	Method	Argument Name	Argument Value	Argument info	Method info
			CONSTRUCTOR - Obje	ect creation and assignment, first s	tep
g=	gramm('x'	x variable	1D array/cellstr of length N, Matrix of size (N,M), (N,1) cell of 1D	
g(ind_row,ind_col)=	· · · · · ·	'v'	y variable	arrays 1D array of length N, Matrix of size (N,M), (N,1) cell of 1D arrays	
			label text	1D array/cellstr of length N	
			color grouping/continuous variable	1D array/cellstr of length N	
			lightness grouping variable	1D array/cellstr of length N	Constructor for the class.
		'linestyle'	linestyle grouping variable	1D array/cellstr of length N	Must be called first and result assigned to a variable Use to provide the data to be plotted
			marker grouping variable	1D array/cellstr of length N	Coo to provide une data to se provide
			size grouping variable subgrouping variable	1D array/cellstr of length N 1D array/cellstr of length N	
			selection variable	1D Logical array of length N	
		'ymin'	upper y interval (absolute)	1D array of length N	
			lower y interval (absolute)	1D array of length N FIPLE FIGURES - Method calls, ord	ler indifferent
g.	facet_grid(30Di L0	row grouping variable	1D array/cellstr of length N	
g(ind_row,ind_col).			column grouping variable	1D array/cellstr of length N	
		'scale'		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	
			'independent'	Independent limits on each plot	
		'space'	'fixed'	Same x and y axe size on all subplots	Use to provide data that will determine separation between subblots rows and columns. First argument provided will
			'free_x'	Axis width proportional to x limits (requires 'scale', 'free_x' or 'free')	separate along rows, second will separate along columns
			'free_y'	Axis height proportional to y limits (requires 'scale', 'free_y' or	
			-	'free') Axis width and height proportional to x and y limits (requires	
		, .	'free'	'scale', 'free'	
		<pre>'column_labels' 'row labels'</pre>		Do we label subplot columns Do we label subplot rows	
		'row_labels'		Do we label subplot rows Do we override defaults and force ticks on all subplots	
	facet_wrap(_	column grouping variable	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
		'scale' 'column labels'		Same as argument in gramm facet_grid() Do we label subplot columns	subblots columns, with a wrapping: a new row of subplots is created when ncols is reached
		'force_ticks'		Do we override defaults and force ticks on all subplots	
	fig(_	figure grouping variable	1D array/cellstr of length N	Use to provide data that will determine separation between
		DIR		NS – geom_ method calls, order in	figures
	<pre>geom_point(</pre>	'dodge'		gooni_ motified dane, order m	Represent raw data as points (supports color, lightness, marke
		'alpha'	1	Set the alpha of points (0:fully transparent, 1: solid; no export)	size)
	geom_jitter('width'	0.2	How much are the points jittered in horizontal direction (in data	
	5 00 5 0000 (Units)	
		'height'	0	How much are the points jittered in vertical direction (in data units)	Represent raw data as jittered points, useful when lots of overlapping points, e.g. with discrete values (supports color,
		'dodge'	0.5	When using multiple colors, use to dodge graphical elements between colors with the same x value	lightness, marker, size)
		'alpha'	1	Set the alpha of points (0:fully transparent, 1: solid; no export)	
				When using multiple colors, use to dodge graphical elements	Depresent row data with lines (supports salar lightness marks
	geom_line('dodge'	0.5	between colors with the same x value	Represent raw data with lines (supports color, lightness, marke size). If x and y are 1D arrays, all points within a group will be
		'alpha'	1	Set the alpha of lines (0:fully transparent, 1: solid; no export)	connected !
