	Method	Argument Name	Argument Value	Argument info	Method info
			CONSTRUCTOR – Obje	ct creation and assignment, first st	ер
g=	gramm('x'	x variable	1D array/cellstr of length N, Matrix of size (N,M) , $(N,1)$ cell of 1D arrays	
g(ind_row,ind_col)=			y variable	1D array of length N, Matrix of size (N,M) , (N,1) cell of 1D arrays	
			z variable label text	1D array of length N, Matrix of size (N,M) , (N,1) cell of 1D arrays 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 grouping variable marker grouping variable	1D array/cellstr of length N 1D array/cellstr of length N	Must be called first and result assigned to a variable Use to provide the data to be plotted
			size grouping variable	1D array/cellstr of length N	
			subplot row grouping variable subplot column grouping variable	1D array/cellstr of length N Use facet_ functions for more control	
			subgrouping variable	1D array/cellstr of length N	
			upper y interval (absolute)	1D Logical array of length N 1D array of length N	
			lower y interval (absolute)	1D array of length N	
		SUBPLO		TIPLE FIGURES – Method calls, ord	er indifferent
g.	facet_grid(row grouping variable column grouping variable	1D array/cellstr of length N 1D array/cellstr of length N	
g(ind_row,ind_col).		'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	
		'space'	'independent' 'fixed'	Independent limits on each plot Same x and y axe size on all subplots	Use to provide data that will determine separation between
			'free_x'	Axis width proportional to x limits (requires 'scale', 'free_x' or 'free')	subblots rows and columns. First argument provided will separate along rows, 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'	
		'column_labels'	true/false	Do we label subplot columns	
		<pre>'row_labels' 'force ticks'</pre>		Do we label subplot rows Do we override defaults and force ticks on all subplots	
	facet_wrap(TOICE_CICKS	column grouping variable	1D array/cellstr of length N	
		'ncols' 'scale'		After how many columns do we wrap and create a new row Same as argument in gramm facet_grid()	Use to provide data that will determine separation between subblots columns, with a wrapping: a new row of subplots is
		column_labels'		Do we label subplot columns	created when ncols is reached
		'force_ticks'		Do we override defaults and force ticks on all subplots	Use to provide data that will determine separation between
	fig(figure grouping variable	1D array/cellstr of length N	figures
				NS – geom_ method calls, order in	different
	<pre>geom_point(</pre>	'dodge' 'alpha'		Set the alpha of points (0:fully transparent, 1: solid; no export)	Represent raw data as points (supports color, lightness, marker, size)
	geom_jitter('width'		How much are the points jittered in horizontal direction (in data	
	goo(units) How much are the points jittered in vertical direction (in data	Democrate very data as littlewed weight upon full when late of
		'height'		units)	Represent raw data as jittered points, useful when lots of overlapping points, e.g. with discrete values (supports color, lightness, marker, size)
		'dodge'	0.5	When using multiple colors, use to dodge graphical elements between colors with the same x value	
	geom_swarm('alpha' 'type'		Set the alpha of points (0:fully transparent, 1: solid; no export) Points are added to the swarm from low to high values	
	gcom_swarm(суре	'down'	Points are added to the swarm from high to low values	
			'fan'	Points are added to the swarm starting from the center out	
			'hex'	Points are added to the swarm on an hexagonal grid	
		'corral'	'square' 'none'	Points are added to the swarm on a square grid The swarm can go beyond the width	
			'gutter'	Points of the swarm are all added but can't go beyond the width	
			'wrap'	Points of the swarm beyond width are mirrored horizontally around the limit	Represent raw data poins as a swarm / beeswarm : points are
			'random'	Points of the swarm beyond the width are added at a random horizontal position	displayed at their correct Y position but are moved to the side so that they don't overlap
			'omit'	Points of the swarm beyond the width are not added	
		'alpha'		(dangerous !) Set the alpha of points (0:fully transparent, 1: solid)	
		'point_size'		Set the point size within the swarm, due to the high dependecy of swarm shape on point size this is separate from	
		point_size		set_point_options()	
		'dodge'	0.7	When using multiple colors, use to dodge graphical elements between colors with the same x value	
		'width'	0.9	What is the width of the swarm (interacts with the 'corral' parameter	
	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,
		'alpha'	1	Set the alpha of lines (0:fully transparent, 1: solid; no export)	size). If x and y are 1D arrays, all points within a group will be connected!
