

XUG / Season 02 opening

Matthieu Simonin

November 7th 2019

XUG ?

- Mostly people from the D1¹ departement for now
- Gather experimenters
 - ▶ (distributed) system experiments (e.g users of Grid'5000, other testbeds)
 - ▶ simulation + model validation (e.g users of Simgrid, Igrida)
- Discussions around practices towards better reproducible evaluations
 - ▶ We have a web site:
<https://xug.gitlabpages.inria.fr/meetings/>
 - ▶ Announce are made by emails

¹D1-Day Nov. 29

Reproducible evaluations ?

ACM definition²:

- **Repeatability**: Can someone in my team use my artifact using the exact same experimental setup and get similar results ?
e.g., I (or my teammates) can repeat my own experiment on the same Grid'5000 machines.
- **Replicability**: Can someone else from another team on another location use my artifact and get similar results ?
e.g., Can my friend using another testbed than Grid'5000 redo my experiment and
- **Reproducibility**:
Can someone else build her own artifact (from the information of the paper), use her own platform and get similar results ?

²<https://www.acm.org/publications/policies/artifact-review-badging>

Reproducibility evaluations ?

ACM definition³:

- Space dimension (ACM is providing badges at a given point in time)
- What about the time dimension: Will it be possible to redo (repeat/replicate/reproduce) an experiment in 10 years ?

→ this is though !

³<https://www.acm.org/publications/policies/artifact-review-badging>

What has been done last year 1/3

Typical session

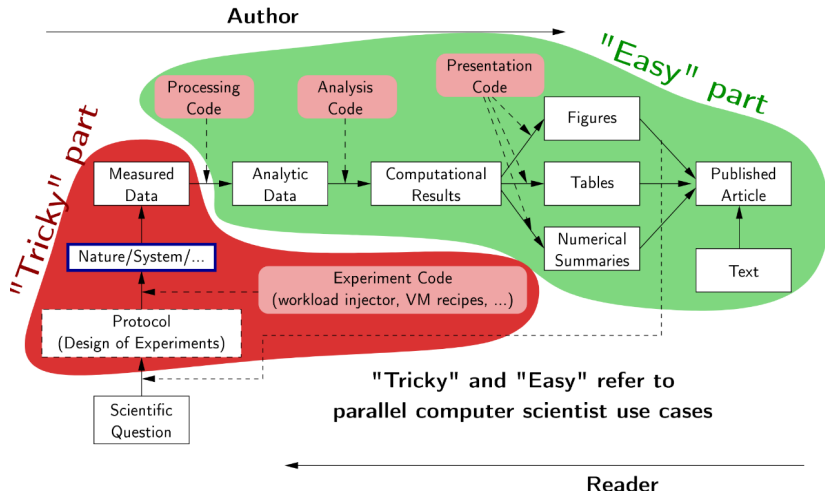
- Someone presents something ...
 - ▶ could be a feedback on an experimental campaign
 - ▶ could be an on-going work (not finished experimental campaign)
 - ▶ could be a plan for an experimental campaign
- ... while the other attendee initiate
 - ▶ questions
 - ▶ exchanges about the tooling and good practices

What has been done last year 2/3

- 6 sessions (6 months)
 - ▶ quick summary on <https://xug.gitlabpages.inria.fr/meetings/>
- Two tutorial sessions:
 - ▶ Grid'5000 for beginner (Getting Started)
 - ▶ Nix tutorial: management of replicable software environment

What has been done last year 3/3

- We use this picture as a common basis for our discussion⁴



Inspired by Roger D. Peng's lecture on reproducible research. May 2014

⁴ https://github.com/alegrand/SMPE/blob/master/lectures/1_reproducible_research.pdf

What do we plan for this year ?

- Presentations
 - ▶ volunteers ?
- Tutorials
 - ▶ specific needs ?
- State of the art discussion
 - ▶ paper selection ?
- Other Ideas ?
 - ▶ ...

Misc information

There's a new forum <https://reproducible-research.inria.fr/>