	Method	Argument Name	Argument Value	Argument info	Method info
g= **g(ind_row,ind_col)=**	**gramm(**	`'x'`	x variable	1D array/cellstr of length N, Matrix of size (N,M) , (N,1) cell of 1D arrays	
		`'y'`	y variable	1D array of length N, Matrix of size (N,M) , (N,1) cell of 1D arrays	
		`'color'`	color grouping/continuous variable	1D array/cellstr of length N	Constructor for the class.
		`'lightness'`	lightness grouping variable	1D array/cellstr of length N	Must be called first and result assigned to a variable
		`'linestyle'`	linestyle grouping variable	1D array/cellstr of length N	Use to provide the data to be plotted
		`'marker'`	marker grouping variable	1D array/cellstr of length N	
		`'size'`	size grouping variable	1D array/cellstr of length N	
		`'group'`	subgrouping variable	1D array/cellstr of length N	
		`'subset'`	selection variable	1D Logical array of length N	
g. **g(ind_row,ind_col).**	**facet_grid(**		row grouping variable	1D array/cellstr of length N	
			column grouping variable	1D array/cellstr of length N	
		`'scale'`	`'fixed'`	Same x and y limits on all subplots	
			`'free_x'`	Same y limits on all subplots, same x limits within columns	
			`'free_y'`	Same x limits on all subplots, same y limits within rows	
			`'free'`	Same x limits within columns, same y limits within rows	Use to provide data that will determine separation between
			`'independent'`	Independent limits on each plot	sublots rows and columns. First argument provided will
		`'space'`	`'fixed'`	Same x and y axe size on all subplots	separate along rows, second will separate along columns
			`'free_x'`	Axis width proportional to x limits (requires 'scale', 'free_x' or 'free')	
			`'free_y'`	Axis height proportional to y limits (requires 'scale', 'free_y' or 'free')	
			`'free'`	Axis width and height proportional to x and y limits (requires 'scale','free')	
		`'force_ticks'`	true/false	Do we override defaults and force ticks on all subplots	
	facet_wrap(		column grouping variable	1D array/cellstr of length N	Use to provide data that will determine separation between
		`'ncols'`	4	After how many columns do we wrap and create a new row	sublots columns, with a wrapping: a new row of subplots is
		`'scale'`	...	Same as argument in gramm facet_grid()	created when ncols is reached
		`'force_ticks'`	true/false	Do we override defaults and force ticks on all subplots	
	geom_point(	`'dodge'`	0.5		Represent raw data as points (supports color, lightness, marker, size)
	geom_jitter(	`'width'`	0.5	How much are the points jittered in horizontal direction (in data units)	Represent raw data as jittered points, useful when lots of overlapping points, e.g. with discrete values (supports color, lightness, marker, size)
		`'height'`	0.1	How much are the points jittered in vertical direction (in data units)	
		`'dodge'`	0.5	When using multiple colors, use to dodge graphical elements between colors with the same x value	
	geom_line(	`'dodge'`	0.5	When using multiple colors, use to dodge graphical elements between colors with the same x value	Represent raw data with lines (supports color, lightness, marker, size). If x and y are 1D arrays, all points within a group will be connected !
	geom_raster(	`'geom'`	`'point'`	raster elements are points	Represents raw x data as a raster plot
			`'line'`	raster elements are lines	
	geom_bar(	`'width'`	0.6	Provide to set the width of errorbars	
		`'dodge'`	0.8	When using multiple colors, use to dodge graphical elements between colors with the same x value	
		`'stacked'`	true/false	Se to true to have bars placed at the same x stacked	
	geom_interval(	`'geom'`	`'area'`	Same 'geom' as in stat_summary()	
			...		Represent intervals provided 'ymin' and 'ymax' data (error bars, area)
		`'width'`	0.6	Provide to set the width of bars and errorbars	
		`'height'`	0.7	When using multiple colors, use to dodge graphical elements between colors with the same x value	
	stat_summary(	`'type'`	`'ci'`	mean & 95% CI of the mean (assumes normal data)	
			`'bootci'`	mean & bootstrapped 95%CI of the mean	
			`'sem'`	mean and standard error of the mean	
			`'std'`	mean and standard deviation	
			`'quartile'`	median and quartiles	
			`'95percentile'`	median and 95% percentiles	
			`'fitnormalci'`	mean and 95% CI of the mean from fitted normal distribution	
			`'fitpoissonci'`	mean and 95% CI of the mean from fitted Poisson distribution	
			`'fitbinomialci'`	mean and 95% CI of the mean from fitted binomial distribution	Represents summarized Y data per unique values of X. By
		`'geom'`	`'area'`	means connected by a line, CI as shaded transparent area	default, it will group all Y values that have the same X value, compute the summary variables of interest ('type' argument), and
			`'lines'`	means connected by a line, CI as thin lines	plot it according to the 'geom' argument.