	<pre>geom_raster(</pre>	'geom'	'point' 'line'	raster elements are points raster elements are lines	Represents raw x data as a raster plot
	geom_bar('width'		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	
		'FaceColor'	'auto'	Any property of a patch() object. 'FaceColor' and 'EdgeColor' can be set to 'auto' in order to use gramm color	
	geom_interval('geom'	'area'	Same 'geom' as in stat_summary()	
			•••		- Represent intervals provided by 'ymin' and 'ymay' data (error
		'width'	0.6	Provide to set the width of bars and errorbars	Represent intervals provided by 'ymin' and 'ymax' data (error bars, area)
		'dodge'	0.7	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	
	geom_label('dodge'	U	between colors with the same x value	
		'Color'	'auto'	Color of the text, default is 'auto' in order for the text color to follow gramm color	
				Any property of a text() object. 'Color', 'BackgroundColor' and	
			ATICTICAL VICUALIZATION	'EdgeColor' can be set to 'auto' in order to use gramm color	lifferent
	stat_summary('ci'	mean & 95% CI of the mean (assumes normal data)	imerent
	2 0 0 0 <u>-</u> 2	77.5	'bootci'	mean & bootstrapped 95%CI of the mean	
			'sem'	mean and standard error of the mean	
			'std' 'quartile'	mean and standard deviation	
			'95percentile'	median and quartiles 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	
		'geom'	function handle 'area'	Provide a function to compute custom values (see doc) means connected by a line, CI as shaded transparent area	Represents summarized Y data per unique values of X. By
		geom	'lines'	means connected by a line, CI as thin lines	default, it will group all Y values that have the same X value,
			'line'	means connected by a line	compute the summary variables of interest ('type' argument), a 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
			-	vector exports in pre 2014b versions)	discrete enough, it is possible to compute the Y summaries over
			'black_errorbar' 'errorbar'	CI as black errorbar CI as colored errorbar	X bins with the 'bin_in' argument
			'bar'	means as colored bars	If X is provided as a matrix or a cell of arrays but every element has non-aligned X values, the argument 'interp_in' must be use
			'point'	means as points	to create aligned X values by interpolation over X.
			'area_only'	CI as shaded transparent area, no line	
		'setylim'	true/false	Do we set the YLim for the subplot according to the summary or the data?	

	BA a bla a al	Augusta and Name	Avenue ant Value	Aumous and india	Made at infa	
	Wethod	Argument Name	Argument value	Argument info	Method info	
		'interp'	'linear'	Provide to interpolate the output (corresponds to the methods argument of interp1). Use 'polar' for circular data. Provide to linearly interpolate the input over x (corresponds to		
		'interp_in'	100	number of x points). • Must be used when X and Y are given as a cell and X values are not aligned •		
		'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		
	atat amaath/	'method'		between colors with the same x value		
	stat_smooth(method	'smoothingspline'	Smoother described in Eilers 2003 (default, fast) uses fit() from the curve fitting toolbox		
			'moving' 'lowess' 'sgolay'	uses smooth() from the curve fitting toolbox	Represents smoothed Y data with confidence interval.	
		'lambda' 'npoints'		Smoothing parameter, depends on method, see documentation Number of points over which the smooth is evaluated	·	
		'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'		Do we display the fit over the whole x axis, or just on the range	Fits and displays generalized linear models to the data.	
