

# Package ‘tidydfidx’

July 22, 2025

**Version** 0.0-1

**Date** 2025-06-13

**Title** Indexed 'tibble' and Methods for 'dplyr'

**Depends** R (>= 3.5.0)

**Imports** dplyr, vctrs, pillar, Rdpack, dfidx

**Suggests** knitr, quarto

**Description** Provides extended data frames, with a special data frame column which contains two indexes, with potentially a nesting structure, and support for tibbles and methods for 'dplyr'.

**License** GPL (>= 2)

**URL** <https://cran.r-project.org/package=dfidx>

**VignetteBuilder** quarto

**RoxygenNote** 7.3.1

**Encoding** UTF-8

**RdMacros** Rdpack

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2025-06-16 11:30:02 UTC

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dplyr

*Methods for dplyr verbs*

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### Description

methods of dplyr verbs for dfix objects. Default functions don't work because most of these functions returns either a tibble or a data.frame but not a dfix

### Usage

```
## S3 method for class 'dfix'  
arrange(.data, ...)  
  
## S3 method for class 'dfix'  
filter(.data, ...)  
  
## S3 method for class 'dfix'  
slice(.data, ...)  
  
## S3 method for class 'dfix'  
mutate(.data, ...)  
  
## S3 method for class 'dfix'  
transmute(.data, ...)  
  
## S3 method for class 'dfix'  
select(.data, ...)
```

### Arguments

<code>.data</code>	a dfix object,
<code>...</code>	further arguments

### Details

These methods always return the data frame column that contains the indexes and return a dfix object.

### Value

an object of class "dfix"

### Author(s)

Yves Croissant

**Examples**

```

data("munnell", package = "dfidx")
munnell <- as_tibble(munnell)
mn <- dfidx(munnell)
select(mn, - gsp, - water)
mutate(mn, lgsp = log(gsp), lgsp2 = lgsp ^ 2)
transmute(mn, lgsp = log(gsp), lgsp2 = lgsp ^ 2)
arrange(mn, desc(unemp), labor)
filter(mn, unemp > 10)
pull(mn, gsp)
slice(mn, c(1:2, 5:7))

```

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methods.dfidx

*Methods for dfidx*


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**Description**

A `dfidx` is a `data.frame` with a "sticky" `data.frame` column which contains the indexes. Specific methods of functions that extract lines and/or columns of a `data.frame` are provided.

**Usage**

```

## S3 method for class 'tbl_dfidx'
print(x, ..., n = NULL)

## S3 method for class 'vecidx'
vec_ptype_abbrev(x, ..., prefix_named, suffix_shape)

## S3 method for class 'vecidx'
format(x, ...)

## S3 method for class 'vecidx'
pillar_shaft(x, ...)

## S3 method for class 'tbl_dfidx2'
tbl_sum(x, ...)

```

**Arguments**

`x` a `dfidx` object

`...` further arguments

`n` the number of rows for the print method

`prefix_named, suffix_shape`  
see [vctrs::vec\\_ptype\\_abbrev](#)

**Value**

as.data.frame and mean return a data.frame, [[ and \$ a vector, [ either a dfidx or a vector, \$<- and [[<- modify the values of an existing column or create a new column of a dfidx object, print is called for its side effect

**Author(s)**

Yves Croissant

**Examples**

```
data("munnell", package = "dfidx")
mn <- dfidx(munnell)
# extract a series (returns as a xseries object)
mn$gsp
# or
mn[["gsp"]]
# extract a subset of series (returns as a dfidx object)
mn[c("gsp", "unemp")]
# extract a subset of rows and columns
mn[mn$unemp > 10, c("utilities", "water")]
# dfidx, idx and xseries have print methods as (like tibbles), a n
# argument
print(mn, n = 3)
print(idx(mn), n = 3)
print(mn$gsp, n = 3)
# a dfidx object can be coerced to a data.frame
head(as.data.frame(mn))
```

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