

ggPlot2: Basics

Basic Plot `ggplot(dataset, aes(x, y, colour=z))`

ggPlot2: layers

mapping Some aesthetic mappings (*aes*)
 data The dataset to use
 geom Override default geom
 stat Override default stat
 position Adjustment for overlapping objects (dodge, fill, identity, jitter, stack)
 ... Parameters for geom or stat; also aesthetics with constant values

Layers may be added to plot objects using the *layer* command or *stat_...* and *geom_...* functions. Parameters not set are taken from the function's or plot's default values.

ggPlot2: Stats

bin
 boxplot
 contour
 density
 density2d
 function
 identity
 qq
 quantile
 smooth
 spoke
 step
 sum
 summary
 unique

ggPlot2: Geoms

abline **intercept**, linetype, size, **slope**
 area fill, linetype, size, **x, y**
 bar fill, linetype, size, weight, **x, y**
 bin2d fill, linetype, size, weight, **xmin, xmax, ymin, ymax**
 boxplot fill, **lower, middle**, size, **upper**, weight, **x, ymax, ymin**
 contour linetype, size, weight, **x, y**
 crossbar fill, linetype, size, **x, y, ymax, ymin**
 density fill, linetype, size, weight, **x, y**
 density2d linetype, size, weight, **x, y**
 errorbar fill, linetype, size, **x, y, ymax, *ymin**
 freqpoly linetype, size
 hex fill, size, **x, y**
 histogram fill, linetype, size, weight, **x**
 hline linetype, size
 jitter fill, shape, size, **x, y**
 line linetype, size, **x, y**
 linerange linetype, size, **x, ymax, ymin**
 path linetype, size, **x, y**
 point fill, shape, size, **x, y**
 pointrange fill, linetype, shape, size, **x, y, ymax, ymin**
 polygon fill, linetype, size, **x, y**
 quantile linetype, size, weight, **x, y**
 rect fill, linetype, size, **xmax, xmin, ymax, ymin**
 ribbon fill, linetype, size, **x, ymax, ymin**
 rug linetype, size
 segment colour, linetype, size, **x, xend, y, yend**

ggPlot2: Geoms (cont)

smooth fill, linetype, size, weight, **x, y**
 step linetype, size, **x, y**
 text angle, hjust, **label**, size, vjust, **x, y**
 tile fill, linetype, size, **x, y**
 vline linetype, size

Additionally, all geoms have *colour* and *alpha* aesthetics. Bold values are required (or provided by used statistics).