R buddy – Homework assignment Regulations

KSL (477757), GitHub, ILIAS

Write a small summary about a selected topic from the course using Rmarkdown.

Example topics (Please feel very free to choose a topic yourself!):

- Explore and explain the use of a certain package discussed during the course
  - a package you considered for your analysis
  - tidyverse
- A small tutorial/ cheatsheet about a coding practice
  - data wrangling
  - data exploration
- A summary about a current topic in programming for ecology
  - reproducible coding
  - code style
  - version control with git
- Improve a script that is important for you (e.g one that you will use possibly again)
  - Comment it
  - Give it a nice structure
  - Provide data, make it reproducible
- A summary about a method of data analysis used ecology, e.g
  - Linear modelling
  - Mixed modelling
  - PCA
- A small tutorial of a plotting practice
  - How to change colours
  - How to combine multiple plots
  - How to plot interactions

Aim

Deepen your understanding about a given topic, and practice clean coding in Rmarkdown.

Procedure

Propose a topic, fix it together with course organisers.
Hand-in (date to be fixed each semester), final decision by the course organisers + entering to KSL.
Questions to the course organisers are possible and welcome in all stages.

Examination scheme

Participant Name :
Hand-in date :
Main Corrector Name :

Topic	**Requirement**	**Achieved** (1 Point each)
Course participation	Participated all sessions of the course.*	
Report content	The topic is explained in a consistent and understandable way. (2 Points)	
	The language is accessible and concise.	
Hand in script requirements	hand-in the data the script relies on	
Rmarkdown	minimum 1 text field	
	minimum 1 code chunk	
	minimum 1 plot	
	use sections and subsections	
clean coding	use indenting meaningfully (no long lines)	
	Apply tidyverse style guide (or show intention to do so)	
	comment code meaningfully	
	write a header containing of : Author, date, aim of the script and requirements/ dependencies	
	load all required R packages at the beginning of the script	
	read all required datasets at the beginning of the script	
Document structure	References at the end of the script	
Additional	use relative file paths	
	apply minimum 1 test	
	use meaningful variable names	
Total points	20 maximum, Pass with 60% (12 points, incl. Participation)	

**A participation is necessary to pass the course, it's possible to miss one of the sessions if excused (via email to one of the organisers). Please discuss with us if you need a special agreement.*

Course evaluation : pass fail