skfda.representation.extrapolation.FillExtrapolation

class **skfda.representation.extrapolation.FillExtrapolation**(*fill_value*) [source]

Values outside the domain range will be filled with a fixed value.

Examples

```
>>> from skfda.datasets import make_sinusoidal_process
>>> from skfda.representation.extrapolation import FillExtrapolation
>>> fd = make_sinusoidal_process(n_samples=2, random_state=0)
```

We can set the default type of extrapolation

```
>>> fd.extrapolation = FillExtrapolation(0)
>>> fd([-.5, 0, 1.5]).round(3)
array([[ 0.   ,  0.976,  0.   ],
       [ 0.   ,  0.759,  0.   ]])
```

The previous extrapolator is equivalent to the string *"zeros"*. In the same way FillExtrapolation(np.nan) is equivalent to *"nan"*.

```
>>> fd.extrapolation = "nan"
>>> fd([-.5, 0, 1.5]).round(3)
array([[   nan,  0.976,    nan],
       [   nan,  0.759,    nan]])
```

__init__(*fill_value*) [source]

Returns the evaluator used by `FData`.

Returns: Evaluator of the periodic extrapolation.

Return type: (`Evaluator`)

Methods

`__init__`(fill_value)	Returns the evaluator used by `FData`.

`evaluator`(fdata)	Construct an evaluator.

Attributes

`fill_value`	Returns the fill value of the extrapolation