Package ‘ggalignment’

October 6, 2021

Type Package
Title Plots ‘D&D’-Style Alignment Charts
Version 1.0.0
Description ‘D&D’ alignment charts show 9 boxes with values for good through evil and values for chaotic through lawful. This package easily creates these alignment charts from user-provided image paths and alignment values.
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### alignment_vals  
*Alignment Values*

**Description**
A vector of possible alignment values.

**Usage**
alignment_vals

**Format**
A data.frame vector containing 1 column of 9 elements, each one a possible alignment

- **alignment** the nine possible alignments

**Source**
https://dungeonsdragons.fandom.com/wiki/Alignment

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### example_cats  
*Example Cats*

**Description**
Creates cat data with alignments for use in examples

**Usage**
example_cats()

**Value**
a data.frame containing example data for cats

**Examples**
example_cats()
ggalignment

Creates a D&D alignment chart

Description

The primary function of the package, this function creates a D&D alignment chart from a dataframe with `img`, `x`, and `y` columns!

Usage

```r
ggalignment(
  alignment,
  line_type = "dashed",
  line_color = "black",
  font_family = NULL,
  font_color = "black",
  font_size = NULL,
  background_color = "white",
  background_border = NA,
  max_images_per_dim = 2,
  max_image_dim = "width"
)
```

Arguments

- **alignment**: a data.frame containing the data to be plotted, requiring columns `img` (for image path) and `alignment`, and optionally `x` and `y` specifying the coordinates for each image, where each box has coordinate limits from -1 to 1 in both axes.
- **line_type**: the linetype for the box borders, which follows the ggplot2 allowable values for `linetype` for `geom_rect()` (e.g. blank, solid, dashed, dotted, dotdash, longdash, twodash)
- **line_color**: the color for the bounding boxes of the alignments, defaults to black, and must be a named color such as "black"
- **font_family**: the font family to be used on the alignment labels
- **font_color**: the font color to be used on the alignment labels
- **font_size**: the size of the font used on the alignment labels
- **background_color**: the background color for the entire plot, defaults to white and must be a named color such as "white"
- **background_border**: the color of the solid-line bounding box on the entire plot, defaults to NA and must be either NA or a named color such as "black"
- **max_images_per_dim**: numeric representing the number of images that should fit in a single fact – for example, if you want an image to take up half the width of the fact, use `max_images_per_dim = 2`
max_image_dim

one of "width" or "height", representing if the max_images_per_dim should count by width or height in the facet

Value

a ggplot containing the alignment chart

Examples

align_cats <- example_cats()
ggalignment(alignment = align_cats)
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