69 Rows with 2 Column(s)
LFBD 549 2017-07-02 : Fetching 68 Rows with 2 Column(s)
LFBD 550 2017-07-03 : Fetching 70 Rows with 2 Column(s)
LFBD 551 2017-07-04 : Fetching 68 Rows with 2 Column(s)
LFBD 552 2017-07-05 : Fetching 67 Rows with 2 Column(s)
LFBD 553 2017-07-06 : Fetching 68 Rows with 2 Column(s)
LFBD 554 2017-07-07 : Fetching 68 Rows with 2 Column(s)
LFBD 555 2017-07-08 : Fetching 66 Rows with 2 Column(s)
LFBD 556 2017-07-09 : Fetching 67 Rows with 2 Column(s)
LFBD 557 2017-07-10 : Fetching 68 Rows with 2 Column(s)
LFBD 558 2017-07-11 : Fetching 69 Rows with 2 Column(s)
LFBD 559 2017-07-12 : Fetching 66 Rows with 2 Column(s)
LFBD 560 2017-07-13 : Fetching 68 Rows with 2 Column(s)
LFBD 561 2017-07-14 : Fetching 67 Rows with 2 Column(s)
LFBD 562 2017-07-15 : Fetching 68 Rows with 2 Column(s)
LFBD 563 2017-07-16 : Fetching 68 Rows with 2 Column(s)
LFBD 564 2017-07-17 : Fetching 61 Rows with 2 Column(s)
LFBD 565 2017-07-18 : Fetching 56 Rows with 2 Column(s)
LFBD 566 2017-07-19 : Fetching 56 Rows with 2 Column(s)
LFBD 567 2017-07-20 : Fetching 68 Rows with 2 Column(s)
LFBD 568 2017-07-21 : Fetching 69 Rows with 2 Column(s)
LFBD 569 2017-07-22 : Fetching 70 Rows with 2 Column(s)
LFBD 570 2017-07-23 : Fetching 65 Rows with 2 Column(s)
LFBD 571 2017-07-24 : Fetching 71 Rows with 2 Column(s)
LFBD 572 2017-07-25 : Fetching 71 Rows with 2 Column(s)
LFBD 573 2017-07-26 : Fetching 72 Rows with 2 Column(s)
LFBD 574 2017-07-27 : Fetching 70 Rows with 2 Column(s)
LFBD 575 2017-07-28 : Fetching 72 Rows with 2 Column(s)
LFBD 576 2017-07-29 : Fetching 70 Rows with 2 Column(s)
LFBD 577 2017-07-30 : Fetching 71 Rows with 2 Column(s)
LFBD 578 2017-07-31 : Fetching 72 Rows with 2 Column(s)
LFBD 579 2017-08-01 : Fetching 71 Rows with 2 Column(s)
LFBD 580 2017-08-02 : Fetching 71 Rows with 2 Column(s)
LFBD 581 2017-08-03 : Fetching 69 Rows with 2 Column(s)
LFBD 582 2017-08-04 : Fetching 72 Rows with 2 Column(s)
LFBD 583 2017-08-05 : Fetching 66 Rows with 2 Column(s)
LFBD 584 2017-08-06 : Fetching 70 Rows with 2 Column(s)
LFBD 585 2017-08-07 : Fetching 68 Rows with 2 Column(s)
LFBD 586 2017-08-08 : Fetching 70 Rows with 2 Column(s)
LFBD 587 2017-08-09 : Fetching 68 Rows with 2 Column(s)
LFBD 588 2017-08-10 : Fetching 66 Rows with 2 Column(s)
LFBD 589 2017-08-11 : Fetching 69 Rows with 2 Column(s)
LFBD 590 2017-08-12 : Fetching 69 Rows with 2 Column(s)
LFBD 591 2017-08-13 : Fetching 66 Rows with 2 Column(s)
LFBD 592 2017-08-14 : Fetching 67 Rows with 2 Column(s)
LFBD 593 2017-08-15 : Fetching 66 Rows with 2 Column(s)
LFBD 594 2017-08-16 : Fetching 67 Rows with 2 Column(s)
LFBD 595 2017-08-17 : Fetching 69 Rows with 2 Column(s)
LFBD 596 2017-08-18 : Fetching 67 Rows with 2 Column(s)
LFBD 597 2017-08-19 : Fetching 67 Rows with 2 Column(s)
LFBD 598 2017-08-20 : Fetching 67 Rows with 2 Column(s)
LFBD 599 2017-08-21 : Fetching 69 Rows with 2 Column(s)
LFBD 600 2017-08-22 : Fetching 65 Rows with 2 Column(s)
LFBD 601 2017-08-23 : Fetching 68 Rows with 2 Column(s)
LFBD 602 2017-08-24 : Fetching 63 Rows with 2 Column(s)
LFBD 603 2017-08-25 : Fetching 67 Rows with 2 Column(s)
LFBD 604 2017-08-26 : Fetching 69 Rows with 2 Column(s)
LFBD 605 2017-08-27 : Fetching 67 Rows with 2 Column(s)
LFBD 606 2017-08-28 : Fetching 69 Rows with 2 Column(s)
LFBD 607 2017-08-29 : Fetching 69 Rows with 2 Column(s)
LFBD 608 2017-08-30 : Fetching 68 Rows with 2 Column(s)
```

However we are also interested in columns: 2,4,7,12,14.

Please note that the column numbers are very different depending on whether or not opt_detailed is TRUE or FALSE.

When fetching the data, we have to set opt_custom_columns=TRUE and custom_columns=c(2,4,,7,12,14).

We are now ready to actually fetch the data.

Hide

```
bor_rawdat<-getWeatherForDate("LFBD",start_date = "2016-01-01",end_date = "2017-08-30",opt_detailed = TRUE,opt_custom_column
s=T, custom_columns=c(2,4,7,12,14))
```

```
Getting data from:
 https://www.wunderground.com/history/airport/LFBD/2016/1/1/DailyHistory.html?format=1
```

```
[1] 73
```

```
The following columns are available for:2016-01-01
```

```
 [1] "TimeCET"              "TemperatureC"         "Dew_PointC"           "Humidity"             "Sea_Level_PressurehPa"
"VisibilityKm"         "Wind_Direction"
 [8] "Wind_SpeedKm_h"       "Gust_SpeedKm_h"       "Precipitationmm"      "Events"               "Conditions"
"WindDirDegrees"       "DateUTC"
[1] 36 14
       V1 V2 V3  V4   V5      V6    V7  V8 V9 V10 V11            V12 V13                V14
1 12:00 AM  7  6  95 1026      NA South 5.6        Fog Patches of Fog 170 2015-12-31 23:00:00
2 12:30 AM  6  6 100 1025 -9999.0   ESE 5.6  - N/A              Mist 120 2015-12-31 23:30:00
3  1:00 AM  6  5  93 1025     0.6   ESE 5.6  - N/A Fog            Fog 120 2016-01-01 00:00:00
4  2:00 AM  5  4  95 1026      NA   ESE 5.6        Fog    Partial Fog 110 2016-01-01 01:00:00
5  2:30 AM  5  4  93 1025     0.4   ESE 5.6  - N/A Fog            Fog 110 2016-01-01 01:30:00
6  3:00 AM  5  4  93 1025     0.7  East 7.4  - N/A Fog            Fog 100 2016-01-01 02:00:00
```

```
Getting data from:
 https://www.wunderground.com/history/airport/LFBD/2017/8/30/DailyHistory.html?format=1
```

```
[1] 69
```

```
The following columns are available for:2017-08-30
```

```
 [1] "TimeCEST"             "TemperatureC"         "Dew_PointC"           "Humidity"             "Sea_Level_PressurehPa"
"VisibilityKm"         "Wind_Direction"
 [8] "Wind_SpeedKm_h"       "Gust_SpeedKm_h"       "Precipitationmm"      "Events"               "Conditions"
"WindDirDegrees"       "DateUTC"
[1] 34 14
       V1 V2 V3 V4   V5    V6       V7   V8 V9 V10 V11           V12 V13                V14
1 12:00 AM 21 18 79 1013    45       NW  9.3                   Clear 310 2017-08-29 22:00:00
2 12:30 AM 21 19 88 1013 -9999      WNW  7.4  - N/A            Clear 300 2017-08-29 22:30:00
3  1:00 AM 21 19 88 1013 -9999     Calm Calm  - N/A            Clear   0 2017-08-29 23:00:00
4  2:00 AM 21 19 86 1014    20      WSW  7.4                   Clear 250 2017-08-30 00:00:00
5  2:30 AM 21 19 88 1013    10 Variable  5.6  - N/A         Overcast   0 2017-08-30 00:30:00
6  3:00 AM 21 19 88 1014    10      WSW  9.3  - N/A     Mostly Cloudy 240 2017-08-30 01:00:00
```

```
Checking Data Availability For LFBD
Found 36 records for 2016-01-01
Found 34 records for 2017-08-30

Data is Available for the interval.

Will be fetching these Columns:
```

```
[1] "Time"           "TemperatureC"   "Humidity"       "Wind_Direction" "Conditions"     "DateUTC"
```

