

# Package ‘xkcd’

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**Type** Package

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

**Version** 0.1.0

**Date** 2025-10-23

**Maintainer** Enrique Toledo <enriquetoledo@gmail.com>

**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.

**License** MIT + file LICENSE

**URL** <https://github.com/ToledoEM/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

**NeedsCompilation** no

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**Repository** CRAN

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xkcd-package	<i>Plotting 'ggplot2' Graphics in an 'XKCD' Style</i>
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## 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

The DESCRIPTION file:

```

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Authors@R:    c( person(given = "Emilio", family = "Torres-Manzanera", role = "aut", email= "torres@uniovi.es"), person
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```

Index of help topics:

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geom_xkcdpath      GeomXkcdPath: fuzzy path/circle geom (XKCD
                  style)
theme_xkcd         Creates an XKCD theme
xkcd-package       Plotting 'ggplot2' Graphics in an 'XKCD' Style
xkcdaxis           Plot the axis

```

xkcdline	Draw lines or circles
xkcdman	Draw a stick figure
xkcdrect	Draw fuzzy rectangles

**Author(s)**

Emilio Torres-Manzanera [aut], Enrique Toledo [ctb, cre]  
 Maintainer: Enrique Toledo <enriquetoledo@gmail.com>

**Examples**

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

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geom_xkcdpath	<i>GeomXkcdPath: fuzzy path/circle geom (XKCD style)</i>
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**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.

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theme_xkcd	<i>Creates an XKCD theme</i>
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### 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)
```

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xkcdaxis	<i>Plot the axis</i>
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**Description**

This function plots the axis in an XKCD style.

**Usage**

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

**Arguments**

xrange	The range of the X axis.
yrange	The range of the Y axis.
...	Other arguments passed to <code>geom_xkcdpath</code> .

**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)
```

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xkcdline	<i>Draw lines or circles</i>
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---

**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

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xkcdman	<i>Draw a stick figure</i>
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**Description**

Draw a stick figure

**Usage**

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

**Arguments**

mapping	Aesthetic mapping
data	Dataset
...	Optional arguments

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xkcdirect	<i>Draw fuzzy rectangles</i>
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**Description**

It draws fuzzy rectangles.

**Usage**

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

## Arguments

mapping	Mapping between variables and aesthetics generated by <a href="#">aes</a> . 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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