		'disp fit'	true/false	of the value used for the fit Do we display the fitted equations (with pvals stars)		
	stat_fit(<pre>@(param1,param2,x)x.^param1+param2</pre>	Anonymous function with parameters to fit as first arguments and		
	Stat_11t(x as last argument		
			<pre>[param1_start param2_start] 'observation'</pre>	Array with starting values of parameters 95% bounds on a new observation (see option of predint())		
		THEOPE	'functional'	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		
		_	true/false	of the value used for the fit Do we display the fitted equations		
		disp_fit 'geom'		Same geom as in gramm stat_summary()		
	stat_bin('nbins'		Number of bins		
			-20 : 0.5 : 20	Edges ovf bins (overrides 'nbins')		
		'geom'	'line'	Results as dodged bars 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'			
		'fill'	'face'	Same as 'Normalization' argument of histcounts()		
		1111	'edge'			
			'all'			
		'width'	'transparent' 0.6	Provide to specify width of bars		
		'dodge'		Provide to specify dodging between elements		
sta	at_cornerhist('location'	0.2	x (or y) location of the inset axis on the unity line of the parent 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()		
	stat_density('function'	'pdf'	ourse argument as rescensity()		
		'kernel'	···	Same argument as ksdensity()		
		kerner	···	Same argument as ksdensity()		
		'npoints'		How many points are used to plot the density		
	stat_bin2d('extra_x' 'nbins'	[n_xbins n_ybins]	Extend the x value range over which the density is evaluated		
	5000_50(<pre>{x_edges_array, y_edges_array}</pre>			
		'geom'	'image' 'contour'			
	stat ollimas/	'type'	'contour' '95percentile'	Fit ellipse that contains 95% of the points (assuming bivariate		
	stat_ellipse(суре		normal)		
		'geom'	'ci' 'area'	Fit ellipse that contains 95% of the bootstrapped xy means Plot the ellipse as a shaded area with outline		
			'line'	Just plot the outline of the ellipse		
		patch_opts		Provide a theoretical distribution to plot x against using Matlab's		
	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'		Equal violin areas		
			'count' 'width'	Areas proportional to point count Equal violin widths		
		'half'	false	Same argument as stat_density()		
		'bandwidth' 'kernel'	'normal'	Same argument as stat_density() Same argument as stat_density()		
		'npoints'		Same argument as stat_density()		
		'extra_y' 'fill'		Same argument as stat_density() Same argument as stat_bin()		
		'fill' 'width'		Same argument as stat_bin()		
		'dodge'				
	ADDITIONAL GRAPHICAL ELEMENTS – geom_ method calls, order indifferent					
	<pre>geom_abline(</pre>	'intercept' 'slope'		Single value or 1D array of length P Single value or 1D array of size P		
		'style'		Single string or 1D cellstr of size P		
	geom_vline('xintercept'		Single value or 1D array of size P		
	geom_hline('style' 'yintercept'		Single string or 1D cellstr of size P Single value or 1D array of size P		
	J('style'		Single string or 1D cellstr of size P		
	<pre>geom_funline(</pre>	'fun' 'style'	<pre>@(x)exp(sin(x-pi)) 'k'</pre>	Anonymous function or cell of anonymous functions Single string or 1D cellstr of size P		
	geom_polygon(style 'x'		Cell of vectors with vertices x coordinates, or cell of vectors with		
		A	· ·	x polygon limits if y omitted. Length P		

Method	Argument Name	Argument Value	Argument info	Method info
			Cell of vectors with vertices y coordinates, or cell of vectors with	
	'у'	(1)	y polygon limits if x omitted. Length P	
	'alpha'	0.2	Single value or 1D array of length P	
		[0 0 0]	RGB: 1x3 vector or matrix of size Px3. Or color indices	
	'line_color'	[0 0 0]	RGB: 1x3 vector or matrix of size Px3. Or color indices	
	- 'line_style'		1D cell of length 1 or P	
				forest
		DPTIONS AND CUSTOMIZ	ZATIONS – Method calls, order indif	Terent
set_names('x'	'x axis legend'	Legend for the x axes	
	'у'	'y axis legend'	Legend for the y axes	
	'row'	'row legend'	Title of the row legends (actual titles will be a combination of title	
	-5"		and value)	
	'column'	'column legend'	Title of the column legends (actual titles will be a combination of title and value)	
			<u> </u>	
	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
	'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 ?	