```
Begin getting Daily Data for LFBD
LFBD 1 2016-01-01 : Fetching 72 Rows with 6 Column(s)
LFBD 2 2016-01-02 : Fetching 72 Rows with 6 Column(s)
LFBD 3 2016-01-03 : Fetching 72 Rows with 6 Column(s)
LFBD 4 2016-01-04 : Fetching 72 Rows with 6 Column(s)
LFBD 5 2016-01-05 : Fetching 60 Rows with 6 Column(s)
LFBD 6 2016-01-06 : Fetching 72 Rows with 6 Column(s)
LFBD 7 2016-01-07 : Fetching 72 Rows with 6 Column(s)
LFBD 8 2016-01-08 : Fetching 72 Rows with 6 Column(s)
LFBD 9 2016-01-09 : Fetching 72 Rows with 6 Column(s)
LFBD 10 2016-01-10 : Fetching 72 Rows with 6 Column(s)
LFBD 11 2016-01-11 : Fetching 72 Rows with 6 Column(s)
LFBD 12 2016-01-12 : Fetching 72 Rows with 6 Column(s)
LFBD 13 2016-01-13 : Fetching 72 Rows with 6 Column(s)
LFBD 14 2016-01-14 : Fetching 72 Rows with 6 Column(s)
LFBD 15 2016-01-15 : Fetching 72 Rows with 6 Column(s)
LFBD 16 2016-01-16 : Fetching 72 Rows with 6 Column(s)
LFBD 17 2016-01-17 : Fetching 72 Rows with 6 Column(s)
LFBD 18 2016-01-18 : Fetching 72 Rows with 6 Column(s)
LFBD 19 2016-01-19 : Fetching 72 Rows with 6 Column(s)
LFBD 20 2016-01-20 : Fetching 72 Rows with 6 Column(s)
LFBD 21 2016-01-21 : Fetching 72 Rows with 6 Column(s)
LFBD 22 2016-01-22 : Fetching 72 Rows with 6 Column(s)
LFBD 23 2016-01-23 : Fetching 72 Rows with 6 Column(s)
LFBD 24 2016-01-24 : Fetching 72 Rows with 6 Column(s)
LFBD 25 2016-01-25 : Fetching 72 Rows with 6 Column(s)
LFBD 26 2016-01-26 : Fetching 72 Rows with 6 Column(s)
LFBD 27 2016-01-27 : Fetching 72 Rows with 6 Column(s)
LFBD 28 2016-01-28 : Fetching 72 Rows with 6 Column(s)
LFBD 29 2016-01-29 : Fetching 72 Rows with 6 Column(s)
LFBD 30 2016-01-30 : Fetching 72 Rows with 6 Column(s)
LFBD 31 2016-01-31 : Fetching 72 Rows with 6 Column(s)
LFBD 32 2016-02-01 : Fetching 72 Rows with 6 Column(s)
LFBD 33 2016-02-02 : Fetching 71 Rows with 6 Column(s)
LFBD 34 2016-02-03 : Fetching 72 Rows with 6 Column(s)
LFBD 35 2016-02-04 : Fetching 72 Rows with 6 Column(s)
LFBD 36 2016-02-05 : Fetching 72 Rows with 6 Column(s)
LFBD 37 2016-02-06 : Fetching 71 Rows with 6 Column(s)
LFBD 38 2016-02-07 : Fetching 72 Rows with 6 Column(s)
LFBD 39 2016-02-08 : Fetching 72 Rows with 6 Column(s)
LFBD 40 2016-02-09 : Fetching 72 Rows with 6 Column(s)
LFBD 41 2016-02-10 : Fetching 72 Rows with 6 Column(s)
LFBD 42 2016-02-11 : Fetching 72 Rows with 6 Column(s)
LFBD 43 2016-02-12 : Fetching 72 Rows with 6 Column(s)
LFBD 44 2016-02-13 : Fetching 72 Rows with 6 Column(s)
LFBD 45 2016-02-14 : Fetching 72 Rows with 6 Column(s)
LFBD 46 2016-02-15 : Fetching 72 Rows with 6 Column(s)
LFBD 47 2016-02-16 : Fetching 72 Rows with 6 Column(s)
LFBD 48 2016-02-17 : Fetching 72 Rows with 6 Column(s)
LFBD 49 2016-02-18 : Fetching 72 Rows with 6 Column(s)
LFBD 50 2016-02-19 : Fetching 72 Rows with 6 Column(s)
LFBD 51 2016-02-20 : Fetching 72 Rows with 6 Column(s)
LFBD 52 2016-02-21 : Fetching 72 Rows with 6 Column(s)
LFBD 53 2016-02-22 : Fetching 72 Rows with 6 Column(s)
LFBD 54 2016-02-23 : Fetching 72 Rows with 6 Column(s)
LFBD 55 2016-02-24 : Fetching 72 Rows with 6 Column(s)
LFBD 56 2016-02-25 : Fetching 72 Rows with 6 Column(s)
LFBD 57 2016-02-26 : Fetching 72 Rows with 6 Column(s)
LFBD 58 2016-02-27 : Fetching 72 Rows with 6 Column(s)
LFBD 59 2016-02-28 : Fetching 72 Rows with 6 Column(s)
LFBD 60 2016-02-29 : Fetching 72 Rows with 6 Column(s)
LFBD 61 2016-03-01 : Fetching 72 Rows with 6 Column(s)
LFBD 62 2016-03-02 : Fetching 72 Rows with 6 Column(s)
LFBD 63 2016-03-03 : Fetching 72 Rows with 6 Column(s)
LFBD 64 2016-03-04 : Fetching 72 Rows with 6 Column(s)
LFBD 65 2016-03-05 : Fetching 69 Rows with 6 Column(s)
LFBD 66 2016-03-06 : Fetching 72 Rows with 6 Column(s)
LFBD 67 2016-03-07 : Fetching 72 Rows with 6 Column(s)
LFBD 68 2016-03-08 : Fetching 72 Rows with 6 Column(s)
LFBD 69 2016-03-09 : Fetching 72 Rows with 6 Column(s)
LFBD 70 2016-03-10 : Fetching 72 Rows with 6 Column(s)
LFBD 71 2016-03-11 : Fetching 72 Rows with 6 Column(s)
LFBD 72 2016-03-12 : Fetching 72 Rows with 6 Column(s)
LFBD 73 2016-03-13 : Fetching 72 Rows with 6 Column(s)
LFBD 74 2016-03-14 : Fetching 72 Rows with 6 Column(s)
LFBD 75 2016-03-15 : Fetching 72 Rows with 6 Column(s)
LFBD 76 2016-03-16 : Fetching 72 Rows with 6 Column(s)
LFBD 77 2016-03-17 : Fetching 72 Rows with 6 Column(s)
LFBD 78 2016-03-18 : Fetching 72 Rows with 6 Column(s)
LFBD 79 2016-03-19 : Fetching 72 Rows with 6 Column(s)
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LFBD 81 2016-03-21 : Fetching 72 Rows with 6 Column(s)
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LFBD 83 2016-03-23 : Fetching 71 Rows with 6 Column(s)
LFBD 84 2016-03-24 : Fetching 72 Rows with 6 Column(s)
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LFBD 86 2016-03-26 : Fetching 72 Rows with 6 Column(s)
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LFBD 91 2016-03-31 : Fetching 72 Rows with 6 Column(s)
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LFBD 93 2016-04-02 : Fetching 72 Rows with 6 Column(s)
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LFBD 95 2016-04-04 : Fetching 72 Rows with 6 Column(s)
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LFBD 125 2016-05-04 : Fetching 72 Rows with 6 Column(s)
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LFBD 134 2016-05-13 : Fetching 72 Rows with 6 Column(s)
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LFBD 167 2016-06-15 : Fetching 72 Rows with 6 Column(s)
LFBD 168 2016-06-16 : Fetching 72 Rows with 6 Column(s)
LFBD 169 2016-06-17 : Fetching 72 Rows with 6 Column(s)
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LFBD 538 2017-06-21 : Fetching 68 Rows with 6 Column(s)
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LFBD 539 2017-06-22 : Fetching 68 Rows with 6 Column(s)
LFBD 540 2017-06-23 : Fetching 68 Rows with 6 Column(s)
LFBD 541 2017-06-24 : Fetching 69 Rows with 6 Column(s)
LFBD 542 2017-06-25 : Fetching 67 Rows with 6 Column(s)
LFBD 543 2017-06-26 : Fetching 66 Rows with 6 Column(s)
LFBD 544 2017-06-27 : Fetching 69 Rows with 6 Column(s)
LFBD 545 2017-06-28 : Fetching 70 Rows with 6 Column(s)
LFBD 546 2017-06-29 : Fetching 69 Rows with 6 Column(s)
LFBD 547 2017-06-30 : Fetching 70 Rows with 6 Column(s)
LFBD 548 2017-07-01 : Fetching 69 Rows with 6 Column(s)
LFBD 549 2017-07-02 : Fetching 68 Rows with 6 Column(s)
LFBD 550 2017-07-03 : Fetching 70 Rows with 6 Column(s)
LFBD 551 2017-07-04 : Fetching 68 Rows with 6 Column(s)
LFBD 552 2017-07-05 : Fetching 67 Rows with 6 Column(s)
LFBD 553 2017-07-06 : Fetching 68 Rows with 6 Column(s)
LFBD 554 2017-07-07 : Fetching 68 Rows with 6 Column(s)
LFBD 555 2017-07-08 : Fetching 66 Rows with 6 Column(s)
LFBD 556 2017-07-09 : Fetching 67 Rows with 6 Column(s)
LFBD 557 2017-07-10 : Fetching 68 Rows with 6 Column(s)
LFBD 558 2017-07-11 : Fetching 69 Rows with 6 Column(s)
LFBD 559 2017-07-12 : Fetching 66 Rows with 6 Column(s)
LFBD 560 2017-07-13 : Fetching 68 Rows with 6 Column(s)
LFBD 561 2017-07-14 : Fetching 67 Rows with 6 Column(s)
LFBD 562 2017-07-15 : Fetching 68 Rows with 6 Column(s)
LFBD 563 2017-07-16 : Fetching 68 Rows with 6 Column(s)
LFBD 564 2017-07-17 : Fetching 61 Rows with 6 Column(s)
LFBD 565 2017-07-18 : Fetching 56 Rows with 6 Column(s)
LFBD 566 2017-07-19 : Fetching 56 Rows with 6 Column(s)
LFBD 567 2017-07-20 : Fetching 68 Rows with 6 Column(s)
LFBD 568 2017-07-21 : Fetching 69 Rows with 6 Column(s)
LFBD 569 2017-07-22 : Fetching 70 Rows with 6 Column(s)
LFBD 570 2017-07-23 : Fetching 65 Rows with 6 Column(s)
LFBD 571 2017-07-24 : Fetching 71 Rows with 6 Column(s)
LFBD 572 2017-07-25 : Fetching 71 Rows with 6 Column(s)
LFBD 573 2017-07-26 : Fetching 72 Rows with 6 Column(s)
LFBD 574 2017-07-27 : Fetching 70 Rows with 6 Column(s)
LFBD 575 2017-07-28 : Fetching 72 Rows with 6 Column(s)
LFBD 576 2017-07-29 : Fetching 70 Rows with 6 Column(s)
LFBD 577 2017-07-30 : Fetching 71 Rows with 6 Column(s)
LFBD 578 2017-07-31 : Fetching 72 Rows with 6 Column(s)
LFBD 579 2017-08-01 : Fetching 71 Rows with 6 Column(s)
LFBD 580 2017-08-02 : Fetching 71 Rows with 6 Column(s)
LFBD 581 2017-08-03 : Fetching 69 Rows with 6 Column(s)
LFBD 582 2017-08-04 : Fetching 72 Rows with 6 Column(s)
LFBD 583 2017-08-05 : Fetching 66 Rows with 6 Column(s)
LFBD 584 2017-08-06 : Fetching 70 Rows with 6 Column(s)
LFBD 585 2017-08-07 : Fetching 68 Rows with 6 Column(s)
LFBD 586 2017-08-08 : Fetching 70 Rows with 6 Column(s)
LFBD 587 2017-08-09 : Fetching 68 Rows with 6 Column(s)
LFBD 588 2017-08-10 : Fetching 66 Rows with 6 Column(s)
LFBD 589 2017-08-11 : Fetching 69 Rows with 6 Column(s)
LFBD 590 2017-08-12 : Fetching 69 Rows with 6 Column(s)
LFBD 591 2017-08-13 : Fetching 66 Rows with 6 Column(s)
LFBD 592 2017-08-14 : Fetching 67 Rows with 6 Column(s)
LFBD 593 2017-08-15 : Fetching 66 Rows with 6 Column(s)
LFBD 594 2017-08-16 : Fetching 67 Rows with 6 Column(s)
LFBD 595 2017-08-17 : Fetching 69 Rows with 6 Column(s)
LFBD 596 2017-08-18 : Fetching 67 Rows with 6 Column(s)
LFBD 597 2017-08-19 : Fetching 67 Rows with 6 Column(s)
LFBD 598 2017-08-20 : Fetching 67 Rows with 6 Column(s)
LFBD 599 2017-08-21 : Fetching 69 Rows with 6 Column(s)
LFBD 600 2017-08-22 : Fetching 65 Rows with 6 Column(s)
LFBD 601 2017-08-23 : Fetching 68 Rows with 6 Column(s)
LFBD 602 2017-08-24 : Fetching 63 Rows with 6 Column(s)
LFBD 603 2017-08-25 : Fetching 67 Rows with 6 Column(s)
LFBD 604 2017-08-26 : Fetching 69 Rows with 6 Column(s)
LFBD 605 2017-08-27 : Fetching 67 Rows with 6 Column(s)
LFBD 606 2017-08-28 : Fetching 69 Rows with 6 Column(s)
LFBD 607 2017-08-29 : Fetching 69 Rows with 6 Column(s)
LFBD 608 2017-08-30 : Fetching 68 Rows with 6 Column(s)
```

Hide

```
head(bor_rawdat)
```

	Time <S3: POSIXct>	TemperatureC <dbl>	Humidity <int>	Wind_Direction <chr>	Conditions <chr>	DateUTC <chr>
1	2016-01-01 00:00:00	7	95	South	Patches of Fog	2015-12-31 23:00:00
2	2016-01-01 00:00:00	7	93	South	Unknown	2015-12-31 23:00:00
3	2016-01-01 00:30:00	6	100	ESE	Mist	2015-12-31 23:30:00
4	2016-01-01 01:00:00	6	98	ESE	Partial Fog	2016-01-01 00:00:00
5	2016-01-01 01:00:00	6	93	ESE	Fog	2016-01-01 00:00:00
6	2016-01-01 01:30:00	5	100	SE	Fog	2016-01-01 00:30:00

6 rows

Hide

```
dim(bor_rawdat)
```

```
[1] 42920     6
```

DOING THE SAME ACTION FOR ANTIBES

Hide

```
getStationCode("Antibes")
```

IBONSON2

Hide

```
showAvailableColumns("Antibes", start_date = "2016-01-01",end_date = "2017-08-30" )
```

columnNumber <int>	columnName <fctr>
1	CET
2	Max_TemperatureC
3	Mean_TemperatureC
4	Min_TemperatureC
5	Dew_PointC
6	MeanDew_PointC
7	Min_DewpointC
8	Max_Humidity
9	Mean_Humidity
10	Min_Humidity

1-10 of 23 rows

Previous **1** 2 3 Next

Hide

```
antibes_rawdat<-getWeatherForDate("Antibes",start_date = "2016-01-01", end_date = "2017-08-30",opt_detailed = TRUE,opt_custo
m_columns=TRUE,custom_columns = c(2,4,7,12,14))
```

