

Homework 4

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```
## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.5    v purrr  0.3.4
## v tibble  3.1.4    v dplyr  1.0.7
## v tidyr   1.1.4    v stringr 1.4.0
## v readr   2.0.2    v forcats 0.5.1

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

##
## Attaching package: 'rvest'

## The following object is masked from 'package:readr':
##
##   guess_encoding
```

Question 1

```
sched = read_html("https://introdatasci.dlilab.com/schedule_materials")

sched = sched %>%
  html_elements("table") %>%
  html_table()

sched = as.data.frame(sched)
```

Question 2

```
sched$Month = gsub("\\d", "", sched[,1])

sched$Day = gsub("\\D", "", sched[,1])

print(sched[c(6,7,2)])
```

##	Month	Day	Topic
## 1	Aug	24	About the course
## 2	Aug	26	Data science project cycle
## 3	Aug	31	Class cancelled because of Hurricane Ida
## 4	Sep	2	Class cancelled because of Hurricane Ida
## 5	Sep	7	Introduction and install tools
## 6	Sep	9	Version control with Git
## 7	Sep	14	Introduction to GitHub
## 8	Sep	16	RStudio project and dynamic documents with R Markdown
## 9	Sep	21	The file system and basic unix shell
## 10	Sep	23	R basics: data types, vectors, matrix, data frame, etc.
## 11	Sep	28	More R basics: lists, dates, etc.
## 12	Sep	30	R programming basics: conditional statements
## 13	Oct	5	R programming basics: loops, apply
## 14	Oct	7	Strings and Regular expressions
## 15	Oct	12	API and data scraping
## 16	Oct	14	Data input, output, manipulation with R
## 17	Oct	19	More data manipulation with R
## 18	Oct	26	Data visualization with R
## 19	Oct	28	Spatial data visualization
## 20	Nov	2	Exploratory data analysis
## 21	Nov	4	Regression methods
## 22	Nov	9	More on Regression methods
## 23	Nov	11	Write your own functions
## 24	Nov	16	Write your own R package
## 25	Nov	18	Open Science and automating things with Makefile
## 26	Nov	23	Ethics in data science
## 27	Nov	25	Thanksgiving, no class
## 28	Nov	30	Final project presentation
## 29	Dec	2	Final project presentation and wrap up
## 30	Dec	14	Final grades due