			Impose the max of the radial scale (default corresponds to the	
	'maxy'	10	max of y values)	
set_stat_options('alpha'	0.05	Alpha-level for confidence intervals	
	'nboot'	200	Number of boostrap samples	
gat galam antions/		'lch'	Default HCL-based colormap	
set_color_options(шар	'matlab'	Matlab's own post 2014b map	
		'brewer1' 'brewer2' 'brewer3'	ivialiab 3 Owii post 2014b iiiap	
		'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'			
	hue_range'	[25 385]	Options for the HCL colormap generation	
	'lightness'			
	'chroma'	75		
set_point_options('markers'	{'o' 's' 'd' '^' 'v' '>' '<' 'p' 'h' '*' '+' 'x'}	Set order for marker categories	
200_po=0_opo=o2(•		
	'base_size'		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	
	'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()	
set_order_options('x'	1	Values sorted in ascending order (default)	
`		0	Keep order of appearance of values in the input	
		-1	Values sorted in descending order	
			Values ordered according to the provided array/cell. If the	
		[value1 value2 value3]	provided data is a cell of strings, provide a cell of strings	This method allows to reorder each grouping variable. Supports
		{'value1' 'value2' 'value3'}	containing the unique categories in the desired order. Extra categories provided here will be ignored, missing categories will	all variables provided in the main gramm() call except y, also
			truncate the data.	supports reordering of facets with 'row' and 'column'
		[index1 index2 index3]	Values ordered according to the provided indices (indices	
		[Index1 Index2 Index5]	correspond to indices in the sorted values array/cell)	
	'color'			
	•••			
set_continuous_color(Set continuous colormap by name (Matlab defaults available)	
	'active'		Force continuous colors on or off if possible	
		[L_start L_end ;	Set continuous colormap definition in LCH colorspace	
	'LCH_colormap'	C_Start C_end ,		
		H_start H_end]		
	'CLim'	<pre>H_start H_end] [color_min color_max]</pre>	Force color axis limits (automatic by default)	
set_text_options('CLim'	<pre>H_start H_end] [color_min color_max] 'Helvetica'</pre>	Font to use for all text	
set_text_options('CLim' 'font' 'interpreter'	<pre>H_start H_end] [color_min color_max] 'Helvetica' 'none'</pre>	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none')	
set_text_options('CLim' 'font' 'interpreter' 'base_size'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size	
set_text_options('CLim' 'font' 'interpreter' 'base_size' 'label_scaling'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base	
	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base	
	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' gend_title_scaling'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base	
	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' rend_title_scaling' 'facet_scaling'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base	
'leg	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' gend_title_scaling' 'facet_scaling' 'title_scaling'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base	
'leg	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' rend_title_scaling' 'facet_scaling'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base	
'leg	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'end_title_scaling' 'facet_scaling' 'title_scaling' big_title_scaling'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base	
'leg	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'end_title_scaling' 'facet_scaling' 'title_scaling' big_title_scaling' 'axe_property'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.4 1.4	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base Pass one or multiple name, value pairs for Axes Properties	color/size/line/marker legand are not displayed
axe_property(no_legend('CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'end_title_scaling' 'facet_scaling' 'title_scaling' big_title_scaling' 'axe_property'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4 1.4 axe_property_value	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base Pass one or multiple name, value pairs for Axes Properties (XLim,XGrid, DataAspectRatio)	color/size/line/marker legend are not displayed
'leg	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'end_title_scaling' 'facet_scaling' 'title_scaling' big_title_scaling' 'axe_property'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.4 1.4	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base Pass one or multiple name, value pairs for Axes Properties (XLim,XGrid, DataAspectRatio) How much do we extend limits of x axis (ratio wrt original limits)	color/size/line/marker legend are not displayed
axe_property(no_legend('CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'end_title_scaling' 'facet_scaling' 'title_scaling' big_title_scaling' 'axe_property'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4 1.4 axe_property_value	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base Pass one or multiple name, value pairs for Axes Properties (XLim,XGrid, DataAspectRatio)	color/size/line/marker legend are not displayed