```
Getting data from:
 https://www.wunderground.com/history/airport/Antibes/2016/1/1/DailyHistory.html?format=1
```

```
[1] 73
```

```
The following columns are available for:2016-01-01
```

```
 [1] "TimeCET"               "TemperatureC"          "Dew_PointC"            "Humidity"              "Sea_Level_PressurehPa"
"VisibilityKm"          "Wind_Direction"
 [8] "Wind_SpeedKm_h"        "Gust_SpeedKm_h"        "Precipitationmm"       "Events"                "Conditions"
"WindDirDegrees"        "DateUTC"
[1] 36 14
       V1 V2 V3 V4   V5 V6  V7   V8 V9 V10 V11      V12 V13                V14
1 12:00 AM 10  4 59 1026 12 NNW  7.4            Overcast 330 2015-12-31 23:00:00
2 12:30 AM 10  5 71 1026 10 NNW  9.3  - N/A     Overcast 330 2015-12-31 23:30:00
3  1:00 AM 10  5 71 1025 10 NNW 11.1  - N/A     Overcast 330 2016-01-01 00:00:00
4  2:00 AM 10  5 64 1026 15 NNW  9.3            Overcast 340 2016-01-01 01:00:00
5  2:30 AM 10  5 71 1025 10 NNW  9.3  - N/A     Overcast 330 2016-01-01 01:30:00
6  3:00 AM 10  5 71 1025 10 NNW 11.1  - N/A     Overcast 340 2016-01-01 02:00:00
```

```
Getting data from:
 https://www.wunderground.com/history/airport/Antibes/2017/8/30/DailyHistory.html?format=1
```

```
[1] 71
```

```
The following columns are available for:2017-08-30
```

```
 [1] "TimeCEST"              "TemperatureC"          "Dew_PointC"            "Humidity"              "Sea_Level_PressurehPa"
"VisibilityKm"          "Wind_Direction"
 [8] "Wind_SpeedKm_h"        "Gust_SpeedKm_h"        "Precipitationmm"       "Events"                "Conditions"
"WindDirDegrees"        "DateUTC"
[1] 35 14
       V1 V2 V3 V4   V5    V6  V7   V8 V9 V10 V11   V12 V13                V14
1 12:00 AM 25 19 64 1014    20 WNW  7.4           Clear 290 2017-08-29 22:00:00
2 12:30 AM 25 18 65 1014 -9999 WNW  7.4  - N/A    Clear 300 2017-08-29 22:30:00
3  1:00 AM 25 18 65 1014 -9999  NW  7.4  - N/A    Clear 320 2017-08-29 23:00:00
4  2:00 AM 26 17 48 1014    20 NNW 11.1           Clear 340 2017-08-30 00:00:00
5  2:34 AM 26 17 57 1014 -9999 NNW  7.4  - N/A    Clear 340 2017-08-30 00:34:00
6  3:00 AM 26 17 57 1014 -9999 NNW  7.4  - N/A    Clear 340 2017-08-30 01:00:00
```

```
Checking Data Availability For Antibes
Found 36 records for 2016-01-01
Found 35 records for 2017-08-30

Data is Available for the interval.

Will be fetching these Columns:
```

```
[1] "Time"           "TemperatureC"   "Humidity"       "Wind_Direction" "Conditions"     "DateUTC"
```

