\square absolutely

□ not really because: _

Code Evaluation questionnaire

this document aims to provide a guideline how to evaluate (R) code in my course

Please note: not all item might be applicable - please cross-out any non-relevant part. 1. Informative naming of the file(s)/package/commands? \square absolutely □ not really because: □ Meta-Information 2. Meta-information does exist? \square Yes □ No 3. Authors name: _ 4. Contact details are provided (email, URL, git)? \square Yes □ No 5. Date of development is listed? 6. Main purpose of the analysis is explained? \square yes □ not really because: _ 7. Needed input is defined?(format incl. which information are requirede.g. shp with column of type x and content of y) \square yes □ not really because: ___ **8. Output is defined?** (incl. explanations, format etc.) \square yes □ not really because: __ 9. R version used and R packages needed are listed? \square yes \square not really because: \square 10. Operating system used is listed or on which one it has been tested? \square yes \square no 11. Required other software is explained? □ yes □ not really because: ___ 12. Informative header is well formatted? □ yes □ not really because: _ 13. All necessary details are provided? □ Yes, I understand its aim and needed input □ No, I need to check the script carefully \square just some parts are provided. 14. What do you think until now what the output/results will be? Describe it briefly before checking the actual script: **Actual Code for the Analysis 15.** Data import is generic? (no full paths, direct import possible) yes □—□—□—□ no 16. Well commented? horrible $\Box - \Box - \Box - \Box$ fantastic remarks: 17. Ratio of Comments vs. Code is adequate? horrible $\square \square \square \square \square \square \square \square \square$ fantastic 18. Easy to read? (appropriate indentation and spacing) horrible \(--- --- --- \) fantastic 19. The script is written for generic data analysis? \square absolutely \square not really because: 20. Does the code require a rigid data structure? (e.g. specific column names in data frame) \square absolutely \square no, quite flexible 21. Is the code flexible? (i.e allows inputs of different data types) \square absolutely □ not really because: _ 22. Data can be retrieved without contacting the author?

23.	Code follows a logical structure? absolutely not really because:					
24.	. Analysis only includes relevant codes? (no code output which is not used afterwards) □ absolutely □ not really because:					
25.	Are the derived variables self-explanatory? (e.g. through clear variable names and/or comments) absolutely not really because:					
26.	A standard documentation structure/naming convention is applied? □ absolutely □ not really because:					
27.	The analysis can be run easily on other data sets? (generic code) □ absolutely □ not really because:					
28.	Appropriate use of commands - no unnecessary complex code snippets?					
29.	. (If a function) is provided: are example code/data provided/explained? absolutely not really because:					
30.	Does the code minimize the storage of data? (e.g. removal of unused variables) □ yes □ no					
	Does the code minimize the use of RAM?(e.g. appropriate subsetting, no re-reading data) □ yes □ no					
32.	Data handling and transformation is coherent and well commented? yes ————— no					
	3. Novel code not covered in the course is used? a lot \(\bullet - \bullet - \bullet - \bullet \) just known commands					
	Script is actually a package? yes no					
	Proper documentation (manual pages) is provided for this package? yes no					
	Impression					
	The script triggered interest and you learned new things? yes, a lot ————— no, not a bit					
	Please describe what was special/interesting:					
38.	Script is fast (based on performance measures) yes —————— no					
	The code can be executed without any fixes? absolutely not really because:					
	Which parts should be improved?					
41.	What is missing?					
Gra	phs and Maps					
42.	Graphs or Maps are providing key messages? □ absolutely □ not really because:					
	Plots/Maps are are self-explanatory? absolutely not really because:					
	Plots/maps are informative? yes ———————————————————————————————————					
	Graphs include all necessary items? (legend, axis title etc.)					
40.	□ absolutely □ not really because:					

40	D1 4 /	4 1 1 19 1		11 1 1			
	6. Plots/maps are not overloaded? yes, clean ——————— no, totally cluttered 7. Plots/maps layout is consistent through out the script?						
47.	7. Plots/maps layout is consistent through-out the script?						
48. Plots/maps have appropriate colour scheme? □ absolutely □ not really becaus							
	, -	le bars, legend, coordinates? \Box absolu	v	not really because:			
	Maps include	landmarks, cities, roads for orientatio □ not really because:	•	_			
Ove	erall Impress	sion					
Pleas	e evaluate the fo	ollowing parts					
	Readability	horrible \square — \square — \square fantastic					
	Information	horrible —————— fantastic					
	Structure	horrible —————— fantastic					
	Innovation	horrible —————— fantastic					
55.	Do you think	it qualifies for being scientifically repr	oducible?				
	\square yes						
	□ no						
	\square needs some r	more work:					
56.		ally worth the effort for you to check Probably not. Don't know.	it out?				
57	☐ Yes, totally.	interested to use this script for your	analysis?				
91.	would you be	interested to use this script for your		yes, would love to			
				no, not really anything I			
				couldn't do myself			
				yes, definitely parts of it.			
				No clue what is does. I just			
F0	Dlagge decemb	!		can't figure it out.			
58.	Please describ	e your impression:					
59.		ck your anticipated results/output (Q and if no, why not:	14) at th	e beginning - are your expec-			
60.	What do you	especially like about this script:					

61.	31. What do you especially <u>dislike</u> about this script:				

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 $code\ quality\ check$ - question naire