

Assignment_05

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```
#Libraries
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.2.1 --

## v ggplot2 2.2.1      v purrr  0.2.4
## v tibble  1.4.2      v dplyr  0.7.4
## v tidyr   0.8.0      v stringr 1.2.0
## v readr   1.1.1      v forcats 0.2.0

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

library(stringr)

# Obtaining Data
url1 <- "http://www.ndbc.noaa.gov/view_text_file.php?filename=mlrf1h"
url2 <- ".txt.gz&dir=data/historical/stdmet/"
years <- c(1987:2016)
urls <- str_c(url1, years, url2, sep = "")
filenames <- str_c("mr", years, sep = "")
N <- length(urls)
for (i in 1:N){
  suppressMessages(
    assign(filenames[i], read_table(urls[i], col_names = TRUE))
  )
  file <- get(filenames[i])
  colnames(file)[1] <- "YYYY"
  if(!is.numeric(file[1,1])){
    file <- file[2:nrow(file),]
    file$YYYY <- as.numeric(file$YYYY)
  }

  ifelse(as.numeric(file$YYYY%/%100)<1, file$YYYY+1900, file$YYYY)
  # put '19' in front of 2 digit years
  # check that all columns are included
  # filter down to only the 1 daily observation that you want
  # etc etc etc

  if(i == 1){
    MR <- file %>% select(YYYY, MM, DD, hh, ATMP, WTMP)
  }
  else{
    MR <- rbind.data.frame(MR, file %>% select(YYYY, MM, DD, hh, ATMP, WTMP))
  }
}
```

```
}  
}
```