Package 'donutsk'

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Title Construct Advanced Donut Charts
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Description Build donut/pie charts with 'ggplot2' layer by layer, exploiting the advantages of polar symmetry. Leverage layouts to distribute labels effectively. Connect labels to donut segments using pins. Streamline annotation and highlighting.
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donut_geom

Create pie or donut chart

Description

Create pie or donut charts while retaining ggplot flexibility, such as leveraging faceting and palettes, and fine-tuning appearance

- The function geom_donut_int() creates visually **internal** donut layer as aggregation of passed values
- The function geom_donut_ext() creates visually **external** donut layer of passed values
- geom_donut_int0() and geom_donut_ext() are generic geoms not supporting highlight feature

Usage

```
geom_donut_int0(
 mapping = NULL,
 data = NULL,
  stat = "donut_int",
 position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE,
  r_{int} = 0,
 r_ext = 1,
 hl_shift = 0.1,
)
geom_donut_int(..., hl_col = "firebrick")
geom_donut_ext0(
 mapping = NULL,
 data = NULL,
  stat = "donut_ext",
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE,
  r_{int} = 1.5,
  r_ext = 2,
```

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```
hl_shift = 0.1,
)
geom_donut_ext(..., hl_col = "firebrick")
```

Arguments

Set of aesthetic mappings created by aes(). If specified and inherit.aes = mapping

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

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)).

The statistical transformation to use on the data for this layer, either as a ggproto stat

Geom subclass or as a string naming the stat stripped of the stat_ prefix (e.g.

"count" rather than "stat_count")

Position adjustment, either as a string naming the adjustment (e.g. "jitter" to position

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.

If FALSE, the default, missing values are removed with a warning. If TRUE, na.rm

missing values are silently removed.

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.

If FALSE, overrides the default aesthetics, rather than combining with them. inherit.aes

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().

r_int Internal donut radius

r_ext External pie or donut radius

hl shift Sets the spacing to show highlighted segments

Other arguments passed on to layer(). These are often aesthetics, used to set . . .

an aesthetic to a fixed value, like colour = "red" or size = 3. They may also

be parameters to the paired geom/stat.

hl_col Sets the color for highlighted segments. It's possible to use both simultaneously

hl_col and generic colour

donut_geom

Format

An object of class StatDonutInt (inherits from Stat, ggproto, gg) of length 4. An object of class StatDonutIntHl (inherits from Stat, ggproto, gg) of length 4. An object of class StatDonutExt (inherits from Stat, ggproto, gg) of length 4. An object of class StatDonutExtHl (inherits from Stat, ggproto, gg) of length 4.

Details

There are two additional aesthetics possible to use:

- highlight optional aesthetic which expects logical (TRUE/FALSE) variable in order to highlight particular donut segments
- opacity operates pretty much the same as alpha but ensure more contrast colors and removes legend. Once alpha is set opacity does not affect a chart

Value

None

```
# Create an example
set.seed(1605)
n <- 20
df <- dplyr::tibble(</pre>
  lvl1 = sample(LETTERS[1:5], n, TRUE),
  lv12 = sample(LETTERS[6:24], n, TRUE),
  value = sample(1:20, n, TRUE),
  highlight_ext = sample(c(FALSE, TRUE), n, TRUE, c(.7, .3))) >
  dplyr::mutate(highlight_int = ifelse(lvl1 == "A", TRUE, FALSE))
# Create a simple pie chart
ggplot(df, aes(value = value, fill=lvl1)) +
  geom_donut_int(alpha=.6) +
  coord_polar(theta = "y")
# Create a simple donut chart that can handle more granular data
# and highlight specific segments
ggplot(df, aes(value = value, fill=lvl2, highlight=highlight_ext)) +
  geom_donut_int(r_int=.5, alpha=.6, linewidth=.2) +
  coord_polar(theta = "y") +
  xlim(0, 1.5)
# Perform data preparation tasks with `packing()`
# and apply specific color
packing(df, value) |>
  ggplot(aes(value = value, fill=lvl2, highlight=highlight_ext)) +
  geom_donut_int(r_int=.5, alpha=.6, linewidth=.2, col = "gray20") +
  coord_polar(theta = "y") +
  xlim(0, 1.5)
```

