New Topic Lesson

The purpose of this assignment is to have your group develop a lesson plan on a topic not covered in class but relevant to a data analyst. Some suggested topics are provided below. The requirements for this assignment are that you generate an Rmd file for the lesson and submit both the Rmd file and a compiled pdf. The Rmd file must have

1) Title and authors
2) Introduction
3) Objectives
4) Examples to illustrate the main ideas
5) There must either be a reading(s) or video(s) for the students to review prior to or during the lesson
6) At least three homework questions
7) References

Ideas

Below are some suggestions for lesson topics. You can also go to the CRAN website and look under task views for more ideas, http://cran.r-project.org/web/views/.

1) Data manipulation: dplyr, reshape, plyr, and tidyr
2) Python: Ipython
3) Bayesian Statistics: LearnBayes
4) Text Analysis: tm, koRpus
5) Visualizations: ggplot2
6) Visulizations: ggvis
7) Visulizations: rCharts
8) Webscraping: XML, rvest, httr
9) Big Data:RHadoop MapReduce with R http://www.r-bloggers.com/mapreduce-with-r-on-hadoop-and-amazon-emr/
10) API: twitteR
11) Predictive Analytics: caret

Reviews

You must review the work of two other groups and submit an evaluation form for each review with your final lesson plan. These reviews will be 30% of your grade.