

`skfda.misc.metrics.pairwise_distance`

`skfda.misc.metrics.pairwise_distance`(*distance*, ***kwargs*) [\[source\]](#)

Return pairwise distance for FDataGrid objects.

Given a distance returns the corresponding pairwise distance function.

The pairwise distance calculates the distance between all possible pairs of one sample of the first FDataGrid object and one of the second one.

The matrix returned by the pairwise distance is a matrix with as many rows as samples in the first object and as many columns as samples in the second one. Each element (i, j) of the matrix is the distance between the ith sample of the first object and the jth sample of the second one.

- Parameters:**
- **distance** (`Function`) – Distance functions between two functional objects `distance(fdata1, fdata2, **kwargs)`.
 - ****kwargs** (`dict`, optional) – parameters dictionary to be passed to the distance function.

Returns: Pairwise distance function, wich accepts two functional data objects and returns the pairwise distance matrix.

Return type: `Function`