

Package ‘ggplayfair’

May 8, 2026

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.

License MIT + file LICENSE

Encoding UTF-8

Imports ggplot2 (>= 3.4.0)

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

RoxygenNote 7.3.2

URL <https://github.com/DerekStevens99/ggplayfair>

BugReports <https://github.com/DerekStevens99/ggplayfair/issues>

Maintainer Derek Stevens <derekburgandy@gmail.com>

NeedsCompilation no

Author Derek Stevens [aut, cre]

Repository CRAN

Date/Publication 2025-07-28 18:30:02 UTC

Contents

GeomBalanceOfTrade	2
geom_balance_of_trade	2
StatBalanceOfTrade	3

Index	4
--------------	----------

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.

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

<code>data</code>	A data frame (defaults to the plot-level data)
<code>mapping</code>	Set of aesthetic mappings, see geom_ribbon
<code>stat</code>	Stat to use (defaults to <code>StatBalanceOfTrade</code>)
<code>geom</code>	Geom to use (defaults to <code>GeomBalanceOfTrade</code>)
<code>position</code>	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 will 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	<i>StatBalanceOfTrade</i>
--------------------	---------------------------

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\(\)](#)

Index

* datasets

GeomBalanceOfTrade, [2](#)

StatBalanceOfTrade, [3](#)

geom_balance_of_trade, [2](#)

geom_balance_of_trade(), [3](#)

geom_ribbon, [2](#)

GeomBalanceOfTrade, [2](#)

StatBalanceOfTrade, [3](#)