
drapery Documentation

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Drapery is a Python library and CLI tool to convert 2D geometries to 3D given an elevation source.

1.1 Installation

To install from the Python Package Index:

```
$pip install drapery
```

To install from Anaconda Cloud:

If you are starting from scratch the first thing to do is install the Anaconda Python distribution, add the necessary channels to obtain the dependencies and install drapery.

```
$conda config --append channels conda-forge  
$conda install drapery -c mrahnis
```

To install from the source distribution execute the setup script in the drapery directory:

```
$python setup.py install
```

1.2 Examples

To do

1.3 License

BSD

1.4 Documentation

Latest [html](#)

CHAPTER 2

Drapery Manual

3.1 drapery Package

3.1.1 drapery Package

3.1.2 Subpackages

ops Package

sample Module

`drapery.ops.sample.drape(raster, feature)`

Convert a 2D feature to a 3D feature by sampling a raster

Parameters

- **raster** (*rasterio*) – raster to provide the z coordinate
- **feature** (*dict*) – fiona feature record to convert

Returns shapely Point or LineString of xyz coordinate triples

Return type result (Point or Linestring)

`drapery.ops.sample.sample(raster, coords)`

Sample a raster at given coordinates

Given a list of coordinates, return a list of x,y,z triples with z coordinates sampled from an input raster

Parameters

- **raster** (*rasterio*) – raster dataset to sample
- **coords** – array of tuples containing coordinate pairs (x,y) or triples (x,y,z)

Returns array of tuples containing coordinate triples (x,y,z)

Return type result

CHAPTER 4

Indices and tables

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