## **BUILDING DARTS TIMESERIES** START mapping on both timestamps and values: SOME BASIC OPERATIONS WITH DARTS import data from csv pd.read\_csv() Import Data series\_air.map(lambda ts, x: x / ts.days\_in\_month).plot() Adding some TIMESERIES series = TimeSeries(data, datetime attribute as time\_col, val\_cols) Convert data into an extra dimension Darts timeseries ➤ (vielding a **OP.1** multivariate series): (series\_air / 20).add\_datetime\_attribute series.plot() ("month")plot() Plot the timeseries Adding some binary holidays component: fill missing values(series ) .plot(label="without missing series\_air.diff().plot() values") Start from (series\_air / **OP.1** . 200).add\_holidays("US") .plot() Differencing Differencing Sclicing Splitting Arithemetic Stacking Mapping operations series\_air.split\_before(0.75) series\_air.split\_before(0.1) series\_air[100:].map(np.log).plot() series\_noise = TimeSeries.from\_times\_and\_values( series\_air.time\_index, np.random.randn(len(series\_air)) (series\_air / 2 + 20 \* series\_noise - 10).plot() (series\_air[100:]/ 50).stack(series\_noise[100:]) air\_series3, air\_series4 = plot() series\_air[:-36], series\_air[-36:] prepared by: Prigith Joseph date:04-02-2023

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