ULSA Python Workshop - 2022-09-09

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

Preparation

- Install the **Anaconda Python Data Science Suite**
- Download
  ulsa_ws_v003.zip
  containing the workshop Python code
- Download
  nicaragua_geothermal_scraper_v001.zip

Impressions



Video

Student workshop at ULSA with Clein and Rolf, 2022-09-09

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 ulsa python=3 jupyterlab ipywidgets numpy
pandas scipy scikit-learn matplotlib plotly seaborn

# activate conda environment
conda activate ulsa

# other packages: web scraper
conda install -c conda-forge beautifulsoup4

# other packages: web dashboards with dash/plotly
conda install -c conda-forge jupyter-dash dash dash-core-components dash-
html-components

# 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 ulsa
```

Further Github Links to Lecture Material of R. Becker, HSRW

- **Scientific Programming, Lecture EE_2.06, Environment and Energy Program, HSRW**
- **Geodata Management Systems, Lecture EE_3.07, Environment and Energy Program, HSRW**

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