	geom_raster('geom'		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	
		'dodge'		When using multiple colors, use to dodge graphical elements	
		_	true/false	Se to true to have bars placed at the same x stacked	
		'FaceColor'		Any property of a patch() object. 'FaceColor' and 'EdgeColor' can	
	geom_interval('geom'		be set to 'auto' in order to use gramm color Same 'geom' as in stat_summary()	
	(, - 3			Represent intervals provided by 'ymin' and 'ymax' data (error
		'width'	0.6	Provide to set the width of bars and errorbars	hepresent 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	
	geom_label('dodge'	0	When using multiple colors, use to dodge graphical elements 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	
		•••		'EdgeColor' can be set to 'auto' in order to use gramm color	

compute the summary variables of interest ('type' argument plot it according to the 'geom' argument. 'solid_area' means connected by a line 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			Argument Value	Argument info	Method info
	G L G L	ST	ATISTICAL VISUALIZATION	ONS – stat_ method calls, order ind	ifferent
	stat_summary('type'	'ci'	mean & 95% CI of the mean (assumes normal data)	
Part			'bootci'	mean & bootstrapped 95%CI of the mean	
Part				·	
				•	
Part					
Property of the part of the					
		'geom'			Represents summarized Y data per unique values of X. By
					default, it will group all Y values that have the same X valu
			'line'	means connected by a line	
			'solid_area'		If X and Y are provided as 1D arrays but X values are not
A second contemps			lh lach annach an l		discrete enough, it is possible to compute the Y summaries
					A bins with the bin_in argument
Part					
			'point'	means as points	
			'area_only'	CI as shaded transparent area, no line	
		'setylim'	true/false		
Part		2007====			
Process Proc		'interp'	'linear'		
Part		lintone int	100		
		interp_in	100	· · · · · · · · · · · · · · · · · · ·	
				<u> </u>	
Profession Pro		'bin_in'	10		
		'width'	0.6	,	
		'dodge'	0.7		
	stat_smooth('method'	'eilers'	Smoother described in Eilers 2003 (default, fast)	
			'smoothingspline'	uses fit() from the curve fitting toolbox	
				· · · · · · · · · · · · · · · · · · ·	Represents smoothed Y data with confidence interval
Some agained and page Some agained agained Some agained againe		'lambda'	1000		
		_			
Same gatim case Same gatim case same adds cameraly	_	_			
Second	stat_glm('distribution'	'normal'	Same argument as fitglm()	
		l goom!		Same goom as in gramm stat. summany()	
					Fits and displays generalized linear models to the data.
