Homework4

Evelin Reyes 10/26/2021

```
library(rvest)
library(tidyverse)
## -- Attaching packages --
                                                                - tidyverse 1.3.1 -
## ✓ ggplot2 3.3.5 ✓ purrr
                                  0.3.4
## ✓ tibble 3.1.5

√ dplyr 1.0.7
## ✓ tidyr 1.1.3 ✓ stringr 1.4.0
## ✓ readr 2.0.1 ✓ forcats 0.5.1
## -- Conflicts ----
                                                          — tidyverse_conflicts() —
## x dplyr::filter() masks stats::filter()
## x readr::guess encoding() masks rvest::guess encoding()
## x dplyr::lag()
                            masks stats::lag()
library(httr)
library(dplyr)
library(tidyr)
url = "https://introdatasci.dlilab.com/schedule_materials/"
x = url %>%
 httr::GET(config = httr::config(ssl_verifypeer = FALSE)) %>%
 read html()
df1 = html table(x)[[1]]
df1
```

```
## # A tibble: 30 × 5
##
      Date
             Topic
                                                    Notes HW
                                                                 Reading
##
      <chr> <chr>
                                                     <chr> <chr> <chr>
                                                           "_"
                                                                  "Leek & Peng 2015"
##
   1 Aug 24 About the course
   2 Aug 26 Data science project cycle
                                                                  "Mason and Wiggins 2...
##
    3 Aug 31 Class cancelled because of Hurrican...
   4 Sep 2 Class cancelled because of Hurrican... ""
##
                                                     11 🧧 11
   5 Sep 7 Introduction and install tools
##
                                                                  "Cooper & Hsing 2017"
                                                     11 📴 11
                                                           11 11
   6 Sep 9 Version control with Git
                                                                  "Blischak et al. 201...
##
                                                     " 📔 "
   7 Sep 14 Introduction to GitHub
                                                           ...
##
   8 Sep 16 RStudio project and dynamic documen... " " "
                                                           "01"
##
                                                                  "Xie et al, Chapter ...
## 9 Sep 21 The file system and basic unix shell "lacksquare"
                                                           ...
                                                                  "Allesina & Wilmes, ...
## 10 Sep 23 R basics: data types, vectors, matr... " " ""
## # ... with 20 more rows
```

```
str_split_fixed(df1$Date," ", 2)
```

```
##
         [,1] [,2]
   [1,] "Aug" "24"
##
   [2,] "Aug" "26"
##
   [3,] "Aug" "31"
##
##
   [4,] "Sep" "2"
   [5,] "Sep" "7"
##
   [6,] "Sep" "9"
##
   [7,] "Sep" "14"
   [8,] "Sep" "16"
##
   [9,] "Sep" "21"
##
## [10,] "Sep" "23"
## [11,] "Sep" "28"
## [12,] "Sep" "30"
## [13,] "Oct" "5"
## [14,] "Oct" "7"
## [15,] "Oct" "12"
## [16,] "Oct" "14"
## [17,] "Oct" "19"
## [18,] "Oct" "26"
## [19,] "Oct" "28"
## [20,] "Nov" "2"
## [21,] "Nov" "4"
## [22,] "Nov" "9"
## [23,] "Nov" "11"
## [24,] "Nov" "16"
## [25,] "Nov" "18"
## [26,] "Nov" "23"
## [27,] "Nov" "25"
## [28,] "Nov" "30"
## [29,] "Dec" "2"
## [30,] "Dec" "14"
```

```
df2 <- df1 %>%
  separate(Date, c("Month","Day"), " ", remove = F)
df2
```

```
## # A tibble: 30 × 7
##
      Date
              Month Day
                                                                        Reading
                           Topic
                                                           Notes HW
      <chr> <chr> <chr> <chr> <chr>
##
                                                           <chr> <chr> <chr>
                                                                  " – "
##
   1 Aug 24 Aug
                     24
                           About the course
                                                                         "Leek & Peng 201...
##
    2 Aug 26 Aug
                           Data science project cycle
                                                                         "Mason and Wiggi...
##
    3 Aug 31 Aug
                    31
                           Class cancelled because of ...
                           Class cancelled because of ... ""
##
   4 Sep 2
                    2
              Sep
                           Introduction and install to... " " "
##
   5 Sep 7
              Sep
                    7
                                                                         "Cooper & Hsing ...
                                                           11 🎴 11
                                                                  11 11
                                                                         "Blischak et al....