```
Begin getting Daily Data for Antibes
Antibes 1 2016-01-01 : Fetching 72 Rows with 6 Column(s)
Antibes 2 2016-01-02 : Fetching 70 Rows with 6 Column(s)
Antibes 3 2016-01-03 : Fetching 71 Rows with 6 Column(s)
Antibes 4 2016-01-04 : Fetching 70 Rows with 6 Column(s)
Antibes 5 2016-01-05 : Fetching 59 Rows with 6 Column(s)
Antibes 6 2016-01-06 : Fetching 72 Rows with 6 Column(s)
Antibes 7 2016-01-07 : Fetching 71 Rows with 6 Column(s)
Antibes 8 2016-01-08 : Fetching 67 Rows with 6 Column(s)
Antibes 9 2016-01-09 : Fetching 71 Rows with 6 Column(s)
Antibes 10 2016-01-10 : Fetching 72 Rows with 6 Column(s)
Antibes 11 2016-01-11 : Fetching 72 Rows with 6 Column(s)
Antibes 12 2016-01-12 : Fetching 72 Rows with 6 Column(s)
Antibes 13 2016-01-13 : Fetching 70 Rows with 6 Column(s)
Antibes 14 2016-01-14 : Fetching 71 Rows with 6 Column(s)
Antibes 15 2016-01-15 : Fetching 70 Rows with 6 Column(s)
Antibes 16 2016-01-16 : Fetching 72 Rows with 6 Column(s)
Antibes 17 2016-01-17 : Fetching 72 Rows with 6 Column(s)
Antibes 18 2016-01-18 : Fetching 71 Rows with 6 Column(s)
Antibes 19 2016-01-19 : Fetching 68 Rows with 6 Column(s)
Antibes 20 2016-01-20 : Fetching 72 Rows with 6 Column(s)
Antibes 21 2016-01-21 : Fetching 70 Rows with 6 Column(s)
Antibes 22 2016-01-22 : Fetching 72 Rows with 6 Column(s)
Antibes 23 2016-01-23 : Fetching 70 Rows with 6 Column(s)
Antibes 24 2016-01-24 : Fetching 71 Rows with 6 Column(s)
Antibes 25 2016-01-25 : Fetching 71 Rows with 6 Column(s)
Antibes 26 2016-01-26 : Fetching 72 Rows with 6 Column(s)
Antibes 27 2016-01-27 : Fetching 72 Rows with 6 Column(s)
Antibes 28 2016-01-28 : Fetching 71 Rows with 6 Column(s)
Antibes 29 2016-01-29 : Fetching 71 Rows with 6 Column(s)
Antibes 30 2016-01-30 : Fetching 72 Rows with 6 Column(s)
Antibes 31 2016-01-31 : Fetching 72 Rows with 6 Column(s)
Antibes 32 2016-02-01 : Fetching 70 Rows with 6 Column(s)
Antibes 33 2016-02-02 : Fetching 71 Rows with 6 Column(s)
Antibes 34 2016-02-03 : Fetching 71 Rows with 6 Column(s)
Antibes 35 2016-02-04 : Fetching 70 Rows with 6 Column(s)
Antibes 36 2016-02-05 : Fetching 71 Rows with 6 Column(s)
Antibes 37 2016-02-06 : Fetching 73 Rows with 6 Column(s)
Antibes 38 2016-02-07 : Fetching 71 Rows with 6 Column(s)
Antibes 39 2016-02-08 : Fetching 72 Rows with 6 Column(s)
Antibes 40 2016-02-09 : Fetching 75 Rows with 6 Column(s)
Antibes 41 2016-02-10 : Fetching 68 Rows with 6 Column(s)
Antibes 42 2016-02-11 : Fetching 73 Rows with 6 Column(s)
Antibes 43 2016-02-12 : Fetching 69 Rows with 6 Column(s)
Antibes 44 2016-02-13 : Fetching 72 Rows with 6 Column(s)
Antibes 45 2016-02-14 : Fetching 70 Rows with 6 Column(s)
Antibes 46 2016-02-15 : Fetching 71 Rows with 6 Column(s)
Antibes 47 2016-02-16 : Fetching 72 Rows with 6 Column(s)
Antibes 48 2016-02-17 : Fetching 70 Rows with 6 Column(s)
Antibes 49 2016-02-18 : Fetching 71 Rows with 6 Column(s)
Antibes 50 2016-02-19 : Fetching 70 Rows with 6 Column(s)
Antibes 51 2016-02-20 : Fetching 71 Rows with 6 Column(s)
Antibes 52 2016-02-21 : Fetching 72 Rows with 6 Column(s)
Antibes 53 2016-02-22 : Fetching 69 Rows with 6 Column(s)
Antibes 54 2016-02-23 : Fetching 72 Rows with 6 Column(s)
Antibes 55 2016-02-24 : Fetching 72 Rows with 6 Column(s)
Antibes 56 2016-02-25 : Fetching 71 Rows with 6 Column(s)
Antibes 57 2016-02-26 : Fetching 71 Rows with 6 Column(s)
Antibes 58 2016-02-27 : Fetching 70 Rows with 6 Column(s)
Antibes 59 2016-02-28 : Fetching 72 Rows with 6 Column(s)
Antibes 60 2016-02-29 : Fetching 72 Rows with 6 Column(s)
Antibes 61 2016-03-01 : Fetching 70 Rows with 6 Column(s)
Antibes 62 2016-03-02 : Fetching 72 Rows with 6 Column(s)
Antibes 63 2016-03-03 : Fetching 70 Rows with 6 Column(s)
Antibes 64 2016-03-04 : Fetching 72 Rows with 6 Column(s)
Antibes 65 2016-03-05 : Fetching 68 Rows with 6 Column(s)
Antibes 66 2016-03-06 : Fetching 72 Rows with 6 Column(s)
Antibes 67 2016-03-07 : Fetching 72 Rows with 6 Column(s)
Antibes 68 2016-03-08 : Fetching 72 Rows with 6 Column(s)
Antibes 69 2016-03-09 : Fetching 72 Rows with 6 Column(s)
Antibes 70 2016-03-10 : Fetching 71 Rows with 6 Column(s)
Antibes 71 2016-03-11 : Fetching 72 Rows with 6 Column(s)
Antibes 72 2016-03-12 : Fetching 72 Rows with 6 Column(s)
Antibes 73 2016-03-13 : Fetching 71 Rows with 6 Column(s)
Antibes 74 2016-03-14 : Fetching 71 Rows with 6 Column(s)
Antibes 75 2016-03-15 : Fetching 72 Rows with 6 Column(s)
Antibes 76 2016-03-16 : Fetching 71 Rows with 6 Column(s)
Antibes 77 2016-03-17 : Fetching 71 Rows with 6 Column(s)
Antibes 78 2016-03-18 : Fetching 71 Rows with 6 Column(s)
Antibes 79 2016-03-19 : Fetching 71 Rows with 6 Column(s)
Antibes 80 2016-03-20 : Fetching 72 Rows with 6 Column(s)
Antibes 81 2016-03-21 : Fetching 70 Rows with 6 Column(s)
Antibes 82 2016-03-22 : Fetching 70 Rows with 6 Column(s)
Antibes 83 2016-03-23 : Fetching 71 Rows with 6 Column(s)
Antibes 84 2016-03-24 : Fetching 70 Rows with 6 Column(s)
Antibes 85 2016-03-25 : Fetching 69 Rows with 6 Column(s)
Antibes 86 2016-03-26 : Fetching 71 Rows with 6 Column(s)
Antibes 87 2016-03-27 : Fetching 71 Rows with 6 Column(s)
Antibes 88 2016-03-28 : Fetching 71 Rows with 6 Column(s)
Antibes 89 2016-03-29 : Fetching 69 Rows with 6 Column(s)
Antibes 90 2016-03-30 : Fetching 72 Rows with 6 Column(s)
Antibes 91 2016-03-31 : Fetching 72 Rows with 6 Column(s)
Antibes 92 2016-04-01 : Fetching 70 Rows with 6 Column(s)
Antibes 93 2016-04-02 : Fetching 71 Rows with 6 Column(s)
Antibes 94 2016-04-03 : Fetching 71 Rows with 6 Column(s)
Antibes 95 2016-04-04 : Fetching 72 Rows with 6 Column(s)
Antibes 96 2016-04-05 : Fetching 69 Rows with 6 Column(s)
Antibes 97 2016-04-06 : Fetching 72 Rows with 6 Column(s)
Antibes 98 2016-04-07 : Fetching 72 Rows with 6 Column(s)
Antibes 99 2016-04-08 : Fetching 71 Rows with 6 Column(s)
Antibes 100 2016-04-09 : Fetching 69 Rows with 6 Column(s)
Antibes 101 2016-04-10 : Fetching 72 Rows with 6 Column(s)
Antibes 102 2016-04-11 : Fetching 72 Rows with 6 Column(s)
Antibes 103 2016-04-12 : Fetching 72 Rows with 6 Column(s)
Antibes 104 2016-04-13 : Fetching 73 Rows with 6 Column(s)
Antibes 105 2016-04-14 : Fetching 70 Rows with 6 Column(s)
Antibes 106 2016-04-15 : Fetching 72 Rows with 6 Column(s)
Antibes 107 2016-04-16 : Fetching 72 Rows with 6 Column(s)
Antibes 108 2016-04-17 : Fetching 71 Rows with 6 Column(s)
Antibes 109 2016-04-18 : Fetching 73 Rows with 6 Column(s)
Antibes 110 2016-04-19 : Fetching 72 Rows with 6 Column(s)
Antibes 111 2016-04-20 : Fetching 71 Rows with 6 Column(s)
Antibes 112 2016-04-21 : Fetching 72 Rows with 6 Column(s)
Antibes 113 2016-04-22 : Fetching 71 Rows with 6 Column(s)
Antibes 114 2016-04-23 : Fetching 71 Rows with 6 Column(s)
Antibes 115 2016-04-24 : Fetching 71 Rows with 6 Column(s)
Antibes 116 2016-04-25 : Fetching 70 Rows with 6 Column(s)
Antibes 117 2016-04-26 : Fetching 70 Rows with 6 Column(s)
Antibes 118 2016-04-27 : Fetching 71 Rows with 6 Column(s)
Antibes 119 2016-04-28 : Fetching 72 Rows with 6 Column(s)
Antibes 120 2016-04-29 : Fetching 71 Rows with 6 Column(s)
Antibes 121 2016-04-30 : Fetching 69 Rows with 6 Column(s)
Antibes 122 2016-05-01 : Fetching 70 Rows with 6 Column(s)
Antibes 123 2016-05-02 : Fetching 70 Rows with 6 Column(s)
Antibes 124 2016-05-03 : Fetching 72 Rows with 6 Column(s)
Antibes 125 2016-05-04 : Fetching 66 Rows with 6 Column(s)
Antibes 126 2016-05-05 : Fetching 72 Rows with 6 Column(s)
Antibes 127 2016-05-06 : Fetching 72 Rows with 6 Column(s)
Antibes 128 2016-05-07 : Fetching 71 Rows with 6 Column(s)
Antibes 129 2016-05-08 : Fetching 72 Rows with 6 Column(s)
Antibes 130 2016-05-09 : Fetching 72 Rows with 6 Column(s)
Antibes 131 2016-05-10 : Fetching 72 Rows with 6 Column(s)
Antibes 132 2016-05-11 : Fetching 73 Rows with 6 Column(s)
Antibes 133 2016-05-12 : Fetching 72 Rows with 6 Column(s)
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Antibes 134 2016-05-13 : Fetching 72 Rows with 6 Column(s)
Antibes 135 2016-05-14 : Fetching 71 Rows with 6 Column(s)
Antibes 136 2016-05-15 : Fetching 68 Rows with 6 Column(s)
Antibes 137 2016-05-16 : Fetching 70 Rows with 6 Column(s)
Antibes 138 2016-05-17 : Fetching 71 Rows with 6 Column(s)
Antibes 139 2016-05-18 : Fetching 72 Rows with 6 Column(s)
Antibes 140 2016-05-19 : Fetching 71 Rows with 6 Column(s)
Antibes 141 2016-05-20 : Fetching 72 Rows with 6 Column(s)
Antibes 142 2016-05-21 : Fetching 72 Rows with 6 Column(s)
Antibes 143 2016-05-22 : Fetching 71 Rows with 6 Column(s)
Antibes 144 2016-05-23 : Fetching 72 Rows with 6 Column(s)
Antibes 145 2016-05-24 : Fetching 71 Rows with 6 Column(s)
Antibes 146 2016-05-25 : Fetching 72 Rows with 6 Column(s)
Antibes 147 2016-05-26 : Fetching 72 Rows with 6 Column(s)
Antibes 148 2016-05-27 : Fetching 71 Rows with 6 Column(s)
Antibes 149 2016-05-28 : Fetching 71 Rows with 6 Column(s)
Antibes 150 2016-05-29 : Fetching 72 Rows with 6 Column(s)
Antibes 151 2016-05-30 : Fetching 72 Rows with 6 Column(s)
Antibes 152 2016-05-31 : Fetching 71 Rows with 6 Column(s)
Antibes 153 2016-06-01 : Fetching 71 Rows with 6 Column(s)
Antibes 154 2016-06-02 : Fetching 72 Rows with 6 Column(s)
Antibes 155 2016-06-03 : Fetching 72 Rows with 6 Column(s)
Antibes 156 2016-06-04 : Fetching 71 Rows with 6 Column(s)
Antibes 157 2016-06-05 : Fetching 72 Rows with 6 Column(s)
Antibes 158 2016-06-06 : Fetching 72 Rows with 6 Column(s)
Antibes 159 2016-06-07 : Fetching 72 Rows with 6 Column(s)
Antibes 160 2016-06-08 : Fetching 72 Rows with 6 Column(s)
Antibes 161 2016-06-09 : Fetching 72 Rows with 6 Column(s)
Antibes 162 2016-06-10 : Fetching 71 Rows with 6 Column(s)
Antibes 163 2016-06-11 : Fetching 72 Rows with 6 Column(s)
Antibes 164 2016-06-12 : Fetching 71 Rows with 6 Column(s)
Antibes 165 2016-06-13 : Fetching 72 Rows with 6 Column(s)
Antibes 166 2016-06-14 : Fetching 71 Rows with 6 Column(s)
Antibes 167 2016-06-15 : Fetching 72 Rows with 6 Column(s)
Antibes 168 2016-06-16 : Fetching 71 Rows with 6 Column(s)
Antibes 169 2016-06-17 : Fetching 72 Rows with 6 Column(s)
Antibes 170 2016-06-18 : Fetching 71 Rows with 6 Column(s)
Antibes 171 2016-06-19 : Fetching 71 Rows with 6 Column(s)
Antibes 172 2016-06-20 : Fetching 72 Rows with 6 Column(s)
Antibes 173 2016-06-21 : Fetching 72 Rows with 6 Column(s)
Antibes 174 2016-06-22 : Fetching 72 Rows with 6 Column(s)
Antibes 175 2016-06-23 : Fetching 66 Rows with 6 Column(s)
Antibes 176 2016-06-24 : Fetching 71 Rows with 6 Column(s)
Antibes 177 2016-06-25 : Fetching 72 Rows with 6 Column(s)
Antibes 178 2016-06-26 : Fetching 72 Rows with 6 Column(s)
Antibes 179 2016-06-27 : Fetching 72 Rows with 6 Column(s)
Antibes 180 2016-06-28 : Fetching 72 Rows with 6 Column(s)
Antibes 181 2016-06-29 : Fetching 71 Rows with 6 Column(s)
Antibes 182 2016-06-30 : Fetching 72 Rows with 6 Column(s)
Antibes 183 2016-07-01 : Fetching 72 Rows with 6 Column(s)
Antibes 184 2016-07-02 : Fetching 71 Rows with 6 Column(s)
Antibes 185 2016-07-03 : Fetching 72 Rows with 6 Column(s)
Antibes 186 2016-07-04 : Fetching 72 Rows with 6 Column(s)
Antibes 187 2016-07-05 : Fetching 72 Rows with 6 Column(s)
Antibes 188 2016-07-06 : Fetching 72 Rows with 6 Column(s)
Antibes 189 2016-07-07 : Fetching 72 Rows with 6 Column(s)
Antibes 190 2016-07-08 : Fetching 70 Rows with 6 Column(s)
Antibes 191 2016-07-09 : Fetching 72 Rows with 6 Column(s)
Antibes 192 2016-07-10 : Fetching 72 Rows with 6 Column(s)
Antibes 193 2016-07-11 : Fetching 71 Rows with 6 Column(s)
Antibes 194 2016-07-12 : Fetching 72 Rows with 6 Column(s)
Antibes 195 2016-07-13 : Fetching 71 Rows with 6 Column(s)
Antibes 196 2016-07-14 : Fetching 71 Rows with 6 Column(s)
Antibes 197 2016-07-15 : Fetching 72 Rows with 6 Column(s)
Antibes 198 2016-07-16 : Fetching 72 Rows with 6 Column(s)
Antibes 199 2016-07-17 : Fetching 72 Rows with 6 Column(s)
Antibes 200 2016-07-18 : Fetching 70 Rows with 6 Column(s)
Antibes 201 2016-07-19 : Fetching 72 Rows with 6 Column(s)
Antibes 202 2016-07-20 : Fetching 72 Rows with 6 Column(s)
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Antibes 539 2017-06-22 : Fetching 67 Rows with 6 Column(s)
Antibes 540 2017-06-23 : Fetching 66 Rows with 6 Column(s)
Antibes 541 2017-06-24 : Fetching 67 Rows with 6 Column(s)
Antibes 542 2017-06-25 : Fetching 64 Rows with 6 Column(s)
Antibes 543 2017-06-26 : Fetching 65 Rows with 6 Column(s)
Antibes 544 2017-06-27 : Fetching 70 Rows with 6 Column(s)
Antibes 545 2017-06-28 : Fetching 66 Rows with 6 Column(s)
Antibes 546 2017-06-29 : Fetching 68 Rows with 6 Column(s)
Antibes 547 2017-06-30 : Fetching 70 Rows with 6 Column(s)
Antibes 548 2017-07-01 : Fetching 64 Rows with 6 Column(s)
Antibes 549 2017-07-02 : Fetching 68 Rows with 6 Column(s)
Antibes 550 2017-07-03 : Fetching 67 Rows with 6 Column(s)
Antibes 551 2017-07-04 : Fetching 67 Rows with 6 Column(s)
Antibes 552 2017-07-05 : Fetching 63 Rows with 6 Column(s)
Antibes 553 2017-07-06 : Fetching 67 Rows with 6 Column(s)
Antibes 554 2017-07-07 : Fetching 67 Rows with 6 Column(s)
Antibes 555 2017-07-08 : Fetching 63 Rows with 6 Column(s)
Antibes 556 2017-07-09 : Fetching 69 Rows with 6 Column(s)
Antibes 557 2017-07-10 : Fetching 67 Rows with 6 Column(s)
Antibes 558 2017-07-11 : Fetching 70 Rows with 6 Column(s)
Antibes 559 2017-07-12 : Fetching 65 Rows with 6 Column(s)
Antibes 560 2017-07-13 : Fetching 68 Rows with 6 Column(s)
Antibes 561 2017-07-14 : Fetching 65 Rows with 6 Column(s)
Antibes 562 2017-07-15 : Fetching 68 Rows with 6 Column(s)
Antibes 563 2017-07-16 : Fetching 67 Rows with 6 Column(s)
Antibes 564 2017-07-17 : Fetching 63 Rows with 6 Column(s)
Antibes 565 2017-07-18 : Fetching 56 Rows with 6 Column(s)
Antibes 566 2017-07-19 : Fetching 55 Rows with 6 Column(s)
Antibes 567 2017-07-20 : Fetching 69 Rows with 6 Column(s)
Antibes 568 2017-07-21 : Fetching 72 Rows with 6 Column(s)
Antibes 569 2017-07-22 : Fetching 70 Rows with 6 Column(s)
Antibes 570 2017-07-23 : Fetching 69 Rows with 6 Column(s)
Antibes 571 2017-07-24 : Fetching 72 Rows with 6 Column(s)
Antibes 572 2017-07-25 : Fetching 70 Rows with 6 Column(s)
Antibes 573 2017-07-26 : Fetching 72 Rows with 6 Column(s)
Antibes 574 2017-07-27 : Fetching 69 Rows with 6 Column(s)
Antibes 575 2017-07-28 : Fetching 69 Rows with 6 Column(s)
Antibes 576 2017-07-29 : Fetching 69 Rows with 6 Column(s)
Antibes 577 2017-07-30 : Fetching 70 Rows with 6 Column(s)
Antibes 578 2017-07-31 : Fetching 71 Rows with 6 Column(s)
Antibes 579 2017-08-01 : Fetching 68 Rows with 6 Column(s)
Antibes 580 2017-08-02 : Fetching 72 Rows with 6 Column(s)
Antibes 581 2017-08-03 : Fetching 69 Rows with 6 Column(s)
Antibes 582 2017-08-04 : Fetching 70 Rows with 6 Column(s)
Antibes 583 2017-08-05 : Fetching 69 Rows with 6 Column(s)
Antibes 584 2017-08-06 : Fetching 67 Rows with 6 Column(s)
Antibes 585 2017-08-07 : Fetching 69 Rows with 6 Column(s)
Antibes 586 2017-08-08 : Fetching 68 Rows with 6 Column(s)
Antibes 587 2017-08-09 : Fetching 65 Rows with 6 Column(s)
Antibes 588 2017-08-10 : Fetching 65 Rows with 6 Column(s)
Antibes 589 2017-08-11 : Fetching 67 Rows with 6 Column(s)
Antibes 590 2017-08-12 : Fetching 66 Rows with 6 Column(s)
Antibes 591 2017-08-13 : Fetching 69 Rows with 6 Column(s)
Antibes 592 2017-08-14 : Fetching 62 Rows with 6 Column(s)
Antibes 593 2017-08-15 : Fetching 62 Rows with 6 Column(s)
Antibes 594 2017-08-16 : Fetching 68 Rows with 6 Column(s)
Antibes 595 2017-08-17 : Fetching 70 Rows with 6 Column(s)
Antibes 596 2017-08-18 : Fetching 65 Rows with 6 Column(s)
Antibes 597 2017-08-19 : Fetching 66 Rows with 6 Column(s)
Antibes 598 2017-08-20 : Fetching 65 Rows with 6 Column(s)
Antibes 599 2017-08-21 : Fetching 65 Rows with 6 Column(s)
Antibes 600 2017-08-22 : Fetching 64 Rows with 6 Column(s)
Antibes 601 2017-08-23 : Fetching 66 Rows with 6 Column(s)
Antibes 602 2017-08-24 : Fetching 66 Rows with 6 Column(s)
Antibes 603 2017-08-25 : Fetching 63 Rows with 6 Column(s)
Antibes 604 2017-08-26 : Fetching 69 Rows with 6 Column(s)
Antibes 605 2017-08-27 : Fetching 66 Rows with 6 Column(s)
Antibes 606 2017-08-28 : Fetching 68 Rows with 6 Column(s)
Antibes 607 2017-08-29 : Fetching 64 Rows with 6 Column(s)
Antibes 608 2017-08-30 : Fetching 70 Rows with 6 Column(s)
```

Hide

