Package: ggmosaic (via r-universe)

August 22, 2024

Title Mosaic Plots in the 'ggplot2' Framework

Version 0.3.4

Description Mosaic plots in the 'ggplot2' framework. Mosaic plot functionality is provided in a single 'ggplot2' layer by calling the geom 'mosaic'.

License GPL (>= 2)

URL https://github.com/haleyjeppson/ggmosaic

BugReports https://github.com/haleyjeppson/ggmosaic

Depends ggplot2 (>= 3.3.0), R (>= 3.5.0)

Imports productplots, dplyr, plotly (>= 4.9.3), purrr, rlang, tidyr, ggrepel, scales, withr (>= 2.5.0)

Suggests gridExtra, knitr, NHANES, rmarkdown, shiny (>= 1.1.0), patchwork

VignetteBuilder knitr

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE, roclets=c('rd', 'collate', 'namespace'))

RoxygenNote 7.2.3

Repository https://haleyjeppson.r-universe.dev

RemoteUrl https://github.com/haleyjeppson/ggmosaic

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ddecker

Template for a double decker plot. A double decker plot is composed of a sequence of spines in the same direction, with the final spine in the opposite direction.

Description

Template for a double decker plot. A double decker plot is composed of a sequence of spines in the same direction, with the final spine in the opposite direction.

Usage

ddecker(direction = "h")

Arguments

direction direction of first split

Description

Data from the results of a SurveyMonkey survey commissioned by FiveThirtyEight for the story 41 Percent of Fliers Say It's Rude To Recline Your Airplane Seat.

Usage

fly

Format

A data frame with 1040 rows and 27 variables:

id Respondent ID

flight_freq How often do you travel by plane?

do_you_recline Do you ever recline your seat when you fly?

height How tall are you?

has_child_under_18 Do you have any children under 18?

three_seats_two_arms n a row of three seats, who should get to use the two arm rests?

two_seats_one_arm In a row of two seats, who should get to use the middle arm rest?

window_shade Who should have control over the window shade?

rude_to_move_to_unsold_seat Is it rude to move to an unsold seat on a plane?

- rude_to_talk_to_neighbor Generally speaking, is it rude to say more than a few words to the stranger sitting next to you on a plane?
- six_hr_flight_leave_seat On a six hour flight from NYC to LA, how many times is it acceptable to get up if you're not in an aisle seat?
- **reclining_obligation_to_behind** Under normal circumstances, does a person who reclines their seat during a flight have any obligation to the person sitting behind them?
- rude_to_recline Is it rude to recline your seat on a plane?
- eliminate_reclining Given the opportunity, would you eliminate the possibility of reclining seats on planes entirely?
- rude_to_switch_seats_friends Is it rude to ask someone to switch seats with you in order to be closer to friends?
- rude_to_switch_seats_family Is it rude to ask someone to switch seats with you in order to be closer to family?
- rude_to_wake_neighbor_bathroom Is it rude to wake a passenger up if you are trying to go to the bathroom?

rude_to_wake_neighbor_walk Is it rude to wake a passenger up if you are trying to walk around? rude_to_bring_baby In general, is it rude to bring a baby on a plane?

fly

rude_to_bring_unruly_child In general, is it rude to knowingly bring unruly children on a plane?

- **use_electronics_takeoff** Have you ever used personal electronics during take off or landing in violation of a flight attendant's direction?
- **smoked_inflight** Have you ever smoked a cigarette in an airplane bathroom when it was against the rules?

gender Gender

age Age

household_income Household Income

education Education

region Region

Source

https://github.com/fivethirtyeight/data/tree/master/flying-etiquette-survey

Geom proto	
Geom proto	
Geom proto	
	Geom proto

Description

Geom proto

geom_mosaic

Description

A mosaic plot is a convenient graphical summary of the conditional distributions in a contingency table and is composed of spines in alternating directions.