   6 Sep 9
                    9
                           Version control with Git
##
              Sep
                                                           " 📔 "
                                                                  11 11
##
   7 Sep 14 Sep
                    14
                           Introduction to GitHub
                           RStudio project and dynamic... " " "
                                                                  "01"
   8 Sep 16 Sep
##
                    16
                                                                         "Xie et al, Chap...
                                                                  " "
                           The file system and basic u... " | "
                                                                         "Allesina & Wilm...
  9 Sep 21 Sep
                    21
                           R basics: data types, vecto... " " "
## 10 Sep 23 Sep
                     23
## # ... with 20 more rows
```

```
df3 <- df2 %>% group_by(Month)
df3
```

```
## # A tibble: 30 × 7
## # Groups:
                Month [5]
##
      Date
              Month Day
                                                           Notes HW
                           Topic
                                                                        Reading
##
      <chr>
              <chr> <chr> <chr>
                                                           <chr> <chr> <chr>
                                                           II 📴 II
                                                                 "_"
##
   1 Aug 24 Aug
                    24
                           About the course
                                                                        "Leek & Peng 201...
    2 Aug 26 Aug
                           Data science project cycle
                                                                        "Mason and Wiggi...
##
                    26
##
   3 Aug 31 Aug
                           Class cancelled because of ...
   4 Sep 2
                           Class cancelled because of ...
##
              Sep
                                                                 ....
                           Introduction and install to... " " "
##
   5 Sep 7
              Sep
                    7
                                                                        "Cooper & Hsing ...
                                                           11 🎴 11
                                                                 11 11
                           Version control with Git
                                                                        "Blischak et al....
##
    6 Sep 9
                    9
              Sep
                                                           11 📴 11
                                                                 ....
   7 Sep 14 Sep
                           Introduction to GitHub
##
                    14
                           RStudio project and dynamic... " " "
                                                                 "01"
##
   8 Sep 16 Sep
                    16
                                                                        "Xie et al, Chap...
                           The file system and basic u... " " "
                                                                 " "
                                                                        "Allesina & Wilm...
                    21
## 9 Sep 21 Sep
                           R basics: data types, vecto... " " "
## 10 Sep 23 Sep
                    23
## # ... with 20 more rows
```

```
table = summarise(df3, No.Lectures = n())
table
```

```
df4 <- table[order(-table$No.Lectures),]
df4</pre>
```

```
df5 <- str_split(df3$Topic, " ")
df5</pre>
```

```
## [[1]]
## [1] "About" "the" "course"
##
## [[2]]
## [1] "Data" "science" "project" "cycle"
##
## [[3]]
## [1] "Class" "cancelled" "because" "of" "Hurricane" "Ida"
##
## [[4]]
## [1] "Class" "cancelled" "because" "of"
                                               "Hurricane" "Ida"
##
## [[5]]
## [1] "Introduction" "and"
                                "install" "tools"
##
## [[6]]
## [1] "Version" "control" "with" "Git"
##
## [[7]]
## [1] "Introduction" "to" "GitHub"
##
## [[8]]
## [1] "RStudio" "project" "and" "dynamic" "documents" "with"
## [7] "R"
                 "Markdown"
##
## [[9]]
## [1] "The" "file" "system" "and" "basic" "unix" "shell"
##
## [[10]]
## [1] "R"
              "basics:" "data" "types," "vectors," "matrix," "data"
