		Method A	rgument Name	Argument Value	Argument info	Method info
	g=	gramm('x'	x variable		
Trigonome	(ind_row,ind_col)=		'у'	y variable	1D array of length N, Matrix of size (N,M) , (N,1) cell of 1D arrays	
Lambigue			'label'	label text	1D array/cellstr of length N	
					,	Constructor for the class. Must be called first and result assigned to a variable
Part			_			
Total process Total proces						
					. ,	
Chear protection of the common control of th						
Section of the content of the cont	g.	facet_grid(
Secure 15 Secu	(ind_row,ind_col).		'scale'			
Company Comp			Source		·	
Company Comp						
County C					l · · · · · · · · · · · · · · · · · · ·	Use to provide data that will determine separation between
Total Control			'space'		i i	subblots rows and columns. First argument provided will separate along rows, second will separate along columns
According to provide the common and				'free_x'		
Transport class is constructed as the control of th				'free_y'	Axis height proportional to y limits (requires 'scale', 'free_y' or	
Force _ Second				!froo!	•	
Facel, temps content c			lforms did to		'scale','free'	
terrors 1 terrors 1 terrors 2 terror		facet wrap(iorce_ticks'		·	
geom_point() **Comparison**		3F ('ncols'			Use to provide data that will determine separation between subblots columns, with a wrapping: a new row of subplots is
gener_jate test Could Coul						
geom_interest state		geom point(bo we overnue deladits and force ticks on all subplots	Represent raw data as points (supports calor lightness and
Four-part on the Country of Province of Country of					Set the alpha of points (0:fully transparent, 1: solid)	Represent raw data as points (supports color, lightness, marker size)
"Interior 0		geom iitter/			How much are the points jittered in horizontal direction (in data	
"code" C.5 When some multiple colon, use to deagly approach comments between colon with the some value Spitece, multiple colon, use to deagly approach comments Spitece, multiple colon, use to deagly approach colon use to the colon t		330J 200GI (
Section Sect			'height'	0	· · · · · · · · · · · · · · · · · · ·	Represent raw data as jittered points, useful when lots of overlapping points, e.g. with discrete values (supports color,
geom_lane ('dodge'	0.5		lightness, marker, size)
Section of the content of the cont			'alpha'	1	Set the alpha of points (0:fully transparent, 1: solid)	
same and services will be served to the service of the services of the service		geom line('dodge'	0.5		Represent raw data with lines (supports color, lightness, marke
geom_bar(gco(size). If x and y are 1D arrays, all points within a group will be
Time reader elements are lines Perpetation as a Another for		geom raster(
**Content **Co		g00 <u>_</u> (Represents raw x data as a raster plot
services of the with the same x value geom_interval (geom_bar('width'	0.6	Provide to set the width of errorbars	
Same 'poem' as in stat_summary()			'dodge'	0.8		
Provide to set the width of bars and errorbars Proprietable to set the width of bars and errorbars			'stacked'	true/false	Se to true to have bars placed at the same x stacked	
"viach" 0.6 Provide to soft the width of bars and emorbans Represent intervise provided ymm' and analy		geom_interval('geom'	'area'	Same 'geom' as in stat_summary()	
"dodge" 0.7 When using multiple colors, use to dodge graphical elements between colors with the same x value				•••		Represent intervals provided 'ymin' and 'ymax' data (error bars,
geon_label ('dodge' 0			'width'	0.6		
Color Institution Color Institution Color of the test default is 'auto' in order for the test color to follow gramm color			'dodge'	0.7		
Color of the text, default is "auto" in order for the text color to follow garmm color and Any property of a text() object. 'Color, 'tsackgroundColor and TidgeColor can be set to auto" in order to use gramm color and TidgeColor can be set to auto" in order to use gramm color and TidgeColor can be set to auto" in order to use gramm color and TidgeColor can be set to auto" in order to use gramm color and TidgeColor can be set to auto" in order to use gramm color and tidge Color can be set to auto" in order to use gramm color and tidge Color can be set to auto" in order to use gramm color and tidge Color can be set to auto" in order to use gramm color and tidge Color can be set to auto" in order to use gramm color and tidge Color can be set to auto" in order to use gramm color and tidge Color can be set to auto" in order to use gramm color and tidge Color can be set to auto" in order to use gramm color and tidge Color can be set to auto" in order to use gramm color and tidge Color can be set to auto" in order to use gramm color and tidge Color can be added and tidge Color can		geom_label('dodge'	0		
