Package ‘gvc’
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Title Global Value Chains Tools
Description Several tools for Global Value Chain (‘GVC’) analysis are implemented.
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**Description**

Domestic Final Demand Domestic Value Added

**Usage**

\[ \text{dfddva}(x, \text{aggregate} = \text{FALSE}) \]

**Arguments**

- **x**: A Leontief decomposed Inter-Country Input Output table as created by decompr, which should be post multiplied with final demand (using the parameter: post = "final_demand")
- **aggregate**: should dfddva be aggregated along source industries to a national sum?

**Examples**

```r
# load the decompr package
library(decompr)

# load example data
data(leather)
attach(leather)

# create a leontief decomposed data set
l <- decomp(x = inter,
            y = final,
            k = countries,
            i = industries,
            o = out,
            method = "leontief",
            post = "final_demand")

# apply dfddva
dfddva(l)
```
dfdfva

Domestic Final Demand Foreign Value Added

Description

Domestic Final Demand Foreign Value Added

Usage

dfdfva(x, aggregate = FALSE)

Arguments

x

A Leontief decomposed Inter-Country Input Output table as created by decompr, which should be post multiplied with final demand (using the parameter: post="final_demand")

aggregate

should dfdfva be aggregated along source industries to a national sum?

Examples

# load the decompr package
library(decompr)

# load the example data
data(leather)
attach(leather)

# create a leontief decomposed data set
l <- decomp(x = inter,
            y = final,
            k = countries,
            i = industries,
            o = out,
            method = "leontief",
            post = "final_demand")

# apply dfdfva
dfdfva( l )

downstream

Downstreamness

Description

Downstreamness
Usage
downstream(x)

Arguments
x an object of class "decompr" as created using the load_tables_vectors() function from the decompr package.

Examples
# load the decompr package
library(decompr)

# load example data
data(leather)
attach(leather)

# create a leontief decomposed data set
l <- load_tables_vectors(x = inter,
   y = final,
   k = countries,
   i = industries,
   o = out )

# apply downstream
downstream(l)

e2r

Exporting to Re-export

Description
Exporting to Re-export

Usage
e2r(x, by = NULL, subset = NULL)

Arguments
x A Leontief decomposed Inter-Country Input Output table as created by decompr
by variable to subset by
subset value(s) of the subset variable to select
Examples

```r
# load the decompr package
library(decompr)

# load the example data set
data(leather)
attach(leather)

# create a leontief decomposed data set
l <- decomp(x = inter,
           y = final,
           k = countries,
           i = industries,
           o = out)

# apply the Exporting to Re-export
e2r(l)
```

## ffdvda

<table>
<thead>
<tr>
<th>Foreign Final Demand Domestic Value Added</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

### Description

Foreign Final Demand Domestic Value Added

### Usage

```r
ffdvda(x, aggregate = FALSE)
```

### Arguments

- `x` A Leontief decomposed Inter-Country Input Output table as created by decompr, which should be post multiplied with final demand (using the parameter: post="final_demand")
- `aggregate` should dfddva be aggregated along source industries to a national sum?

### Examples

```r
# load the decompr package
library(decompr)

# load example data
data(leather)
attach(leather)

# create a leontief decomposed data set
l <- decomp(x = inter,
           y = final,
           k = countries,
           i = industries,
           o = out)
```
gvc

Global Value Chain analysis

Description

Several tools for Global Value Chain ('GVC') analysis are implemented.

Author(s)

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References


See Also

https://qua.st/decompr

i2e

Importing to Export

Description

Importing to Export
Vertical Specialization
Vertical Specialisation

Usage

i2e(x, by = NULL, subset = NULL)

vertical_specialisation(x, by = NULL, subset = NULL)

vertical_specialization(x, by = NULL, subset = NULL)
Arguments

x A Leontief decomposed Inter-Country Input Output table as created by decompr
by variable to subset by
subset value(s) of the subset variable to select

Examples

# load the decompr package
library(decompr)

# load the example data set
data(leather)
attach(leather)

# create a leontief decomposed data set
l <- decomp(x = inter,
            y = final,
            k = countries,
            i = industries,
            o = out)

# apply the Import to Exports analysis
i2e(l)

nrca New Revealed Comparative Advantage

Description

New Revealed Comparative Advantage

Usage

nrca(x)

Arguments

x A decomposed Inter-Country Input Output table as created by decompr

Examples

# load the decompr package
library(decompr)

# load the example data set
data(leather)
attach(leather)
# perform Leontief decomposition
l <- decomp(x = inter,
y = final,
k = countries,
i = industries,
o = out,
method = "leontief",
post = "exports"
)

# load gvc package
library(gvc)

# perform New Revealed Comparative Advantage
nrca(l)

---

**upstream**  

**Upstreamness**

**Description**

Upstreamness

**Usage**

`upstream(x)`

**Arguments**

- **x**: an object of class "decompr" as created using the `load_tables_vectors()` function from the `decompr` package.

**Examples**

# load the decompr package
library(decompr)

# load example data
data(leather)
attach(leather)

# create a leontief decomposed data set
l <- load_tables_vectors(x = inter,
y = final,
k = countries,
i = industries,
o = out)

# apply upstream
upstream(l)
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