```
dim(antibes_rawdat)
```

```
[1] 42463     6
```

Hide

```
head(antibes_rawdat,3)
```

	Time <S3: POSIXct>	TemperatureC <dbl>	Humidity <chr>	Wind_Direction <chr>	Conditions <chr>	DateUTC <chr>
1	2016-01-01 00:00:00	10	59	NNW	Overcast	2015-12-31 23:00:00
2	2016-01-01 00:00:00	10	71	NNW	Overcast	2015-12-31 23:00:00
3	2016-01-01 00:30:00	10	71	NNW	Overcast	2015-12-31 23:30:00

3 rows

Hide

```
tail(antibes_rawdat,3)
```

	Time <S3: POSIXct>	TemperatureC <dbl>	Humidity <chr>	Wind_Direction <chr>	Conditions <chr>
42461	2017-08-30 23:00:00	26	78	WSW	Clear
42462	2017-08-30 23:30:00	26	78	SW	Light Rain Showers
42463	2017-08-30 23:41:00	25	74	West	Clear

3 rows | 1-6 of 6 columns

Hide

```
getwd()
```

```
[1] "C:/Users/Pham Antoine"
```

EXPORTING THESE 2 DATA SETS TO CSV FILES

Hide

```
write.csv(bor_rawdat,"Bordeaux_weather_data.csv",row.names = FALSE)
```

Hide

```
write.csv(antibes_rawdat,"Antibes_weather_data.csv", row.names = FALSE)
```

DATA VISUALIZATION AND EXPLORATION

Hide

```
BORdf<-read.csv("C:/Users/Pham Antoine/Bordeaux_weather_data.csv", sep = ',' )
head(BORdf,3)
```

Time <fctr>	TemperatureC <int>	Humidity <int>	Wind_Direction <fctr>	Conditions <fctr>	DateUTC <fctr>

	Time <fctr>	TemperatureC <int>	Humidity <int>	Wind_Direction <fctr>	Conditions <fctr>	DateUTC <fctr>
1	2016-01-01 00:00:00	7	95	South	Patches of Fog	2015-12-31 23:00:00
2	2016-01-01 00:00:00	7	93	South	Unknown	2015-12-31 23:00:00
3	2016-01-01 00:30:00	6	100	ESE	Mist	2015-12-31 23:30:00

3 rows

Hide

```
ANTdf<-read.csv("C:/Users/Pham Antoine/Antibes_weather_data.csv", sep = ',')
head(ANTdf,3)
```

	Time <fctr>	TemperatureC <int>	Humidity <fctr>	Wind_Direction <fctr>	Conditions <fctr>	DateUTC <fctr>
1	2016-01-01 00:00:00	10	59	NNW	Overcast	2015-12-31 23:00:00
2	2016-01-01 00:00:00	10	71	NNW	Overcast	2015-12-31 23:00:00
3	2016-01-01 00:30:00	10	71	NNW	Overcast	2015-12-31 23:30:00

3 rows

Hide

```
library(funModeling)
```

```
Le chargement a n<U+653C><U+3E39>cessit<U+653C><U+3E39> le package : Hmisc
Le chargement a n<U+653C><U+3E39>cessit<U+653C><U+3E39> le package : lattice
Le chargement a n<U+653C><U+3E39>cessit<U+653C><U+3E39> le package : survival
Le chargement a n<U+653C><U+3E39>cessit<U+653C><U+3E39> le package : Formula

Attachement du package : <U+393C><U+3E31>Hmisc<U+393C><U+3E32>

The following objects are masked from <U+393C><U+3E31>package:dplyr<U+393C><U+3E32>:

    combine, src, summarize

The following objects are masked from <U+393C><U+3E31>package:base<U+393C><U+3E32>:

    format.pval, round.POSIXt, trunc.POSIXt, units

funModeling v.1.6.5 :)
Examples and tutorials at livebook.datascienceheroes.com
```

Hide

```
df_status(BORdf)
```

```
        variable q_zeros p_zeros q_na p_na q_inf p_inf    type unique
1           Time       0    0.00    0    0     0     0  factor  29138
2   TemperatureC     241    0.56    0    0     0     0 integer     47
3       Humidity       0    0.00    0    0     0     0 integer     95
4 Wind_Direction       0    0.00    0    0     0     0  factor     18
5     Conditions       0    0.00    0    0     0     0  factor     28
6        DateUTC       0    0.00    0    0     0     0  factor  29140
```

Hide

```
str(BORdf)
```

```
'data.frame':   42920 obs. of  6 variables:
 $ Time          : Factor w/ 29138 levels "2016-01-01 00:00:00",..: 1 1 2 3 3 4 5 5 6 7 ...
 $ TemperatureC  : int  7 7 6 6 6 5 5 5 5 5 ...
 $ Humidity      : int  95 93 100 98 93 100 95 100 93 99 ...
 $ Wind_Direction: Factor w/ 18 levels "Calm","East",..: 11 11 4 4 4 10 4 4 4 2 ...
 $ Conditions    : Factor w/ 28 levels "","Clear","Drizzle",..: 23 28 18 21 4 4 21 4 4 7 ...
 $ DateUTC       : Factor w/ 29140 levels "2015-12-31 23:00:00",..: 1 1 2 3 3 4 5 5 6 7 ...
```

Hide

```
summary(BORdf)
```

```
                  Time        TemperatureC      Humidity       Wind_Direction          Conditions                   DateUTC

 2016-03-27 00:00:00:    4   Min.   :-8.00   Min.   :  5.00   West    : 5013   Clear        :22444   2016-03-27 22:00:00:
4
 2016-10-30 02:00:00:    4   1st Qu.: 9.00   1st Qu.: 57.00   WSW     : 3310   Overcast     : 4954   2017-03-26 22:00:00:
4
 2017-03-26 00:00:00:    4   Median :14.00   Median : 76.00   North   : 3078   Mostly Cloudy: 4799   2015-12-31 23:00:00:
2
 2016-01-01 00:00:00:    2   Mean   :14.37   Mean   : 71.57   WNW     : 2932   Light Rain   : 2345   2016-01-01 00:00:00:
2
 2016-01-01 01:00:00:    2   3rd Qu.:19.00   3rd Qu.: 88.00   ESE     : 2730   Unknown      : 1597   2016-01-01 01:00:00:
2
 2016-01-01 02:00:00:    2   Max.   :38.00   Max.   :100.00   Variable: 2596   Partly Cloudy: 1576   2016-01-01 02:00:00:
2
 (Other)            :42902                                    (Other) :23261   (Other)      : 5205   (Other)            :429
04
```

Hide

```
df_status(ANTdf)
```

```
        variable q_zeros p_zeros q_na p_na q_inf p_inf    type unique
1           Time       0    0.00    0 0.00     0     0  factor  29186
2   TemperatureC      10    0.02   13 0.03     0     0 integer     39
3       Humidity       0    0.00    0 0.00     0     0  factor     98
4 Wind_Direction       0    0.00    0 0.00     0     0  factor     18
5     Conditions       0    0.00    0 0.00     0     0  factor     27
6        DateUTC       0    0.00    0 0.00     0     0  factor  29188
```

Hide

```
ANTdf$Humidity<-as.integer(ANTdf$Humidity)
```

Hide

```
str(ANTdf)
```

```
'data.frame':   42463 obs. of  6 variables:
 $ Time          : Factor w/ 29186 levels "2016-01-01 00:00:00",..: 1 1 2 3 3 4 5 5 6 7 ...
 $ TemperatureC  : int  10 10 10 10 10 9 10 10 10 10 ...
 $ Humidity      : int  53 67 67 58 67 72 59 67 67 58 ...
 $ Wind_Direction: Factor w/ 18 levels "Calm","East",..: 7 7 7 7 7 7 7 7 7 7 ...
 $ Conditions    : Factor w/ 27 levels "","Clear","Fog",..: 17 17 17 17 17 17 17 17 17 17 ...
 $ DateUTC       : Factor w/ 29188 levels "2015-12-31 23:00:00",..: 1 1 2 3 3 4 5 5 6 7 ...
```

Hide

```
summary(ANTdf)
```

```
                Time         TemperatureC       Humidity    Wind_Direction            Conditions                   DateU
TC
 2016-03-27 00:00:00:    4   Min.   :-9999.00   Min.   : 1.0   NNW    :11681   Clear          :10974   2016-03-27 22:00:00:
    4
 2016-10-30 02:00:00:    4   1st Qu.:   12.00   1st Qu.:47.0   East   : 4861   Scattered Clouds: 9941   2017-03-26 22:00:00:
    4
 2017-03-26 00:00:00:    4   Median :   16.00   Median :60.0   NW     : 4275   Mostly Cloudy   : 8833   2015-12-31 23:00:00:
    2
 2016-01-01 00:00:00:    2   Mean   :   10.38   Mean   :57.7   South  : 2944   Partly Cloudy   : 7910   2016-01-01 00:00:00:
    2
 2016-01-01 01:00:00:    2   3rd Qu.:   23.00   3rd Qu.:70.0   ESE    : 2208                   : 2104   2016-01-01 01:00:00:
    2
 2016-01-01 02:00:00:    2   Max.   :   35.00   Max.   :98.0   North  : 2132   Light Rain      : 1426   2016-01-01 02:00:00:
    2
 (Other)            :42445   NA's   :13                       (Other):14362   (Other)         : 1275   (Other)            :
42447
```

Checking missing values & outliers

Hide

```
subset(ANTdf,TemperatureC< -10)
```

	Time <fctr>	TemperatureC <int>	Humidity <int>	Wind_Direction <fctr>	Conditions <fctr>
3474	2016-02-19 01:00:00	-9999	98	NW	Clear
3475	2016-02-19 01:30:00	-9999	98	NNW	Clear
3477	2016-02-19 02:00:00	-9999	98	NNW	Clear
3478	2016-02-19 02:30:00	-9999	98	NW	Clear
3930	2016-02-25 11:00:00	-9999	98	ENE	Mostly Cloudy
3931	2016-02-25 11:30:00	-9999	98	East	Mostly Cloudy
3933	2016-02-25 12:00:00	-9999	98	East	Scattered Clouds
3935	2016-02-25 13:00:00	-9999	98	ESE	Scattered Clouds
3936	2016-02-25 13:30:00	-9999	98	ESE	Scattered Clouds
3938	2016-02-25 14:00:00	-9999	98	ESE	Scattered Clouds

1-10 of 28 rows | 1-6 of 6 columns Previous 1 2 3 Next

Hide

