	Method	Argument Name	Argument Value	Argument info	Method info
g=	gramm(x variable	1D array/cellstr of length N, Matrix of size (N,M) , (N,1) cell of 1D	
g(ind_row,ind_col)=	gramm(1D array of length N, Matrix of size (N,M), (N,1) cell of 1D arrays	
		'color'	y variable color grouping/continuous variable	1D array/cellstr of length N	
			lightness grouping variable	1D array/cellstr of length N	Constructor for the class. Must be called first and result assigned to a variable
			linestyle grouping variable marker grouping variable	1D array/cellstr of length N 1D array/cellstr of length N	Use to provide the data to be plotted
		'size'	size grouping variable	1D array/cellstr of length N	
		'group' 'subset'	subgrouping variable selection variable	1D array/cellstr of length N 1D Logical array of length N	
g.	facet_grid(row grouping variable	1D array/cellstr of length N	
<pre>g(ind_row,ind_col).</pre>		'scale'	<pre>column grouping variable 'fixed'</pre>	1D array/cellstr of length N Same x and y limits on all subplots	
			'free_x'	Same y limits on all subplots, same x limits within columns	
			'free_y' 'free'	Same x limits on all subplots, same y limits within rows Same x limits within columns, same y limits within rows	
			'independent'	Independent limits on each plot	Use to provide data that will determine separation between subblots rows and columns. First argument provided will separate along rows,
		'space'	'fixed' 'free_x'	Same x and y axe size on all subplots Axis width proportional to x limits (requires 'scale', 'free_x' or 'free')	second will separate along columns
			'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'	
	facet_wrap('force_ticks'	column grouping variable	Do we override defaults and force ticks on all subplots 1D array/cellstr of length N	
		'ncols'		After how many columns do we wrap and create a new row	Use to provide data that will determine separation between subblots columns, with a wrapping: a new row of subplots is created when
		'scale' 'force_ticks'		Same as argument in gramm facet_grid() Do we override defaults and force ticks on all subplots	ncols is reached
	geom_point(- 'dodge'			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,
		'height'	0.1	How much are the points jittered in vertical direction (in data units)	lightness, marker, size)
		'dodge'	0.5	When using multiple colors, use to dodge graphical elements between colors with the same x value	
				When using multiple colors, use to dodge graphical elements	Represent raw data with lines (supports color, lightness, marker,
	<pre>geom_line(</pre>	'dodge'	0.5	between colors with the same x value	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
	geom_bar('width'	'line' 0.6	Provide to set the width of errorbars	
	3,	'dodge'		When using multiple colors, use to dodge graphical elements	
			true/false	Se to true to have bars placed at the same x stacked	
	geom_interval('area'	Same 'geom' as in stat_summary()	
					Represent intervals provided 'ymin' and 'ymax' data (error bars,
		'width'	0.6	Provide to set the width of bars and errorbars	area)
		'height'	0.7	When using multiple colors, use to dodge graphical elements between colors with the same x value	
	stat_summary('type'	'ci'	mean & basic 95% CI of the mean (1.96 * sem)	
			'bootci' 'sem'	mean & bootstrapped 95%CI of the mean mean and standard error of the mean	
			'std'	mean and standard deviation	
			'quartile' '95percentile'	median and quartiles median and 95% percentiles	
			'fitnormalci' 'fitpoissonci'	mean and 95% CI of the mean from fitted normal distribution 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 default, it
		'geom'	'area' 'lines'	means connected by a line, CI as shaded transparent area means connected by a line, CI as thin lines	will group all Y values that have the same X value, compute the summary variables of interest ('type' argument), and plot it
			'line'	means connected by a line	according to the 'geom' argument. If X and Y are provided as 1D arrays but X values are not discrete
			'solid_area'	means connected by a line, CI as solid shaded area (use for vector exports in pre 2014b versions)	enough, it is possible to compute the Y summaries over X bins with the 'bin_in' argument
			'black_errorbar'	CI as black errorbar	If X is provided as a matrix or a cell of arrays but every element has
			'errorbar' 'bar'	CI as colored errorbar means as colored bars	non-aligned X values, the argument 'interp_in' can be used to create aligned X values by interpolation over X.
			'point'	means as points	J
		'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) Provide to bin inputs over x values (corresponds to number of bins)	
		'bin_in' 'width'		Provide to set the width of bars and errorbars	
		'dodge'	0.7	When using multiple colors, use to dodge graphical elements	
	stat_smooth('lambda'		Smoothing parameter (low values smooth less)	
		'npoints'	100	Number of points over which the smooth is evaluated	Represents fast spline smoothed Y data with confidence interval. This is not proper to use when X/Y are matrices or cells of arrays
	stat_glm('geom'		Same geom as in gramm stat_summary() Same argument as fitglm()	
		'geom'		Same geom as in gramm stat_summary() Do we display the fit over the whole x axis, or just on the range of the	Fits and displays generalized linear models to the data.
