UNICAES Python Workshop - 2022-09-01

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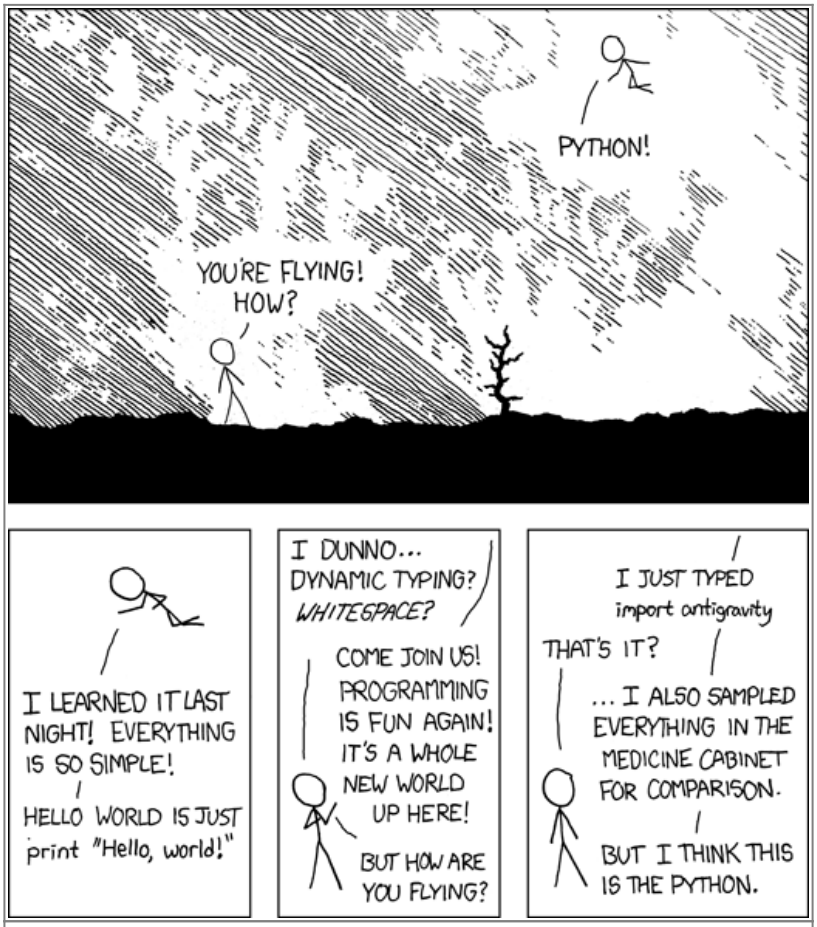

Fig.: **Import antigravity**.
Source: https://xkcd.com/353/

Fig.: Great audience! 🙂

Preparation

- Install the **Anaconda Python Data Science Suite**
- Download **unicaes_ws_v002.zip** containing the workshop Python code

Code Snippets to Handle the Conda Environment

This code is to be executed in a terminal. I extended the list of software packages to be installed to run all provided workshop examples. Mac and Linux users just open a standard terminal. On Windows open the Anaconda Powershell prompt.
Execute the following code:

```
# create conda environment including installation of all necessary packages
conda create -c conda-forge -n unicaes jupyterlab ipywidgets numpy pandas
scipy scikit-learn matplotlib plotly seaborn

# activate conda environment
conda activate unicaes

# start Jupyter-Lab (<Ctrl>-C in the terminal to exit jupyter-lab)
jupyter-lab

# leave conda envoronment and change to the base (default) environment
conda deactivate

# remove environment (in case you want to delete it)
# conda env remove -n unicaes
```

Video Recordings (unfortunately with very bad sound quality)

- Part 1: https://youtu.be/3x-HB5OIHwg
- Part 2: https://youtu.be/eLAwMHvp8EE

Additional Information

- Python tutorial from CS231n: Deep Learning for Computer Vision Course at Stanford
- CS231n Github Repo