## [8] "frame," "etc."
##
## [[11]]
## [1] "More" "R" "basics:" "lists," "dates," "etc."
##
## [[12]]
                 "programming" "basics:" "conditional" "statements"
## [1] "R"
##
## [[13]]
## [1] "R"
                 "programming" "basics:"
                                          "loops," "apply"
##
## [[14]]
## [1] "Strings" "and" "Regular" "expressions"
##
## [[15]]
## [1] "API" "and" "data" "scraping"
##
## [[16]]
## [1] "Data" "input" "and" "output"
##
## [[17]]
## [1] "Data" "manipulation" "with"
                                       "R"
##
```

```
## [[18]]
## [1] "More" "data" "manipulation" "with" "R"
##
## [[19]]
## [1] "Data" "visualization" "with" "R"
##
## [[20]]
## [1] "Exploratory" "data" "analysis"
##
## [[21]]
## [1] "Regression" "methods"
##
## [[22]]
                          "Regression" "methods"
## [1] "More"
               "on"
##
## [[23]]
## [1] "Write" "your"
                         "own" "functions"
##
## [[24]]
## [1] "Write" "your" "own" "R" "package"
##
## [[25]]
## [1] "Open" "Science" "and" "automating" "things" ## [6] "with" "Makefile"
##
## [[26]]
## [1] "Ethics" "in" "data" "science" "(virtual)"
##
## [[27]]
## [1] "Thanksgiving," "no" "class"
##
## [[28]]
## [1] "Final" "project" "presentation"
##
## [[29]]
                "project" "presentation" "and"
## [1] "Final"
                                                         "wrap"
## [6] "up"
##
## [[30]]
## [1] "Final" "grades" "due"
```

```
words <- unlist(df5)</pre>
words
```

```
##
     [1] "About"
                           "the"
                                            "course"
                                                             "Data"
##
     [5] "science"
                           "project"
                                            "cycle"
                                                             "Class"
                           "because"
                                            "of"
                                                             "Hurricane"
##
     [9] "cancelled"
                           "Class"
   [13] "Ida"
                                            "cancelled"
                                                             "because"
##
##
    [17] "of"
                           "Hurricane"
                                            "Ida"
                                                             "Introduction"
                                                             "Version"
    [21] "and"
                           "install"
                                            "tools"
##
                           "with"
                                            "Git"
                                                             "Introduction"
##
    [25] "control"
                           "GitHub"
                                            "RStudio"
    [29] "to"
                                                             "project"
##
                           "dynamic"
                                            "documents"
                                                             "with"
##
   [33] "and"
                           "Markdown"
                                            "The"
                                                             "file"
##
   [37] "R"
                           "and"
                                            "basic"
                                                             "unix"
##
   [41] "system"
##
   [45] "shell"
                           "R"
                                            "basics:"
                                                             "data"
   [49] "types,"
                           "vectors,"
                                            "matrix,"
                                                             "data"
##
                                                             "R"
   [53] "frame,"
                           "etc."
                                            "More"
##
                           "lists,"
                                                             "etc."
##
   [57] "basics:"
                                            "dates,"
##
   [61] "R"
                           "programming"
                                            "basics:"
                                                             "conditional"
   [65] "statements"
                           "R"
                                            "programming"
                                                             "basics:"
##
##
   [69] "loops,"
                           "apply"
                                            "Strings"
                                                             "and"
                                            "API"
                                                             "and"
   [73] "Regular"
                           "expressions"
##
## [77] "data"
                           "scraping"
                                            "Data"
                                                             "input"
## [81] "and"
                           "output"
                                            "Data"
                                                             "manipulation"
                           "R"
                                            "More"
                                                             "data"
##
   [85] "with"
                                            "R"
## [89] "manipulation"
                           "with"
                                                             "Data"
                                            "R"
## [93] "visualization"
                           "with"
                                                             "Exploratory"
## [97] "data"
                           "analysis"
                                            "Regression"
                                                             "methods"
                           "on"
                                            "Regression"
                                                             "methods"
## [101] "More"
## [105] "Write"
                           "your"
                                            "own"
                                                             "functions"
                                                             "R"
## [109] "Write"
                                            "own"
                           "your"
                                                             "and"
## [113] "package"
                           "Open"
                                            "Science"
                                            "with"
## [117] "automating"
                           "things"
                                                             "Makefile"
                           "in"
                                                             "science"
## [121] "Ethics"
                                            "data"
## [125] "(virtual)"
                           "Thanksgiving," "no"
                                                             "class"
                                                             "Final"
## [129] "Final"
                           "project"
                                            "presentation"
## [133] "project"
                           "presentation"
                                            "and"
                                                             "wrap"
                                            "grades"
## [137] "up"
                           "Final"
                                                             "due"
```

```
freq <- table(words)
freq</pre>
```

## 2 1 1 1 1 2 ## lists, loops, Makefile manipulation Markdown ## 1 1 1 1 2 1 ## matrix, methods More no of ## 0 0 0pen output own package ## 1 1 1 1 2 1 ## presentation programming project R Regression ## 2 2 2 4 9 2 ## Regular RStudio science Science scraping ## 1 1 1 2 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 ## the The things to tools ## types, unix up vectors, Version ## tysualization with wrap Write your	,				Troine work !	
