ml

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1. Entry test - DSC 305 "Machine Learning"

1.1. README

We're going to use the statistical programming language R in this course. Some proficiency with R is assumed though we'll review the basics at the start.

If you're new to R, I suggest you complete the (free) "Introduction to R" course on the DataCamp platform - this will take about 4 hours of your time. The course is free - you only have to register with DataCamp (please use your Lyon email for that).

This entry test covers some of the basics:

1. R data structures
2. Managing data with R
3. Exploring and understanding data using R

To work through the test, open this notebook in Google Colaboratory[1] and answer the questions by adding code in the code blocks and running them one by one as shown in this figure.

Alternatively, you can work through this Org-mode file using Emacs.

1.2. R data structures

1. Create a vector named `subject_name` to store three patient names, John Doe, Jane Doe, and Steve Graves.

```
...
```

2. Display the content of `subject_name` in five different ways (you should know at least two ways to do this).

```
...
```

```
Error: '...' used in an incorrect context
```

3. What type of vector is `subject_name`?

```
...
```

```
Error: '...' used in an incorrect context
```

Footnotes:

[1] If you want to start a new R notebook in Google Colaboratory, you need to enter `https://colab.to/r`. For an explanation on how to use Python + R in this environment, see here. In the course, we're going to do literate programming with GNU Emacs + ESS + Org-mode instead. Colaboratory, RStudio, or DataCamp workspace are all alternative IDEs. However, none of them give us the freedom and control that Emacs gives us.

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