

twinlab.sampling.LatinHypercube

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

A sampling strategy that uses Latin Hypercube Sampling.

Parameters:

- **scramble** (*bool*, *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 initial 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()
```