## (virtual) About analysis and API ## apply automating basic basics: because ## 1 1 1 1 1 4 2 ## cancelled class Class conditional control ## course cycle data Data dates, ## 1 1 1 6 4 1 ## documents due dynamic etc. Ethics ## 1 1 1 1 1 2 1 ## Exploratory expressions file Final frame, ## 1 1 1 1 1 3 1 3 1 ## functions Git GitHub grades Hurricane ## 1 1 1 1 1 1 1 1 2 ## Ida in input install Introduction ## 2 1 1 1 1 1 1 1 2 ## lists, loops, Makefile manipulation Markdown ## 1 1 1 1 1 2 1 ## matrix, methods More no of ## matrix, methods More no of ## 1 1 1 1 1 2 1 ## presentation programming project R Regression ## 1 1 1 1 1 2 1 ## Regular RStudio science Science scraping ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 1 ## the The things to to tools ## types, unix up vectors, Version	##	words				
## apply automating basic basics: because ## 1 1 1 1 1 4 2 2			About	analysis	and	API
## cancelled class Class conditional control ## 2 1 2 1 2 1 1 1 ## course cycle data Data dates, ## documents due dynamic etc. Ethics ## Exploratory expressions file Final frame, ## functions Git GitHub grades Hurricane ## I 1 1 1 1 1 1 2 1 ## Ida in input install Introduction ## 2 1 1 1 1 1 1 1 2 1 ## Lists, loops, Makefile manipulation Markdown ## 1 2 1 1 1 1 2 1 1 2 1 ## matrix, methods More no of ## 1 2 3 1 2 1 ## presentation programming project R Regression ## Presentation programming project R Regression ## Regular RStudio science Science scraping ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## types, unix up vectors, Version ## types ## visualization with wrap Write vour	##	,		-		
## cancelled class Class conditional control ## 2 1 2 1 2 1 1 ## course cycle data Data dates, ## 1 1 1 6 4 1 ## documents due dynamic etc. Ethics ## 1 1 1 1 2 2 1 ## Exploratory expressions file Final frame, ## 1 1 1 1 3 3 1 ## functions Git GitHub grades Hurricane ## 1 1 1 1 1 1 2 ## Ida in input install Introduction ## 2 1 1 1 1 1 2 ## lists, loops, Makefile manipulation Markdown ## 1 1 1 1 1 2 1 1 ## matrix, methods More no of ## 1 2 3 3 1 2 ## on Open output own package ## 1 1 1 1 2 1 2 1 ## presentation programming project R Regression ## 2 2 2 4 9 9 2 ## Regular RStudio science Science scraping ## 1 1 1 2 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 ## the The things to tools ## types, unix up vectors, Version ## types, unix up vectors, Version ## types, unix up vectors, Version ## typus vectors, Version ## visualization with wrap Write vectors	##	apply	automating	basic	basics:	because
## course cycle data Data dates, ## 1 1 1 6 4 1 ## documents due dynamic etc. Ethics ## 1 1 1 1 2 1 ## Exploratory expressions file Final frame, ## functions Git GitHub grades Hurricane ## Ida in input install Introduction ## 2 1 1 1 1 2 1 ## lists, loops, Makefile manipulation Markdown ## 1 1 1 1 2 1 ## matrix, methods More no of ## on Open output own package ## 1 1 1 1 1 2 1 ## presentation programming project R Regression ## 2 2 4 9 2 ## Regular RStudio science Science scraping ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 1 ## shell statements Strings to tools ## 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## types, unix up vectors, Version ## types your	##	1	1	1	4	2
## course cycle data Data dates, ### 1 1 1 6 4 1 ## documents due dynamic etc. Ethics ## 1 1 1 1 1 2 11 ## Exploratory expressions file Final frame, ## functions Git GitHub grades Hurricane ## 1 1 1 1 1 1 1 2 ## Ida in input install Introduction ## 2 1 1 1 1 1 2 1 ## lists, loops, Makefile manipulation Markdown ## 1 1 1 1 1 2 1 ## matrix, methods More no of ## 1 2 2 3 11 2 2 ## on Open output own package ## 1 1 1 1 1 2 1 ## presentation programming project R Regression ## 2 2 4 9 2 ## Regular RStudio science Science scraping ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## types, unix up vectors, Version ## visualization with wrap Write your	##	cancelled	class	Class	conditional	control
## 1 1 1 6 4 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1	##	2	1	2	1	1
## documents due dynamic etc. Ethics ## 1 1 1 1 2 1 ## Exploratory expressions file Final frame, ## 1 1 1 1 3 1 ## functions Git GitHub grades