

Python - Seaborn Cheat Sheet

by Pitbull (aggialavura) via cheatography.com/83764/cs/19851/

set palette

split by hue

TO START

import seaborn as sns # If working on a notebook %matplotlib inline

DISTRIBUTION PLOTS

sns.distplot(df['col'])	distribution plot
- bin = x	number of bins
- kde = False	remove the line
sns.jointplot(x,y,df)	plot 2 variables
- kind = "	kind of plot*
sns.pairplot(df)	plot all vars combin

- hue='categ var' distinguish per var - palette=" set a color palette

idea of distribution

sns.rugplot(df['col'])

sns.kdeplot(df['kde plot

col'])

- split = True

"kind=" E.g.: hex, reg, kde.

CATEGORICAL PLOTS sns.barplot(x,y,df) bar plot - estimator="* bar values sns.countplot(x,df) bars = count sns.boxplot(x,y,,df) box plot - hue='categ var' divide per var - palette=" set palette - orient='h' horiz. plot sns.violinplot(x,y,df) violin plot* - hue='categ var' divide per var - palette=" set palette sns.stripplot(x,y,df) bars = scatter - jitter = True add noise - hue='categ var' divide per var - palette=" set palette

CATEGORICAL PLOTS (cont)		
sns.swarmplot(x,y,df)	swarm plot	
- hue='categ var'	divide per var	

** You can alo combine more plots by calling them one after each other.

- palette="

- split = True

sns.factorplot(x,y,df,kind)* general categorical form of graph

TIP: when you call a plot function, press "shift + tab" to show the parameters

estimator= can be, mean, std, or whatever function. It will display the bars or whatever you choose.

General form, kind=: e.g., point, bar, violin, etc.

ON CATEGORICAL PLOTS...

What is a violin plot?

It has a similar role of a box and whisker plots. It shows the distribution of quantitative data across several levels of one (or more) categorical variables. The violin plot features a kernel density estimation of the underlying distribution.

What is a strip plot?

It will draw a scatterplot where one variable is categorical. It is also a good complement to a box or violin plot in cases where you want to show all observations along with some representation of the underlying distribution.

What is a swarm plot

It is similar to a stripplot(), but the points are adjusted (only along the categorical axis) so that they don't overlap. This gives a better representation of the distribution of values, although it does not scale as well to large numbers of observations.

MATRIX PLOTS		
sns.heatmap(df.corr- ())*	heat map plot	
- annot = True	add actual values	
- cmap="	set a color palette	
- linecolor="	set borders	
- linewidths=x	set border width	
sns.clustermap(matr- ix)	hierarc. clustering	
- cmap="	set a color palette	
- standard_scale = 1	normalise data	

Heat map plot needs a correlation matrix, or more generally, a matrix. You can use the pivot table(index,columns,values) function to convert a dataframe.

GRIDS	
sns.pairplot(df)	plot all vars combination
- hue='categ var'	divide per var
- palette="	set palette
g = sns.PairGrid(df)	set (empty) axis of pairplot
-g.map(plt.scatter)	populate axis with some plot
-g.map_diag(plt.hist)	set diag plots
-g.map_upper(plt.scatter)	set upper plots
-g.map_lower(sns.kdeplot)	set lower plots
g = sns.FacetGrid(d- f,c,r)	empty axis
-g = g.map(plt .hist, "c")	populate axis histograms
g.map(sns.distplot, "c")	populate axis with distplots

now some more complex stuff

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GRIDS (cont)		
- hue='categ var'	divide per var	
-g = g.map(plt.scatter, "c	", "c").add_legend()	
g = sns.JointGrid(x,y,df)		
general form of jointplot()		

g = g.plot(sns.regplot, sns.distplot)
join two plots

REGRESSION PLOTS	
sns.Implot(x,y,df)	creat reg plot
- hue='categ var'	divide per var
- palette="	set palette
- markers=" *	set mark shape
- scatter_kws='dict' *	set marker size
sns.Implot(x,y,df, col)	create a grid plot
sns.lmplot(x,y,df, row,col)	X*X grid
sns.lmplot(x,y,df, row,col,hue)	X*X*X grid
- aspect = x	choose ratio
- size = x	set size

markers=": e.g., o,v,etc.
scatter_kws=" e.g.: {'s':100}, it is a call to
matplotlib. It will be hard to remember how
to use these special cases, so no worries,

STYLE and COLOR sns.set_style('darapply darkgrid kgrid') style sns.set_style('ticks') apply ticks style sns.despine() remove borders sns.despine(left=True) remove left border plt.figure(figsize=(x,x))choose fig size sns.set_context('talk') set context set font size sns.set_context (font_scale) .set_context("): e.g.: paper, poster, talk, notebook, etc.

C

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you will have a look online.

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