```
# Built combined donut chart with interanl and external layers
dplyr::bind_rows(
# arrange by value
`arrange()` = dplyr::arrange(df, lvl1, lvl2, value),
# pack values for better space management
'packing()' = packing(df, value, lvl1),
.id = "prep_type") |>
 ggplot(aes(value = value, fill=lvl1)) +
 geom_donut_int(aes(highlight=highlight_int), alpha=.6) +
 geom_donut_ext(aes(opacity=lvl2, highlight=highlight_int)) +
 # apply facets
 facet_grid(~prep_type) +
 # style chart with palette and theme
 scale_fill_viridis_d(option = "inferno", begin = .1, end = .7) +
 theme_void() +
 coord_polar(theta = "y") +
 xlim(0, 2.5)
```

donut_label

Create pie or donut label and text annotations

Description

The set of annotation functions utilizes layout functions to effectively distribute labels within the available space Annotations are streamlined by leveraging pre-calculated special variables such as .sum, .mean, and .n (see Details).

- The function geom_label_int() creates geom_label-like **internal** donut layer as aggregation of passed values
- The function geom_text_int() creates geom_text-like **internal** donut layer as aggregation of passed values
- The function geom_label_ext() creates geom_label-like external donut layer of passed values
- The function geom_text_ext() creates geom_text-like external donut layer of passed values

Usage

```
geom_label_int(
  mapping = NULL,
  data = NULL,
  stat = "label_int",
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE,
  r = 1,
```

```
)
geom_text_int(
 mapping = NULL,
 data = NULL,
 stat = "text_int",
 position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE,
 r = 1,
)
geom_label_ext(
 mapping = NULL,
 data = NULL,
  stat = "label_ext",
 position = "identity",
 na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE,
  layout = circle(),
)
geom_text_ext(
 mapping = NULL,
 data = NULL,
  stat = "text_ext",
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE,
  layout = circle(),
)
```

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, or the result of a call to a position adjustment function. Cannot be jointly specified with nudge_x or nudge_y.
na.rm	If FALSE, the default, missing values are removed with a warning. If TRUE, missing values are silently removed.
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().
r	Sets the radius to place label or text for internal donut
	Other arguments passed on to layer(). These are often aesthetics, used to set an aesthetic to a fixed value, like colour = "red" or size = 3. They may also be parameters to the paired geom/stat.
layout	The layout function to effectively display text and labels

Format

An object of class StatLabelInt (inherits from Stat, ggproto, gg) of length 3. An object of class StatLabelExt (inherits from Stat, ggproto, gg) of length 3. An object of class StatLabelExt (inherits from Stat, ggproto, gg) of length 3. An object of class StatLextExt (inherits from Stat, ggproto, gg) of length 3.

Details

The label functions supports glue::glue() for convenient label construction like Total: {.sum}, where .sum is pre-calculated variable. You can still use glue::glue() or paste() functions to pass data.frame fields for label construction.

In addition to generic aesthetics like color, fill, alpha, etc., the following list of pre-calculated variables is available for geom_label_int() and geom_text_int():

- .sum: Summation of the value field
- .mean: Mean of the value field
- .median: Median of the value field
- .n: Observation count of the value field
- .prc: Percentage of the value field

For geom_label_ext() and geom_text_ext(), which are suitable for external donut labels, the following list of pre-calculated variables is available:

- .prc: Percentage of the value field for the entire multiplicity
- .prc_grp: Percentage of the value field for the group defined by fill

Value

None

See Also

layouts, pins

```
# Create an example data set
n <- 30
set.seed(2021)
df <- dplyr::tibble(</pre>
 lvl1 = sample(LETTERS[1:5], n, TRUE),
 lvl2 = sample(LETTERS[6:24], n, TRUE),
 value = sample(1:20, n, TRUE),
 highlight_ext = sample(c(FALSE, TRUE), n, TRUE, c(.9, .1))) >
 dplyr::mutate(highlight_int = dplyr::if_else(lvl1 == "A", TRUE, FALSE))
# Starting plot with doubled donuts and annotations for internal one
p <- dplyr::group_by(df, lvl1, lvl2, highlight_ext, highlight_int) |>
 dplyr::summarise(value = sum(value), .groups = "drop") |>
 packing(value, lvl1) |>
 ggplot(aes(value = value, fill = lvl1)) +
 geom_donut_int(aes(highlight = highlight_int), alpha=.5, r_int=.25) +
 geom_text_int(lineheight = .8, r=1.2, show.legend = FALSE,
 aes(label = "Sum {fill}:\n{.sum}-{scales::percent(.prc)}", col=lvl1)) +
 geom_donut_ext(aes(opacity = lvl2, highlight = highlight_ext)) +
 scale_fill_viridis_d(option = "inferno", begin = .1, end = .7) +
 scale_color_viridis_d(option = "inferno", begin = .1, end = .7) +
 guides(alpha=guide_legend(ncol = 2), fill=guide_legend(ncol = 2)) +
 theme_void() +
 theme(legend.position = "inside", legend.position.inside = c(0.1, 0.9))
p + coord_radial(theta = "y", expand = FALSE, rotate_angle = FALSE)
# Add labels to external donut as percent inside group
p + coord_radial(theta = "y", expand = FALSE, rotate_angle = FALSE) +
geom_label_ext(aes(label=paste0(lvl2, ": {scales::percent(.prc_grp)}")),
                show.legend = FALSE, size=3, col="white")
# Leverage ggplot2 feature for labels
p + coord_radial(theta = "y", expand = FALSE, rotate_angle = TRUE) +
geom_label_ext(aes(label=paste0(lvl2, ": {scales::percent(.prc)}")),
                show.legend = FALSE, size=3, col="white", angle=90,
```

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GDP

The World Bank GDP, PPP (current international \$)

Description

- A pre-processed subset of GDP data from the World Bank
- GDP, PPP means gross domestic product based on purchasing power parity
- current international \$ means actual (not adjusted to inflation) US dollars

Usage

GDP

Format

GDP:

A data frame with 6,004 rows and 5 columns:

