# COMPSCIX 415.2 Homework 5/Midterm

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#### Github location

 $My\ homework\ assignments\ can\ be\ found\ at\ https://github.com/santumagic/compscix-415-2 assignments.git$ 

#### RStudio and R Markdown

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## Question: 1

As part of this question, I have loaded the required packages and added instructions for table of contents etc in the YAML header.

```
# Load the required packages
library(tidyverse)
library(mdsr)
library(nycflights13)
```

#### The tidyverse packages

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#### Question: 1

Plotting - **ggplot2**Data munging/wrangling - **dplyr** and **tidyr**Reshaping (speading and gathering) data - **tidyr**Importing/exporting data - **readr** 

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#### Question: 2

```
Plotting - ggplot() and aes()
Data munging/wrangling - select() and filter()
Reshaping (speading and gathering) data - separate() and extract()
Importing/exporting data - read_csv() and read_delim()
```

#### R Basics

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#### Question: 1

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

Answer: Just with one change (removal of '!'), the code works.

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#### Question: 2

```
# this is a charactor vector
my_string <- c('has', 'an', 'error', 'in', 'it')
my_string
## [1] "has" "an" "error" "in" "it"</pre>
```

#### Question: 3

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

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

Answer: This is a numeric vector and with or without the single or double quotes, vactor takes values.

# Data import/export

Question: 1

Question: 2

#### Visualization

Question: 1

Question: 2

Question: 3

# Data munging and wrangling

Question: 1

Question: 2

Question: 3

#### EDA

Question: 1

Question: 2

Question: 3

Question: 4

Question: 5

Question: 6

## Git and Github