Usage

```
geom_mosaic(
 mapping = NULL,
  data = NULL,
  stat = "mosaic",
  position = "identity",
  na.rm = FALSE,
  divider = mosaic(),
 offset = 0.01,
  show.legend = NA,
  inherit.aes = FALSE,
  . . .
)
stat_mosaic_text(
 mapping = NULL,
  data = NULL,
  geom = "Text",
  position = "identity",
  na.rm = FALSE,
  divider = mosaic(),
  show.legend = NA,
  inherit.aes = TRUE,
  offset = 0.01,
  . . .
)
stat_mosaic(
 mapping = NULL,
  data = NULL,
  geom = "mosaic",
  position = "identity",
  na.rm = FALSE,
  divider = mosaic(),
  show.legend = NA,
  inherit.aes = TRUE,
  offset = 0.01,
  . . .
```

Arguments

)

mapping	Set of aesthetic mappings created by aes(). If specified and inherit.aes = TRUE (the default), it is combined with the default mapping at the top level of the plot. You must supply mapping if there is no plot mapping.
data	The data to be displayed in this layer. There are three options:
	If NULL, the default, the data is inherited from the plot data as specified in the call to ggplot().
	A data.frame, or other object, will override the plot data. All objects will be fortified to produce a data frame. See fortify() for which variables will be created.
	A function will be called with a single argument, the plot data. The return value must be a data.frame, and will be used as the layer data. A function can be created from a formula (e.g. ~ head(.x, 10)).
stat	The statistical transformation to use on the data for this layer, either as a ggproto Geom subclass or as a string naming the stat stripped of the stat_ prefix (e.g. "count" rather than "stat_count")
position	Position adjustment, either as a string naming the adjustment (e.g. "jitter" to use position_jitter), or the result of a call to a position adjustment function. Use the latter if you need to change the settings of the adjustment.
na.rm	If FALSE (the default), removes missing values with a warning. If TRUE silently removes missing values.
divider	Divider function. The default divider function is mosaic() which will use spines in alternating directions. The four options for partitioning:
	• vspine Vertical spine partition: width constant, height varies.
	• hspine Horizontal spine partition: height constant, width varies.
	 vbar Vertical bar partition: height constant, width varies.
	• hbar Horizontal bar partition: width constant, height varies.
offset	Set the space between the first spine
show.legend	logical. Should this layer be included in the legends? NA, the default, includes if any aesthetics are mapped. FALSE never includes, and TRUE always includes. It can also be a named logical vector to finely select the aesthetics to display.
inherit.aes	If FALSE, overrides the default aesthetics, rather than combining with them. This is most useful for helper functions that define both data and aesthetics and shouldn't inherit behaviour from the default plot specification, e.g. borders().
	other arguments passed on to layer. These are often aesthetics, used to set an aesthetic to a fixed value, like color = 'red' or size = 3. They may also be parameters to the paired geom/stat.
geom	The geometric object to use to display the data, either as a ggproto Geom sub- class or as a string naming the geom stripped of the geom_ prefix (e.g. "point" rather than "geom_point")

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geom_mosaic

Computed variables

- x location of center of the rectangle
- y location of center of the rectangle
- xmin location of bottom left corner
- xmax location of bottom right corner
- ymin location of top left corner
- ymax location of top right corner

