Training Materials

Monday, 2 August, 2021   22:22

Dask :-

https://docs.dask.org/en/latest/
https://examples.dask.org/ | https://github.com/dask/dask-examples
https://github.com/dask/dask-tutorial | https://tutorial.dask.org/00_overview.html
https://developer.nvidia.com/blog/dask-tutorial-beginners-guide-to-distributed-computing-with-gpus-in-python/
https://github.com/adbreind/dask-mini-2019

https://www.youtube.com/c/Dask-dev
Parallel and Distributed Computing in Python with Dask | SciPy 2020 | Bourbeau, McCarty, Pothina
Scalable Data Analysis in Python with Dask tutorial

Raster :-

https://github.com/mapbox/rasterio
https://rasterio.readthedocs.io/en/latest/
https://rasterio.readthedocs.io/en/latest/quickstart.html
https://geohackweek.github.io/raster/01-introduction/
https://github.com/geohackweek/raster-2019
http://patrickgray.me/open-geo-tutorial/chapter_1_rasterio.html
https://automating-gis-processes.github.io/CSC18/lessons/L6/reading-raster.html
https://github.com/neerubhai/GDAL-rasterio-tutorials
https://www.earthdatascience.org/courses/use-data-open-source-python/intro-raster-data-python/fundamentals-raster-data/
https://www.earthdatascience.org/courses/use-data-open-source-python/intro-raster-data-python/fundamentals-raster-data/open-lidar-raster-python/
https://hatarilabs.com/ih-en/how-to-create-a-geospatial-raster-from-xy-data-with-python-pandas-and-rasterio-tutorial
https://gist.github.com/sgillies/7e5cd548110a5b4d45ac1a1d93cb17a3

Plotly :-

https://plotly.com/python/
https://plotly.com/python/getting-started/
https://plotly.com/python/plotly-fundamentals/
https://plotly.com/python/maps/
https://www.kaggle.com/kanncaa1/plotly-tutorial-for-beginners/notebook#INTRODUCTION
https://github.com/derekbanas/plotly-tutorial
https://www.journaldev.com/19692/python-plotly-tutorial
https://github.com/achourasia/plotly-tutorial
https://github.com/brynpickering/plotly-tutorial
https://github.com/ucg8j/awesome-dash - *
https://github.com/plotly/plotly.py/tree/master/doc/python
https://plotly.com/python/v3/ipython-notebooks/
https://sites.pitt.edu/~naraehan/presentation/Graphs_and_Plots_using_Plotly.html
https://pythonbasics.org/plotly/#Example

Plotly Tutorial 2021

Xarray-Spatial :-

https://github.com/makepath/xarray-spatial
https://xarray-spatial.org/index.html
https://github.com/makepath/xarray-spatial/tree/master/examples

Regionmask :-

https://github.com/regionmask/regionmask
https://regionmask.readthedocs.io/en/stable/
https://github.com/regionmask/regionmask/tree/master/docs/notebooks

Xarray :-

https://xarray-contrib.github.io/xarray-tutorial/index.html
https://xarray.pydata.org/en/latest/
https://xarray.pydata.org/en/latest/tutorials-and-videos.html
https://geohackweek.github.io/nDarrays/
https://github.com/xarray-contrib/xarray-tutorial
https://training.digitalearthafrica.org/en/latest/python_basics/05_xarray.html
https://examples.dask.org/xarray.html
https://github.com/iiasa/xarray_tutorial
https://notebook.community/alaindomissy/xarray_example/Exploring%20netCDF%20Datasets%20Using%20xarray
https://gist.github.com/shoyer/d462cc3b2aeb87bbb78cc6f8207851c6
https://www.ecmwf.int/sites/default/files/elibrary/2017/17837-xarray-n-d-labeled-arrays-and-datasets-python.pdf
https://ep2021.europython.eu/talks/BhhAcSi-climate-data-analysis-with-xarray-and-cartopy/
https://spire.com/tutorial/spire-weather-tutorial-intro-to-processing-grib2-data-with-python/

https://boisestate.hosted.panopto.com/Panopto/Pages/Embed.aspx?id=a38a2efc-1ac6-4c02-af0f-acfc015e9444

GeoPandas :-

https://geopandas.org/
https://geopandas.org/docs.html
https://geopandas.org/gallery/index.html
https://github.com/geopandas/geopandas
https://github.com/geopandas/geopandas/tree/master/doc/source/gallery
https://github.com/dlab-berkeley/Geospatial-Fundamentals-in-Python
https://automating-gis-processes.github.io/CSC18/lessons/L2/geopandas-basics.html
https://github.com/jorisvandenbossche/geopandas-tutorial
https://autogis-site.readthedocs.io/en/latest/notebooks/L2/01-geopandas-basics.html
https://github.com/joncutrer/geopandas-tutorial
https://nbviewer.jupyter.org/github/RagingTiger/explore-geopandas/blob/master/naturalearth_lowres_data.ipynb
https://github.com/Paritoshyadav/GIS-Analysis-with-GeoPandas-using-Python