			`'line'`	means connected by a line	
			`'solid_area'`	means connected by a line, CI as solid shaded area (use for vector exports in pre 2014b versions)	If X and Y are provided as 1D arrays but X values are not discrete enough, it is possible to compute the Y summaries over X bins with the 'bin_in' argument
			`'black_errorbar'`	CI as black errorbar	
			`'errorbar'`	CI as colored errorbar	If X is provided as a matrix or a cell of arrays but every element
			`'bar'`	means as colored bars	has non-aligned X values, the argument 'interp_in' can be used
			`'point'`	means as points	to create aligned X values by interpolation over X.
		`'setylim'`	true/false	Do we set the YLim for the subplot according to the summary or the data?	
		`'interp'`	`'linear'`	Provide to interpolate the output (corresponds to the methods argument of interp1). Use 'polar' for circular data.	
		`'interp_in'`	100	Provide to linearly interpolate the input over x (corresponds to number of x points)	
		`'bin_in'`	10	Provide to bin inputs over x values (corresponds to number of bins)	
		`'width'`	0.6	Provide to set the width of bars and errorbars	
		`'dodge'`	0.7	When using multiple colors, use to dodge graphical elements between colors with the same x value	
	stat_smooth(	`'lambda'`	1000	Smoothing parameter (low values smooth less)	Represents fast spline smoothed Y data with confidence interval.
		`'npoints'`	100	Number of points over which the smooth is evaluated	This is not proper to use when X/Y are matrices or cells of arrays
		`'geom'`	...	Same geom as in gramm stat_summary()	
	stat_glm(	`'distribution'`	`'normal'`	Same argument as fitglm()	
			...		
		`'geom'`	...	Same geom as in gramm stat_summary()	
		`'fullrange'`	true/false	Do we display the fit over the whole x axis, or just the range of the value used for the fit	Fits and displays generalized linear models to the data.
		`'disp_fit'`	true/false	Do we display the fitted equations (with pvals stars)	
	stat_fit(	`'fun'`	@(param1,param2,x)x.^param1+param2	Anonymous function with parameters to fit as first arguments and x as last argument	
		`'StartPoint'`	[param1_start param2_start]	Array with starting values of parameters	
		`'intopt'`	`'observation'`	95% bounds on a new observation (see option of predint())	
			`'functional'`	95% bounds for the fitted function	Fits and displays a provided custom function to the data
		`'fullrange'`	true/false	Do we display the fit over the whole x axis, or just the range of the value used for the fit	
		`'disp_fit'`	true/false	Do we display the fitted equations	
		`'geom'`	...	Same geom as in gramm stat_summary()	

Method	Argument Name	Argument Value	Argument info	Method info
stat_bin(	`'nbins'`	`30`	Number of bins	
	`'edges'`	`-20 : 0.5 : 20`	Edges ovf bins (overrides 'nbins')	
	`'geom'`	`'bar'`	Results as dodged bars	
		`'line'`	Results connected by a line	
		`'overlaid_bar'`	Results as overlaid bars (use transparency)	
		`'stacked_bars'`	Results as stacked bars	
		`'stairs'`	Results as stair line	
		`'point'`	Results as points	
	`'normalization'`	`'count'`		
		`...`	Same as 'Normalization' argument of histcounts()	
	`'fill'`	`'face'`		
		`'edge'`		
		`'all'`		
		`'transparent'`		
	`'width'`	`0.6`	Provide to specify width of bars	
	`'dodge'`	`0.7`	Provide to specify dodging between elements	
