The Data Scientists Toolbox - Week 1 Quiz

Question 1

Which of the following are courses in the Data Science Specialization? Select all that apply.

(i) R programming

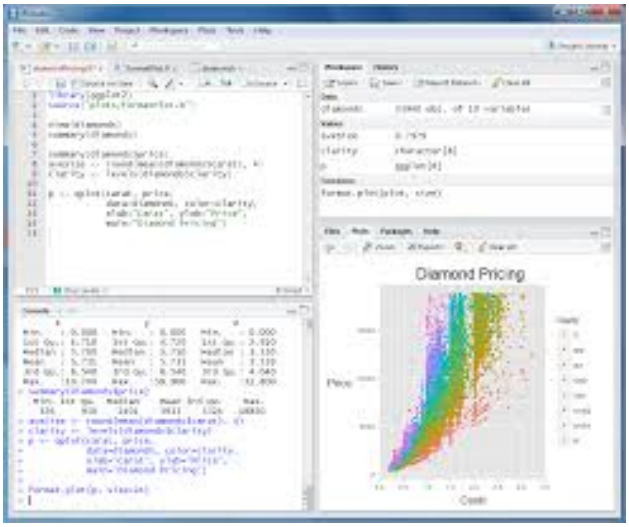
(ii) The Elements of Statistical Learning

(iii) Statistical Inference

(iv) Data Science 101

`https://www.coursera.org/specialization/#jhudatascience`

RStudio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Question 2

Why are we using `R` for the course track? Select all that apply.

(i) `R` is free.

(ii) `R` has a nice IDE, Rstudio.

(iii) `R` allows object oriented programming.

(iv) `R` is the best cloud computing language.

Remark : the fact that R can do something, doesnt mean R was chosen for this course for that reason.

`R Language Definition`
`http://cran.r-project.org/doc/manuals/r-release/R-lang.html`

Resource for Learning R

- Using Help Files (for example `help(sort)`)
- Introduction to R (command `help.start()` - top left of page)
- Stack Overflow (stackoverflow.com)
- Rseek.org
- Using Twitter: `#Rstats`
- www.datacamp.com
- SWIRL

Question 3

What are good ways to find answers to questions in this course track? Select all that apply.

(i) Searching Google.

(ii) Posting homework assignments to mailing lists

(iii) Looking through `R` help files.

(iv) Expecting every answer to be in a lecture slide

Question 4

What are characteristics of good questions on the message boards? Select all that apply.

(i) Is polite and courteous.

(ii) Provides no details.

(iii) Explicitly lists versions of software being used.

(iv) is insulting or rude.

CRAN

- The Comprehensive R Archive Network
- http://cran.r-project.org/

Task views

Question 5

Which of the following packages provides Machine Learning Functionality

(i) ***knitr***

(ii) ***filehash***

(iii) ***gbm***

(iv) ***kernlab***

Optional Exercise

Following from Question 5, search the CRAN package repository to find a package related to each of the following topics.

1. Graphics
2. Biology
3. Archeology
4. Marine or Maritime Sciences
5. Medical Imaging
6. Missing Data
7. Quality Control
8. Social Sciences
9. Text Analytics

Optional Exercise

10 packages every data scientist should know