(http://help.coursera.org/customer/widget/emails/new) utm_source=spark&utm_medium=banner)

Peer Assessments (https://class.coursera.org/exdata-003/human_grading/) / Course Project 1
Help (https://class.coursera.org/exdata-003/help/peergrading?url=https%3A%2F%2Fclass.coursera.org%2Fexdata-003%2Fhuman_grading%2Fview%2Fcourses%2F972140%2Fassessments%2F3%2Fsubmissions)

due in 5day 23h	
Submission Phase	
1. Do assignment ☐ (/exdata-003/human_grading/view/courses/972140/assessments/3/submi	ssions)
Evaluation Phase	
2. Evaluate peers	radingSets
Results Phase	
3. See results	ne)
In accordance with the Honor Code, I certify that my answers here are my own work, and the have appropriately acknowledged all external sources (if any) that were used in this work. Save draft Submit for grading	

Introduction

This assignment uses data from the <u>UC Irvine Machine Learning Repository</u> (http://archive.ics.uci.edu/ml/), a popular repository for machine learning datasets. In particular, we will be using the "Individual household electric power consumption Data Set" which I have made available on the course web site:

- Dataset: <u>Electric power consumption</u>
 (https://d396qusza40orc.cloudfront.net/exdata%2Fdata%2Fhousehold power consumption.zip)
 [20Mb]
- **Description**: Measurements of electric power consumption in one household with a one-minute sampling rate over a period of almost 4 years. Different electrical quantities and some sub-metering values are available.

The following descriptions of the 9 variables in the dataset are taken from the <u>UCl web site</u> (https://archive.ics.uci.edu/ml/datasets/Individual+household+electric+power+consumption):

- 1. Date: Date in format dd/mm/yyyy
- 2. Time: time in format hh:mm:ss
- 3. Global_active_power: household global minute-averaged active power (in kilowatt)
- 4. Global_reactive_power: household global minute-averaged reactive power (in kilowatt)
- 5. **Voltage**: minute-averaged voltage (in volt)
- 6. Global_intensity: household global minute-averaged current intensity (in ampere)
- Sub_metering_1: energy sub-metering No. 1 (in watt-hour of active energy). It corresponds to the kitchen, containing mainly a dishwasher, an oven and a microwave (hot plates are not electric but gas powered).
- 8. **Sub_metering_2**: energy sub-metering No. 2 (in watt-hour of active energy). It corresponds to the laundry room, containing a washing-machine, a tumble-drier, a refrigerator and a light.
- 9. **Sub_metering_3**: energy sub-metering No. 3 (in watt-hour of active energy). It corresponds to an electric water-heater and an air-conditioner.

Loading the data

When loading the dataset into R, please consider the following:

- The dataset has 2,075,259 rows and 9 columns. First calculate a rough estimate of how much memory the dataset will require in memory before reading into R. Make sure your computer has enough memory (most modern computers should be fine).
- We will only be using data from the dates 2007-02-01 and 2007-02-02. One alternative is to read the data from just those dates rather than reading in the entire dataset and subsetting to those dates.
- You may find it useful to convert the Date and Time variables to Date/Time classes in R using the strptime() and as.Date() functions.
- Note that in this dataset missing values are coded as ?

Making Plots

Our overall goal here is simply to examine how household energy usage varies over a 2-day period in February, 2007. Your task is to reconstruct the following plots below, all of which were constructed using the base plotting system.

First you will need to fork and clone the following GitHub repository: https://github.com/rdpeng/ExData Plotting1 (https://github.com/rdpeng/ExData Plotting1)

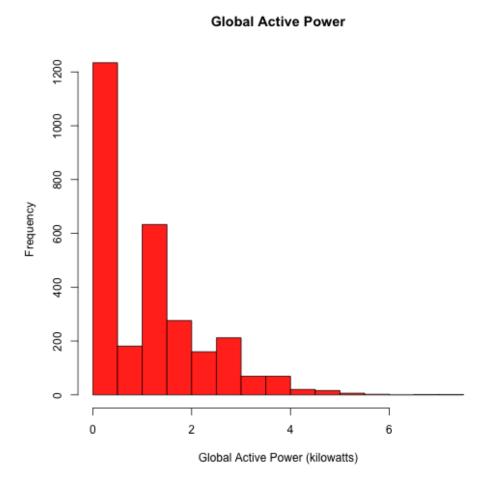
For each plot you should

- Construct the plot and save it to a PNG file with a width of 480 pixels and a height of 480 pixels.
- Name each of the plot files as plot1.png , plot2.png , etc.
- Create a separate R code file (plot1.R, plot2.R, etc.) that constructs the corresponding plot, i.e. code in plot1.R constructs the plot1.png plot. Your code file **should include code for reading** the data so that the plot can be fully reproduced. You should also include the code that creates the PNG file.
- Add the PNG file and R code file to your git repository

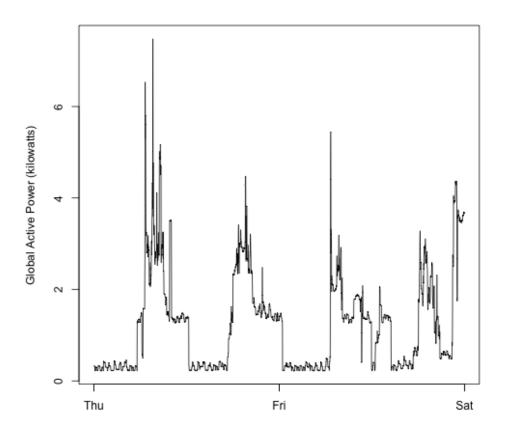
When you are finished with the assignment, push your git repository to GitHub so that the GitHub version of your repository is up to date. There should be four PNG files and four R code files.