### fit (** 100 ** # (parced), parcial **, pix ** (parced) ** provided by x ** (parced) *		'fullrange'	true/false		
		'disp_fit'	true/false	Do we display the fitted equations (with pvals stars)	
	Fit/	! fun!	A(narami narami narami narami	Anonymous function with parameters to fit as first arguments and	
Second Process Seco	stat_fit(Tun	e(parami,parami,x)x. parami+parami	x as last argument	
*** *** **** **** ***** ***** ***** ***** ***** ******			<pre>@(params,x)x.^params(1)+params(2)</pre>		
Titurange** (parallel set increased start in parallel start in par					
First and desplays a provided custom function to the data First and desplays and the wholes a satisfaction for the wholes a satisfaction for the desplays and the data First and desplays and de		'stats'	false/true		
Section Sect		'StartPoint'	[param1_start param2_start]	Array with starting values of parameters	
True/talse		'intopt'	'observation'	95% bounds on a new observation (see option of predint())	Fits and displays a provided custom function to the data
			'functional'	95% bounds for the fitted function	
		16.33	. (6.3	Do we display the fit over the whole x axis, or just on the range	
stat_bin('iullrange'	crue/ldise		
Stat_bin('disp_fit'	true/false	Do we display the fitted equations	
codges -20 : 0.5 : 20 Edges of bins (overrides hibrins)		'geom'	•••	Same geom as in gramm stat_summary()	
cdges -20 : 0.5 : 20 Edges ovol hims (overrides habins)			20	Number of bins	
Provide to specify dodging between elements	stat_bin('nbins'	30		
Pesults as overlied bars (use transparency) File stacked bars Pesults as stacked bars File statis* Pesults as staking File statis* Pesults as points File statis* Pesults as statis* File statis* Pesults* Pesults* File statis* Pesults*	stat_bin(Edges ovf bins (overrides 'nbins')	
Stat_density Statute	stat_bin('edges'	-20 : 0.5 : 20		
Same argument as kadensity(Same argument as kadensity()	stat_bin('edges'	-20 : 0.5 : 20 'bar'	Results as dodged bars	
Point Results as points Results as points	stat_bin('edges'	-20 : 0.5 : 20 'bar' 'line'	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency)	
'normalization' 'count' Same as 'Normalization' argument of histocounts() 'fall' 'face' 'edge' 'all' 'transparent' 'vidth' 0.6 Provide to specify width of bars 'dodge 0.7 Provide to specify width of bars 'aspect' 0.3 Aspect ratio (y/k) of the inset axis on the unity line of the parent 'aspect' 0.3 Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent Aspect ratio (y/k) of the inset axis on the unity line of the parent	stat_bin('edges'	-20: 0.5: 20 'bar' 'line' 'overlaid_bar' 'stacked_bars'	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars	
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'fill' 'face' edge' 'all' 'transparent' 'vidth' 0.6 Provide to specify width or bars 'dodge' 0.7 Provide to specify dodging between elements stat_cornerhist('location' (aspect' 0.3 Aspect ratio (y/k) of the inset axis on the unity line of the parent 'aspect' 0.3 Aspect ratio (y/k) of the inset axis on the unity line of the parent 'aspect' 0.3 Same options as stat_bin() 'spedifying edges is recommended, 'edges' Same argument as ksdensity() stat_density('bandwidth' 'function' 'pdf' Same argument as ksdensity() 'kernel' 'normal' Same argument as ksdensity() 'kernel' 'normal' Same argument as ksdensity() 'kernel' 'normal' Same argument as ksdensity() 'bandwidth' 'sextra_x' 10 'to mornal' stat_bin2d('nbins' (n_xbins n_ybins) 'edges' (x_edges_array, y_edges_array) 'jimage' 'contour' Fit ellipse that contains 95% of the points (assuming bivariate normal) 'geom' 'darea' 'ci' Fit ellipse that contains 95% of the bootstrapped xy means 'geom' 'area' Plot the ellipse as a shaded area with outline	stat_bin('edges' 'geom'	-20: 0.5: 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point'	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line	
