Package 'ggplayfair'

July 28, 2025

Title Geoms for Playfair-Style Charts

Version 0.1.1

Description Currently provides geom_balance_of_trade(), a 'ggplot2' layer that fills the area
between exports and imports series (with automatic crossing detection
and conditional coloring for surplus vs. deficit), and overlays lines
and points by default.

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Encoding UTF-8

Imports ggplot2 (>= 3.4.0)

Suggests testthat (>= 3.0.0), roxygen2 (>= 7.1.0),

RoxygenNote 7.3.2

URL

BugReports

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NeedsCompilation no

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Repository CRAN

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Contents

GeomBalanceOfTrade   *GeomBalanceOfTrade*

Description

A ribbon between exports and imports, automatically coloring surplus vs deficit.

Usage

```
GeomBalanceOfTrade
```

Format

An object of class `GeomBalanceOfTrade` (inherits from `GeomRibbon`, `Geom`, `ggproto`, `gg`) of length 3.

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geom_balance_of_trade   *geom_balance_of_trade*

Description

geom_balance_of_trade() creates a custom ggplot2 ribbon that visualizes the balance of trade by shading the area between exports and imports.

Usage

```
geom_balance_of_trade(
  data = NULL,
  mapping = NULL,
  stat = StatBalanceOfTrade,
  geom = GeomBalanceOfTrade,
  position = "identity",
  ...,
  na.rm = FALSE,
  show.legend = NA
)
```

Arguments

data	A data frame (defaults to the plot-level data)
mapping	Set of aesthetic mappings, see `geom_ribbon`
stat	Stat to use (defaults to `StatBalanceOfTrade`)
geom	Geom to use (defaults to `GeomBalanceOfTrade`)
position	Position adjustment

`...`	Other arguments passed on to the layer (e.g. `na.rm`)
`na.rm`	If `TRUE`, remove NAs
`show.legend`	Should this layer be included in the legend?

Value

A ggplot2 layer representing the balance of trade. Within the layer with be a colored ribbon and two lines and point sets representing your imports and exports

Note

If you map `exports`/`imports` in the global aes(), you'll see: \"The following aesthetics were dropped...exports and imports.\" This simply means the stat used them to compute the ribbon and then removed them—your plot still renders correctly. To suppress this warning, simply move the aes to the geom_balance_of_trade() call.

StatBalanceOfTrade *StatBalanceOfTrade*

Description

Splits a time series of exports and imports into segments of trade surplus or deficit, inserting interpolated intersection points where they cross. This allows ribbons to be shaded differently for surplus vs deficit in a balance of trade plot.

Usage

```
StatBalanceOfTrade
```

Format

An object of class `StatBalanceOfTrade` (inherits from `Stat`, `ggproto`, `gg`) of length 4.

Details

A `ggplot2::Stat` that computes ribbon boundaries for trade balance visualization. It takes export and import values and generates ymin/ymax pairs for plotting shaded ribbons showing surplus or deficit. Used internally by `geom_balance_of_trade()`.

Value

A `data.frame` with columns: `x`, `ymin`, `ymax`, `direction`, and `group`. These are passed to a `GeomRibbon` layer to visualize the balance of trade.

See Also

geom_balance_of_trade()

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