Examples

```
data(titanic)
```

```
ggplot(data = titanic) +
 geom_mosaic(aes(x = product(Class), fill = Survived))
# good practice: use the 'dependent' variable (or most important variable)
# as fill variable
# if there is only one variable inside `product()`,
# `product()` can be omitted
ggplot(data = titanic) +
 geom_mosaic(aes(x = Class, fill = Survived))
ggplot(data = titanic) +
 geom_mosaic(aes(x = product(Class, Age), fill = Survived))
ggplot(data = titanic) +
 geom_mosaic(aes(x = product(Class), conds = product(Age), fill = Survived))
# if there is only one variable inside `product()`,
# `product()` can be omitted
ggplot(data = titanic) +
 geom_mosaic(aes(x = Class, conds = Age, fill = Survived))
ggplot(data = titanic) +
 geom_mosaic(aes(x = product(Survived, Class), fill = Age))
# Just excluded for timing. Examples are included in testing to make sure they work
## Not run:
data(happy)
ggplot(data = happy) + geom_mosaic(aes(x = product(happy)), divider="hbar")
ggplot(data = happy) + geom_mosaic(aes(x = product(happy))) +
 coord_flip()
# weighting is important
ggplot(data = happy) +
 geom_mosaic(aes(weight=wtssall, x=product(happy)))
```

```
ggplot(data = happy) + geom_mosaic(aes(weight=wtssall, x=product(health), fill=happy)) +
 theme(axis.text.x=element_text(angle=35))
ggplot(data = happy) +
 geom_mosaic(aes(weight=wtssall, x=product(health), fill=happy), na.rm=TRUE)
ggplot(data = happy) +
 geom_mosaic(aes(weight=wtssall, x=product(health, sex, degree), fill=happy),
 na.rm=TRUE)
# here is where a bit more control over the spacing of the bars is helpful:
# set labels manually:
ggplot(data = happy) +
 geom_mosaic(aes(weight=wtssall, x=product(age), fill=happy), na.rm=TRUE, offset=0) +
 scale_x_productlist("Age", labels=c(17+1:72))
# thin out labels manually:
labels <- c(17+1:72)
labels[labels %% 5 != 0] <- ""
ggplot(data = happy) +
 geom_mosaic(aes(weight=wtssall, x=product(age), fill=happy), na.rm=TRUE, offset=0) +
 scale_x_productlist("Age", labels=labels)
ggplot(data = happy) +
 geom_mosaic(aes(weight=wtssall, x=product(age), fill=happy, conds = product(sex)),
 divider=mosaic("v"), na.rm=TRUE, offset=0.001) +
 scale_x_productlist("Age", labels=labels)
ggplot(data = happy) +
 geom_mosaic(aes(weight=wtssall, x=product(age), fill=happy), na.rm=TRUE, offset = 0) +
 facet_grid(sex~.) +
 scale_x_productlist("Age", labels=labels)
ggplot(data = happy) +
 geom_mosaic(aes(weight = wtssall, x = product(happy, finrela, health)),
 divider=mosaic("h"))
ggplot(data = happy) +
 geom_mosaic(aes(weight = wtssall, x = product(happy, finrela, health)), offset=.005)
# Spine example
ggplot(data = happy) +
geom_mosaic(aes(weight = wtssall, x = product(health), fill = health)) +
facet_grid(happy~.)
## End(Not run) # end of don't run
```

geom_mosaic_jitter Jittered dots in Mosaic plots.

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```
geom_mosaic_jitter
```

Description

A mosaic plat with jittered dots

Usage

