1. Modeling COVID-19 scenarios for the United States

link to article : https://www.nature.com/articles/s41591-020-1132-9#data-availability:

- free access to code (very complex)
- have all the needed data
- suggest we reproduce the same study for switzerland
- out a shiny platform: interactive with graph smt like https://www.covid19.admin.ch/en/epidemiologic/case
- article doesn't discuss tests but we can integrate them using data: https://www.covid19.admin.ch/en/epidemiologic/test
- maybe do some forecasting and look at the different scenarios, if we learnt anything at how we handle the crisis ..

2. Covid-19 and pneumonia deaths(presented in first exercice session): -https://data.cdc.gov/NCHS/Provisional-COVID-19-Deaths-by-Place-of-Death-and-/4va6-ph5s

3. This case surveillance public use dataset has 12 elements for all COVID-19 cases shared with CDC and includes demographics, any exposure history, disease severity indicators and outcomes, presence of any underlying medical conditions and risk behaviors, and no geographic data.
    - Covid with a data set contain more info: gender, age, race …
    - https://data.cdc.gov/Case-Surveillance/COVID-19-Case-Surveillance-Public-Use-Data/vbim-akqf
    - about the US
    - **Huge** dataset more than 29 800 000 points
    - although the data is very specific, not sure of the results we can get/ subjects that might be relevant
    - Updata : dataset full of Unknown or missing values

If so I suggest no more than 4-5 weeks than we can move to another project:

To handle Git and overleaf

- https://www.overleaf.com/learn/how-to/How_do_I_connect_an_Overleaf_project_with_a_repo_on_GitHub%2C_GitLab_or_BitBucket%3F
- not free, 15 fr a month

To handle R and Git :
-https://www.youtube.com/watch?v=E2d91v1Twcc&ab_channel=JamesDayhuff