	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)=	gr cmm (y variable	arrays 1D array of length N, Matrix of size (N,M), (N,1) cell of 1D arrays	
			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'	subgrouping variable	1D array/cellstr of length N	
g.	facet_grid('subset'	row grouping variable	1D Logical array of length N 1D array/cellstr of length N	
g(ind_row,ind_col).			column grouping variable	1D array/cellstr of length N	
g(1ma_10w,1ma_e01).		'scale'	'fixed'	Same x and y limits on all subplots	
			'free_x' 'free_y'	Same y limits on all subplots, same x limits within columns 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
		'space'	'independent' 'fixed'	Independent limits on each plot Same x and y axe size on all subplots	subblots rows and columns. First argument provided will separate along rows, second will separate along columns
		Space	'free_x'	Axis width proportional to x limits (requires 'scale', 'free_x' or	separate along rows, second will separate along columns
				'free') Axis height proportional to y limits (requires 'scale', 'free_y' or	
			'free_y'	'free')	
			'free'	Axis width and height proportional to x and y limits (requires 'scale', 'free'	
	foach resp.	'force_ticks'	true/false column grouping variable	Do we override defaults and force ticks on all subplots 1D array/cellstr of length N	
	facet_wrap('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
		'scale'		Same as argument in gramm facet_grid()	created when ncols is reached
		'force_ticks'	true/talse	Do we override defaults and force ticks on all subplots	Represent raw data as points (supports color, lightness, marker,
	geom_point(size)
	<pre>geom_jitter(</pre>	'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
		'height'	0.1	How much are the points jittered in vertical direction (in data units)	overlapping points, e.g. with discrete values (supports color, lightness, marker, size)
				unita)	Represent raw data with lines (supports color, lightness, marker,
	<pre>geom_line(</pre>				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
	goom har/	ا ما	'line'	raster elements are lines	
	geom_bar(stat_summary('width'		mean & basic 95% CI of the mean (1.96 * sem)	
	scat_summary(cype	'bootci'	mean & bootstrapped 95%CI of the mean	
			'sem'	mean and standard error of the mean	
			'std' 'quartile'	mean and standard deviation median and quartiles	
			'95percentile'	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
		'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 means connected by a line	plot it according to the 'geom' argument.
			'solid_area'	means connected by a line, CI as solid shaded area (use for	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
			'black_errorbar'	vector exports in pre 2014b versions) CI as black errorbar	X bins with the 'bin_in' argument
			'errorbar'	CI as colored errorbar	If X is provided as a matrix or a cell of arrays but every element has non-aligned X values, the argument 'interp_in' can be used
			'bar'	means as colored bars	to create aligned X values by interpolation over X.
		'actulim'	'point'	means as points Do we set the YLim for the subplot according to the summary or	
		setylim	true/false	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'		Provide to set the width of bars and errorbars When using multiple colors, use to dodge graphical elements	
		'dodge'		between colors with the same x value	
	stat_smooth('lambda' 'npoints'		Smoothing parameter (low values smooth less) Number of points over which the smooth is evaluated	Represents fast spline smoothed Y data with confidence interval.