```
geom_mosaic_jitter(
 mapping = NULL,
 data = NULL,
  stat = "mosaic_jitter",
  position = "identity",
 na.rm = FALSE,
 divider = mosaic(),
  offset = 0.01,
  drop_level = FALSE,
  seed = NA,
  show.legend = NA,
  inherit.aes = FALSE,
  . . .
)
stat_mosaic_jitter(
 mapping = NULL,
  data = NULL,
  geom = "mosaic_jitter",
 position = "identity",
 na.rm = FALSE,
  divider = mosaic(),
  show.legend = NA,
  inherit.aes = TRUE,
 offset = 0.01,
 drop_level = FALSE,
  seed = NA,
  . . .
)
```

Arguments

mapping	Set of aesthetic mappings created by aes(). If specified and inherit.aes = TRUE (the default), it is combined with the default mapping at the top level of the plot. You must supply mapping if there is no plot mapping.
data	The data to be displayed in this layer. There are three options: If NULL, the default, the data is inherited from the plot data as specified in the call to ggplot().
	A data.frame, or other object, will override the plot data. All objects will be fortified to produce a data frame. See fortify() for which variables will be created.
	A function will be called with a single argument, the plot data. The return value must be a data.frame, and will be used as the layer data. A function

	can be created from a formula (e.g. ~ head(.x, 10)).
stat	The statistical transformation to use on the data for this layer, either as a ggproto Geom subclass or as a string naming the stat stripped of the stat_ prefix (e.g. "count" rather than "stat_count")
position	Position adjustment, either as a string naming the adjustment (e.g. "jitter" to use position_jitter), or the result of a call to a position adjustment function. Use the latter if you need to change the settings of the adjustment.
na.rm	If FALSE (the default), removes missing values with a warning. If TRUE silently removes missing values.
divider	Divider function. The default divider function is mosaic() which will use spines in alternating directions. The four options for partitioning:
	 vspine Vertical spine partition: width constant, height varies. hspine Horizontal spine partition: height constant, width varies. vbar Vertical bar partition: height constant, width varies. hbar Horizontal bar partition: width constant, height varies.
offset	Set the space between the first spine
drop_level	Generate points for the max - 1 level
seed	Random seed passed to set.seed. Defaults to NA, which means that set.seed will not be called.
show.legend	logical. Should this layer be included in the legends? NA, the default, includes if any aesthetics are mapped. FALSE never includes, and TRUE always includes. It can also be a named logical vector to finely select the aesthetics to display.
inherit.aes	If FALSE, overrides the default aesthetics, rather than combining with them. This is most useful for helper functions that define both data and aesthetics and shouldn't inherit behaviour from the default plot specification, e.g. borders().
	other arguments passed on to layer. These are often aesthetics, used to set an aesthetic to a fixed value, like color = 'red' or size = 3. They may also be parameters to the paired geom/stat.
geom	The geometric object to use to display the data, either as a ggproto Geom sub- class or as a string naming the geom stripped of the geom_prefix (e.g. "point" rather than "geom_point")

Computed variables

xmin location of bottom left corner

xmax location of bottom right corner

ymin location of top left corner

ymax location of top right corner

Examples

data(titanic)

ggplot(data = titanic) +

geom_mosaic_text Labeling for Mosaic plots.

Description

A mosaic plot with text or labels

Usage

```
geom_mosaic_text(
 mapping = NULL,
  data = NULL,
  stat = "mosaic",
  position = "identity",
  na.rm = FALSE,
  divider = mosaic(),
  offset = 0.01,
  show.legend = NA.
  inherit.aes = FALSE,
  as.label = FALSE,
  repel = FALSE,
  repel_params = NULL,
  check_overlap = FALSE,
  . . .
)
```

Arguments

mapping

Set of aesthetic mappings created by aes(). If specified and inherit.aes = TRUE (the default), it is combined with the default mapping at the top level of the plot. You must supply mapping if there is no plot mapping.

data	The data to be displayed in this layer. There are three options:
	If NULL, the default, the data is inherited from the plot data as specified in the call to ggplot().
	A data.frame, or other object, will override the plot data. All objects will be fortified to produce a data frame. See fortify() for which variables will be created.
	A function will be called with a single argument, the plot data. The return value must be a data.frame, and will be used as the layer data. A function can be created from a formula (e.g. \sim head(.x, 10)).
stat	The statistical transformation to use on the data for this layer, either as a ggproto Geom subclass or as a string naming the stat stripped of the stat_ prefix (e.g. "count" rather than "stat_count")
position	Position adjustment, either as a string naming the adjustment (e.g. "jitter" to use position_jitter), or the result of a call to a position adjustment function. Use the latter if you need to change the settings of the adjustment.
na.rm	If FALSE (the default), removes missing values with a warning. If TRUE silently removes missing values.
divider	Divider function. The default divider function is mosaic() which will use spines in alternating directions. The four options for partitioning:
	• vspine Vertical spine partition: width constant, height varies.
	• hspine Horizontal spine partition: height constant, width varies.
	• vbar Vertical bar partition: height constant, width varies.
	• hbar Horizontal bar partition: width constant, height varies.
offset	Set the space between the first spine
show.legend	logical. Should this layer be included in the legends? NA, the default, includes if any aesthetics are mapped. FALSE never includes, and TRUE always includes. It can also be a named logical vector to finely select the aesthetics to display.
inherit.aes	If FALSE, overrides the default aesthetics, rather than combining with them. This is most useful for helper functions that define both data and aesthetics and shouldn't inherit behaviour from the default plot specification, e.g. borders().
as.label	Show as a ggplot label (box with round corners)
repel	Use ggrepel wo labels don't overlap
repel_params	List of ggrepel parameters (e.g. list(point.padding = 0))
check_overlap	If TRUE, text that overlaps previous text in the same layer will not be plotted. check_overlap happens at draw time and in the order of the data. Therefore data should be arranged by the label column before calling geom_label() or geom_text().
	other arguments passed on to layer. These are often aesthetics, used to set an aesthetic to a fixed value, like color = 'red' or size = 3. They may also be parameters to the paired geom/stat.

ggmosaic_app

Examples

