

# Package ‘edm1.sequence’

July 26, 2024

**Title** Set of tools to manipulate time series

**Version** 2.0.0.0

**Description** Provides set of functions to manipulate time series dataset; create variables that designates the value of the individual at n-x , handle missing values...

**License** GPL (==3)

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.1

**Imports** stringr

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historic_sequence	<i>historic_sequence</i>
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## Description

Allow to perform a pivot wider on a sequential dataset (here the type is dataframe), each variable will be duplicated in a column to show the value to this variable at n - 1 for each individual, see examples.

## Usage

```
historic_sequence(inpt_datf, bf_ = 1)
```

## Arguments

<code>inpt_datf</code>	is the input dataframe
<code>bf_</code>	is the number of previous value of the individual it will search for, see examples

**Examples**

```

set.seed(123)
var1 <- round(runif(n = 14, min = 100, max = 122))
set.seed(123)
var2 <- round(runif(n = 14, min = 14, max = 20))

datf <- data.frame("ids" = c(20, 20, 20, 20, 19, 19, 19, 18, 18, 18, 18,
                             17, 17, 17),
                  "individual" = c("oui", "non", "peut1", "peut2",
                                   "oui", "peut1", "peut2"),
                  "var1" = var1,
                  "var2" = var2)

print(datf)

```

	ids	individual	var1	var2
1	20	oui	106	16
2	20	non	117	19
3	20	peut1	109	16
4	20	peut2	119	19
5	19	oui	121	20
6	19	peut1	101	14
7	19	peut2	112	17
8	18	oui	120	19
9	18	non	112	17
10	18	peut1	110	17
11	18	peut2	121	20
12	17	oui	110	17
13	17	peut1	115	18
14	17	peut2	113	17

```
historic_sequence(inpt_datf = datf, bf_ = 2)
```

	id_seq	individual	var1-1	var1-2	var2-1	var2-2
1	20	oui	121	120	20	19
2	20	non	NA	112	NA	17
3	20	peut1	101	110	14	17
4	20	peut2	112	121	17	20
5	19	oui	120	110	19	17
6	19	peut1	110	115	17	18
7	19	peut2	121	113	20	17

```
historic_sequence(inpt_datf = datf, bf_ = 3)
```

	id_seq	individual	var1-1	var1-2	var1-3	var2-1	var2-2	var2-3
1	20	oui	121	120	110	20	19	17
2	20	non	NA	112	NA	NA	17	NA
3	20	peut1	101	110	115	14	17	18
4	20	peut2	112	121	113	17	20	17

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