```
date Year

country Country name

region Region hierarchy

region_ISO 3 letter ISO region codes

GDP GDP, PPP (current international $) ...
```

Source

```
https://data.worldbank.org/indicator/NY.GDP.MKTP.PP.CD
```

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layouts

The set of layout functions is designed to effectively display text and labels

Description

The layout functions help to streamline displaying text and labels *geoms* without overlapping effectively leveraging space available for pie and donut charts

- tv() The function builds layout resembled an old-fashioned TV screen
- petal() The function builds layout resembled flower with petals
- circle() The function builds circle layout
- eye() The function builds two-sided layout

Usage

```
tv(
  scale_x = 1.5,
  scale_y = 1.5,
  bend_x = 1,
  bend_y = 1,
  thinner = FALSE,
  thinner_gap = 0.1
petal(
  rotate = 0,
  n = 4,
  scale = 2.5,
  bend = 0.3,
  thinner = FALSE,
  thinner_gap = 0.1
)
circle(r = 2.5, thinner = FALSE, thinner_gap = 0.1)
eye(scale_x = 2, bend_x = 1, alpha = 90, clove = 0.5)
```

Arguments

scale_x	Scales the layout in horizontal perspective
scale_y	Scales the layout in vertical perspective
bend_x	Adjusts the bend level in horizontal perspective
bend_y	Adjusts the bend level in vertical perspective
thinner	Distributes text or label elements across two different levels

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thinner_gap	Sets the spacing between thinner levels
rotate	Rotates the layout clockwise
n	Sets the number of petals in the layout
scale	Scales the layout
bend	Manages the bending level
r	Sets the radius of the layout circle
alpha	Defines the angle of distribution in horizontal perspective. Pick up value from degree interval (0, 180)
clove	Determines the distribution proportion between the left and right-hand parts. Default value is 0.5 . There should be numeric value from interval $(0,1)$ e.g. 0.4 denotes 40% cases on the right hand and 60% cases on the left hand

Value

Layout functions return layout function i.e. a function that takes a vector of angles and returns a numeric radius vector giving a position for each input value.

Layout functions are designed to be used with the layout argument of donutsk functions.

See Also

Utilized in the following functions: geom_label_ext, geom_text_ext, geom_pin

```
# Render multiple layouts simultaneously
list(petal_2n = petal(n = 2),
     petal_3n = petal(n = 3, rotate = 180),
     petal_4n = petal(n = 4),
     tv_base = tv(),
     tv_ext = tv(bend_x = 0, bend_y = 0, thinner = TRUE)) >
  lapply(function(x){
    rlang::exec(x, 1:300/300) |>
      dplyr::tibble(r = _) \mid >
      dplyr::mutate(theta = 1:300/300)
  }) |>
  dplyr::bind_rows(.id = "layouts") |>
  ggplot(aes(x=r, y=theta, col = layouts)) +
  geom_point(alpha = .3) +
  coord_polar(theta = "y") +
  xlim(0, 3.5)
# The eye() layout generates table as an output
n <- 20
theta \leftarrow 1:n/n
dplyr::tibble(
  theta = theta,
  lbl = paste0("sample: ", sample(LETTERS, n, TRUE))
  ) |>
```

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```
dplyr::bind_cols(lt = eye()(theta)) |>
ggplot(aes(x=x, y=y)) +
geom_point(aes(x=1, y=theta)) +
geom_point() +
geom_segment(aes(x=1, xend=x, y=theta, yend=y), linewidth=.2) +
geom_label(aes(label=lbl, hjust=dplyr::if_else(theta > 0.5, 1, 0)),
nudge_x = .2) +
coord_polar(theta = "y") +
xlim(0, 5) +
ylim(0, 1)
```

packing

Arrange data to distribute small values

Description

Arrange data to distribute small values further apart from each other

Usage

```
packing(.data, value, level = NULL)
```

Arguments

.data A data frame, data frame extension (e.g. a tibble), or a lazy data frame (e.g. from dbplyr or dtplyr).
 value A .data field which contains values to distribute
 level A .data grouping field for distribution