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'vidth' 'dodge' 0.7 Provide to specify width of bars Provide to specify doding between elements stat_cornerhist('location' x (or y) location of the inset axis on the unity line of the parent 'aspect' 0.3 Aspect ratio (y/x) of the inset axis Same options as stat_bin(). Specifying edges is recommended, stacked bar geom unsupported stat_density('bandwidth' 'function' 'pdf' Same argument as kedensity() 'kernel' 'normal' Same argument as kedensity() 'normal' Same argument as kedensity() 'normal' Same argument as kedensity() 'textra_x' 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' '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 elements Aspect ratio (y/x) of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis on the unity line of the parent ratio (y/x) of the inset axis on the unity line of the parent ratio (y/x) of the inset axis on the unity line of the parent ratio (y/x) of the inset axis on the unity line of the parent ratio (y/x) of the inset axis on the unity line of	stat_bin('edges' 'geom' 'normalization'	-20: 0.5: 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge'	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points	
stat_cornerhist ('aspect' 'aspect' 'aspect' 'edges' ' 0.3	stat_bin('edges' 'geom' 'normalization'	-20: 0.5: 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all'	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points	
'aspect' 'edges' 'edges' 'bandwidth' 'function' 'pdf' 'normal' 'npoints' 'extra_x' '10 stat_bin2d('nbins' 'geom' 'geom' 'sgeom' 'area' Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity() Same argument as ksdensity() Same argument as ksdensity() Same argument as ksdensity() How many points are used to plot the density Extend the x value range over which the density is evaluated Stat_bin2d('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	stat_bin('edges' 'geom' 'normalization' 'fill'	-20: 0.5: 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent'	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts()	
Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Stat_density(stat_bin('edges' 'geom' 'normalization' 'fill' 'width'	-20: 0.5: 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars	
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stat_density('bandwidth' 'function' 'pdf' Same argument as ksdensity() 'kernel' 'normal' Same argument as ksdensity() 'npoints' 'extra_x' 10 Extend the x value range over which the density is evaluated stat_bin2d('nbins' 'edges' 'geom' 'image' 'contour' stat_ellipse('type' '95percentile' 'pdf' Same argument as ksdensity() How many points are used to plot the density Extend the x value range over which the density is evaluated stat_bin2d('nbins' 'geom' 'image' 'contour' 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		'edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis	Display an histogram of the x-y difference in an inset axis
'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		'edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect'	-20: 0.5: 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended,	Display an histogram of the x-y difference in an inset axis
Same argument as ksdensity() 'kernel' 'normal' 'nopoints' 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' 'edges' 'xedges_array, y_edges_array) 'geom' 'image' 'contour' stat_ellipse('type' '95percentile' Fit ellipse that contains 95% of the points (assuming bivariate normal) 'geom' 'area' Plot the ellipse as a shaded area with outline	stat_cornerhist('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges'	-20: 0.5: 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported	Display an histogram of the x-y difference in an inset axis
'kernel' Same argument as ksdensity() 'npoints' 'extra_x' 10 Extend the x value range over which the density stat_bin2d('nbins' 'edges' 'geom' 'image' 'contour' stat_ellipse('type' '95percentile' Fit ellipse that contains 95% of the bootstrapped xy means 'geom' 'area' Plot the ellipse as a shaded area with outline	stat_cornerhist('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported	Display an histogram of the x-y difference in an inset axis
'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} '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	stat_cornerhist('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity()	Display an histogram of the x-y difference in an inset axis
'extra_x' 10 Extend the x value range over which the density is evaluated stat_bin2d('nbins' [n_xbins n_ybins]	stat_cornerhist('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges' 'bandwidth' 'function'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7 0.3 'pdf'	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity()	Display an histogram of the x-y difference in an inset axis
stat_bin2d('nbins'	stat_cornerhist('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges' 'bandwidth' 'function'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7 0.3 'pdf' 'normal'	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity() Same argument as ksdensity()	Display an histogram of the x-y difference in an inset axis
