# Problem Set #1 Solutions

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### Problem set 1

#### Step 1:

- Go to your relass folder and open your saved lecture 1.2.Rmd file (hint: in lecture 1 folder)
- Open the lecture 1.2. Rmd file in RStudio
- At the top of the lecture 1.2.Rmd file, before the "# R basics", type your first and last name (e.g. "Patricia Martin")
- Now select the "Knit" tab (icon with blue yarn ball) or scroll down and "Knit to PDF (Beamer)"
- The goal of this assignment is to make sure you are able to knit to a Beamer presentation (PDF) without running into errors.

# Step 2:

## Question 1: Load .Rdata directly with url

- Make sure to view current/working directory first getwd()
- $\bullet \ \ Url\ to\ data\ https://github.com/ozanj/rclass/raw/master/data/recruiting/recruit\_ps1\_small.Rdata$
- Hint: to load .Rdata use load() function and "url" because you are using a link
- E.g. load(url(link))

#### getwd()

# ## [1] "/Users/patriciamartin/Desktop/GitHub/rclass/lectures/lecture1"

#### ?load

load(url("https://github.com/ozanj/rclass/raw/master/data/recruiting/recruit\_ps1\_small.Rdata"))

Question 2: Set your working directory and use absolute filepath to load data

- Download .Rdata using link from above
- Save .Rdata file in the recruiting folder (rclass/data/recruiting)
- View your current/working directory getwd()
- Use setwd() function to set your working directory to where .Rdata file is saved (rclass/data/recruiting)
- When setting working directory, use the absolute filepath
- Load the .Rdata file load(name.Rdata)
- Using the names (data frame name) function, report the names in this dataset (Hint: data frame name is df\_recruiting)

```
getwd()
## [1] "/Users/patriciamartin/Desktop/GitHub/rclass/lectures/lecture1"
setwd("/Users/patriciamartin/Desktop/rclass/data/recruiting") #absolute file path to data
getwd() #if you run lines 50-52 together you can see how the working directory changes
## [1] "/Users/patriciamartin/Desktop/rclass/data/recruiting"
list.files() #list.files displays the files in the folder
## [1] "recruit_ps1_small.Rdata"
load("recruit_ps1_small.Rdata")
names(df_recruiting)
## [1] "state_code"
                      "school_type" "ncessch"
                                                   "name"
                                                                  "address"
## [6] "city"
Question 3: Set your working directory and use relative filepath to load data
  • View your current/working directory getwd()
  • Use setwd() function to set your working directory to where .Rdata file is saved (rclass/data/recruiting)
  • When setting working directory, use the relative filepath
  • Load the .Rdata file load()
  • Report the names in this dataset (Hint: data from name is df recruiting)
getwd()
## [1] "/Users/patriciamartin/Desktop/GitHub/rclass/lectures/lecture1"
# Working directory is in the lecture1 folder, need to get to recruiting folder using relative file pat
setwd("../../data/recruiting")
getwd() #View current directory after setting the directory, run lines 67-70
## [1] "/Users/patriciamartin/Desktop/GitHub/rclass/data/recruiting"
list.files() #listing files in the recruiting folder
    [1] "create_recruit_events.R"
                                          "create_recruit_school.R"
   [3] "data_hs.csv"
                                          "events data .csv"
##
  [5] "recruit event allvars.RData"
                                          "recruit event somevars.RData"
   [7] "recruit_ps1_small.Rdata"
                                          "recruit_school_allvars.RData"
##
   [9] "recruit_school_somevars.RData" "text"
# Lets load recruit_ps1_small.Rdata
load("recruit_ps1_small.Rdata")
# Use names function to view the names in the data set (data frame)
names(df_recruiting)
## [1] "state_code" "school_type" "ncessch"
                                                   "name"
                                                                  "address"
## [6] "city"
# Run the entire code chunck
Question 4: Load dataset using relative filepath without first changing working directory
getwd()
```

## [1] "/Users/patriciamartin/Desktop/GitHub/rclass/lectures/lecture1"

load("../../data/recruiting/recruit\_ps1\_small.Rdata") #Set file path and load data at once
names(df\_recruiting)

## [1] "state\_code" "school\_type" "ncessch" "name" "address"
## [6] "city"