

# 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 to the code you review - please cross-out any non-relevant part.*

1. Informative naming of the script? ☐ absolutely ☐ not really because: \_\_\_\_\_

## Script Meta-Information

2. Some information is provided at top of the script? ☐ Yes ☐ No
3. Authors name: \_\_\_\_\_
4. Contact details are provided (email, url, git)? ☐ Yes ☐ No
5. Date of development is listed? ☐ Yes ☐ No
6. Main purpose of the script is explained? ☐ yes ☐ not really because: \_\_\_\_\_
7. Needed input is defined? ☐ yes ☐ not really because: \_\_\_\_\_
8. Output is defined? ☐ yes ☐ not really because: \_\_\_\_\_
9. R version and R packages needed are listed? ☐ yes ☐ not really because: \_\_\_\_\_
10. Required other software is explained? ☐ yes ☐ not really because: \_\_\_\_\_
11. Informative header is well formatted? ☐ yes ☐ not really because: \_\_\_\_\_
12. All necessary details provided?
- ☐ Yes, I understand its aim and needed input
  - ☐ No, I need to check the script carefully
  - ☐ just some parts are provided.
13. What do you think until now what the output/results will be? Describe it briefly before checking the actual script:

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## Actual Code for the Analysis

14. Well commented? horrible ☐—☐—☐—☐—☐ fantastic  
remarks: \_\_\_\_\_
15. Ratio of Comments vs. Code? horrible ☐—☐—☐—☐—☐ fantastic
16. The code can be redone without any fixes? ☐ absolutely ☐ not really because: \_\_\_\_\_
17. Data can be retrieved without contacting the author? ☐ absolutely ☐ not really because: \_\_\_\_\_
18. Data import is generic (no full paths, direct import possible)? yes ☐—☐—☐—☐—☐ no
19. Code follows a logical structure? ☐ absolutely ☐ not really because: \_\_\_\_\_
20. Code only includes useful information? ☐ absolutely ☐ not really because: \_\_\_\_\_
21. Script can be run easily on other data sets (generic code)? ☐ absolutely ☐ not really because: \_\_\_\_\_
22. Appropriate use of commands - no unnecessary detours? ☐ absolutely ☐ not really because: \_\_\_\_\_
23. Novel code not covered in the course is used? a lot ☐—☐—☐—☐—☐ just known commands

24a. The script triggered interest and you learned new things?    yes, a lot ☐—☐—☐—☐—☐ no, not a bit

24b. Please describe what was special/interesting:

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25a. Script is fast (based on performance measures)    yes ☐—☐—☐—☐—☐ no

25b. Which parts should be improved?

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26a. Data handling and transformation is coherent and well commented?    yes ☐—☐—☐—☐—☐ no

26b. What is missing?

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## Graphs and Maps

27. Graphs or Maps are providing key messages?    ☐ absolutely    ☐ not really because: \_\_\_\_\_

28. Plots/Maps are self-explanatory?    ☐ absolutely    ☐ not really because: \_\_\_\_\_

29. Graphs or Maps include all necessary items?    ☐ absolutely    ☐ not really because: \_\_\_\_\_

30. Plots/maps are not overloaded?    yes, clean ☐—☐—☐—☐—☐ no, totally cluttered

31. Plots/maps are informative?    yes ☐—☐—☐—☐—☐ no

32. Plots/maps layout is consistent?    ☐ absolutely    ☐ not really because: \_\_\_\_\_

33. Plots/maps have appropriate colour scheme?    ☐ absolutely    ☐ not really because: \_\_\_\_\_

34. Maps have scale bars, legend, coordinates?    ☐ absolutely    ☐ not really because: \_\_\_\_\_

35. Maps include landmarks, cities, roads for orientation?    ☐ absolutely    ☐ not really because: \_\_\_\_\_

## Overall Impression

Please evaluate the following parts

36. Readability    horrible ☐—☐—☐—☐—☐ fantastic

37. Information    horrible ☐—☐—☐—☐—☐ fantastic

38. Aim    horrible ☐—☐—☐—☐—☐ fantastic

39. Do you think it qualifies for being scientifically reproducible?

☐ yes

☐ no

☐ needs some more work

☐ details: \_\_\_\_\_

40. Is the script really worth the effort?    ☐ Yes, totally.    ☐ Probably not.    ☐ Don't know.

41. Would you be interested to use this script for your analysis?

☐ yes, would love to

☐ No clue. I just can't figure it out. So sorry.

☐ yes, definitely parts of it.

42. Please describe your impression.

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43. When you check your anticipated results/output (Q 13) at the beginning - where you expectations met? and if no, why not:

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44. What do you especially like about this script:

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45. What do you especially dislike about this script:

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