'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	stat_cornerhist('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges' 'bandwidth' 'function'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7 0.3 'pdf' 'normal'	Results as oddged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity() Same argument as ksdensity()	Display an histogram of the x-y difference in an inset axis
'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	stat_cornerhist('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges' 'bandwidth' 'function' 'kernel' 'npoints'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7 0.3 'pdf' 'normal' 100	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity() Same argument as ksdensity() Same argument as ksdensity() How many points are used to plot the density	Display an histogram of the x-y difference in an inset axis
'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	stat_cornerhist(stat_density('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges' 'bandwidth' 'function' 'kernel' 'npoints' 'extra_x'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7 0.3 'pdf' 'normal' 100 10	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity() Same argument as ksdensity() Same argument as ksdensity() How many points are used to plot the density	Display an histogram of the x-y difference in an inset axis
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	stat_cornerhist(stat_density('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges' 'bandwidth' 'function' 'kernel' 'npoints' 'extra_x' 'nbins' 'edges'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7 0.3 'pdf' 'normal' 100 10 [n_xbins n_ybins] {x_edges_array, y_edges_array}	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity() Same argument as ksdensity() Same argument as ksdensity() How many points are used to plot the density	Display an histogram of the x-y difference in an inset axis
rormal) 'ci' Fit ellipse that contains 95% of the bootstrapped xy means 'geom' 'area' Plot the ellipse as a shaded area with outline	stat_cornerhist(stat_density('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges' 'bandwidth' 'function' 'kernel' 'npoints' 'extra_x' 'nbins' 'edges'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7 0.3 'pdf' 'normal' 100 10 [n_xbins n_ybins] {x_edges_array} 'image'	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity() Same argument as ksdensity() Same argument as ksdensity() How many points are used to plot the density	Display an histogram of the x-y difference in an inset axis
'ci' Fit ellipse that contains 95% of the bootstrapped xy means 'geom' 'area' Plot the ellipse as a shaded area with outline	stat_cornerhist(stat_density('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges' 'bandwidth' 'function' 'kernel' 'npoints' 'extra_x' 'nbins' 'edges'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7 0.3 'pdf' 'normal' 100 10 [n_xbins n_ybins] {x_edges_array} 'image'	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity() Same argument as ksdensity() How many points are used to plot the density is evaluated	Display an histogram of the x-y difference in an inset axis
'geom' 'area' Plot the ellipse as a shaded area with outline	stat_cornerhist(stat_density(stat_bin2d('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges' 'bandwidth' 'function' 'kernel' 'npoints' 'extra_x' 'nbins' 'edges' 'geom'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7 0.3 'pdf' 'normal' 100 10 [n_xbins n_ybins] {x_edges_array, y_edges_array} 'image' 'contour'	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity() Same argument as ksdensity() How many points are used to plot the density Extend the x value range over which the density is evaluated Fit ellipse that contains 95% of the points (assuming bivariate	Display an histogram of the x-y difference in an inset axis
	stat_cornerhist(stat_density(stat_bin2d('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges' 'bandwidth' 'function' 'kernel' 'npoints' 'extra_x' 'nbins' 'edges' 'geom'	-20: 0.5: 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7 0.3 'pdf' 'normal' 100 10 [n_xbins n_ybins] {x_edges_array, y_edges_array} 'image' 'contour' '95percentile'	Results as dodged bars Results connected by a line Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity() Same argument as ksdensity() How many points are used to plot the density Extend the x value range over which the density is evaluated Fit ellipse that contains 95% of the points (assuming bivariate normal)	Display an histogram of the x-y difference in an inset axis