The four plots that you will need to construct are shown below.

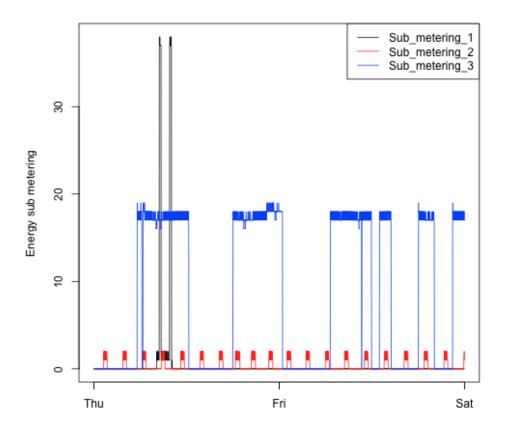
Plot 1



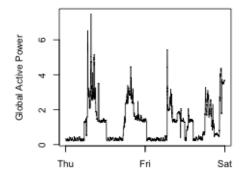
Plot 2

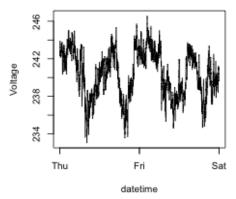


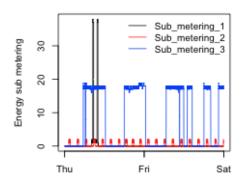
Plot 3

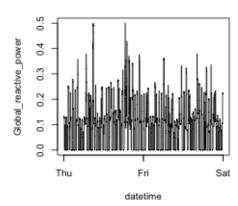


Plot 4

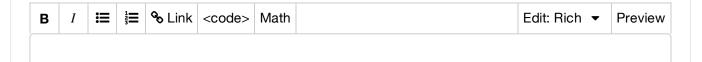








Please submit the URL pointing to your GitHub repository containing the completed R code for this assignment.



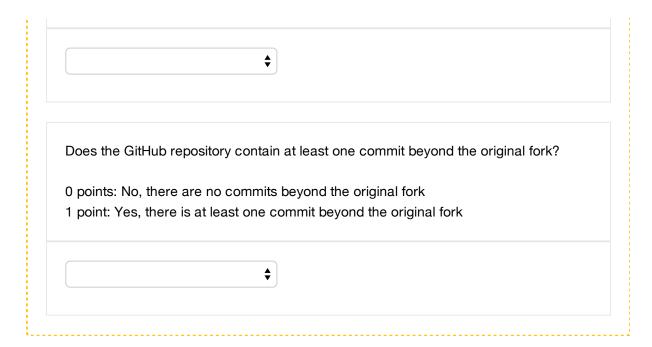
Evaluation/feedback on the above work

Note: this section can only be filled out during the evaluation phase.

Was a valid GitHub URL containing a git repository submitted?

0 points: A valid GitHub URL was NOT submitted (or URL is broken)

1 point: The submitted URL points to a GitHub repository



Overall evaluation/feedback

Note: this section can only be filled out during the evaluation phase.

Please examine the plot files in the GitHub repository. Do the plot files appear to be of the correct graphics file format?

0 points: No, at least one of the files appears to be in the wrong format

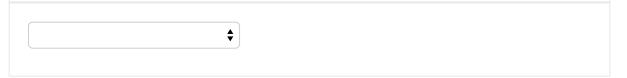
1 point: Yes, all of the files appear to be in the correct format



Please view the image file for Plot 1 from the GitHub repository. Does the plot appear correct?

0 points: No, the plot appears incorrect in at least 1 major discrepancy from the reference plot (e.g. wrong data), or at least 2 minor discrepancies (e.g. x-label is incorrect, title is incorrect), or the plot was not viewable

1 point: The plot is mostly correct with at most one minor discrepancy from the reference plot



_	points : The code does not create the reference plot, or is not viewable/present in pository
1	point: The code is mostly correct, but does not reproduce the reference plot exactly points: The code reproduces the reference plot exactly
	\$
	ease view the image file for Plot 2 from the GitHub repository. Does the plot appear orrect?
plo inc	points : No, the plot appears incorrect in at least 1 major discrepancy from the reference of (e.g. wrong data), or at least 2 minor discrepancies (e.g. x-label is incorrect, title is correct), or the plot was not viewable point : The plot is mostly correct with at most one minor discrepancy from the reference of
	•
	ease evaluate the code for Plot 2, but do not run the code on your computer. Does the ode appear to create the plot reference plot given in the assignment?
	points: The code does not create the reference plot, or is not viewable/present in pository
_	point: The code is mostly correct, but does not reproduce the reference plot exactly points: The code reproduces the reference plot exactly
	♦
	ease view the image file for Plot 3 from the GitHub repository. Does the plot appear orrect?

incorrect), or the plot was not viewable

1 point: The plot is mostly correct with at most one minor discrepancy from the reference

	\(\)
	valuate the code for Plot 3, but do not run the code on your computer. Does the bear to create the plot reference plot given in the assignment?
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1 point:	The code is mostly correct, but does not reproduce the reference plot exactly The code reproduces the reference plot exactly
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correct? O points plot (e.g. incorrec 1 point:	iew the image file for Plot 4 from the GitHub repository. Does the plot appear : No, the plot appears incorrect in at least 1 major discrepancy from the reference wrong data), or at least 2 minor discrepancies (e.g. x-label is incorrect, title is t), or the plot was not viewable The plot is mostly correct with at most one minor discrepancy from the reference
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	You've written 0 words
-	ace to provide constructive feedback to the student who submitted the work.
	oth strengths and weaknesses in the submission and provide advice about how buld be improved in the future.
	You've written 0 words