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corepytools 0.0.2

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`pip install corepytools==0.0.2` ⧉

Released: Jun 4, 2021

CorePy: XRF clustering tools to interpret and visualize geological core data

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Project description

CorePy package

CorePy is designed to perform machine learning on data collected from geological samples of core.

CorePy bundles a wide range of data analytical tools to interpret multivariate datasets common to geological core characterization

The primary focus of CorePy is to classify high resolution X-ray fluoresence data into chemofacies using unsupervised and supervised clustering tools.

CorePy establishes a folder structure multiple users to work on the same datasets, and also provides visualizations that are useful to validate clustering results.

Installation

GitHub statistics:

⭐ **Stars:** 3

ᛦ **Forks:** 4

❗ **Open issues/PRs:** 0

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Meta

License: MIT License (LICENSE.txt)

Author: Toti Larson ✉

Maintainers

TotiLarson

Classifiers

License
- OSI Approved :: MIT License

Programming Language
- Python :: 3
- Python :: 3.7

pip install corepytools

Example

PCAexample.py shows an example that imports corepy package and an example XRF datafile called 'Public_XRF.csv'

About the authors

CorePy is being developed by Toti Larson at the University of Texas at Austin, Bureau of Economic Geology, Mudrocks Systems Research Laboratory (MSRL) research consortium.

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5. **J. Evan Sivil** - Research Science Associate at the University of Texas at Austin.

Package Inventory

CorePy.py

Package Dependencies

os seaborn pickle pandas glob numpy natplotlib.pyplot seaborn as sns sklearn.preprocessing import StandardScaler sklearn.decomposition import PCA sklearn.cluster import KMeans matplotlib.patheffects

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Notes

Folder structure

corepy-tools

```
|-LICENSE.txt          **MIT**

|-README.md            **edited in markdown**

|-setup.py             **name=corepy-tools, package=src,

|-src

    |-CorePy.py    **contains functions**

    |-__init__.py     ** empty**
```

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