Package: xkcd (via r-universe)

May 12, 2026

Type Package

Title Plotting 'ggplot2' Graphics in an 'XKCD' Style

Version 0.1.0

Date 2025-10-23

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VignetteBuilder knitr

Description Provides custom geoms and themes to create charts and graphics in the distinctive, hand-drawn 'XKCD' webcomic style using the 'ggplot2' framework. The package utilizes custom layers for jittered lines, segments, circles, and figures, and includes a theme that supports the necessary 'XKCD' font.

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URL https://github.com/ToledoEM/xkcd, https://toledoem.github.io/xkcd

BugReports https://github.com/ToledoEM/xkcd/issues

Depends R (>= 4.0), ggplot2 (>= 3.4.0)

Imports Hmisc, stats, grid, rlang, extrafont

Suggests knitr, rmarkdown, zoo, reshape, splancs, lattice, pkgdown

RoxygenNote 7.3.3

Encoding UTF-8

Config/pak/sysreqs cmake make libicu-dev libuv1-dev

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

Date/Publication 2026-05-12 16:10:27 UTC

RemoteUrl https://github.com/toledoem/xkcd

RemoteRef HEAD

RemoteSha 2cc51c0169baca50a7fe812d2899177d5e6b4925

Contents

`xkcd-package` *Plotting 'ggplot2' Graphics in an 'XKCD' Style*

Description

Provides custom geoms and themes to create charts and graphics in the distinctive, hand-drawn 'XKCD' webcomic style using the 'ggplot2' framework. The package utilizes custom layers for jittered lines, segments, circles, and figures, and includes a theme that supports the necessary 'XKCD' font.

Details

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Author(s)

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Examples

```
## Not run: vignette("xkcd-intro")
```

geom_xkcdpath *GeomXkcdPath: fuzzy path/circle geom (XKCD style)*

Description

A ggplot2 geom that draws jittered, smoothed paths or fuzzy circles. It expects aesthetics like ‘x‘, ‘y‘, and either ‘xend‘/‘yend‘ (for segments) or ‘diameter‘ (for circles). Additional aesthetics (colour, alpha, linewidth, linetype) are respected.

Usage

```
geom_xkcdpath(
  mapping = NULL,
  data = NULL,
  stat = "identity",
  position = "identity",
  ...,
  xjitteramount = 0.01,
  yjitteramount = 0.01,
  mask = TRUE,
  show.legend = NA,
  inherit.aes = TRUE
)
```

Arguments

mapping	Aesthetic mapping.
data	Data frame.
stat	The statistical transformation to use on the data for this layer.
position	Position adjustment.
...	Other arguments passed on to layer().
xjitteramount	Horizontal jitter amount for segments.
yjitteramount	Vertical jitter amount for segments.
mask	Logical; if TRUE draws a thicker white mask path under the main path.
show.legend	Show legend.
inherit.aes	Whether to inherit aesthetics from the plot.

theme_xkcd *Creates an XKCD theme*

Description

This function creates an XKCD theme, applying the 'xkcd' font if available.

Usage

```
theme_xkcd()
```

Value

A theme object.

Note

The "xkcd" font must be installed and registered with `extrafont` for the full effect. See the vignette `vignette("xkcd-intro")` for installation instructions.

Examples

```
## Not run:
# Assuming 'xkcd' font is installed and registered:
p <- ggplot(mtcars, aes(mpg, wt)) +
     geom_point() +
     theme_xkcd()
p

## End(Not run)
```

xkcdaxis *Plot the axis*

Description

This function plots the axis in an XKCD style.

Usage

```
xkcdaxis(xrange, yrange, ...)
```

Arguments

xrange	The range of the X axe.
yrange	The range of the Y axe.
...	Other arguments passed to geom_xkcdpath.

Value

A list of layers containing the axes, coordinate system, and theme.

Examples

```
## Not run:
xrange <- range(mtcars$mpg)
yrange <- range(mtcars$wt)
p <- ggplot() +
     geom_point(aes(mpg, wt), data=mtcars) +
     xkcdaxis(xrange,yrange)
p

## End(Not run)
```

---

xkcdline *Draw lines or circles*

Description

Draw lines or circles

Usage

```
xkcdline(mapping, data, typexkcdline = "segment", mask = TRUE, ...)
```

Arguments

mapping	Aesthetic mapping
data	Dataset
typexkcdline	"segment" or "circunference"
mask	Logical
...	Additional arguments

---

xkcdman *Draw a stick figure*

Description

Draw a stick figure

Usage

```
xkcdman(mapping, data, ...)
```

Arguments

mapping	Aesthetic mapping
data	Dataset
...	Optional arguments

---

xkcdrect *Draw fuzzy rectangles*

Description

It draws fuzzy rectangles.

Usage

```
xkcdrect(
  mapping,
  data,
  ...,
  fillcolour = "grey90",
  bordercolour = "black",
  borderlinewidth = 0.5,
  borderxjitteramount = 0.005,
  borderyjitteramount = 0.005
)
```

Arguments

mapping	Mapping between variables and aesthetics generated by aes. See Details.
data	Dataset used in this layer.
...	Optional arguments.
fillcolour	The fill colour of the rectangle.
bordercolour	The colour of the fuzzy border lines.
borderlinewidth	The thickness of the fuzzy border lines. This is the package's implementation of the linewidth aesthetic.
borderxjitteramount	Horizontal jitter amount for the border.
borderyjitteramount	Vertical jitter amount for the border.

Details

This function draws fuzzy rectangles.

It plots rectangles. The following aesthetics are required:

1. xmin
2. ymin
3. xmax
4. ymax

Additionally, you can use the aesthetics of geom_path and geom_rect.

Value

A layer.

See Also

aes, geom_path

Examples

```
## Not run:
volunteers <- data.frame(year = c(2007:2011),
                         number = c(56470, 56998, 59686, 61783, 64251))

xrange <- range(volunteers$year)
yrange <- range(volunteers$number)

p <- ggplot() +
     xkcdrect(aes(xmin = year - 0.2,
                  xmax = year + 0.2,
                  ymin = number - 500,
                  ymax = number + 500),
              data = volunteers,
              fillcolour = "pink",
              borderlinewidth = 1.2) +
     geom_point(aes(x = year, y = number), data = volunteers) +
     xkcdaxis(xrange, yrange) +
     theme_xkcd()
p

## End(Not run)
```

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