```
unique(BORdf$Conditions)
```

```
 [1] Patches of Fog               Unknown                      Mist                         Partial Fog                  Fog
                        Heavy Fog
 [7] Mostly Cloudy                Clear                        Overcast                     Scattered Clouds             Lig
ht Rain                  Partly Cloudy
[13] Light Rain Showers           Heavy Rain                   Rain                         Light Drizzle                Hea
vy Rain Showers          Light Thunderstorms and Rain
[19] Thunderstorms and Rain       Thunderstorm                                              Light Fog                    Dri
zzle                     Heavy Drizzle
[25] Heavy Thunderstorms and Rain Light Thunderstorm           Light Freezing Fog           Haze
28 Levels:  Clear Drizzle Fog Haze Heavy Drizzle Heavy Fog Heavy Rain Heavy Rain Showers Heavy Thunderstorms and Rain Light
Drizzle Light Fog Light Freezing Fog ... Unknown
```

VISUALIZATION OF TEMPERATURE & HUMIDITY DISTRIBUTION IN BORDEAUX

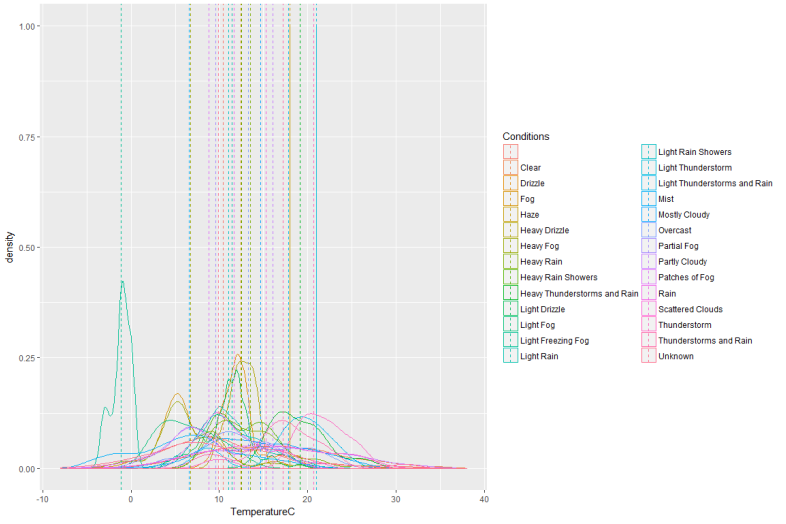
Hide

```
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)
------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------

Attachement du package : <U+393C><U+3E31>plyr<U+393C><U+3E32>

The following objects are masked from <U+393C><U+3E31>package:Hmisc<U+393C><U+3E32>:

    is.discrete, summarize

The following object is masked from <U+393C><U+3E31>package:lubridate<U+393C><U+3E32>:

    here

The following objects are masked from <U+393C><U+3E31>package:dplyr<U+393C><U+3E32>:

    arrange, count, desc, failwith, id, mutate, rename, summarise, summarize
```

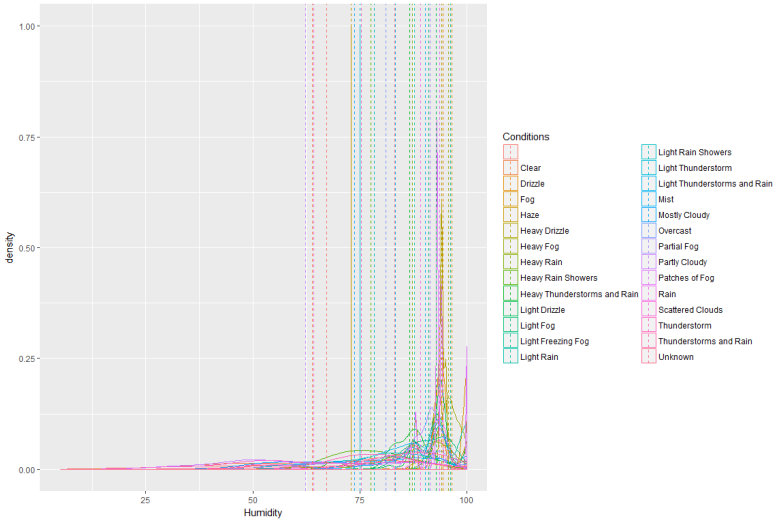
Hide

```
tm <- ddply(BORdf, "Conditions", summarise, grp.mean=mean(TemperatureC))
ggplot(BORdf,aes(x=TemperatureC))+
  geom_density(aes(group=Conditions, colour=Conditions, fill=NULL), alpha=0.8)+
  geom_vline(data=tm, aes(xintercept=grp.mean, color=Conditions),linetype="dashed")
```



Hide

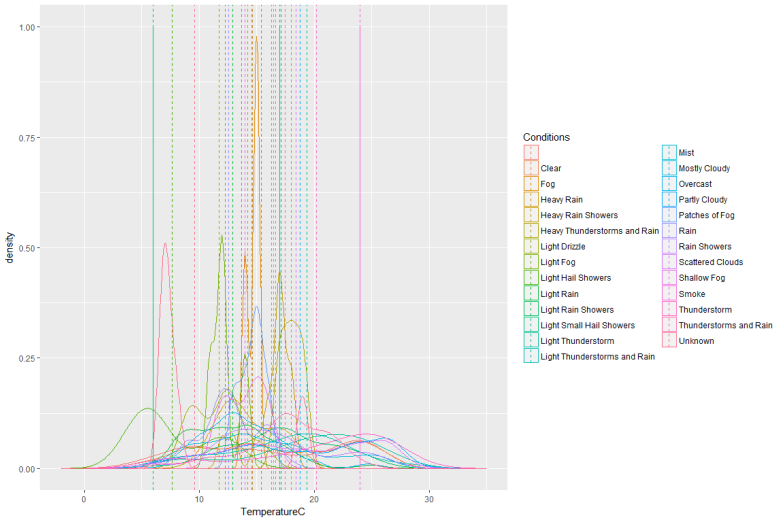
```
tm1 <- ddply(BORdf, "Conditions", summarise, grp.mean=mean(Humidity))
ggplot(BORdf,aes(x=Humidity))+
  geom_density(aes(group=Conditions, colour=Conditions, fill=NULL), alpha=0.8)+
  geom_vline(data=tm1, aes(xintercept=grp.mean, color=Conditions),linetype="dashed")
```



VISUALIZATION OF TEMPERATURE & HUMIDITY DISTRIBUTION IN ANTIBES

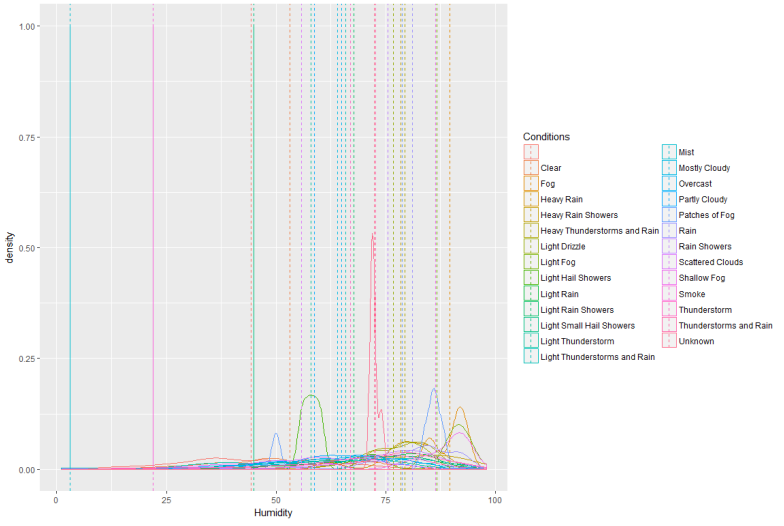
Hide

```
t=subset(ANTdf,TemperatureC> -10)# for ignoring records having outliers=-9999 as temperature
tn<- ddply(t, "Conditions", summarise, grp.mean=mean(TemperatureC))
ggplot(t,aes(x=TemperatureC))+
  geom_density(aes(group=Conditions, colour=Conditions, fill=NULL), alpha=0.8)+
  geom_vline(data=tn, aes(xintercept=grp.mean, color=Conditions),linetype="dashed")
```



Hide

```
tn1<- ddply(ANTdf, "Conditions", summarise, grp.mean=mean(Humidity))
ggplot(ANTdf,aes(x=Humidity))+
  geom_density(aes(group=Conditions, colour=Conditions, fill=NULL), alpha=0.8)+
  geom_vline(data=tn1, aes(xintercept=grp.mean, color=Conditions),linetype="dashed")
```



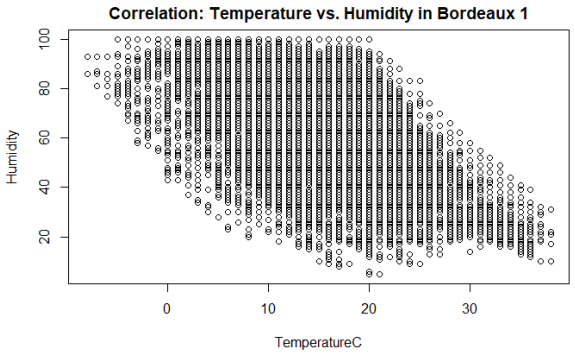
Hide

```
library(UsingR)
```

```
Le chargement a n<U+653C><U+3E39>cessit<U+653C><U+3E39> le package : MASS

Attachement du package : <U+393C><U+3E31>MASS<U+393C><U+3E32>

The following object is masked from <U+393C><U+3E31>package:dplyr<U+393C><U+3E32>:

    select

Le chargement a n<U+653C><U+3E39>cessit<U+653C><U+3E39> le package : HistData

Attachement du package : <U+393C><U+3E31>UsingR<U+393C><U+3E32>

The following object is masked from <U+393C><U+3E31>package:survival<U+393C><U+3E32>:

    cancer
```

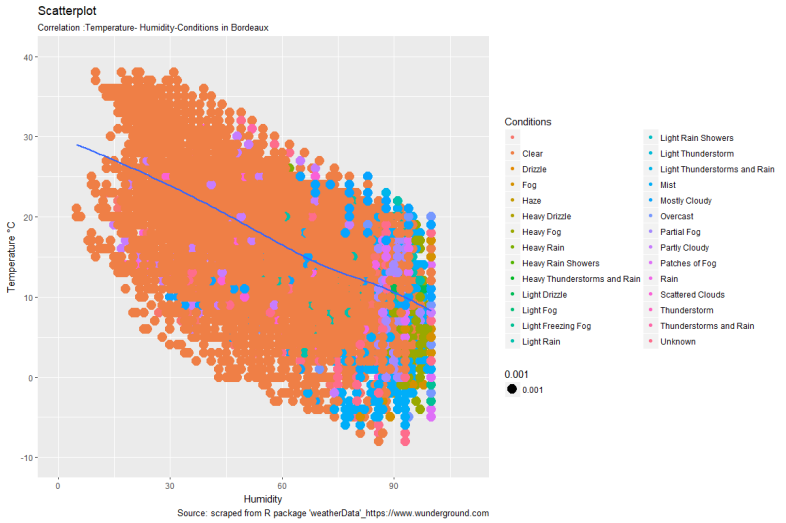
Hide

```
attach(BORdf)
plot(TemperatureC,Humidity,main=paste("Correlation: Temperature vs. Humidity in Bordeaux",signif(cor(TemperatureC,TemperatureC),2)))
```



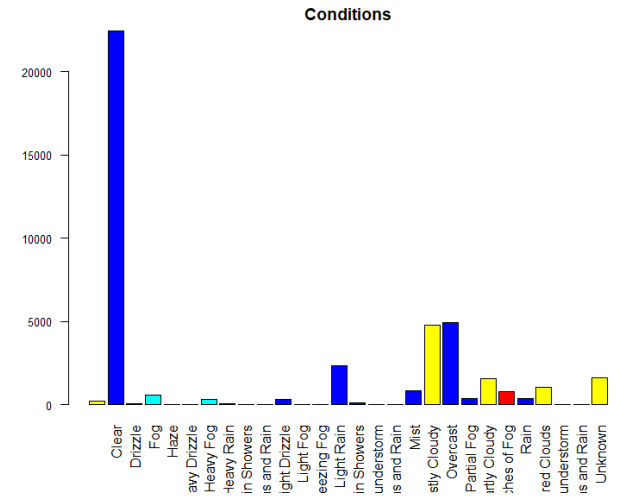
Hide

