UNICAES Python Workshop - 2022-09-01

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

About HSRW



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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
```

```
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```

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
```

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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

From: https://student-wiki.eolab.de/ - HSRW EOLab Students Wiki

Permanent link: https://student-wiki.eolab.de/doku.php?id=latinet:unicaes:start&rev=1665224389



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