



R buddy – Homework assignment Regulations

[KSL](#) (477757), [GitHub](#), [Ilias](#)

You have two options :

- **oral presentation** in the last session, using [Rmarkdown](#) (e.g. ioslides) or [Quarto slides](#)
 - ~ 10 min, 5 slides
- **written assignment** using [Rmarkdown](#)
 - around 100 lines in Rmarkdown (including text, code and header)

A small summary about a selected topic from the course.

Example topics (Please feel very free to chose 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.

Latest date for hand-in : 28.06.23

Correction and decision within 2 weeks

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 3 sessions of the course.*	
Report content	The topic is explained in a consistent and understandable way. (2 Points) (oral : as good as you can in English)	
	The language is accessible and concise. (oral : focus on simple explanation)	
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	
Document structure	References at the end of the script/ presentation	
clean coding only for written assignment	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	
Additional only for written assignment	use relative file paths	
	apply minimum 1 test	
	use meaningful variable names	
Additional only for presentation	Add an external image	
	Add a footer	
	Add an image to the footer	
Total points	16 (written) and 10 (oral) maximum, Pass with 60% (10 (written) and 6 (oral) points, incl. Participation)	

*A participation is necessary to pass the course, it's possible to miss one of the 3 sessions if excused (via email to one of the organisers). Please discuss with us if you need a special agreement.

Course evaluation : pass fail