Package ‘gvc’

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Version  0.5.2
Title Global Value Chains Tools
Description Several tools for Global Value Chain ('GVC') analysis are implemented.
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License GPL-3
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dfddva

Domestic Final Demand Domestic Value Added

Description

Domestic Final Demand Domestic Value Added

Usage

dfddva(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

# load the decompr package
library(decompr)

# load example data
data(leather)

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

# apply dfddva
dfddva( l )

dfdfva

Domestic Final Demand Foreign Value Added

Description

Domestic Final Demand Foreign Value Added
**downstream**

**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**

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

# load the example data
data(leather)

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

# apply dfdfva
dfdfva(l)
```

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<table>
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<tr>
<th>downstream</th>
<th>Downstreamness</th>
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**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

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

# load example data
data(leather)

# create a leontief decomposed data set
l <- load_tables_vectors(inter, 
    final, 
    countries, 
    industries, 
    out)

# apply downstream
downstream( l )
```

---

e2r  

**Exporting to Re-export**

Description

Exporting to Re-export

Usage

```r
e2r(x)
```

Arguments

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

Examples

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

# load example data set
data(leather)

# create a leontief decomposed data set
l <- decomp(inter, 
    final, 
    countries, 
    industries, 
    out)

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

*Foreign Final Demand Domestic Value Added*

**Description**

Foreign Final Demand Domestic Value Added

**Usage**

`ffddva(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)

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

# apply ffddva
ffddva(l)
```

**gvc**

*Global Value Chain analysis*

**Description**

Several tools for Global Value Chain ("GVC") analysis are implemented.
Author(s)

Bastiaan Quast <bquast@gmail.com> Victor Kummritz

References


See Also

http://qua.st/decompr

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i2e Importing to Export

Description

Importing to Export
Vertical Specialization
Vertical Specialisation

Usage

i2e(x)
vertical_specialisation(x)
vertical_specialization(x)

Arguments

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

Examples

# load the decompr package
library(decompr)

# load the example data set
data(leather)

# create a leontief decomposed data set
l <- decomp(inter,
          final,
          countries,
          industries, 
          out)
nrca

# apply the Import to Exports analysis
ize( 1 )

decompr

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)

# perform Leontief decomposition
l <- decomp(inter,
        final,
        countries,
        industries,
        out,
        method = "leontief",
        post = "exports" )

# load gvc package
library(gvc)

# perform New Revealed Comparative Advantage
nrca(l)
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)

# create a leontief decomposed data set
l <- load_tables_vectors(inter,
                        final,
                        countries,
                        industries,
                        out )

# apply upstream
upstream(l)
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