Any property of a text] object. Color, BackgroundColor and EdgeColor can be set to fauto in order to use gramm color stat_summary('type' 'cl' mean 8 boolstrapped 95%Cl of the mean face and standard derivation mean 8 boolstrapped 95%Cl of the mean face and standard derivation mean and standard derivation median and quartiles 'guartile' median and quartiles 'goperentile' median and 95% Cl of the mean from filted normal distribution mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification mean and 95% Cl of the mean from the dominated identification means as points and property of the property			l Gallani	loutel		
### EdgaColor' can be set to fauto' in order to use gramm color ### bootc1 ### mean and standard error of the mean ### stadd ### mean and standard error of the mean ### mean and standard deviation ### median and quartiles ### median and quartiles ### median and quartiles ### median and quartiles ### median and 95% CI of the mean from fitted normal distribution ### mean and 95% CI of the mean from fitted rormal distribution ### mean and 95% CI of the mean from fitted point distribution ### mean and 95% CI of the mean from fitted point distribution ### mean and 95% CI of the mean from fitted point distribution ### mean and 95% CI of the mean from fitted point distribution ### mean connected by a line. CI as thin lines ### means connected by a line. CI as thin lines ### means connected by a line. CI as thin lines ### means connected by a line. CI as solid shaded area (use for vector sports in pre 2014b versions) ### point means as points ### point means as poin			Color	auto		
'bootci' mean & bootstrapped 95%Cl of the mean 'sted' mean and standard error of the mean 'quartito' median and quariles 'gspercentile' median and quariles 'fithornatici' mean and 95% Cl of the mean from fitted normal distribution 'fithorialci' mean and 95% Cl of the mean from fitted Poisson distribution 'fithonialci' mean and 95% Cl of the mean from fitted poisson distribution 'geech' area! means connected by a line, Cl as shin depth townial distribution 'geech' area! means connected by a line, Cl as this fines 'line' means connected by a line, Cl as this fines 'line' means connected by a line, Cl as this fines 'line' means connected by a line, Cl as shin depth of the summary valuables of this 'line' means connected by a line, Cl as solid shaded area (use for vector exports in pre 2014b versions) 'black_errorbar' Cl as back errorbar 'black_errorbar' Cl as colored errorbar lix (as provided as a matrix or a coll of has non-adjaced X values, the argume to resolve the summary values of the same as a colored bars 'broint' means as colored bars 'setyliat' truo/false the cuttor of the subplot according to the summary or the data? 'interp' 'linear' argument of interpl. Use 'poolar' for circular data. 'interp' 'linear' argument of interpl. Use 'poolar' for circular data. 'interp' 'linear' argument of interpl. Use 'poolar' for circular data. 'interp' 'linear' argument of interpl. Use 'poolar' for circular data. 'interp' 'linear' argument of interpl. Use 'poolar' for circular data. 'interp' 'linear' argument of interpl. Use 'poolar' for circular data. 'interp' 'linear' argument of interpl. Use 'poolar' for circular data. 'provide to linearity interpolate the output (corresponds to number of bins) 'vidth' 0.6 Provide to set the width of bars and errorbars 'dodge' 0.7 When using multiple colors, use to dodge graphical elements between colors with the same x value Sender (nove the subplot corresponds to number of bins)						