		'geom'		Same geom as in gramm stat_summary()	This is not proper to use when X/Y are matrices or cells of arrays
	stat_glm('distribution'		Same argument as fitglm()	
		'geom'		Same geom as in gramm stat_summary()	Fite and displays conscious linear models to the state
		'fullrange'		Do we display the fit over the whole x axis, or just on 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'	<pre>@(param1,param2,x)x.^param1+param2</pre>	Anonymous function with parameters to fit as first arguments and	
	_ `		<pre>[param1_start param2_start]</pre>	x as last argument Array with starting values of parameters	
			'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 on 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()	
	stat_bin('nbins'		Number of bins	
		'edges' 'geom'	-20 : 0.5 : 20 'bar'	Edges ovf bins (overrides 'nbins') Results as dodged bars	
		300111	'line'	Results connected by a line	
			'overlaid_bar'	Results as overlaid bars (use transparency)	
			<pre>'stacked_bars' 'stairs'</pre>	Results as stacked bars Results as stair line	
			'point'	Results as points	
		'normalization'	'count'	Same as 'Normalization' argument of histcounts()	
		'fill'			

Method Argument Name		Argument Value	Argument info	Method info	
		-	'edge'	-	
			'all'		
		'width'	'transparent' 0.6	Provide to specify width of bars	
		'dodge'	0.7	Provide to specify dodging between elements	
	stat_density('bandwidth' 'function'	'ndf'	Same argument as ksdensity()	
		Tunccion	•••	Same argument as ksdensity()	
		'kernel'	'normal'	O and a supplied to a leader of the O	
		'npoints'	100	Same argument as ksdensity() 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>		
			'image'		
			'contour'	Fit allines that contains 05% of the points (coording biveriets	
	stat_ellipse('type'	'95percentile'	Fit ellipse that contains 95% of the points (assuming bivariate normal)	
		'geom'	'ci'	Fit ellipse that contains 95% of the bootstrapped xy means Plot the ellipse as a shaded area with outline	
		geom		Just plot the outline of the ellipse	
		patch_opts		Duranida a the agratical distribution to plat a project assign Matheble	
	stat_qq('distribution'	<pre>makedist('Normal',0,1)</pre>	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'		Width of boxes	Box and whisker plots of y data for each unique x value
	geom_abline('dodge' 'intercept'		Dodging between boxes of different colors within unique x values Single value or 1D array of size P	
	('slope'	1	Single value or 1D array of size P	
	geom_vline('style' 'xintercept'		Single string or 1D cellstr of size P Single value or 1D array of size P	
	Aeom_AITHE('style'		Single string or 1D cellstr of size P	
	<pre>geom_hline(</pre>	'yintercept'		Single value or 1D array of size P	
	geom_funline('style' 'fun'	'k' @(x)exp(sin(x-pi))	Single string or 1D cellstr of size P Anonymous function or cell of anonymous functions	
	<u> </u>	'style'		Single string or 1D cellstr of size P	
	set_names('x axis legend' 'y axis legend'	Legend for the x axes Legend for the y axes	
		_	'row legend'	Title of the row legends (actual titles will be a combination of title	
				and value) Title of the column legends (actual titles will be a combination of	
			column legend	title and value)	
			'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
	_ `	'FontSize'	16	Any text property 'Name',value pair	gramm 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	
			<pre>'matlab' 'brewer1' 'brewer2' 'brewer3'</pre>	Matlab's own post 2014b map	
			'brewer_pastel' 'brewer_dark'	colorbrewer2.org colormaps	
			[0.1 0 0 0 0.2 0.9]	Custom colormap as Nx3 matrix	
		'lightness_range'			
		<pre>'chroma_range'</pre>			
		'lightness'	65		
	set_order_options('chroma'		Values sorted in ascending order (numeric or alphabetical)	
	sec_order_options(X	0	Keep order of appearance of values in the input	
			-1 [value1 value2 value3]	Values ordered according as in the provided array/cell (all unique	
			{'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'			
		_	[L_start L_end; C_start C_end; H_start	H_end] Pass one or multiple name, value pairs for Axes Properties	
	axe_property('axe_property'	axe_property_value	(XLim,XGrid, DataAspectRatio)	
	no_legend(0.1	How much do we extend limits of a said (retire and said 1111111)	
	set_limit_extra(0.1	How much do we extend limits of x axis (ratio wrt original limits) How much do we extend limits of y axis (ratio wrt original limits)	
	set_datetick('x'		Same arguments as datetick(): tickaxis,dateformat	
		'у'	2		David to the state of the state
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
	redraw(0.05	Redraw with custom spacing	according to the row and column indices in the array)
g.	,				Call update() after a first draw() call in order to change grouping
	update('color'		update() takes the same type of arguments as gramm(). Provide the variables you want to change or add for the following layers.	variables for the next layers. Note that after an update() call it is also possible to update facets with facet_grid() or facet_wrap().
		•••		All the other variables will stay as defined by the first call to gramm().	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.