Instructions for the Programming Project

The aim of the project is to download and visualize/summarize some data using Python, Pandas, and Matplotlib, in teams of two. You are free to choose the data that you want to work with; some ideas are CoViD as used in class, financial data from Yahoo Finance (there are packages for interfacing Python with it), CO2 and climate change, macroeconomics, etc.

The end result should be a nice report containing some plots, maybe some other analysis, and a verbal description of the results. The report can be written using Word or LATEX (this file uses the latter), or as a Jupyter notebook. There is no explicit page or word limit, just be reasonable. The deadline for handing in the report is May 31st, 11:59pm.

As for grading, here are some of the things that I will reward:

- If you choose to use a Jupyter notebook: using MarkDown to format text.

- If you choose to use a Jupyter notebook: having some of the code in functions inside a module (.py file) and importing them into the notebook.

- Collaborating using git and hosting the analysis on Github.

- Combining data from different sources.

- Transforming the data in some way (e.g., moving averages).

- Pretty graphs (labels, titles, line styles, colors etc.) Don't forget to mention the data sources if not obvious from the code.

- In general, a well-written report with an interesting analysis.

This does *not* mean that you have to do all of the above. The last section of the report should be a reflection on your work. Which problems did you encounter and how did you solve them? What was easy, what was hard? How would you rate the end result?
Best of luck!