		'fullrange'		value used for the fit	
			true/false	Do we display the fitted equations (with pvals stars) Anonymous function with parameters to fit as first arguments and x	
	stat_fit(<pre>@(param1,param2,x)x.^param1+param2</pre>	as last argument	
			<pre>[param1_start param2_start] 'observation'</pre>	Array with starting values of parameters 95% bounds on a new observation (see ontion of predint())	
		'intopt'	'observation' 'functional'	95% bounds on a new observation (see option of predint()) 95% bounds for the fitted function	Fits and displays a provided custom function to the data
		'fullrange'		Do we display the fit over the whole x axis, or just on the range of the	
			true/false	value used for the fit Do we display the fitted equations	
		'geom'		Same geom as in gramm stat_summary()	
	stat_bin('nbins'		Number of bins	

Method	Argument Name	Argument Value	Argument info	Method info
		-20 : 0.5 : 20	Edges ovf bins (overrides 'nbins')	
	'geom'		Results as dodged bars	
		'line'	Results connected by a line	
		<pre>'overlaid_bar' 'stacked_bars'</pre>	Results as overlaid bars (use transparency) Results as stacked bars	
		'stairs'	Results as stair line	
		'point'	Results as points	
	'normalization'	'count'	Same as 'Normalization' argument of histcounts()	
	'fill'		v v	
		'edge'		
		'all' 'transparent'		
	'width'		Provide to specify width of bars	
	'dodge'	0.7	Provide to specify dodging between elements	
stat_cornerhist('location' 'aspect'	0.3	x (or y) location of the inset axis on the unity line of the parent axis Aspect ratio (y/x) of the inset axis	
	'edges'		Same options as stat_bin(). 'specifying edges is recommended,	Display an histogram of the x-y difference in an inset axis
stat_density('bandwidth'		stacked_bar geom unsupported Same argument as ksdensity()	
scat_density('function'	'pdf'	Same argument as ksuensity()	
		•••	Same argument as ksdensity()	
	'kernel'		Same argument as ksdensity()	
	'npoints'	100	How many points are used to plot the density	
	'extra_x'		Extend the x value range over which the density is evaluated	
stat_bin2d(<pre>[n_xbins n_ybins] {x_edges_array, y_edges_array}</pre>		
		<pre>{x_edges_array, y_edges_array} 'image'</pre>		
		'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	
	natah	'line'	Just plot the outline of the ellipse	
	patch_opts	makadist (IV-mall 1 a di	Provide a theoretical distribution to plot x against using Matlab's	Quantile quantile slat
stat_qq(<pre>makedist('Normal',0,1)</pre>	makedist() function. Set to 'y' to plot x against y densities.	Quantile-quantile plot
stat_boxplot('width' 'dodge'		Width of boxes Dodging between boxes of different colors within unique x values	Box and whisker plots of y data for each unique x value
	'notch'		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	
	'half'	'width' false	Equal violin widths Same argument as stat_density()	
	'bandwidth'		Same argument as stat_density()	
	'kernel'		Same argument as stat_density()	
	<pre>'npoints' 'extra_y'</pre>		Same argument as stat_density() Same argument as stat_density()	
	'fill'		Same argument as stat_bin()	
	'width'			
geom_abline('dodge' 'intercept'		Single value or 1D array of size P	
·	'slope'		Single value or 1D array of size P	
1	'style'		Single string or 1D cellstr of size P	
<pre>geom_vline(</pre>	'style'		Single value or 1D array of size P Single string or 1D cellstr of size P	
<pre>geom_hline(</pre>	'yintercept'		Single value or 1D array of size P	
goom funling/	'style'	'k' @(x)exp(sin(x-pi))	Single string or 1D cellstr of size P	
<pre>geom_funline(</pre>	'style'		Anonymous function or cell of anonymous functions Single string or 1D cellstr of size P	
set_names('x axis legend'	Legend for the x axes	
		'y axis legend'	Legend for the y axes Title of the row legends (actual titles will be a combination of title	
	'row'	'row legend'	and value)	
	'column'	'column legend'	Title of the column legends (actual titles will be a combination of	
		'color legend'	title and value) 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
	'FontSize'	16	Any text property 'Name',value pair	objects to set global title
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_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	Custom colormap as Nx3 matrix	
	'lightness_range'	0 0.2 0.9]		
	chroma_range			
	'hue_range'			
	'lightness' 'chroma'			
set_point_options(75 {'o' 's' 'd' '^' 'v' '>' '<' 'p' 'h' '*' '+' 'x'}	Set order for marker categories	
operons(base_size		Set order for marker categories Set marker base size	
	'step_size'		Set size categories size increment	
	'use_input'	false	Set to true to use the actual values of size categories as marker sizes	
	'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	
set_order_options(···	1	Same size options as set_point_options() Values sorted in ascending order (numeric or alphabetical)	
soc_order_operons(0	Keep order of appearance of values in the input	
		-1	Values sorted in descending order	

	Method	Argument Name	Argument Value	Argument info	Method info
			<pre>[value1 value2 value3] {'value1' 'value2' 'value3'}</pre>	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'		in the sorted values array/cell)	
		•••			
	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	
	'leg	end_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	
		'у'	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.