```
gg <- ggplot(BORdf, aes(x=Humidity, y=TemperatureC)) +
geom_point(aes(col=Conditions,size=0.001)) +
geom_smooth(method="loess", se=F) +
xlim(c(0, 110)) +
ylim(c(-10, 40)) +
labs(subtitle="Correlation :Temperature- Humidity-Conditions in Bordeaux",
y="Temperature °C",
x="Humidity",
title="Scatterplot",
caption = "Source: scraped from R package 'weatherData'_https://www.wunderground.com")
plot(gg)
```



Hide

```
barplot(table(BORdf$Conditions),
        main= 'Conditions',las=2,col = BORdf$Conditions,cex.axis=0.8,cex.names=1)#las=2 for ajusting the angle of texts:http
s://stackoverflow.com/questions/10286473/rotating-x-axis-labels-in-r-for-barplot
```



Hide

```
#,
 #       col= c(len(BORdf$Conditions)))
#, legend.text =c("0 = Non","1 = Partielle","2 = Totale"),xlab="Type de resiliation", ylab="Nombre de contrats",ylim=c(0,150
000), beside=TRUE,args.legend = list(x="topright",title= "Type", cex=0.6))
```

Hide

```
table(BORdf$Conditions)
```

```
                                Clear                    Drizzle                        Fog
              Haze                Heavy Drizzle
                               199                        22444                         89                        562
                 1                           10
                              Heavy Fog                  Heavy Rain          Heavy Rain Showers Heavy Thunderstorms and Rain
      Light Drizzle                Light Fog
                               306                           44                         12                         11
                301                            9
         Light Freezing Fog                  Light Rain          Light Rain Showers          Light Thunderstorm Light Th
understorms and Rain                        Mist
                                20                         2345                        114                          1
                16                          846
                             Mostly Cloudy                 Overcast              Partial Fog              Partly Cloudy
      Patches of Fog                        Rain
                              4799                         4954                        380                       1576
               786                          401
             Scattered Clouds               Thunderstorm       Thunderstorms and Rain                       Unknown
                              1049                           22                         26                       1597
```

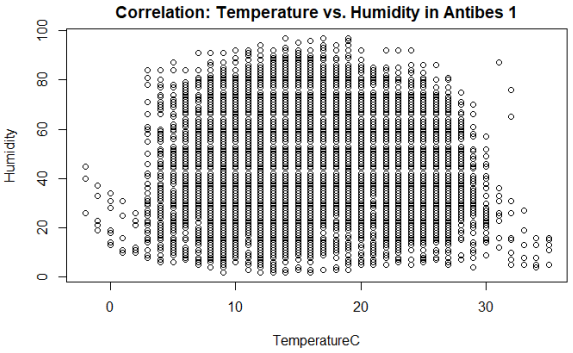
Hide

```
library(UsingR)
attach(t)
```

```
The following objects are masked from BORdf:

    Conditions, DateUTC, Humidity, TemperatureC, Time, Wind_Direction
```

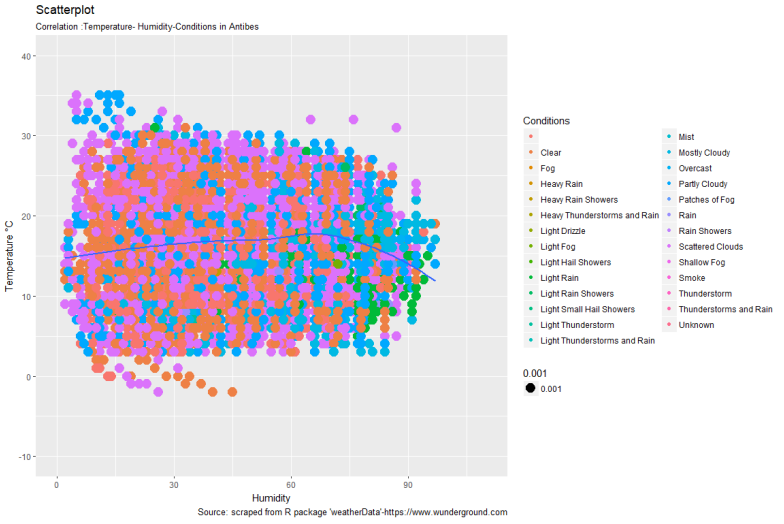
Hide

```
plot(TemperatureC,Humidity,main=paste("Correlation: Temperature vs. Humidity in Antibes",signif(cor(TemperatureC,Temperature
C),2)))
```



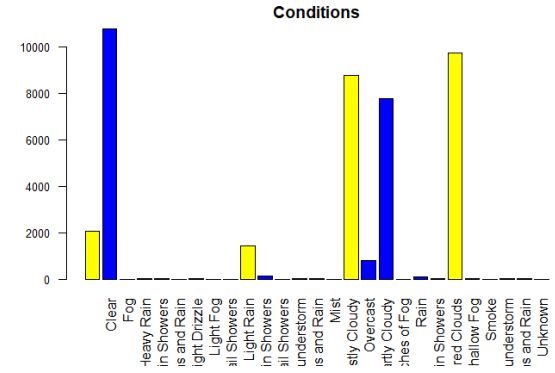
Hide

```
gq <- ggplot(t, aes(x=Humidity, y=TemperatureC)) +
geom_point(aes(col=Conditions,size=0.001)) +
geom_smooth(method="loess", se=F) +
xlim(c(0, 110)) +
ylim(c(-10, 40)) +
labs(subtitle="Correlation :Temperature- Humidity-Conditions in Antibes",
y="Temperature °C",
x="Humidity",
title="Scatterplot",
caption = "Source: scraped from R package 'weatherData'-https://www.wunderground.com")
plot(gq)
```



Hide

```
barplot(table(ANTdf$Conditions),
        main= 'Conditions',las=2,col = BORdf$Conditions,cex.axis=0.8,cex.names=1)
```



Hide

```
table(ANTdf$Conditions)
```

```
                                        Clear                           Fog                  Heavy Rain 
Heavy Rain Showers Heavy Thunderstorms and Rain 
                                         2104                         10974                             3                             8 
                14                             3 
             Light Drizzle                 Light Fog       Light Hail Showers                   Light Rain 
Light Rain Showers     Light Small Hail Showers 
                                           41                             4                             3                          1426 
                   138                             1 
       Light Thunderstorm Light Thunderstorms and Rain                          Mist               Mostly Cloudy 
                 Overcast                Partly Cloudy 
                                           19                            38                             1                          8833 
                   800                          7910 
             Patches of Fog                          Rain                 Rain Showers             Scattered Clouds 
          Shallow Fog                         Smoke 
                                            5                            93                            23                          9941 
                    10                             1 
                Thunderstorm       Thunderstorms and Rain                       Unknown 
                                           34                            31                             5 
```

Hide

```
head(BORdf)
```

	Time <fctr>	TemperatureC <int>	Humidity <int>	Wind_Direction <fctr>	Conditions <fctr>	DateUTC <fctr>
1	2016-01-01 00:00:00	7	95	South	Patches of Fog	2015-12-31 23:00:00
2	2016-01-01 00:00:00	7	93	South	Unknown	2015-12-31 23:00:00
3	2016-01-01 00:30:00	6	100	ESE	Mist	2015-12-31 23:30:00
4	2016-01-01 01:00:00	6	98	ESE	Partial Fog	2016-01-01 00:00:00
5	2016-01-01 01:00:00	6	93	ESE	Fog	2016-01-01 00:00:00
6	2016-01-01 01:30:00	5	100	SE	Fog	2016-01-01 00:30:00

6 rows

Hide

```
as.POSIXct(BORdf$Time[1])
```

```
[1] "2016-01-01 CET"
```

Hide

```
library(lubridate)
hour(BORdf$Time[1])
```

```
[1] 0
```

Hide

```
d=date(BORdf$Time[1])
d
```

```
[1] "2016-01-01"
```

Hide

```
class(BORdf$Time)
```

```
[1] "factor"
```

Extracting under Date format from the date factor in the column 'Time' to a new column called "Date"

Hide

```
library(lubridate)
BORdf$Date<-as.Date(BORdf$Time)
tail(BORdf,2)
```

	Time <fctr>	TemperatureC <int>	Humidity <int>	Wind_Direction <fctr>	Conditions <fctr>	DateUTC <fctr>
42919	2017-08-30 23:00:00	17	88	NNW	Mostly Cloudy	2017-08-30 21:00:00
42920	2017-08-30 23:30:00	17	88	NW	Mostly Cloudy	2017-08-30 21:30:00

2 rows | 1-7 of 7 columns

Extracting now the day of the week in a new column called 'DoW'

The function 'wday' returns the day of the week as a decimal number (01-07, Sunday is 1) or an ordered factor(Sunday is first).

Hide

```
BORdf$DoW<-wday(BORdf$Date)
```

Extracting now the day of the month in a new column called 'DoM',teh week of the year to 'WoY', the month of the year to "MoY", the querter of the year to 'QoY'

Hide

```
BORdf$DoM<-mday(BORdf$Date)
BORdf$WoY<-week(BORdf$Date)
BORdf$MoY<-month(BORdf$Date)
BORdf$QoY<-quarter(BORdf$Date)
tail(BORdf)
```

	Time <fctr>	TemperatureC <int>	Humidity <int>	Wind_Direction <fctr>	Conditions <fctr>	DateUTC <fctr>
42915	2017-08-30 22:00:00	18	75	NNW	Clear	2017-08-30 20:00:00
42916	2017-08-30 22:00:00	18	77	NNW	Mostly Cloudy	2017-08-30 20:00:00
42917	2017-08-30 22:30:00	17	88	NNW	Light Rain	2017-08-30 20:30:00
42918	2017-08-30 23:00:00	17	84	NNW	Clear	2017-08-30 21:00:00
42919	2017-08-30 23:00:00	17	88	NNW	Mostly Cloudy	2017-08-30 21:00:00
42920	2017-08-30 23:30:00	17	88	NW	Mostly Cloudy	2017-08-30 21:30:00

6 rows | 1-7 of 12 columns

Creating a column called “schedule”" containing one of the following values: ‘a_day_off’, ‘before_a_day_off’, ‘holidays’ or ‘no_event’

Hide

```
BORdf$schedule<-ifelse(BORdf$Date=='2016-01-01'| BORdf$Date=='2016-03-28'|BORdf$Date =='2016-05-01'| BORdf$Date=='2016-05-0
8'|
                       BORdf$Date=='2016-05-16'| BORdf$Date=='2016-07-14'| BORdf$Date=='2016-08-15'|
                       BORdf$Date=='2016-11-01'|BORdf$Date=='2016-11-11'|
                       BORdf$Date=='2017-01-01'| BORdf$Date=='2017-03-28'|BORdf$Date=='2017-05-01'| BORdf$Date=='2017-05-08'
|
                       BORdf$Date=='2017-05-16'| BORdf$Date=='2017-07-14'| BORdf$Date=='2017-08-15'|BORdf$Date=='2017-11-01'
|BORdf$Date=='2017-11-11',
                       'a_day_off',
                       ifelse(BORdf$Date+1=='2016-01-01'| BORdf$Date+1=='2016-03-28'|BORdf$Date+1 =='2016-05-01'| BORdf$Date
+1=='2016-05-08'|
                       BORdf$Date+1=='2016-05-16'| BORdf$Date+1=='2016-07-14'| BORdf$Date+1=='2016-08-15'|
                       BORdf$Date+1=='2016-11-01'|BORdf$Date+1=='2016-11-11'|
                       BORdf$Date+1=='2017-01-01'| BORdf$Date+1=='2017-03-28'|BORdf$Date+1=='2017-05-01'| BORdf$Date+1=='201
7-05-08'|
                       BORdf$Date+1=='2017-05-16'| BORdf$Date+1=='2017-07-14'| BORdf$Date+1=='2017-08-15'|BORdf$Date+1=='201
7-11-01'|BORdf$Date+1=='2017-11-11',
                       'before_aday_off',
                       ifelse(BORdf$Date <'2016-01-04'| BORdf$Date >'2016-02-13'& BORdf$Date < '2016-02-29'| BORdf$Date >'20
16-04-09'&
                       BORdf$Date <'2016-04-25'| BORdf$Date>'2016-05-04'& BORdf$Date<'2016-05-09'|
                       BORdf$Date>'2016-07-05'&BORdf$Date<'2016-09-01'|
                       BORdf$Date>'2016-10-19'& BORdf$Date<'2016-11-03'|BORdf$Date>'2016-12-17'&BORdf$Date<'2017-01-03'|
                       BORdf$Date>'2017-02-18'& BORdf$Date<'2017-03-06'| BORdf$Date>'2017-04-15'&BORdf$Date<'2017-05-02'|BOR
df$Date>'2017-05-24'&BORdf$Date<'2017-05-29'|
                         BORdf$Date>'2017-07-08'&BORdf$Date<'2017-09-04',
                       'holidays',
                       'no_event')
                       ))
```

*Note: can use ‘with’ to avoid repeting Bordf$..

Bordf$schedule<-with(ifelse(Date==…, a_day_off, ifelse(Date+1,….. ‘befor_a_day_off’,
…??

Hide