Value

An object of the same type as .data.

```
# Create an example
n <- 20
df <- dplyr::tibble(
  lvl1 = sample(LETTERS[1:5], n, TRUE),
  lvl2 = sample(LETTERS[6:24], n, TRUE),
  value = sample(1:20, n, TRUE)
)

# Arrange all values
packing(df, value)

# Arrange values within values
packing(df, value, lvl1)</pre>
```

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pins

Connecting labels with donut segments

Description

The set of functions served to connect text or labels with donut segments

- geom_pin_line() builds curved line to linl label with donut segment
- geom_pin_head() builds stylish point heads for pins
- geom_pin() handy wrapper for geom_pin_line() and geom_pin_head()

Usage

```
geom_pin_line(
 mapping = NULL,
  data = NULL,
  stat = "pin",
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE,
  r = 1.5,
  cut = 0.1,
  layout = circle(),
)
geom_pin_head(
 mapping = NULL,
  data = NULL,
  stat = "point",
  position = "identity",
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE,
  r = 1.5,
  cut = 0.1,
  layout = circle(),
)
geom_pin(..., head = TRUE)
```

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.

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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, missing values are removed with a warning. If TRUE,

missing values are silently removed.

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().

r The radius where donut is placed

cut Sets additional two-sided gap for pins

layout The layout function to effectively display text and labels. Obviously it's better

to have the same as for geom_label_ext or geom_text_ext

... Parameters to be passed to geom_pin_line() and geom_pin_head()

head Boolean - defines whether to add pin head

Format

An object of class StatPinLine (inherits from Stat, ggproto, gg) of length 3.

An object of class StatPinHead (inherits from Stat, ggproto, gg) of length 3.

Value

None

See Also

layouts, donut_label

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```
n <- 30
set.seed(2021)
df <- dplyr::tibble(</pre>
  lvl1 = sample(LETTERS[1:5], n, TRUE),
  lvl2 = sample(LETTERS[6:24], n, TRUE),
  value = sample(1:20, n, TRUE),
  highlight_ext = sample(c(FALSE,TRUE), n, TRUE, c(.9, .1))) |>
  dplyr::mutate(highlight_int = dplyr::if_else(lvl1 == "A", TRUE, FALSE))
# Starting plot with doubled donuts and annotations for internal one
p <- dplyr::group_by(df, lvl1, lvl2, highlight_ext, highlight_int) |>
  dplyr::summarise(value = sum(value), .groups = "drop") |>
  packing(value, lvl1) |>
  ggplot(aes(value = value, fill = lvl1)) +
  geom_donut_int(aes(highlight = highlight_int), alpha=.5, r_int = .25) +
  geom_label_int(aes(label = "Sum {fill}:\n{.sum}-{scales::percent(.prc)}"),
                 alpha = .6, col = "white", size = 3, r=1.2) +
  geom_donut_ext(aes(opacity = lvl2, highlight = highlight_ext)) +
  scale_fill_viridis_d(option = "inferno", begin = .1, end = .7) +
  guides(alpha = guide_legend(ncol = 2), fill = guide_legend(ncol = 2)) +
  theme_void() +
  theme(legend.position = "none")
p + coord_radial(theta = "y", expand = FALSE, rotate_angle = FALSE)
# Add labels to external donut as percent inside group
p + coord_radial(theta = "y", expand = FALSE, rotate_angle = FALSE) +
  geom_label_ext(aes(label = paste0(lvl2, ": {scales::percent(.prc_grp)}")),
                 show.legend = FALSE, size=3, col="white") +
  geom_pin(size = .5, linewidth=.1, show.legend = FALSE, cut = .2)
# Leverage tv() layout
p + coord_radial(theta = "y", expand = FALSE, rotate_angle = FALSE) +
  geom_label_ext(aes(label = paste0(lvl2, ":{scales::percent(.prc_grp)}")),
                 show.legend = FALSE, size=3, col="white",
                 layout = tv(thinner = TRUE, thinner_gap = .15)) +
  geom_pin(size = .5, linewidth=.1, show.legend = FALSE, cut = .2,
           layout = tv(thinner = TRUE, thinner_gap = .15))
# Leverage another layout
p + coord_radial(theta = "y", expand = FALSE, rotate_angle = FALSE) +
  geom_label_ext(aes(label = paste0(lvl2, ": {scales::percent(.prc_grp)}")),
                 show.legend = FALSE, size=3, col="white", layout = eye()) +
  geom_pin(size = .5, linewidth=.1, show.legend = FALSE, layout = eye())
```

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