





♠ > Python Interface > ··· > Distributions > twinlab.samp...

twinlab.sampling.LatinHypercube

```
class twinlab.sampling.LatinHypercube(scramble=True,
    optimization='random-cd')
```

A sampling strategy that uses Latin Hypercube Sampling.

Parameters:

- **scramble** (<u>bool</u>, optional) Whether to scramble the samples within sub-cubes. The default value is True.
- optimization (str | None, optional) –

The optimization method to use for generating the samples. Options are:

- None: No optimization is performed once the intial samples are generated.
- "random-cd": Randomly permute the columns of the matrix in order to lower the centred discrepancy of the generated samples.
- "lloyd": Perturb the samples using a modified Lloyd-Max algorithm. The process converges to equally spaced samples.

The default is "random-cd".

```
__init__(scramble=True, optimization='random-cd')
```

Methods

```
__init__ ([scramble, optimization])

to_json()
```

Previous
twinlab.Sampling

twinlab.sampling.UniformRandom

© Copyright 2024, twinLab Dev Team.

Created using **Sphinx** 7.3.7.

Built with the PyData Sphinx Theme 0.15.2.