Outer procession outsined of the Online	stat_cornerhist(stat_density(stat_bin2d('edges' 'geom' 'normalization' 'fill' 'width' 'dodge' 'location' 'aspect' 'edges' 'bandwidth' 'function' 'kernel' 'npoints' 'extra_x' 'nbins' 'edges' 'geom'	-20 : 0.5 : 20 'bar' 'line' 'overlaid_bar' 'stacked_bars' 'stairs' 'point' 'count' 'face' 'edge' 'all' 'transparent' 0.6 0.7 0.3 'pdf' 'normal' 100 10 [n_xbins n_ybins] {x_edges_array, y_edges_array} 'image' 'contour' '95percentile' 'ci'	Results as overlaid bars (use transparency) Results as overlaid bars (use transparency) Results as stacked bars Results as stair line Results as points Same as 'Normalization' argument of histcounts() Provide to specify width of bars Provide to specify dodging between elements x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis Same options as stat_bin(). 'specifying edges is recommended, stacked_bar geom unsupported Same argument as ksdensity() Same argument as ksdensity() How many points are used to plot the density Extend the x value range over which the density is evaluated Fit ellipse that contains 95% of the bootstrapped xy means	Display an histogram of the x-y difference in an inset axis

Method	Argument Name	Argument Value	Argument info	Method info
stat_qq(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'		Width of boxes	Box and whisker plots of y data for each unique x value
	'dodge' 'notch'		Dodging between boxes of different colors within unique x values Add notches at median \pm 1.58 IQR /sqrt(N) to the boxplot	
stat_violin('normalization'	'area' 'count'	Equal violin areas Areas proportional to point count	
		'width'	Equal violin widths	
	'half' 'bandwidth'	false	Same argument as stat_density() Same argument as stat_density()	
	'kernel'	'normal'	Same argument as stat_density()	
	'npoints' 'extra_y'		Same argument as stat_density() Same argument as stat_density()	
	'fill' 'width'	'face'	Same argument as stat_bin()	
	'dodge'			
			IENTS – geom_ method calls, orde	r indifferent
<pre>geom_abline(</pre>	'intercept' 'slope'		Single value or 1D array of length P Single value or 1D array of size P	
geom_vline('style'		Single string or 1D cellstr of size P Single value or 1D array of size P	
	'style'	'k'	Single string or 1D cellstr of size P	
geom_hline('yintercept' 'style'		Single value or 1D array of size P Single string or 1D cellstr of size P	
<pre>geom_funline(</pre>		@(x)exp(sin(x-pi))	Anonymous function or cell of anonymous functions	
geom_polygon('style'		Single string or 1D cellstr of size P Cell of vectors with vertices x coordinates, or cell of vectors with	
	'у'		x polygon limits if y omitted. Length P Cell of vectors with vertices y coordinates, or cell of vectors with	
	'alpha'		y polygon limits if x omitted. Length P Single value or 1D array of length P	
	'color'	[0 0 0]	RGB: 1x3 vector or matrix of size Px3. Or color indices	
	'line_color' 'line_style'		RGB: 1x3 vector or matrix of size Px3. Or color indices 1D cell of length 1 or P	
	(OPTIONS AND CUSTOMIZ	ATIONS - Method calls, order indif	ferent
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)	
	'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(I	'Title'	Desired title	Call on individual gramm objects to set title. Call on array of gramm objects to set global title
set_polar('FontSize'	true/false	Any text property 'Name',value pair Do we connect the first and last points ?	gramm objects to cot grobal time
	'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 'lch'	Number of boostrap samples Default HCL-based colormap	
set_color_options(шар	'matlab'	Matlab's own post 2014b map	
		<pre>'brewer1' 'brewer2' 'brewer3' 'brewer_pastel' 'brewer_dark' 'brewer_paired'</pre>	colorbrewer2.org colormaps	
		'd3_10' 'd3_20'	d3.js colormaps	
		'd3_20b' 'd3_20c'	Custom RGB colormap as Nx3 matrix	
		[0.1 0 0	N = n_colors x n_lightness Row ordering should be color#1/lightness#1;	
		0 0.2 0.9]	color#1/lightness#1; color#1/lightness#1; color#1/lightness#n;	
			color#2/lightness#1;; color#n/lightness#n	
	'n_color' 'n lightness'		number of color categories when using a custom RGB colormap number of color categories when using a custom RGB colormap	
		'separate_gray'	default for LCH colormap, shows colors and lightness in separate legends, lightness is displayed in a gray scale	