"sem" "atd" "quartile" "quartile" "poper centiles "fitnormalot" "geon" "ato" "area" "aman and 95% Cl of the mean from fitted normal distribution mean and 95% Cl of the mean from fitted hormal distribution mean and 95% Cl of the mean from fitted hormal distribution mean and 95% Cl of the mean from fitted hormal distribution mean and 95% Cl of the mean from fitted hormal distribution mean and 95% Cl of the mean from fitted hormal distribution mean and 95% Cl of the mean from fitted hormal distribution mean and 95% Cl of the mean from fitted hormal distribution mean connected by a line, Cl as shaded transparent area means connected by a line, Cl as thin lines means connected by a line, Cl as thin lines "solid_area" "solid_area" "solid_area" "black_errorbar" "cl as black errorbar "cerrorbar" "black_errorbar" "black_errorbar" "cerrorbar" "brac" "means as colored arrorbar means as colored bars "brac" "point" "means as colored bars "point" "means as points Do we sat the YLim for the subplot according to the summary or the data? "interp_is" "interp_is" "interp_is" "interp_is" "interp_is" "interp_is" "interp_is" "provide to interpolate the output (corresponds to the methods agrument of interpr). Use "pola" for circular data. "provide to linearly interpolate the input over x (corresponds to number of x points) "winth, in a provide to be in the width of bars and errorbars "dedge" "provide to be in the width of bars and errorbars "dedge" "Anothing parameter (low values graphical elements between colors with the same x values between colo		stat_summary('type'			
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"standard" median and 95% percentiles mean from fitted normal distribution mean and 95% Cl of the mean from fitted poisson distribution fittpoissonci" mean and 95% Cl of the mean from fitted poisson distribution mean and 95% Cl of the mean from fitted poisson distribution mean and 95% Cl of the mean from fitted poisson distribution mean and 95% Cl of the mean from fitted poisson distribution mean and 95% Cl of the mean from fitted poisson distribution mean and 95% Cl of the mean from fitted poisson distribution means and 95% Cl of the mean from fitted poisson distribution means and 95% Cl of the mean from fitted poisson distribution means and 95% Cl of the mean from fitted poisson distribution means and 95% Cl of the mean from fitted poisson distribution means as poisson and provided as the format part of the distribution of the provided as a mean and 95% Cl of the mean from fitted poisson distribution means as concreted by a line, Cl as solid anded area (use for vector exports in pre 2014 by ersions) If x and y are provided as 10 arrays the provided of the provided area (use for vector exports in pre 2014 by ersions) If x and y are provided as 10 arrays the provided of the provided area (use for vector exports in pre 2014 by ersions) If x is provided as a matrix or a cell of has non-aligned X values, by argument or the data? If x is provided as a matrix or a cell of has non-aligned X values by interpolating to the summary or the data? If x is provided as a matrix or a cell of has non-aligned X values by interpolating to the summary or the data? If x is provided as a matrix or a cell of has non-aligned X values by interpolating to the summary or the data? If x is provided as a matrix or a cell of has non-aligned X values by interpolating to the summary or the data? If x is provided as a matrix or a cell of has non-aligned X values by interpolating to the summary or the data? If x is provided as a matrix or a cell of has non-aligned X values by interpolating to the summary or the data? If x is provided						
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'solid_area' vector exports in pre 2014b versions) 'black_errorbar' 'errorbar' 'bar' means as colored bars 'point' means as points 'setylim' 'interp' 'interp' 'interp' 'interp' 'interp' 'interp' 'bin_in' 100 Provide to linearly interpolate the input over x (corresponds to number of bins) 'point' Provide to bin inputs over x values (corresponds to number of bins) 'point' Provide to set the width of bars and errorbars 'interp' 'interp' 'interp' 'interp' 'interp' 'or or o						
black_errorbar' 'errorbar' 'bar' 'means as colored bars 'point' 'means as points 'setylim' 'interp' 'interp' 'interp_in' 'bin_in' 'bin_in' 'bin_in' 'bin_in' 'dodge' 'dodge' 'dodge' 'dodge' 'lambda' 'lambda' 'lambda' 'lambda' 'lambda' 'black_errorbar' CI as black errorbar CI as colored errorbar If X is provided as a matrix or a cell of has non-aligned X values, the argume to create aligned X values by interpolate the country or the data? 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 number of x points) Provide to bin inputs over x values (corresponds to number of bins) When using multiple colors, use to dodge graphical elements between colors with the same x value Smoothing parameter (low values smooth less)				'solid_area'		If X and Y are provided as 1D arrays but X values are not discrete enough, it is possible to compute the Y summaries over X bins with the line in a summaries.
