

# Package: ggplayfair (via r-universe)

May 25, 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

**LazyData** true

**Imports** ggplot2 (>= 3.4.0)

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

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.2

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

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

**Maintainer** Derek Stevens <derekeburgandy@gmail.com>

**Repository** <https://derekstevens99.r-universe.dev>

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**RemoteRef** HEAD

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geom\_balance\_of\_trade *geom\_balance\_of\_trade*

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### 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 <a href="#">geom_ribbon</a>
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 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.

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GeomBalanceOfTrade	<i>GeomBalanceOfTrade</i>
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**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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StatBalanceOfTrade	<i>StatBalanceOfTrade</i>
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**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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