Hurricane ## 1 1 1 1 1 1 2 ## Ida in input install Introduction ## 2 1 1 1 1 2 1 ## lists, loops, Makefile manipulation Markdown ## 1 1 1 1 2 1 ## matrix, methods More no of ## 1 2 3 1 1 2 ## on Open output own package ## 1 1 1 1 2 1 ## presentation programming project R Regression ## 2 2 4 9 2 ## Regular RStudio science Science scraping ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 ## the The things to tools ## types, unix up vectors, Version ## types, unix up vectors, Version ## visualization with wrap Write your	##	course	cycle	data	Data	dates,
## Exploratory expressions file Final frame, ## 1 1 1 1 1 3 1 3 ## functions Git GitHub grades Hurricane ## 1 1 1 1 1 1 1 2 ## Ida in input install Introduction ## 2 1 1 1 1 2 1 ## lists, loops, Makefile manipulation Markdown ## 1 1 1 1 2 1 ## matrix, methods More no of ## 1 2 3 1 1 2 1 ## on Open output own package ## 1 1 1 1 2 2 1 ## presentation programming project R Regression ## 2 2 4 4 9 2 ## Regular RStudio science Science scraping ## 1 1 1 2 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## visualization with wrap Write your	##	1	1	6	4	1
## Exploratory expressions file Final frame, ### 1 1 1 1 1 3 1 ### functions Git GitHub grades Hurricane ### 1 1 1 1 1 1 1 2 ### Ida in input install Introduction ### 2 1 1 1 1 2 1 ### matrix, loops, Makefile manipulation Markdown ### 1 1 1 1 2 1 ### matrix, methods More no of ### 1 2 3 1 1 2 ### on Open output own package ### 1 1 1 1 1 2 1 ### presentation programming project R Regression ### 2 2 2 4 9 2 2 ### Regular RStudio science Science scraping ### 1 1 1 2 1 1 ### shell statements Strings system Thanksgiving, ### 1 1 1 1 1 1 1 1 ### the The things to tools ### 1 1 1 1 1 1 ### types, unix up vectors, Version ### visualization with wrap Write your	##	documents	due	dynamic	etc.	Ethics
## functions Git GitHub grades Hurricane ## 1 1 1 1 1 1 2 ## Ida in input install Introduction ## 2 1 1 1 1 1 2 ## lists, loops, Makefile manipulation Markdown ## 1 1 1 1 2 1 ## matrix, methods More no of ## 1 2 3 1 1 2 1 ## on Open output own package ## 1 1 1 1 1 2 1 ## presentation programming project R Regression ## 2 2 2 4 9 2 2 ## Regular RStudio science Science scraping ## 1 1 1 2 1 1 1 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## visualization with wrap Write your	##	1	1	1	2	
## functions Git GitHub grades Hurricane ## 1 1 1 1 1 1 2 ### Ida in input install Introduction ## 2 1 1 1 1 2 ### lists, loops, Makefile manipulation Markdown ## 1 1 1 1 2 1 2 ### matrix, methods More no of ## 0 0 0pen output own package ## 1 1 1 1 2 2 1 ## presentation programming project R Regression ## 2 2 4 9 2 ## Regular RStudio science Science scraping ## 1 1 2 1 2 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 ## types, unix up vectors, Version ## visualization with wrap Write your	##	Exploratory	expressions			frame,
## 1 1 1 1 1 1 2 ## Ida in input install Introduction ## 2 1 1 1 1 2 ## lists, loops, Makefile manipulation Markdown ## 1 1 1 1 2 1 ## matrix, methods More no of ## 0 0pen output own package ## 1 1 1 1 2 1 2 1 ## presentation programming project R Regression ## 2 2 4 9 2 ## Regular RStudio science Science scraping ## 1 1 1 2 1 1 1 1 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## visualization with wrap Write your	##			1	3	
## Ida in input install Introduction ## 2 1 1 1 1 2 ## lists, loops, Makefile manipulation Markdown ## 1 1 1 1 2 1 ## matrix, methods More no of ## 1 2 3 1 2 ## on Open output own package ## 1 1 1 1 2 1 ## presentation programming project R Regression ## 2 2 2 4 9 2 2 ## Regular RStudio science Science scraping ## 1 1 1 2 1 1 1 1 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## tyisualization with wrap Write your	##	functions	Git	GitHub	grades	Hurricane
## 2 1 1 1 1 2 ## lists, loops, Makefile manipulation Markdown ## 1 1 1 1 2 1 ## matrix, methods More no of ## 1 2 3 1 1 2 ## on Open output own package ## 1 1 1 1 2 1 ## presentation programming project R Regression ## 2 2 2 4 9 2 ## Regular RStudio science Science scraping ## 1 1 1 2 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 ## types, unix up vectors, Version ## tysualization