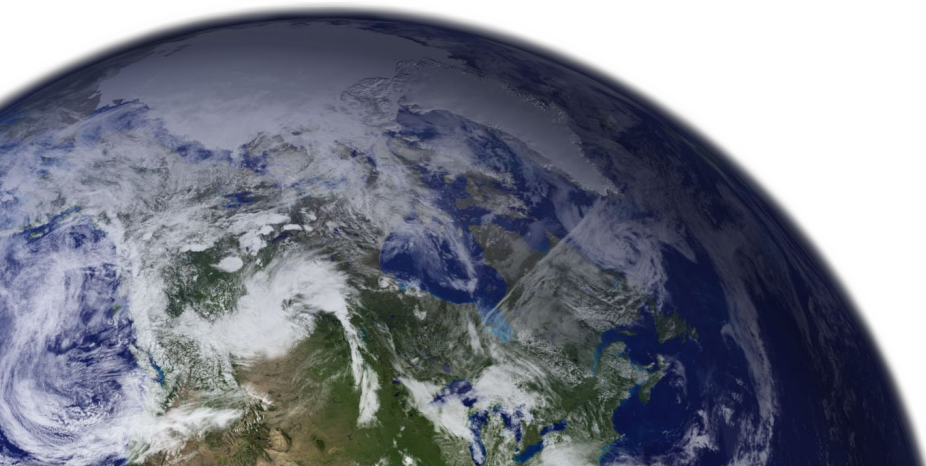


# The Hitchhiker's Guide to the DSL labs

...and how to survive them



# The journey

A total of 10 laboratories

- Intro to Python, Sentiment Analysis, Association rules mining, Numpy & KNN, Data exploration & Pandas, **Classification**, **Regression**, Clustering & KMeans

Typically, they require more than 3 hours

- **start early**

Organized in multi-point exercises

- some have optional, more complex requests

Keep your code organized

- Organized stuff is easy to reuse

# How should I write 🐍 code?

## Local development

### Jupyter Lab - or *Notebooks*

- Enjoy mixing text and code
- Programs runs in independent cells - convenient
- And very easy to get messy - less convenient
- Quick prototyping, short analysis, or writing reports
- *Very suited for your laboratories :)*



### Visual Studio Code - or *Python scripts*

- Complete and sufficiently fast IDE
- A lot of third-party extension that gets your life easier
- Strong community and frequent updates
- Use it for more complex projects, where code is structured in files



### Vim - or *if you like hardcore*



# How should I write 🐍 code?

## Remote development

Your scripts are stored online, computational resources are provided for free.  
Code is easily shareable

### Google Colab - or *Notebooks by Google*

- Offline collaboration
- Free access to GPU (won't be needed for DSL)
- Established to share research results



### Deepnote - or *the Advanced Notebooks*

- Real time collaboration 🧠
- Tons of additional functionalities
- Still in beta, but with frequent updates



# Wrapping up

## Do the laboratories

- It helps you to build up routines and good habits
- Use our solutions only as confirmation

## Try to stay up to date

- Stay behind only if needed, we won't always have time to take care past labs

Seriously, [do the labs...](#)

... and if everything goes wrong, ask on [Discord](#)

- We have a community exactly for that

