Date Leabarn 2-4 eistribution plat 1) Sistplat Seaborn (2) Jaint Plat 3) pair plat Be rug plat 10 kse plat Impart Seabarn as sos of matplatlik in line Seabarn comes with with - in data sits tipo = sos boad - dataset ('tipo') tips. head () Sistplut > The sistplat shows the distribution of univariate Set of abservation. sns. dist plat (tips ['tutal\_hill']). To remark the kde Layer and Just have the histogram sno distiplat (tips ['tutal-bill'], koe = qalse, hins = 30) Jaint plut Jaintplat!) allows you to basically match up two distiplats for hivariate dota with your chaile of what kind of parameter to compare with.

(1) Scatter

(2) Reg

(3) resid

(4) kdc

(5) hen

Sns. jaintplat (n = 'tatal-lill') ]= 'tip', data=tips,
kind = 's (attes').

Ins. Jaint plat (n- !tatal - lill') y = 'tip', data = tips;

kind = 'hen')

Ins. jaintplat (n = 'tatal - bill') J= 'top', data = tops,

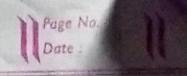
kind = 'reg')

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The state of the s

The total soil sold in the



Pairplat: Pair plut will plut pairwise retationship werens an entire detarhance and support a calaba hue argument sns. pair plat (tips)

Drs. pair plat (tips, hu='sen', palite='coolwarm')

Rugplots: Rug Plat are actually a very timple contents

they Just arow a drown mark for avery point

an a univariate distribution. They are building
block of a KDE plat

sns. Rugplat (tips ['talar-hill']).

Categorical Plats

2 Ban plat 3 Vialinplat

Mripplat

5 swarmplat 6 barplat

Countplat

	Pair Plat: Pair state 11
	Pair plat: Pair plat will plat pairwise watership
	sns. pair plat (tips)
	Ans. pair plate ties in the
	Drs. pair plat (tips, hu='sen', palitle='coolwarm')
	^
	the die attuilly a very timple contents
	Just draw a drop mark for avery point
	they just anow a dash mark for a very simple contents on a univariety distribution. They are building
	black of a KDE plat
	Ans O said ( ) is all
	sns. Rugplat (tips ['tatal-hill']).
	Categorical Plats
	Mategorical Plats
1	
1 2	Factorplat
1 2 3	Factorplat. Ban plat
	Factorplat Ban plat Vialinplat
3	Factor plat  Ban plat  Vialin plat  Unipplat
3 h 5	Factorplat Ban plat Vialinplat Atripplat Swarmplat
3 4 5 6	Factorplat Ban plat Violinplat Unipplat Swarmplat banplat
3 h 5	Factorplat Ban plat Vialinplat Atripplat Swarmplat
3 4 5 6	Factorplat Ban plat Violinplat Unipplat Swarmplat banplat
3 4 5 6	Factorplat Ban plat Violinplat Unipplat Swarmplat banplat
3 4 5 6	Factorplat Ban plat Violinplat Unipplat Swarmplat banplat

autor of the Control of the Control

Darplat and contplat > Anous you to get Aggregate source on a categorical Feature in your data. Barplat is a generalplat that allows you be aggregate the categorical data based on some function sns. barplat (n=1sen', 1= 'tatal-bill', data = tips) > mport numpy as no You can change the Estimatar object the your own function, that converts a vector to a scalar Ing. barplot (n='sen') = 'tatal-bill') data = tips, Estimater = np. std) Launt Nat Estimator is Emplicitly counting the number of occurrences. Ins. Launtplut (n='sin'; data=tips). bon Plus and Vialinplut Ganplats and Vialinplots are used the show the distribution of categorical data. A bon plat shows the distribution of quantitative data in away that facilitates Camparison between Variables an Jacress level of a Categorical Variable. The bon shows the quartiles of the dites it while the whis kers entend to show the rest of distribute method that is a function of the intersurable parge.

Sharplat (ne "day", se "tuble leid" adata tips,

It we can do entire data have with orient 'h'
Ins banglat (data = tips politle = 'nainbaw', grient = 'h')

sno boreplat (n = "day") J = "tatal bill", hu = "smaker",
data = tipo, palette = "Condwarm").