```
data(titanic)
ggplot(data = titanic) +
 geom_mosaic(aes(x = product(Class), fill = Survived)) +
 geom_mosaic_text(aes(x = product(Class), fill = Survived))
ggplot(data = titanic) +
 geom_mosaic(aes(x = product(Class, Sex), fill = Survived),
              divider = c("vspine", "hspine", "hspine")) +
 geom_mosaic_text(aes(x = product(Class, Sex), fill = Survived),
             divider = c("vspine", "hspine", "hspine"), size = 2)
ggplot(data = happy) +
 geom_mosaic(aes(x = product(health), fill = happy), na.rm = TRUE, show.legend = FALSE) +
 geom_mosaic_text(aes(x = product(happy, health)), na.rm = TRUE)
# avoid overlapping text
ggplot(data = happy) +
 geom_mosaic(aes(x = product(health), fill = happy), na.rm = TRUE, show.legend = FALSE) +
 geom_mosaic_text(aes(x = product(happy, health)), na.rm = TRUE, check_overlap = TRUE)
# or use ggrepel
ggplot(data = happy) +
 geom_mosaic(aes(x = product(health), fill = happy), na.rm = TRUE, show.legend = FALSE) +
 geom_mosaic_text(aes(x = product(happy, health)), na.rm = TRUE, repel = TRUE)
# and as a label
ggplot(data = happy) +
 geom_mosaic(aes(x = product(health), fill = happy), na.rm = TRUE, show.legend = FALSE) +
 geom_mosaic_text(aes(x = product(happy, health)), na.rm = TRUE, repel = TRUE, as.label=TRUE)
```

ggmosaic_app Launch shiny app

Description

Shiny app "EDA with Mosaic Plots" for interactive exploratory model building

Usage

```
ggmosaic_app(example = c("mosaics", "models"), ...)
```

Arguments

example	Selected shiny app to launch.
	arguments passed on.

happy

Description

The data is a small sample of variables related to happiness from the general social survey (GSS). The GSS is a yearly cross-sectional survey of Americans, run since 1972. We combine data for more than 25 years to yield over 60 thousand observations, and of the over 5,000 variables, we select some variables that are related to happiness:

Usage

data(happy)

Format

A data frame with 62466 rows and 11 variables

- year. year of the response, 1972 to 2018.
- age. age in years: 18-89 (89 stands for all 89 year olds and older).
- · degree. highest education: It high school, high school, junior college, bachelor, graduate.
- finrela. how is your financial status compared to others: far below, below average, average, above average, far above.
- happy. happiness: very happy, pretty happy, not too happy.
- health. health: excellent, good, fair, poor.
- marital. marital status: married, never married, divorced, widowed, separated.
- sex. sex: female, male.
- polviews. from extremely conservative to extremely liberal.
- partyid. party identification: strong republican, not str republican, ind near rep, independent, ind near dem, not str democrat, strong democrat, other party.
- wtssall. probability weight. 0.39-8.74

hbar

Horizontal bar partition: width constant, height varies.

Description

Horizontal bar partition: width constant, height varies.

Usage