stat_cornerhist(	`'location'`		x (or y) location of the inset axis on the unity line of the parent	Display an histogram of the x-y difference in an inset axis
	`'aspect'`	`0.3`	Aspect ratio (y/x) of the inset axis	
	`'edges'`	`...`	Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported	
stat_density(	`'bandwidth'`		Same argument as ksdensity()	
	`'function'`	`'pdf'`		
		`...`	Same argument as ksdensity()	
	`'kernel'`	`'normal'`		
		`...`	Same argument as ksdensity()	
	`'npoints'`	`100`	How many points are used to plot the density	
	`'extra_x'`	`10`	Extend the x value range over which the density is evaluated	
stat_bin2d(	`'nbins'`	`[n_xbins n_ybins]`		
	`'edges'`	`{x_edges_array, y_edges_array}`		
	`'geom'`	`'image'`		
		`'contour'`		
stat_ellipse(	`'type'`	`'95percentile'`	Fit ellipse that contains 95% of the points (assuming bivariate normal)	
		`'ci'`	Fit ellipse that contains 95% of the bootstrapped xy means	
	`'geom'`	`'area'`	Plot the ellipse as a shaded area with outline	
		`'line'`	Just plot the outline of the ellipse	
	`patch_opts`			
stat_qq(	`'distribution'`	`makedist('Normal',0,1)`	Provide a theoretical distribution to plot x against using Matlab's makedist() function. Set to 'y' to plot x against y densities.	Quantile-quantile plot
stat_boxplot(	`'width'`	`0.6`	Width of boxes	Box and whisker plots of y data for each unique x value
	`'dodge'`	`0.7`	Dodging between boxes of different colors within unique x values	
	`'notch'`	`false`	Add notches at median ± 1.58 IQR /sqrt(N) to the boxplot	
stat_violin(	`'normalization'`	`'area'`	Equal violin areas	
		`'count'`	Areas proportional to point count	
		`'width'`	Equal violin widths	
	`'half'`	`false`	Same argument as stat_density()	
	`'bandwidth'`		Same argument as stat_density()	
	`'kernel'`	`'normal'`	Same argument as stat_density()	
	`'npoints'`	`100`	Same argument as stat_density()	
	`'extra_y'`	`0`	Same argument as stat_density()	
	`'fill'`	`'face'`	Same argument as stat_bin()	
	`'width'`	`0.6`		
	`'dodge'`	`0.7`		
geom_abline(	`'intercept'`	`0`	Single value or 1D array of size P	
	`'slope'`	`1`	Single value or 1D array of size P	
	`'style'`	`'k--'`	Single string or 1D cellstr of size P	
geom_vline(	`'xintercept'`	`1`	Single value or 1D array of size P	
	`'style'`	`'k--'`	Single string or 1D cellstr of size P	
geom_hline(	`'yintercept'`	`1`	Single value or 1D array of size P	
	`'style'`	`'k--'`	Single string or 1D cellstr of size P	
geom_funline(	`'fun'`	`@(x)exp(sin(x-pi))`	Anonymous function or cell of anonymous functions	
	`'style'`	`'k--'`	Single string or 1D cellstr of size P	
set_names(	`'x'`	`'x axis legend'`	Legend for the x axes	
	`'y'`	`'y axis legend'`	Legend for the y axes	
	`'row'`	`'row legend'`	TItle of the row legends (actual titles will be a combination of title and value)	
	`'column'`	`'column legend'`	TItle of the column legends (actual titles will be a combination of title and value)	
	`'color'`	`'color legend'`	Title of the color legend (actual legend will use the values)	
	`...`		All other titles for the gramm() arguments	
set_title(	`'Title'`		Desired title	Call on individual gramm objects to set title. Call on array of gramm objects to set global title
	`'FontSize'`	`16`	Any text property 'Name',value pair	
set_polar(	`'closed'`	`true/false`	Do we connect the first and last points ?	
