Package: fiorefactor (via r-universe)

May 24, 2026

Title Rust Powered Toy Package

Version 0.0.0.9005

Description This is a toy package to test creating an Extendr-powered R package from only Rust code (i.e. not using a R function to wrap and document rust code), including documentation.

URL https://github.com/albersonmiranda/fiorefactor

BugReports https://github.com/albersonmiranda/fiorefactor/issues

Encoding UTF-8

Roxygen list(markdown = TRUE, r6 = TRUE)

RoxygenNote 7.3.2

Depends R (>= 4.2)

SystemRequirements Cargo (Rust's package manager), rustc >= 1.78, xz

LazyData true

Imports cli, fs, rlang

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Config/rextendr/version 0.4.1.9000

Suggests knitr, rmarkdown, spelling, writexl, callr, testthat (>= 3.0.0)

VignetteBuilder knitr

Language en-US

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Config/pak/sysreqs cmake make libuv1-dev xz-utils libclang-dev

Repository https://albersonmiranda.r-universe.dev

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RemoteUrl https://github.com/albersonmiranda/fiorefactor

RemoteRef main

RemoteSha c9361667493104eb55b1f96f1cb3ff8089a21a2a

Contents

`Iom` *Rust class for input-output matrix*

Description

This class represents an input-output matrix, which is a representation of the transactions between different sectors of an economy. It contains methods to compute the technical coefficients matrix and other related operations.

Arguments

`name`	(`character`) A string representing the name of the input-output matrix.
`intermediate_transactions`	(`matrix`) A matrix of intermediate transactions.
`total_production`	(`matrix`) A vector of total production.

Details

This paragraph of details is on struct-level.

But hey! This impl-block adds stuff that requires clarification so this paragraph is on impl-level docs but it's appended to struct docs! Isn't that cool?

Value

A new instance of the `Iom` class.

Methods

Method `new`**:** Instantiate a new Iom object

Arguments:

`name` (`character`) A string representing the name of the input-output matrix.

`intermediate_transactions` (`matrix`) A matrix of intermediate transactions.

`total_production` (`character`) A vector of total production.

details: This function creates a new instance of the Iom class.

return: A new instance of the Iom class.

Method `intermediate_transactions`**:** Getter for intermediate_transactions matrix.

Method `total_production`**:** Getter for total_production matrix.

Method `technical_coefficients_matrix`**:** Getter for technical_coefficients_matrix.

Method `leontief_inverse_matrix`**:** Getter for leontief_inverse_matrix.

Method `compute_technical_coefficients`**:** Compute the technical coefficients matrix and populate the `technical_coefficients_matrix` field.

details: It computes the technical coefficientex matrix, a nxn matrix, known as `A` matrix, which is the column-wise ratio of intermediate transactions to total production.

return: Self (invisibly)

Examples

```
## ---- Method `new` ---- ##
Iom$new(
name = "example",
intermediate_transactions = c(1, 2, 3, 4),
total_production = c(5, 6)
)



## ---- Method `compute_technical_coefficients` ---- ##
iom <- Iom$new(
name = "example",
intermediate_transactions = c(1, 2, 3, 4),
total_production = c(5, 6)
)
iom$compute_technical_coefficients()
iom$technical_coefficients_matrix
```

`print.Iom` *Print method for objects of class 'Iom'*

Description

Print method for objects of class 'Iom'

Usage

```
## S3 method for class 'Iom'
print(x, ...)
```

Arguments

x	An object of class 'Iom'
...	Additional arguments passed to print methods

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