```
BORdf$schedule<-as.factor(BORdf$schedule)
head(BORdf,3)
```

	Time <fctr>	TemperatureC <int>	Humidity <int>	Wind_Direction <fctr>	Conditions <fctr>	DateUTC <fctr>
1	2016-01-01 00:00:00	7	95	South	Patches of Fog	2015-12-31 23:00:00
2	2016-01-01 00:00:00	7	93	South	Unknown	2015-12-31 23:00:00
3	2016-01-01 00:30:00	6	100	ESE	Mist	2015-12-31 23:30:00

3 rows | 1-7 of 13 columns

Hide

```
# check
subset(BORdf,Date=='2017-07-30')$schedule[1:5]
```

```
[1] holidays holidays holidays holidays holidays
Levels: a_day_off before_aday_off holidays no_event
```

Working with date(some examples)

Hide

```
l=substring(BORdf$DateUTC[1],12,19)
l= as.factor(l)
print(l)
```

```
[1] 23:00:00
Levels: 23:00:00
```

Hide

```
class(l)
```

```
[1] "factor"
```

Hide

```
l=as.factor(l)
class(l)
```

```
[1] "factor"
```

Hide

```
l<-as.POSIXct(l,format="%H:%M:%S")
l
```

```
[1] "2017-09-07 23:00:00 CEST"
```

Hide

```
# if date non given, the current date is showed by default
```

Hide

```
class(l)
```

```
[1] "POSIXct" "POSIXt"
```

Hide

```
hour(l)
```

```
[1] 23
```

LET'S KEEP BUIDING OUR " CONTEXT" DATA SET Adding a column named ‘hour’ indicating, the class of this feature will be integrer

Hide

```
BORdf$H<- hour(BORdf$Time)
colnames(BORdf)
```

```
 [1] "Time"           "TemperatureC"   "Humidity"       "Wind_Direction" "Conditions"     "DateUTC"        "Date"
"DoW"            "DoM"            "WoY"            "MoY"
[12] "QoY"            "schedule"       "H"
```

Hide

```
class(BORdf$H)
```

```
[1] "integer"
```

Now, create a column containing !h:m:s, the class of this feature will be factor

Hide

```
BORdf$HMS<-substring(BORdf$Time,12,19)# take from the 12th to 19th elements of the variable 'Time'
class(BORdf$HMS)
```

```
[1] "character"
```

converting this feature to factor

Hide

```
BORdf$HMS<-as.factor(BORdf$HMS)
head(BORdf,1)
```

	Time <fctr>	TemperatureC <int>	Humidity <int>	Wind_Direction <fctr>	Conditions <fctr>	DateUTC <fctr>
1	2016-01-01 00:00:00	7	95	South	Patches of Fog	2015-12-31 23:00:00

1 row | 1-7 of 15 columns

Hide

```
table(BORdf$HMS)
```

```

00:00:00 00:30:00 01:00:00 01:30:00 02:00:00 02:30:00 03:00:00 03:30:00 04:00:00 04:30:00 05:00:00 05:30:00 06:00:00 06:30:0
0 07:00:00 07:30:00 08:00:00 08:30:00 09:00:00 09:30:00 10:00:00
    1170       609      1187       608      1199       607      1174       607      1180       608      1196       605      1168       60
6      1175       606      1207       605      1155       608      1180
10:30:00 11:00:00 11:30:00 12:00:00 12:30:00 13:00:00 13:30:00 14:00:00 14:30:00 15:00:00 15:30:00 16:00:00 16:30:00 17:00:0
0 17:30:00 18:00:00 18:30:00 19:00:00 19:30:00 20:00:00 20:30:00
     607      1202       606      1167       605      1176       608      1205       607      1161       608      1173       607      120
5       608      1162       607      1165       606      1207       607
21:00:00 21:30:00 22:00:00 22:30:00 23:00:00 23:30:00
    1176       607      1166       608      1200       604
```

Hide

```
summary(BORdf)
```

```
                Time         TemperatureC       Humidity        Wind_Direction           Conditions                   DateUTC
          Date                    DoW                DoM
 2016-03-27 00:00:00:    4   Min.   :-8.00   Min.   :  5.00   West    : 5013   Clear        :22444   2016-03-27 22:00:00:
4   Min.   :2016-01-01   Min.   :1.000   Min.   : 1.00
 2016-10-30 02:00:00:    4   1st Qu.: 9.00   1st Qu.: 57.00   WSW     : 3310   Overcast     : 4954   2017-03-26 22:00:00:
4   1st Qu.:2016-05-29   1st Qu.:2.000   1st Qu.: 8.00
 2017-03-26 00:00:00:    4   Median :14.00   Median : 76.00   North   : 3078   Mostly Cloudy: 4799   2015-12-31 23:00:00:
2   Median :2016-10-25   Median :4.000   Median :16.00
 2016-01-01 00:00:00:    2   Mean   :14.37   Mean   : 71.57   WNW     : 2932   Light Rain   : 2345   2016-01-01 00:00:00:
2   Mean   :2016-10-26   Mean   :3.999   Mean   :15.71
 2016-01-01 01:00:00:    2   3rd Qu.:19.00   3rd Qu.: 88.00   ESE     : 2730   Unknown      : 1597   2016-01-01 01:00:00:
2   3rd Qu.:2017-03-25   3rd Qu.:6.000   3rd Qu.:23.00
 2016-01-01 02:00:00:    2   Max.   :38.00   Max.   :100.00   Variable: 2596   Partly Cloudy: 1576   2016-01-01 02:00:00:
2   Max.   :2017-08-30   Max.   :7.000   Max.   :31.00
 (Other)            :42902                                    (Other) :23261   (Other)      : 5205   (Other)            :429
04
      WoY             MoY             QoY                  schedule          H             HMS
 Min.   : 1.00   Min.   : 1.000   Min.   :1.000   a_day_off      : 1132   Min.   : 0.0   08:00:00: 1207
 1st Qu.:11.00   1st Qu.: 3.000   1st Qu.:1.000   before_aday_off: 1056   1st Qu.: 5.0   20:00:00: 1207
 Median :22.00   Median : 6.000   Median :2.000   holidays       :13718   Median :11.0   14:00:00: 1205
 Mean   :23.12   Mean   : 5.717   Mean   :2.256   no_event       :27014   Mean   :11.5   17:00:00: 1205
 3rd Qu.:33.00   3rd Qu.: 8.000   3rd Qu.:3.000                            3rd Qu.:17.0   11:00:00: 1202
 Max.   :53.00   Max.   :12.000   Max.   :4.000                            Max.   :23.0   23:00:00: 1200
                                                                                          (Other) :35694
```

Hide

```
colnames(BORdf)
```

```
 [1] "Time"           "TemperatureC"   "Humidity"       "Wind_Direction" "Conditions"     "DateUTC"        "Date"
"DoW"            "DoM"            "WoY"            "MoY"
[12] "QoY"            "schedule"       "H"              "HMS"
```

Hide

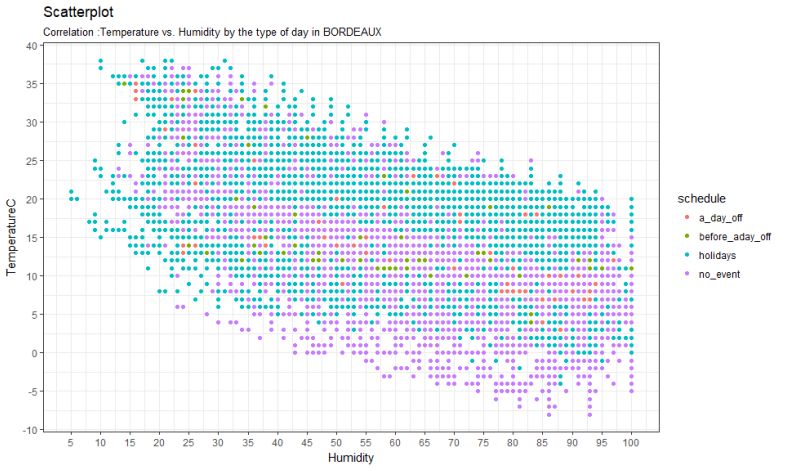
```
head(BORdf,2)
```

	Time <fctr>	TemperatureC <int>	Humidity <int>	Wind_Direction <fctr>	Conditions <fctr>	DateUTC <fctr>
1	2016-01-01 00:00:00	7	95	South	Patches of Fog	2015-12-31 23:00:00
2	2016-01-01 00:00:00	7	93	South	Unknown	2015-12-31 23:00:00

2 rows | 1-7 of 15 columns

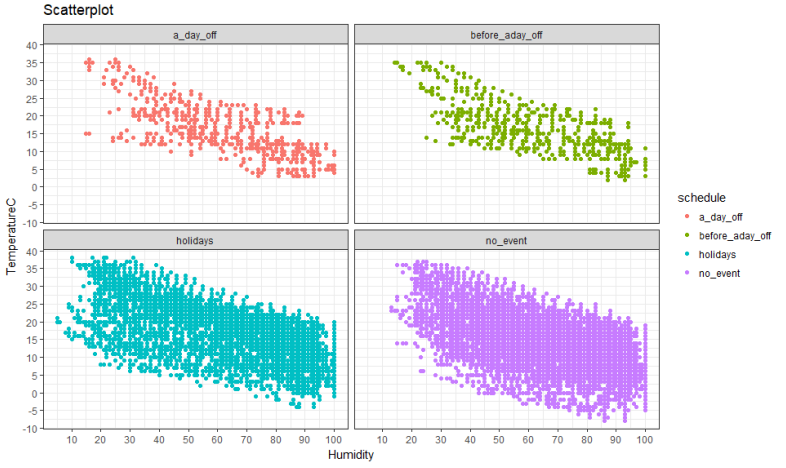
Hide

```
ggplot(BORdf, aes(Humidity,TemperatureC))+ geom_point(aes(color = schedule)) +
scale_x_continuous("Humidity", breaks = seq(0,100,by = 5))+
scale_y_continuous("TemperatureC", breaks = seq(-10,110,by = 5))+
labs(subtitle="Correlation :Temperature vs. Humidity by the type of day in BORDEAUX")+
theme_bw() + labs(title="Scatterplot")
```



Hide

```
# this code is from : "7 Visualizations You Should Learn in R | Rbloggers"
ggplot(BORdf, aes(Humidity,TemperatureC)) + geom_point(aes(color = schedule)) +
scale_x_continuous("Humidity", breaks = seq(0,110,10))+
scale_y_continuous("TemperatureC", breaks = seq(-10,40,5))+
theme_bw() + labs(title="Scatterplot") + facet_wrap( ~ schedule)
```



Hide

```
sub1=subset(BORdf,TemperatureC < 0,select = c('schedule','DoW','MoY'))
table(sub1$schedule,sub1$DoW)
```

```
                 1   2   3   4   5   6   7
  a_day_off      0   0   0   0   0   0   0
  before_aday_off  0   0   0   0   0   0   0
  holidays       0   0   0  29  11   0   0
  no_event      48  29  35 144  94  68  67
```

Hide

```
library(dplyr)
sub1<-tbl_df(sub1)# converting sub1 from df to table with 'dplyr' package, using filter to extract data ( no need subset any more)
filter(sub1,schedule=='no_event'&DoW==7)
```

schedule <fctr>	**DoW** <dbl>	**MoY** <dbl>
no_event	7	1
no_event	7	1
no_event	7	1
no_event	7	1
no_event	7	1
no_event	7	1
no_event	7	1
no_event	7	1
no_event	7	1
no_event	7	1

1-10 of 67 rows Previous **1** 2 3 4 5 6 7 Next

Hide

```
write.csv(BORdf, file = 'Bordeaux_context.csv',row.names = F)
```

Add a new chunk by clicking the *Insert Chunk* button on the toolbar or by pressing *Ctrl+Alt+I*.

When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the *Preview* button or press *Ctrl+Shift+K* to preview the HTML file).