

COMPSCIX 415.2 Homework 5/Midterm

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Contents

Github location	1
RStudio and R Markdown	1
Question: 1	1
The tidyverse packages	2
Question: 1	2
Question: 2	2
R Basics	2
Question: 1	2
Question: 2	2
Question: 3	3
Data import/export	3
Question: 1	3
Question: 2	3
Visualization	3
Question: 1	3
Question: 2	3
Question: 3	3
Data munging and wrangling	3
Question: 1	3
Question: 2	3
Question: 3	3
EDA	3
Question: 1	3
Question: 2	3
Question: 3	3
Question: 4	3
Question: 5	3
Question: 6	3
Git and Github	3

Github location

My homework assignments can be found at <https://github.com/santumagic/compscix-415-2assignments.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 )
```

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

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Question: 2

```
# this is a character vector
my_string <- c('has', 'an', 'error', 'in', 'it')
my_string

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

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Question: 3

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

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

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