schedule day 1

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10/25/2018

09:15-10:00: Open science: the what and why.

Introduction of each participant: 1min for name, institute, reason to do science (card)

From ethical values collected -> science should be collaborative, transparent and inclusive -> open science

what is open science. What is open data, who ask for it

workshop outline, code of conduct, technical questions, link to collaborative notes (hack.md)

10:00-10:45

Open collaboration. open source project. Linux

Introduction to github: get you page ready in the website. Presentation of the website, front and back

step 0: login step 1: change the yml page, pull request it. step 2: add picture, modify yml step 3: add your page (create new file), write shortly what your experiment is about. sep 4: access to the repo (admin rights)

- blogdown created
- goal: get all output of workshop there, it will be yours!

10:45-11:00

BREAK

11:00-11:45

Introduction: video, overview RDM

Open Data I (raw data) Keynote presentation: 1_0_rawdata exercise with all participants (explain the data flow) exercice in group of 3 (explain the data flow)

output: 2 sentences summary

11:45-12:30

Open Data II (spreadsheets)

Keynote presentation: 1_1_spreadsheets exercise with all participants (create one spreadsheet) exercice in group of 3 (create one spreadsheet)

output: one spreadsheet design # goodtables.io , openrefine

12:30-13:30

LUNCH

13:30-14:15

Open Data III (FAIR data)

Keynote presentation: 1_2_fairdata exercice in group of 3 (Folder organisation) exercice in group of 3 (file naming)

Output: master file explaining naming and organisation

14:15-15:00

Open Data IV (open data)

Keynote presentation: 1_3_open_fairdata exercise with all participants individual exercice (DMP)

Output: a data management plan

15:00-15:15

BREAK

15:15-16:00

version control

Keynote presentation: gitbasics.html exercise: clone the repository, add the DMP, link in your page, git commit, git push, pull request and accept pull request.

16:00-16:45

Day review/discussion: elevator pitch each participant (with summary of data flow) Q and A

DAY 2

09:15-10:00: Reproduciblity (Intro)

- Good scientific practice: the official side with recap first day, (GSP.html) **cards**

output: what to do if you see misconduct?

- What is reproducibility: **open question** presentatation_d2.html

10:00-10:45 Reproducible research and data analysis I (exp. design)

Experimental design and p-hacking (keynote: 2_1_expdesign)

10:45-11:00

BREAK

11:00-11:45 Reproducible research and data analysis II (comment)

reproducibleanalysis_intro.html 15 min

duty: get some data and produce a graph, with all documentation survey data, plot gender in x, age at start of PhD in y: use excel or R: you have 10 min

check the documentation with other group members: 5-10 min.

Let's do it with R: 15 min

11:45-12:30 Reproducible research and data analysis II (your data)

Let's look at your data and data analysis, and do some R (or python)

12:30-13:30

LUNCH

13:30-14:15 Open Publishing (open access and licensing)

open questions What do you know ? presentation (not ready yet)

free to read versus free to reuse: licensing colors of open access

add a license to your part of the website, change readme file accordingly.

14:15-15:00 Reproducible reports I (material and methods)

PID for everything ! open materials: RRID, MGI numbers open methods and protocols.io (+ versioning) this info must be in metadata of each experiment !!!

Key reagent table (elife)

If not done on first day, version control part comes here instead of exercices.

15:00-15:15 BREAK

15:15-16:00 Reproducible reports II (Rmarkdown)

Create a Rmarkdown file: material and methods, protocols, data analysis, results, figures add it to the website. add a blogpost to the website to say it worked !

16:00-16:45 Day review/discussion

Open source and leadership (Public engagement / Open Communities) documents to add Collaboration with issues open leadership (mozilla)

citizen science open science example Mozilla community GOSH)

Look at each people summary, get feedback, make changes if needed. Give the website admin rights away, publish via netify ?