Pradeep Sahoo Midterm

Pradeep Sahoo

7/5/2018

My Github repository for my assignments can be found at this URL: My Github

```
library(mdsr)
library(tidyverse)
library(tibble)
```

The tidyverse packages

1. Can you name which package is associated with each task below?

a. Plotting - ggplot2
b. Data munging/wrangling - dplyr
c. Reshaping (speading and gathering) data - tidyr
d. Importing/exporting data - readr

2. Now can you name two functions that you've used from each package that you listed above for these tasks?

a. Plotting - ggplot(), geom_boxplot()
b. Data munging/wrangling - summarize(), filter()
c. Reshaping data - gather(), spread(), separate(), unite()
d. Importing/exporting data - read_csv(), read_tsv(), read_delim()

```
My_data.name___is.too00ooLong <- c( 1 , 2   , 3 )
My_data.name___is.too00ooLong
```

```
## [1] 1 2 3
```

```
my_string <- c('has','an','error','in','it')
my_string
```

```
## [1] "has"   "an"    "error" "in"    "it"
```

```
my_vector <- c(1, 2, '3', '4', 5)
my_vector
```

```
## [1] "1" "2" "3" "4" "5"
```

my_vector is converted to string.

```
file_path = ('/Users/pradeepsahoo/Downloads/rail_trail.txt')
text_data <- read.delim(file_path,header = TRUE, sep = "|")
glimpse(text_data)
```

```
## Observations: 90
## Variables: 10
## $ hightemp   <int> 83, 73, 74, 95, 44, 69, 66, 66, 80, 79, 78, 65, 41,...
## $ lowtemp    <int> 50, 49, 52, 61, 52, 54, 39, 38, 55, 45, 55, 48, 49,...
## $ avgtemp    <dbl> 66.5, 61.0, 63.0, 78.0, 48.0, 61.5, 52.5, 52.0, 67....
## $ spring     <int> 0, 0, 1, 0, 1, 1, 1, 1, 0, 0, 0, 1, 1, 0, 0, 1, 0, ...
## $ summer     <int> 1, 1, 0, 1, 0, 0, 0, 0, 1, 1, 1, 0, 0, 0, 0, 0, 1, ...
```

```
## $ fall       <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, ...
## $ cloudcover <dbl> 7.6, 6.3, 7.5, 2.6, 10.0, 6.6, 2.4, 0.0, 3.8, 4.1, ...
## $ precip     <dbl> 0.00, 0.29, 0.32, 0.00, 0.14, 0.02, 0.00, 0.00, 0.0...
## $ volume     <int> 501, 419, 397, 385, 200, 375, 417, 629, 533, 547, 4...
## $ weekday    <int> 1, 1, 1, 0, 1, 1, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1, 0, ...
```

```
write.csv(text_data,file = '/Users/pradeepsahoo/R-Assignments/R_Project1/rail_trail.csv')
csv_data <- read.csv( '/Users/pradeepsahoo/R-Assignments/R_Project1/rail_trail.csv')
glimpse(csv_data)
```

```
## Observations: 90
## Variables: 11
## $ X          <int> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, ...
## $ hightemp   <int> 83, 73, 74, 95, 44, 69, 66, 66, 80, 79, 78, 65, 41,...
## $ lowtemp    <int> 50, 49, 52, 61, 52, 54, 39, 38, 55, 45, 55, 48, 49,...
## $ avgtemp    <dbl> 66.5, 61.0, 63.0, 78.0, 48.0, 61.5, 52.5, 52.0, 67....
## $ spring     <int> 0, 0, 1, 0, 1, 1, 1, 1, 0, 0, 0, 1, 1, 0, 0, 1, 0, ...
## $ summer     <int> 1, 1, 0, 1, 0, 0, 0, 0, 1, 1, 1, 0, 0, 0, 0, 0, 1, ...
## $ fall       <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, ...
## $ cloudcover <dbl> 7.6, 6.3, 7.5, 2.6, 10.0, 6.6, 2.4, 0.0, 3.8, 4.1, ...
## $ precip     <dbl> 0.00, 0.29, 0.32, 0.00, 0.14, 0.02, 0.00, 0.00, 0.0...
## $ volume     <int> 501, 419, 397, 385, 200, 375, 417, 629, 533, 547, 4...
## $ weekday    <int> 1, 1, 1, 0, 1, 1, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1, 0, ...
```