	`'maxy'`	`10`	Impose the max of the radial scale (default corresponds to the max of y values)	
set_stat_options(	`'alpha'`	`0.05`	Alpha-level for confidence intervals	
	`'nboot'`	`200`	Number of bootstrap samples	
set_color_options(	`'map'`	`'lch'`	Default HCL-based colormap	
		`'matlab'`	Matlab's own post 2014b map	
		`'brewer1' 'brewer2' 'brewer3' 'brewer_pastel' 'brewer_dark'`	colorbrewer2.org colormaps	
		`[0.1 0   0` ` 0  0.2 0.9]`	Custom colormap as Nx3 matrix	
	`'lightness_range'`	`[85 15]`		
	`'chroma_range'`	`[30 90]`		
	`'hue_range'`	`[25 385]`		
	`'lightness'`	`65`		
	`'chroma'`	`75`		
set_point_options(	`'markers'`	`{'o' 's' 'd' '^' 'v' '>' '<' 'p' 'h' '*' '+' 'x'}`	Set order for marker categories	
	`'base_size'`	`5`	Set marker base size	
	`'step_size'`	`2`	Set size categories size increment	
	`'use_input'`	`false`	Set to true to use the actual values of size categories as marker	
	`'input_fun'`	`@(s)s`	when 'use_input' is set to true, provide a function to map category value to marker size	
set_line_options(	`'styles'`	`{'-' '--' ':' '-.'}`	Set order for line style categories	
	`...`		Same size options as set_point_options()	

	Method	Argument Name	Argument Value	Argument info	Method info
	`set_order_options(`	`'x'`	`1`	Values sorted in ascending order (numeric or alphabetical)	
			`0`	Keep order of appearance of values in the input	
			`-1`	Values sorted in descending order	
			`[value1 value2 value3 …]` `{'value1' 'value2' 'value3' …}`	Values ordered according as in the provided array/cell (all unique values have to be present in the array/cell	
			`[index1 index2 index3 …]`	Values ordered according as in the provided indices (array of indices in the sorted values array/cell)	
		`'color'`			
		`...`			
	`set_continuous_color(`	`'colormap'`	`'hot'`		
		`'LCH_colormap'`	`[L_start L_end; C_start C_end ; H_start H_end]`		
	`set_text_options(`	`'font'`	`'Helvetica'`	Font to use for all text	
		`'base_size'`	`10`	Base text size, corresponds to axis ticks text size	
		`'label_scaling'`	`1`	Scaling of axis label sizes relative to base	
		`'legend_scaling'`	`1`	Scaling of legend label sizes relative to base	
		`'legend_title_scaling'`	`1.2`	Scaling of legend title sizes relative to base	
		`'facet_scaling'`	`1.2`	Scaling of facet title sizes relative to base	
		`'title_scaling'`	`1.4`	Scaling of facet title sizes relative to base	
		`'big_title_scaling'`	`1.4`	Scaling of overarching figure title size relative to base	
	`axe_property(`	`'axe_property'`	`axe_property_value`	Pass one or multiple name,value pairs for Axes Properties (XLim,XGrid, DataAspectRatio…)	
	`no_legend(`				
	`set_limit_extra(`		`[0.05 0.05]`	How much do we extend limits of x axis (ratio wrt original limits)	
			`[0.05 0.05]`	How much do we extend limits of y axis (ratio wrt original limits)	
	`set_datetick(`	`'x'`	`1`	Same arguments as datetick(): tickaxis,dateformat	
		`'y'`	`2`		
g.	`draw(`		`false`	Give false as (optional) argument to disable automatic setting of redraw() as resizing callback	Draw the plot ! Call on an array of gramm objects to draw all elements on the same figure. The plots are then located according to the row and column indices in the array)
	`redraw(`		`0.05`	Redraw with custom spacing	
g.	`update(`	`'color'`	`new color grouping variable`	update() takes the same type of arguments as gramm(). Provide the variables you want to change or add for the following layers. All the other variables will stay as defined by the first call to gramm().	Call update() after a first draw() call in order to change grouping variables for the next layers. Note that after an update() call it is also possible to update facets with facet_grid() or facet_wrap(). for facet updates, the only supported update is going from one facet to multiple ones, or from multiple facets to one: in each case, the layers drawn on the single facet will be copied to the other facets.
		`...`			

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