'bar' means as colored errorpar has non-aligned X values, the argume to create aligned X values by interpole means as colored bars to create aligned X values by interpole means as points Do we set the YLim for the subplot according to the summary or the data? 'interp' 'linear' Provide to interpolate the output (corresponds to the methods argument of interp1). Use 'polar' for circular data. 'interp_in' Provide to linearly interpolate the input over x (corresponds to number of x points) 'bin_in' Drovide to bin inputs over x values (corresponds to number of bins) 'width' 0.6 Provide to set the width of bars and errorbars 'dodge' 0.7 When using multiple colors, use to dodge graphical elements between colors with the same x value **Stat** smooth(**) **Iambda*** 1000 Smoothing parameter (low values smooth less)				'black_errorbar'	,	
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argument of interp1). Use 'polar' for circular data. Provide to linearly interpolate the input over x (corresponds to number of x points) Provide to bin inputs over x values (corresponds to number of bins) Provide to bin inputs over x values (corresponds to number of bins) Provide to set the width of bars and errorbars 'dodge' When using multiple colors, use to dodge graphical elements between colors with the same x value stat smooth('lambda' 1000 Smoothing parameter (low values smooth less)						
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bins) 'width' 0.6 Provide to set the width of bars and errorbars 'dodge' 0.7 When using multiple colors, use to dodge graphical elements between colors with the same x value stat smooth('lambda' 1000 Smoothing parameter (low values smooth less)			lhin int	10	Provide to bin inputs over x values (corresponds to number of	
'dodge' 1			_		bins)	
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stat smooth('lambda' 1000 Smoothing parameter (low values smooth less)			'dodge'	0.7		
Represents fast spline smoothed Y da		stat_smooth(Represents fast spline smoothed Y data with confidence interv
					·	This is not proper to use when X/Y are matrices or cells of arra
stat_glm('distribution' 'normal' Same geom as in gramm stat_summary() Same geom as in gramm stat_summary() Same argument as fitglm()		stat glm(
		_5 (
Do we display the fit over the whole views or just on the range						Fits and displays generalized linear models 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			'fullrange'	true/false		
'disp_fit' true/false Do we display the fitted equations (with pvals stars)			'disp_fit'	true/false	Do we display the fitted equations (with pvals stars)	

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Metnod	Argument Name	Argument value	Argument info	Method info
stat_fit('fun'	<pre>@(param1,param2,x)x.^param1+param2</pre>	Anonymous function with parameters to fit as first arguments and x as last argument	
	'StartPoint'	[param1_start param2_start]	Array with starting values of parameters	
	'intopt'	'observation'	95% bounds on a new observation (see option of predint())	
		'functional'	95% bounds for the fitted function	Fits and displays a provided custom function to the data
	'fullrange'	true/false	Do we display the fit over the whole x axis, or just 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'	30	Number of bins	
		-20 : 0.5 : 20	Edges ovf bins (overrides 'nbins')	
	'geom'	'bar' 'line'	Results as dodged bars Results connected by a line	
		'overlaid_bar'	Results as overlaid bars (use transparency)	
		'stacked_bars'	Results as stacked bars	
		'stairs'	Results as stair line	
	'normalization'	'point' 'count'	Results as points	
	HOIMATIZACION	•••	Same as 'Normalization' argument of histcounts()	
	'fill'	'face'		
		'edge'		
		'all' 'transparent'		
	'width'		Provide to specify width of bars	
	'dodge'	0.7	Provide to specify dodging between elements	
stat_cornerhist('location'	0.3	x (or y) location of the inset axis on the unity line of the parent Aspect ratio (y/x) of the inset axis	
			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
	'edges'	•••	stacked_bar geom unsupported	
stat_density('bandwidth' 'function'	'pdf'	Same argument as ksdensity()	
	Tunction	···	Same argument as ksdensity()	
	'kernel'			
		•••	Same argument as ksdensity()	
	'npoints' 'extra_x'		How many points are used to plot the density Extend the x value range over which the density is evaluated	
stat_bin2d([n_xbins n_ybins]		
	'edges'	<pre>{x_edges_array, y_edges_array}</pre>		
	'geom'	'image' 'contour'		
at at	la		Fit ellipse that contains 95% of the points (assuming bivariate	
stat_ellipse(type	'95percentile'	normal)	
	'geom'	'ci' 'area'	Fit ellipse that contains 95% of the bootstrapped xy means Plot the ellipse as a shaded area with outline	
	geom	'line'	Just plot the outline of the ellipse	
	patch_opts			
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'	0.6	Width of boxes	Box and whisker plots of y data for each unique x value
	'dodge'		Dodging between boxes of different colors within unique x values	Dox and willower pioto of y data for each utilique x value
