Individual Project

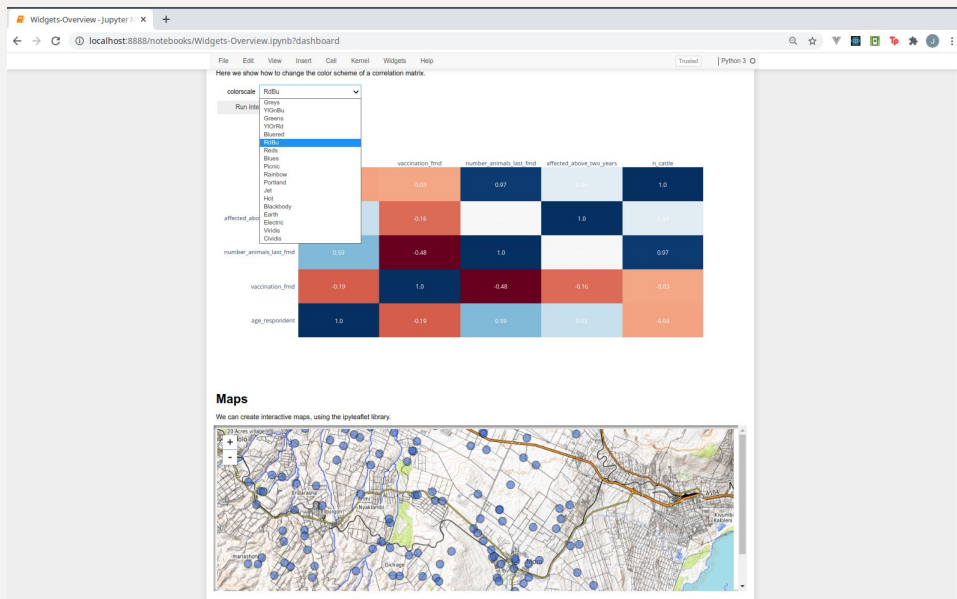codeop

Calendar

Classes	Objective
1	- Project introduction - Demo session in Python *(build a data story/ provide insights)* Choose dataset
2-4	Continue working on solo project
5 *Thursday 27th June*	Share the solo Project

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Visualizations in Data Science

- Visualisations help to quickly convert and communicate complex data into meaningful visualizations, revealing key indicators

- Dashboards are considered a form of data visualization
  - Unlike static reports, they are interactive and can be linked to data sources

- There are Python visualisation packages that also allow for visuals to become interactive

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What about Python

You can turn your jupyter notebooks into an interactive dashboard, using IPython widgets.

https://github.com/CodeOp-tech/dashboards.git

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Dataset Pool

- Netflix audience behaviour: UK movies
- Significant earthquakes dataset : 1965-2016
- Unemployment, by gender in the city of Barcelona (Spanish)
- Domestic violence by province, gender, nationality and age in Spain (Spanish)
- Livestock production in the world
- Marketing data: customer profiles
- Top Open Source Projects on Github

https://datoscontraelruido.org/genderdatalab/
http://www.fao.org/faostat/en/#data/QA/visualize
https://www.kaggle.com/

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Project Steps

1. Choose dataset (today)
2. Prepare dataset (e.g.: cleaning, pre-processing)
3. Exploratory data analysis
4. Decide what to include for your data story
5. Prepare presentation
6. Presentation: share your learnings/insights

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References

- https://dataschool.com/how-to-design-a-dashboard/dashboard-design-process/
- https://jupyter-dashboards-layout.readthedocs.io/en/latest/using.html
- https://www.matillion.com/resources/blog/dashboard-examples-the-good-the-bad-and-the-ugly
- https://ipywidgets.readthedocs.io/en/stable/user_guide.html
- https://ipyleaflet.readthedocs.io/en/latest/
- https://towardsdatascience.com/interactive-controls-for-jupyter-notebooks-f5c94829aee6
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- https://github.com/CodeOp-tech/dashboards.git

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