		'separate'	default for other colormaps, shows colors and lightness in	
		'expand'	separate legends, lightness is displayed using the first color displays all color/lightness combinations	
		'merge'	merge color legends with marker/line/size legends if the categories are the same	
	'lightness_range'			
	'chroma_range' 'hue_range'		Options for the HCL colormap generation	
	'lightness' 'chroma'			
set_point_options({'o' 's' 'd' '^' 'v' '>' '<' 'p' 'h' '*' '+' 'x'}	Set order for marker categories	
	'base_size'	5	Set marker base size	
	'step_size' 'use_input'		Set size categories size increment 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'		Values sorted in ascending order (default) Keep order of appearance of values in the input	
		0 -1	Values sorted in descending order	
		[value1 value2 value3]	Values ordered according to the provided array/cell. If the 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 truncate the data.	all variables provided in the main gramm() call except y, also supports reordering of facets with 'row' and 'column'
		[index1 index2 index3]	Values ordered according to the provided indices (indices	
	'color'		correspond to indices in the sorted values array/cell)	

	Method	Argument Name	Argument Value	Argument info	Method info	
	set_continuous_color('colormap'		Set continuous colormap by name (Matlab defaults available)		
		'active'	<pre>false [L_start L_end ;</pre>	Force continuous colors on or off if possible		
		'LCH_colormap'	C_start C_end ; H_start H_end]	Set continuous colormap definition in LCH colorspace		
		'CLim'	[color_min color_max]	Force color axis limits (automatic by default)		
	set_text_options('Helvetica'	Font to use for all text		
		'interpreter' 'base_size'		Interpretation of text characters ('tex' / 'latex' / 'none') Base text size, corresponds to axis ticks text size		
		'label_scaling'		Scaling of axis label sizes relative to base		
		'legend_scaling'	1	Scaling of legend label sizes relative to base		
	'lege	end_title_scaling'	1.2	Scaling of legend title sizes relative to base		
		'facet_scaling'		Scaling of facet title sizes relative to base		
	'h	'title_scaling'		Scaling of facet title sizes relative to base Scaling of overarching figure title size relative to base		
	set_layout_options('position'	'auto' [left bottom width height]	Position of the plot in the figure. when set to 'auto', the position is set according to the indices of the gramm object in the matrix i.e. g(ind_row,ind_col). When set manually the indices of the gramm objects don't matter.		
		'legend'	true/false	Side legend (colors, markers, etc) on or off		
		'legend_width'	'auto' 0.2	Proportion of the width of the plot occupied by the side legend		
		'legend_position'	'auto' [left bottom width height]	Detach side legend and place in the figure		
		'title_centering'	'axes' 'plot'	Centering of plot title relative to axes or axes+legend		
		'redraw'	true/false	If 'redraw' is true, spacing is adjusted automatically after drawing and figure resizing in order to keep the plots tight. This can cause misaligments		
		'redraw_gap'	0.04	gap to use for automatic spacing		
		'margin_height'				
		'margin_width'	<pre>[left right] 'auto'</pre>	Adjust margins and gaps when 'redraw' is set to false		
		'gap'	[width height]			
	axe_property('axe_property'	axe_property_value	Pass one or multiple name, value pairs for Axes Properties (XLim, XGrid, DataAspectRatio)		
	no_legend(color/size/line/marker legend are not displayed	
	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' 'y'		Same arguments as datetick(): tickaxis,dateformat		
	coord_flip(Y Y			Exchange the X and Y axes: use to generate horizontal plot elements (boxplots, violins)	
			DRAWI	NG – Last method call		
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 between elements (facets, legends)		
	SUPER	IMPOSING M	ULTIPLE GRAMM PLOTS	- After draw() call, allows new visu	ualizations with new data	
	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.	
	FIGURE EXPORT – After draw() call					
	export('file_name'	'gramm_export'	Name of the exported file		
		export_path'		Path of the destination folder (default is current folder)		
		'file_type'		Format of the saved image		
		Indiath I	'pdf' 'eps' 'png' 'jpg' desired width	Width of the saved image in Junite!		
			desired width desired height	Width of the saved image in 'units' Height of the saved image in 'units'		
			'centimeters'	Units for the saved image dimensions		
			'inches'			