

UNICAES Python Workshop - 2022-09-01

Workshop by Clein Sarmiento and Rolf Becker from HSRW on 2022-09-01

About HSRW



Fig.: Great audience! 😊

Import Antigravity

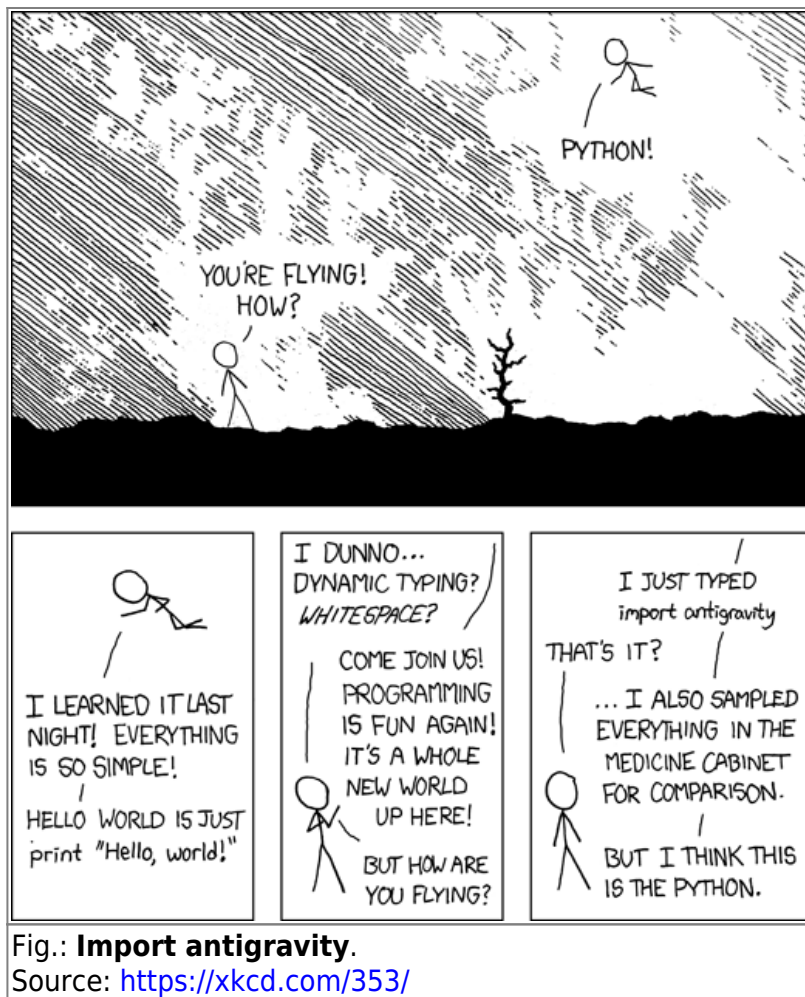


Fig.: **Import antigravity.**
Source: <https://xkcd.com/353/>

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 environment and change to the base (default) environment
conda deactivate

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

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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](#)

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