Vialin Lat

A Violin plat plays a similar rate as a from and a whisher plat. It shows the distribution of avantitative data allnows several levels as one categorical variables such that these distributions can be compared while a bon plat, in which all the plat comparents consequent to actual data paints , the Violingtot Heatines a RDE of the underlying distribution

Sns. Vialinglat (n = "day", y = "tatal - hill", data = tips)

Palette = 'nainbaue')

> sns. Vialinplat (n="day", J="tatal-lill") data = tips,
hue = 'sen', palette = 'set')

-> Sns. vialinglat (n="doy") j="tatal-hill", data = tips, hu = 'sen', split = true, palette = 'set!).

## Stripplest and Swamplest

- I the stripplut will draw a scatterplat where one variable to categorical. A stripplut can be drown on its own that it is also a good complement the a bon or vialin plat.
- The swamplut is similar to stripplate; but the points are adjusted larly along the (ategorical axis) so that they don't averlap This gives a butter representation of the distributer values, although it does not slate as well to large numbers. Of absentation.
- > sns. stripplut (n = "day", J = "tatal hill", data = tips)
  sns. stripplut (n = "day", J = "tatal hill", data = tips,

  Sitter = True).

In tripplat (n = "deg" | 7 = " + atal - hill") data = tips ]

Sitter = True, hul = 'Sen', palette = 'Set1')

sns. stripplat | n="doy", s="tutal-bill", dota = tips,

Jitter = Jrue , hue = 1 sent, palette = 1 set 1)

Jelit = Jrue).

July (an 48 dadge as a split hay bun Replaced ... Ins. Swamplat (n = 11 day ") J = "texterl-bill", clata = tips)

Ins. Swamplat (n = "day") 1 = "tatal-bill", hue - 'sen's data-tips,

palette = "set 2" ) split = gove.

Ins. Vialinglat (n="top", 2="day" idata = tops palette = nain brun!)

Ins. Sukamplat (n="top", J="day") data = tops palette = nain brun!)

Factorplat

Ans. factor plat (n=1 sin) , 1= tutal-hill!, data = lips, kind="box"

matrix plut

madrin plat alluns you to plut data as color encoded mutrices and can also be asset to indicate wisters within medata

Hights = sns. load-dataset ('Hights') tips = sns. Land -detextel 'tips') tips. head o Hights head U

Heat maps

For wasking of heatmaps you need to have your data in a condution notice form. bosically Just colors it in for you tips. head () #meetrin from for correlation dates

tips (an ()

sm. heat map (tips. lope ()) sus. heat map (tips. com); imap= "(ord warm", annut = I mu) Hights pivattable ( Values = 'passengers', indem = 'manth')

(atomns = 'Jean')

PVHijhts = Hights . pivat - table (values = 'faringers')
inden = 'manth';
(alumns = 'year')

ons heatmos (pv Hights).

sns heat map (pvHights, cmap = 1 magma, line lolon = 'white')

aluster may

a cluster maprison in the heatmap.

sns. Clustermap (pv Hights) sns. Clustermap (pv Hights, cmap = 'conclusion', standard - Scale-1)

Regrissian Plats

Implat allows you to display linearmodels, that it also conviniently allows you to splitting there plats based on feedures, as well as calduring the how based on feetures.

Impart Seaburn as Sns.

\* matplattile intime

tips = sns. load-dataset ('tips')

tips head ()

Implat ()

She implat (x='total-bill') = 'top', duta-tops)

She implat (x='tatal-bill') y='top', duta-tops)

she implat (x='tatal-bill') j='top', duta-tops, hue='sen')

Palette = '(nelwarm')

working with markers

man general form of implat () respect has a scatter-kes parameter that gets passed to pet scatter so you want to set the sporameter in the dictionary.

sns. implot (n= 1 tatal\_lill') y= 'tip', data = tips, hu= 1ser',

paletre = 'lirelwarn'; markers = [101, 1v1],

daten=kws = {151:1003}.

using a grid

ve can add more Variable separation through Calumns and. Pours with the 2se of a grid.

Ans. Implot (n='tatal-hill') j='tip', data = tips, (al='sen')

Ans. Implot (n='tatal-hill', J='tip', now='sen')(al='time',

data=tips).

Sns Implat (n= ! tatal-lill', J= !tip', data = tips , (al= ! days, me = 'sen' , paletle = 'corelwarm').

Aspert and size.

sns. Implat les peut = 0-6 joix =8)