Numpy :-

https://numpy.org/doc/stable/user/quickstart.html
https://github.com/numpy/numpy-tutorials
https://cs231n.github.io/python-numpy-tutorial/
https://github.com/TrainingByPackt/Data-Visualization-with-Python
https://realpython.com/numpy-tutorial/
https://www.learndatasci.com/tutorials/applied-introduction-to-numpy-python-tutorial/
https://github.com/eric496/numpy-tutorial
https://github.com/rougier/numpy-tutorial
https://nbviewer.jupyter.org/github/mdkearns/scientific-computing-libraries/blob/master/NumPy-Library-Essentials.ipynb
https://nbviewer.jupyter.org/github/gertingold/euroscipy-numpy-tutorial/blob/master/numpy-tutorial-solved.ipynb
https://scipy-lectures.org/intro/numpy/index.html
https://scipy-lectures.org/advanced/advanced_numpy/index.html

Python NumPy Tutorial for Beginners
NumPy Tutorial 2021

Rio-xarray :-

https://corteva.github.io/rioxarray/stable/
https://github.com/corteva/rioxarray/tree/master/docs/examples
https://corteva.github.io/rioxarray/stable/examples/examples.html

Geo Observation General :-

https://github.com/geohackweek/tutorial_contents
https://github.com/mdurant/python-geospatial-analysis-cookbook
https://github.com/sacridini/Awesome-Geospatial - *
https://automating-gis-processes.github.io/site/index.html
https://geo-python-site.readthedocs.io/en/latest/
https://github.com/pydata/parallel-tutorial
https://fabienmaussion.info/climate_system/welcome.html
https://training.digitalearthafrica.org/en/latest/session_1/index.html#
https://github.com/GeoscienceAustralia/dea-notebooks
https://www.earthdatascience.org/courses/
https://www.earthdatascience.org/courses/intro-to-earth-data-science/
https://www.earthdatascience.org/courses/use-data-open-source-python/
https://github.com/patrickcgray/open-geo-tutorial
https://gdal.org/index.html
https://gdal.org/tutorials/index.html
https://www.earthdatascience.org/workshops/gis-open-source-python/
https://github.com/acgeospatial/awesome-earthobservation-code - *
https://github.com/carpentries-lab/python-aos-lesson
https://github.com/andrea-ballatore/open-geo-data-education
https://github.com/sshuair/awesome-gis - *
https://github.com/jerr0328/awesome-geospatial-list
https://github.com/iamtekson/geospatial-data-download-sites
https://www.tomasbeuzen.com/python-for-geospatial-analysis/README.html | https://github.com/TomasBeuzen/python-for-geospatial-analysis
https://github.com/makerportal/geospatial-analyses
https://github.com/SirRacha/Geospatial_Mapping_In_Python
https://github.com/giswqs/earthengine-py-notebooks - *
https://github.com/giswqs/qgis-earthengine-examples
https://github.com/giswqs/Awesome-GEE - *
https://github.com/kscottz/PythonFromSpace
https://github.com/deepVector/geospatial-machine-learning
https://github.com/giswqs/python-geospatial - *
https://github.com/csaybar/EEwPython
https://github.com/keplergl/kepler.gl
https://github.com/mhermans/rgeonotebooks - R
https://github.com/jmcarrillog/geospatial-etl
https://github.com/Develop-Packt/Plotting-Geospatial-Data
https://github.com/bjornjorgensen/ndvistats
https://github.com/jrjohansson/scientific-python-lectures
https://www.practicaldatascience.org/html/index.html#

Matplotlib :-

https://matplotlib.org/stable/tutorials/index.html
https://github.com/rougier/matplotlib-tutorial
https://github.com/matplotlib/AnatomyOfMatplotlib
https://github.com/matplotlib/GettingStarted
https://realpython.com/python-matplotlib-guide/
https://scipy-lectures.org/intro/matplotlib/index.html
https://github.com/matplotlib/interactive_tutorial
https://github.com/veb-101/Numpy-Pandas-Matplotlib-Tutorial
https://github.com/TirendazAcademy/DATA-VISUALIZATION-WITH-PYTHON

Matplotlib Tutorials | https://github.com/manjusv/Matplotlib_tutorial
Matplotlib Tutorial 2021

Geocube :-

https://github.com/corteva/geocube
https://corteva.github.io/geocube/stable/examples/examples.html
https://github.com/corteva/geocube/tree/master/docs/examples

Salem :-

https://salem.readthedocs.io/en/stable/
https://github.com/fmaussion/salem/tree/master/docs/examples