```
hbar(data, bounds, offset = 0.02, max = NULL)
```

hspine

Arguments

data	bounds data frame
bounds	bounds of space to partition
offset	space between spines
max	maximum value

hspine

Horizontal spine partition: height constant, width varies.

Description

Horizontal spine partition: height constant, width varies.

Usage

hspine(data, bounds, offset = offset, max = NULL)

Arguments

data	bounds data frame
bounds	bounds of space to partition
offset	space between spines
max	maximum value

mosa	

Template for a mosaic plot. A mosaic plot is composed of spines in alternating directions.

Description

Template for a mosaic plot. A mosaic plot is composed of spines in alternating directions.

Usage

mosaic(direction = "h")

Arguments

direction direction of first split

product

Description

Wrapper for a list

Usage

product(...)

Arguments

. . .

Unquoted variables going into the product plot.

Examples

```
data(titanic)
ggplot(data = titanic) +
  geom_mosaic(aes(x = product(Survived, Class), fill = Survived))
```

```
scale_type.productlist
```

```
Helper function for determining scales
```

Description

Used internally to determine class of variable x

Usage

```
## S3 method for class 'productlist'
scale_type(x)
```

Arguments

x variable

Value

character string "productlist"

Description

Determining scales for mosaics

Usage

```
scale_x_productlist(
  name = ggplot2::waiver(),
 breaks = product_breaks(),
 minor_breaks = NULL,
  labels = product_labels(),
  limits = NULL,
  expand = ggplot2::waiver(),
 oob = scales::censor,
  na.value = NA_real_,
  trans = "identity",
 position = "bottom",
  sec.axis = ggplot2::waiver()
)
scale_y_productlist(
  name = ggplot2::waiver(),
 breaks = product_breaks(),
 minor_breaks = NULL,
 labels = product_labels(),
 limits = NULL,
 expand = ggplot2::waiver(),
 oob = scales::censor,
  na.value = NA_real_,
  trans = "identity",
 position = "left",
  sec.axis = ggplot2::waiver()
)
```

ScaleContinuousProduct

Arguments

name

set to pseudo waiver function product_names by default.

breaks

• NULL for no breaks

One of:

- waiver() for the default breaks computed by the transformation object
- A numeric vector of positions

	• A function that takes the limits as input and returns breaks as output (e.g., a function returned by scales::extended_breaks()). Also accepts rlang lambda function notation.
minor_breaks	One of:
	• NULL for no minor breaks
	• waiver() for the default breaks (one minor break between each major break)
	• A numeric vector of positions
	• A function that given the limits returns a vector of minor breaks. Also accepts rlang lambda function notation.
labels	One of:
	• NULL for no labels
	• waiver() for the default labels computed by the transformation object
	• A character vector giving labels (must be same length as breaks)
	• An expression vector (must be the same length as breaks). See ?plotmath for details.
	• A function that takes the breaks as input and returns labels as output. Also accepts rlang lambda function notation.
limits	One of:
	• NULL to use the default scale range
	• A numeric vector of length two providing limits of the scale. Use NA to refer to the existing minimum or maximum
	• A function that accepts the existing (automatic) limits and returns new limits. Also accepts rlang lambda function notation. Note that setting limits on positional scales will remove data outside of the limits. If the purpose is to zoom, use the limit argument in the coordinate system (see coord_cartesian()).
expand	For position scales, a vector of range expansion constants used to add some padding around the data to ensure that they are placed some distance away from the axes. Use the convenience function expansion() to generate the values for the expand argument. The defaults are to expand the scale by 5% on each side for continuous variables, and by 0.6 units on each side for discrete variables.
oob	One of:
	 Function that handles limits outside of the scale limits (out of bounds). Also accepts rlang lambda function notation. The default (scales::censor()) replaces out of bounds values with NA. scales::squish() for squishing out of bounds values into range. scales::squish_infinite() for squishing infinite values into range.
na.value	Missing values will be replaced with this value.
trans	For continuous scales, the name of a transformation object or the object itself.
	Built-in transformations include "asn", "atanh", "boxcox", "date", "exp", "hms", "identity", "log", "log10", "log1p", "log2", "logit", "modulus", "probability", "probit", "pseudo_log", "reciprocal", "reverse", "sqrt" and "time".

	A transformation object bundles together a transform, its inverse, and methods for generating breaks and labels. Transformation objects are defined in the scales package, and are called <name>_trans (e.g., scales::boxcox_trans()). You can create your own transformation with scales::trans_new().</name>
position	For position scales, The position of the axis. left or right for y axes, top or bottom for x axes.
sec.axis	specify a secondary axis

Format

An object of class ScaleContinuousProduct (inherits from ScaleContinuousPosition, ScaleContinuous, Scale, ggproto, gg) of length 5.

spine

Spine partition: divide longest dimension.

Description

Spine partition: divide longest dimension.

Usage