axe_property(no_legend('CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'end_title_scaling' 'facet_scaling' 'title_scaling' big_title_scaling' 'axe_property'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4 1.4 axe_property_value [0.05 0.05] [0.05 0.05]	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base Pass one or multiple name, value pairs for Axes Properties (XLim,XGrid, DataAspectRatio) How much do we extend limits of x axis (ratio wrt original limits)	color/size/line/marker legend are not displayed
axe_property(no_legend(set_limit_extra('CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'end_title_scaling' 'facet_scaling' 'title_scaling' big_title_scaling' 'axe_property'	<pre>H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4 1.4 axe_property_value [0.05 0.05] [0.05 0.05]</pre>	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base Scaling of overarching figure title size relative to base Pass one or multiple name, value pairs for Axes Properties (XLim, XGrid, DataAspectRatio) 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)	color/size/line/marker legend are not displayed
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axe_property(no_legend() set_limit_extra() set_datetick() coord_flip() draw() redraw() SUPER	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'facet_scaling' 'title_scaling' big_title_scaling' 'axe_property' *X' 'y' 'x' 'y' *X' 'x' 'y' *X' 'x' 'x' 'x' 'x' 'x' 'x' 'x	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4 1.4 axe_property_value [0.05 0.05] [0.05 0.05] 1 2 DRAWI false 0.05 ULTIPLE GRAMM PLOTS	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base Pass one or multiple name, value pairs for Axes Properties (XLim,XGrid, DataAspectRatio) 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) Same arguments as datetick(): tickaxis,dateformat ING — Last method call Give false as (optional) argument to disable automatic setting of redraw() as resizing callback Redraw with custom spacing between elements (facets, legends) — After draw() call, allows new visu 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().	Exchange the X and Y axes: use to generate horizontal plot elements (boxplots, violins) 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) Jalizations with new data 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
axe_property(no_legend() set_limit_extra() set_datetick() coord_flip() draw() redraw() SUPER update()	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'facet_scaling' 'title_scaling' big_title_scaling' 'axe_property' *X' 'y' 'x' 'y' *X' 'x' 'y' *X' 'x' 'x' 'x' 'x' 'x' 'x' 'x	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4 1.4 axe_property_value [0.05 0.05] [0.05 0.05] 1 2 DRAWI false 0.05 ULTIPLE GRAMM PLOTS new color grouping variable	Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base Pass one or multiple name, value pairs for Axes Properties (XLim, XGrid, DataAspectRatio) 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) Same arguments as datetick(): tickaxis, dateformat ING - Last method call Give false as (optional) argument to disable automatic setting of redraw() as resizing callback Redraw with custom spacing between elements (facets, legends) - After draw() call, allows new visu 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().	Exchange the X and Y axes: use to generate horizontal plot elements (boxplots, violins) 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) Jalizations with new data 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
axe_property(no_legend() set_limit_extra() set_datetick() coord_flip() draw() redraw() SUPER update()	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'facet_scaling' 'title_scaling' 'title_scaling' 'axe_property' 'X' 'Y' 'Y' 'Interpreter' 'Anterpreter' 'Anterpre	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4 1.4 axe_property_value [0.05 0.05] [0.05 0.05] 1 2 DRAW false 0.05 ULTIPLE GRAMM PLOTS rew color grouping variable Gramm_export' Gramm_expor	Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base Scaling of overarching figure title size relative to base Pass one or multiple name, value pairs for Axes Properties (XLim, XGrid, DataAspectRatio) 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) Same arguments as datetick(): tickaxis, dateformat ING - Last method call Give false as (optional) argument to disable automatic setting of redraw() as resizing callback Redraw with custom spacing between elements (facets, legends) After draw() call, allows new visual to change or add for the following layers. All the other variables will stay as defined by the first call to gramm(). XPORT - After draw() call Name of the exported file	Exchange the X and Y axes: use to generate horizontal plot elements (boxplots, violins) 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) Jalizations with new data 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
