

Visit at ULSA, Sept. 2022

About HSRW

- [About HSRW](#)

Python Workshop

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
conda install -c conda-forge jupyter-dash dash

# 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 ulsa
```

Further Github Links

- [Scientific Programming](#), Lecture, Environment and Energy Program, HSRW
- https://github.com/rolfbecker/EE_3.07_Geodata_WS2021, Lecture, Environment and Energy Program, HSRW

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