```
spine(data, bounds, offset = offset, max = NULL)
```

Arguments

data	bounds data frame
bounds	bounds of space to partition
offset	space between spines
max	maximum value

squeeze Internal helper function

Description

Squeeze pieces to lie within specified bounds; directly copied from package productplots

Usage

```
squeeze(pieces, bounds = bound())
```

Arguments

pieces	rectangle specified via l(eft), r(ight), b(ottom), t(op)
bounds	rectangle specified via l(eft), r(ight), b(ottom), t(op)

Value

re-scaled values for piece according to boundaries given by bounds

Author(s)

Hadley Wickham

StatMosaic	Geom proto	
Description		
Geom proto		
StatMosaicJitter	Geom proto	
Description		
Geom proto		
StatMosaicText	Geom proto	

Geom proto

theme_mosaic

Description

Themes set the general aspect of the plot such as the colour of the background, gridlines, the size and colour of fonts. theme_mosaic provides access to the regular ggplot2 theme, but removes any background, most of the gridlines, and ensures an aspect ratio of 1 for better viewing of the mosaics.

Arguments

base_size	base font size
base_family	base font family

Examples

```
library(ggmosaic)
data(happy)
ggplot(data = happy) +
  geom_mosaic(aes(weight=wtssall, x=product(health), fill=happy), na.rm=TRUE) +
  theme_mosaic()
```

titanic

Passengers and crew on board the Titanic

Description

A dataset containing some demographics and survival of people on board the Titanic

Usage

titanic

Format

A data frame with 2201 rows and 4 variables:

Class factor variable containing the class of a passenger (1st, 2nd, 3rd) or crew.

Sex Male/Female.

Age Child/Adult. This information is not very reliable, because it was inferred from boarding documents that did not state actual age in years.

Survived Yes/No.

Description

Vertical bar partition: height constant, width varies.

Usage

vbar(data, bounds, offset = 0.02, max = NULL)

Arguments

data	bounds data frame
bounds	bounds of space to partition
offset	space between spines
max	maximum value

vspine

Vertical spine partition: width constant, height varies.

Description

Vertical spine partition: width constant, height varies.

Usage

vspine(data, bounds, offset = offset, max = NULL)

Arguments

data	bounds data frame
bounds	bounds of space to partition
offset	space between spines
max	maximum value

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