with wrap Write your	##		1			
## lists, loops, Makefile manipulation Markdown ## 1 1 1 1 2 1 ## matrix, methods More no of ## 1 2 3 1 1 2 ## on Open output own package ## 1 1 1 1 1 2 1 ## presentation programming project R Regression ## 2 2 4 9 2 ## Regular RStudio science Science scraping ## 1 1 1 2 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 ## the The things to tools ## types, unix up vectors, Version ## types, unix up vectors, Version ## visualization with wrap Write your	##	Ida	in	input	install	Introduction
##	##				1	2
## 1 1 1 1 2 1 2 1 1 ## matrix, methods More no of ## 1 2 3 1 2 3 1 2 2 3 1 2 2 3 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 3 1 1 1 1	##	lists,	loops,	Makefile	manipulation	Markdown
## 1 2 3 1 2 ## on Open output own package ## 1 1 1 1 1 2 1 ## presentation programming project R Regression ## 2 2 2 4 9 2 ## Regular RStudio science Science scraping ## 1 1 1 2 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 ## the The things to tools ## types, unix up vectors, Version ## types, unix up vectors, Version ## visualization with wrap Write your	##		1	1	2	
## on Open output own package ## 1 1 1 1 2 1 ## presentation programming project R Regression ## 2 2 2 4 9 2 ## Regular RStudio science Science scraping ## 1 1 1 2 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## visualization with wrap Write your	##	matrix,	methods	More	no	of
## presentation programming project R Regression ## presentation programming project R Regression ## 2 2 2 4 9 2 ## Regular RStudio science Science scraping ## 1 1 2 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## types, with wrap Write your	##	1	2	3	1	2
## presentation programming project R Regression ## 2 2 2 4 9 2 ## Regular RStudio science Science scraping ## 1 1 1 2 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## 1 1 1 1 1 1 1 ## visualization with wrap Write your	##	on	Open	output	own	package
## Regular RStudio science Science scraping ## Regular RStudio science Science scraping ## 1 1 1 2 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## 1 1 1 1 1 1 1 ## visualization with wrap Write your	##				2	1
## Regular RStudio science Science scraping ## 1 1 1 2 1 1 ## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## 1 1 1 1 1 1 1 ## visualization with wrap Write your						
## 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	##	2	2	4	9	2
## shell statements Strings system Thanksgiving, ## 1 1 1 1 1 1 1 1 1 ## the The things to tools ## 1 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## 1 1 1 1 1 1 1 1 ## visualization with wrap Write your	##	-		science	Science	scraping
## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
## the The things to tools ## 1 1 1 1 1 1 1 ## types, unix up vectors, Version ## 1 1 1 1 1 1 1 ## visualization with wrap Write your				Strings	system	Thanksgiving,
## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	##		1	1	1	1
## types, unix up vectors, Version ## 1 1 1 1 1 1 1 ## visualization with wrap Write your				_	to	
## 1 1 1 1 1 1 1 ## visualization with wrap Write your						
## visualization with wrap Write your				up		
## 1 6 1 2 2		visualization		_		=
	##	1	6	1	2	2

```
most <- sort(freq,decreasing = TRUE)
most</pre>
```

J. – 1 , ,				Troine work :	
##	words				
##		and	data	with	basics:
##	9			6	
##	Data	project	Final	More	
##				3	
##	cancelled	Class	etc.	Hurricane	Ida
##	2	2	2	2	2
##	Introduction	manipulation	methods	of	own
##	2	2	2	2	2
##	presentation	programming	Regression	science	Write
##	2	2	2	2	2
##	your	(virtual)	About	analysis	API
##				1	
##	apply	automating	basic	class	conditional
##	1	1	1	1	1
##	control	course	cycle	dates,	documents
##	1	1	1	1	1
##	due	dynamic	Ethics	Exploratory	expressions
##	1	1	1	1 Git	1
##	file	frame,	functions	Git	GitHub
##	1	1	1	1	1
##	grades	in		install	
##	1	1	1	1	1
##	loops,	Makefile		matrix,	no
##	1	1	1	1	1
##	on			package	
##	1	1	1	1	1
##	RStudio	Science	scraping	shell	statements
##	1	1	1	1	1
##	Strings			the	
##				1	
##	_	to		types,	
##				1	
##	up	vectors,	Version	visualization	wrap
##	1	1	1	1	1

```
most[1:5]
```

```
## words
## R and data with basics:
## 9 8 6 6 4
```