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Cheatography

Geoms

What is a Geom?

A geom is a geometric object and is a function that controls the way in which your data is visualized.

Basic Graph Features:		
geom_blank()	n_blank(): Creates a blank canvas	
geom_path():	Data points are joined according to how they are ordered in the data	
geom_line():	Data points are connected according to the order on the x axis	
geom_ribbon(A line graph that has an area highlighted above and below the line. The thickness of this highlighted part is defined by a y-min and y-max	
geom_segm- ent():	- •	
geom_rect():	Create rectangles	
geom_poly- gon():	Create polygons	
geom_text():	Add labels and text	
Single variable	es	
Discrete:		
geom_b Cr ar():	eate a bar graph	
Continuous:		
geom_h Cr istogr- am():	Create a histogram (to show distribution of a continuous variable)	
geom_d Cr ensity():	Create a density plot (a smoothed version of a histogram)	
geom_d Ea otplot():	Each dot represents an observation where the size of the dot is the bin width	
-	A frequency polygon for when you want to compare the distribution of various elements in a category. An alternative to stacking histograms. With a histogram you display the number of observations using a bar, but with a frequency polygon you use lines.	

poly():

Two variables:		
Both continuous:		
geom_point():	Scatterplot	
geom_quantile():	Drawing a line through a regression	
geom_smooth():	Add a line of best fit	
Show distribution:		
geom_bin2d():	Creates a heatmap - as an alternative to geom_point if too many points	
geom_density2d():	Creates a 2D density plot	
geom_hex():	An alternative to geom_bin2d() but the bins are hexagons	

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Two variables: (cont)		
At least one discrete:		
geom_c- ount():	When there are too many points in a specific location on your plot, you can count them and create a group. This helps when there are too many data points to plot effectively (this is to prevent overplotting)	
geom_jitter():	Adds random variation (dots) at each data point	
One continuous, one discrete:		
geom_b- ar(stat = "ide- ntity"):	geom_bar uses stat="bin" as its default making the height of each bar equal to the number of cases in each group. If you want the heights of the bars to represent values in the data, use stat="identity" and give the y aesthetic a value.	
geom_boxp- lot():	Box plots	
geom_viol- in():	Violin plot (like a box plot but instead of a box, you have the shape of how the data is distributed)	
One time, one continuous		
geom_area():	Area plot	
geom_line():	Line plot	
geom_step():	Step plot - Connects data points as they change creating a line that looks like a staircase	
Spatial:		
geom_map():	Create a map with geographical data	

С

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