POIR 613: Computational Social Science

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Course website: pablobarbera.com/POIR613/

Software we will use in the course

- ► R 3.6.1 Install from https://www.r-project.org/
- RStudio Install from https://www.rstudio.com/products/rstudio/download-server/
- ► GitHub Desktop Install from https://desktop.github.com/

Introduction to Git/GitHub

Git is a type of version control.

- System that keeps records of your changes: helps track who made changes when
- Distributed (entire code and history on each machine) –
 Allows for collaborative development
- Possibility of reverting any changes and go back to previous state
- Git: created by Linus Torvald in 2005 to facilitate Linux kernel development
- Other options: Mercurial, Subversion
- GitHub allows you to host repositories and adds extra functionalities (UI, documentation, issues, user profiles...)

Basic concepts of git

- Code lives in a repository: collection of all files (and history)
- Every time you make changes, you need to make a commit:
 - Creates a snapshot of your code.
 - Informs how files have changes
 - You need to add a message explaining changes
- ► After you commit, you need to push the changes to the repository on GitHub so that others can see them
- Note − you also need to pull first to receive changes from other people
- When you start from a repository someone created, you will have to first fork it (create a copy on GitHub) and then clone it (download) to your computer

Our first assignment with GitHub Classroom

- Access the GitHub classroom for challenge 0 through: https://classroom.github.com/a/KGpWHEQ2 and accept the assignment
- 2. This will create your own version of the repository
- 3. Clone it using GitHub desktop
- 4. Write your personal information in information.md, commit the file and push the changes.
- 5. Fix the RMarkdown file RMarkdown-practice.Rmd so that it can be compiled. Commit and push this change.