stat_violin('notch'		Add notches at median ± 1.58 IQR /sqrt(N) to the boxplot Equal violin areas	
3cac_v1011II('count'	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'		Same argument as stat_density()	
	'extra_y'		Same argument as stat_density()	
	'fill' 'width'		Same argument as stat_bin()	
	'dodge'			
geom_abline(Single value or 1D array of size P	
	'slope'		Single value or 1D array of size P Single string or 1D cellstr of size P	
geom_vline(Single string or 1D cellstr of size P Single value or 1D array of size P	
J.S	'style'		Single string or 1D cellstr of size P	
<pre>geom_hline(</pre>			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	
300#_14#11#6('style'		Single string or 1D cellstr of size P	
set_names('x axis legend'	Legend for the x axes	
		'y axis legend'	Legend for the y axes Title of the row legends (actual titles will be a combination of title	
	'row'	'row legend'	and value)	
	'column'	'column legend'	Title of the column legends (actual titles will be a combination of title and value)	
	'color'	'color legend'	Title of the color legend (actual legend will use the values)	
			All other titles for the gramm() arguments	
set_title('Title'	Desired title	Call on individual gramm objects to set title. Call on array of
	'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_stat_options('alpha'	0.05	Alpha-level for confidence intervals	
('nboot'		Number of boostrap samples	
set_color_options(Default HCL-based colormap	
,		'matlab'	Matlab's own post 2014b map	
		'brewer1' 'brewer2' 'brewer3' 'brewer_pastel' 'brewer_dark'	colorbrewer2.org colormaps	
		[0.1 0 0	Custom colorman as Ny2 matrix	
		0 0.2 0.9]	Custom colormap as Nx3 matrix	
	'lightness_range' 'chroma_range'			
	'hue_range'			
	'lightness'			

	Method	Argument Name	Argument Value	Argument info	Method info
		'chroma'	75		
	set_point_options('markers'	{'o' 's' 'd' '^' 'v' '>' '<' 'p' 'h' '*' '+' 'x'}	Set order for marker categories	
		'base_size'	5	Set marker base size	
		'step_size'	2	Set size categories size increment	
		'use_input'	false	Set to true to use the actual values of size categories as marker	
		'input_fun'	@(s)s	when 'use_input' is set to true, provide a function to map category value to marker size	
	set_line_options('styles'	{'-'-'':''}	Set order for line style categories	
		•••		Same size options as set_point_options()	
	set_order_options('x'	1	Values sorted in ascending order (numeric or alphabetical)	
			0	Keep order of appearance of values in the input	
			-1	Values sorted in descending order	
			<pre>[value1 value2 value3] {'value1' 'value2' 'value3'}</pre>	Values ordered according as in the provided array/cell (all unique values have to be present in the array/cell	
			[index1 index2 index3]	Values ordered according as in the provided indices (array of indices in the sorted values array/cell)	
		'color'			
		•••			
	set_continuous_color('colormap'	'hot'		
		'LCH_colormap'	[L_start L_end; C_start C_end; H_start	t H_end]	
	set_text_options('font'	'Helvetica'	Font to use for all text	
		'base_size'	10	Base text size, corresponds to axis ticks text size	
		'label_scaling'	1	Scaling of axis label sizes relative to base	
		'legend_scaling'	1	Scaling of legend label sizes relative to base	
	'lege	end_title_scaling'	1.2	Scaling of legend title sizes relative to base	
		'facet_scaling'	1.2	Scaling of facet title sizes relative to base	
		'title_scaling'	1.4	Scaling of facet title sizes relative to base	
	'}	big_title_scaling'	1.4	Scaling of overarching figure title size relative to base	
	axe_property('axe_property'	axe_property_value	Pass one or multiple name, value pairs for Axes Properties (XLim, XGrid, DataAspectRatio)	
	no_legend(
	set_limit_extra([0.05 0.05]	How much do we extend limits of x axis (ratio wrt original limits)	
			[0.05 0.05]	How much do we extend limits of y axis (ratio wrt original limits)	
	set_datetick('x'	1	Same arguments as datetick(): tickaxis,dateformat	
		'y'	2		
g.	draw(false	Give false as (optional) argument to disable automatic setting of redraw() as resizing callback	Draw the plot! Call on an array of gramm objects to draw all elements on the same figure. The plots are then located according to the row and column indices in the array)
	redraw(0.05	Redraw with custom spacing	
g.	update('color'	new color grouping variable	update() takes the same type of arguments as gramm(). Provide the variables you want to change or add for the following layers. All the other variables will stay as defined by the first call to gramm().	Call update() after a first draw() call in order to change grouping variables for the next layers. Note that after an update() call it is also possible to update facets with facet_grid() or facet_wrap(). for facet updates, the only supported update is going from one facet to multiple ones, or from multiple facets to one: in each case, the layers drawn on the single facet will be copied to the other facets.