Assessing Work Reproducibility[1]

Data

- ☐ *Are the data publically available? If not all, can a summary of them be made publically available?*
- ☐ *Are they in a format easily accessible by open source software libraries?*
- ☐ *Do they have a license that permits broad use?*
- ☐ *Are they permanent, or do they have versions?*
- ☐ *For how long can they be stored at their current location?*

Software

- ☐ *Is your software publicly available?*
- ☐ *Is your software under version control?*
- ☐ *Can your software run on different operating systems?*
- ☐ *Is it easy to install all the dependencies for your software?*
- ☐ *If not, can you provide the users with a pre-built environment?*
- ☐ *Does your software have a license?*
- ☐ *Does your software use other softwares: are their licenses compatible with yours?*
- ☐ *Do you have a way to test whether adding new code features or library updates preserve the software's functionality?*

Documentation & Results

- ☐ *Do you provide instructions on how to install the software? Are the versions of the dependencies provided?*
- ☐ *Do you provide examples of how to use the software?*
- ☐ *Can a user run the examples?*
- ☐ *Do you describe how the data was collected?*
- ☐ *Do you have a document providing information for obtaining both the software and the data to generate the results?*
- ☐ *If so, does that document have associated copyright?*
- ☐ *Is it going to be available in 1 year?*
- ☐ *Can a user regenerate the results? If not all of them, maybe a subset?*
- ☐ *Is the procedure for generating all of the results automated?*
- ☐ *Are the results stochastic? Is it indicated somewhere?*
- ☐ *Are some of the steps requiring manual input? Is there a description of how it was done?*

Summarize:

- ➢ *What are the major challenges of making your entire work reproducible?*
- ➢ *What tools/approaches have you already used to make some of your work more reproducible?*
- ➢ *What simple steps can you make to improve the reproducibility of your work?*

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[1] This questionnaire is based on "Assessing Reproducibility", by A. Rokem, B. Marwick, V. Staneva