axe_property(no_legend() set_limit_extra() set_datetick() coord_flip() draw() redraw() SUPER update()	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'facet_scaling' 'title_scaling' 'axe_property' 'x' 'y' 'x' 'y' 'file_name' 'export_path' 'file_type'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4 1.4 axe_property_value [0.05 0.05] [0.05 0.05] 1 2 DRAWI false 0.05 ULTIPLE GRAMM PLOTS rew color grouping variable 'gramm_export' '' 'svg' 'pdf' 'eps' 'png' 'jpg'	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base Scaling of overarching figure title size relative to base Pass one or multiple name, value pairs for Axes Properties (XLim, XGrid, DataAspectRatio) 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) Same arguments as datetick(): tickaxis,dateformat ING — Last method call Give false as (optional) argument to disable automatic setting of redraw() as resizing callback Redraw with custom spacing between elements (facets, legends) — After draw() call, allows new vist 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(). XPORT — After draw() call Name of the exported file Path of the destination folder (default is current folder) Format of the saved image	Exchange the X and Y axes: use to generate horizontal plot elements (boxplots, violins) 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) Jalizations with new data 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
axe_property(no_legend() set_limit_extra() set_datetick() coord_flip() draw() redraw() SUPER update()	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'facet_scaling' 'title_scaling' 'axe_property' 'x' 'y' 'x' 'y' 'file_name' 'export_path' 'file_type'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4 1.4 axe_property_value [0.05 0.05] [0.05 0.05] 1 2 DRAWI false 0.05 ULTIPLE GRAMM PLOTS rew color grouping variable 'gramm_export' '' 'svg'	Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base Scaling of overarching figure title size relative to base Pass one or multiple name, value pairs for Axes Properties (XLim,XGrid, DataAspectRatio) 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) Same arguments as datetick(): tickaxis, dateformat ING - Last method call Give false as (optional) argument to disable automatic setting of redraw() as resizing callback Redraw with custom spacing between elements (facets, legends) - After draw() call, allows new visuables will stay as defined by the first call to gramm(). XPORT - After draw() call Name of the exported file Path of the destination folder (default is current folder)	Exchange the X and Y axes: use to generate horizontal plot elements (boxplots, violins) 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) Jalizations with new data 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
axe_property(no_legend() set_limit_extra() set_datetick() coord_flip() draw() redraw() SUPER update()	'CLim' 'font' 'interpreter' 'base_size' 'label_scaling' 'legend_scaling' 'facet_scaling' 'title_scaling' 'axe_property' 'x' 'y' 'y' 'file_name' 'export_path' 'file_type' 'width'	H_start H_end] [color_min color_max] 'Helvetica' 'none' 10 1 1.2 1.2 1.4 1.4 axe_property_value [0.05 0.05] [0.05 0.05] 1 2 DRAWI false 0.05 ULTIPLE GRAMM PLOTS rew color grouping variable 'gramm_export' '' 'svg' 'pdf' 'eps' 'png' 'jpg'	Font to use for all text Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size Scaling of axis label sizes relative to base Scaling of legend label sizes relative to base Scaling of legend title sizes relative to base Scaling of facet title sizes relative to base Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base Scaling of overarching figure title size relative to base Pass one or multiple name, value pairs for Axes Properties (XLim, XGrid, DataAspectRatio) 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) Same arguments as datetick(): tickaxis,dateformat ING — Last method call Give false as (optional) argument to disable automatic setting of redraw() as resizing callback Redraw with custom spacing between elements (facets, legends) — After draw() call, allows new vist 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(). XPORT — After draw() call Name of the exported file Path of the destination folder (default is current folder) Format of the saved image	Exchange the X and Y axes: use to generate horizontal plot elements (boxplots, violins) 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) Jalizations with new data 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

Method Argument Name Argument Value	Argument info	Method info
'units' 'centimeters'	Units for the saved image dimensions	
'inghos!		