5: Grouphs and charts

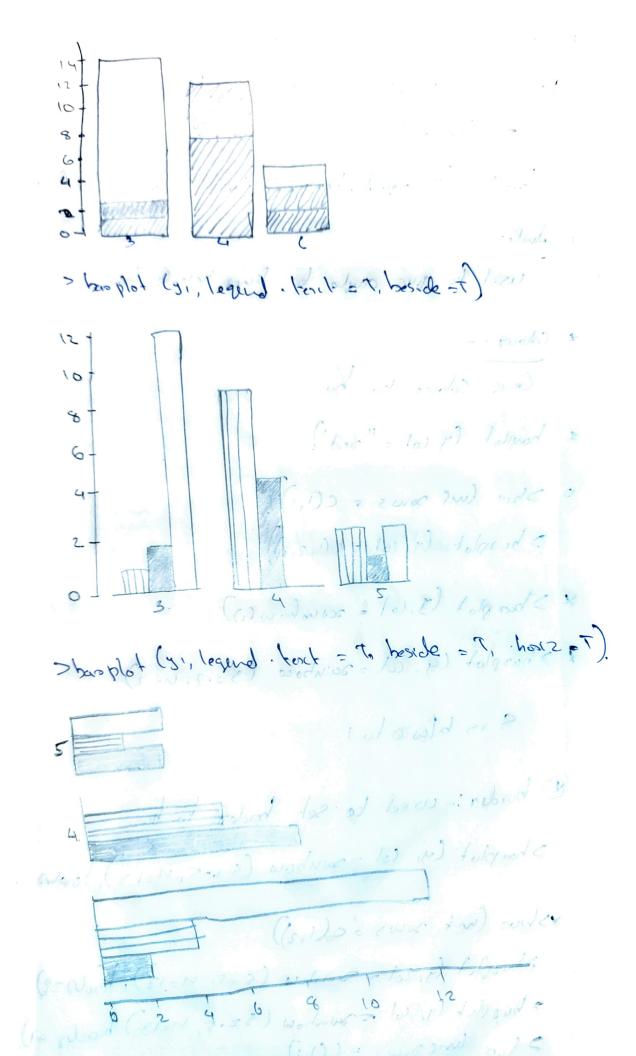
Bern Rot In R	
Suple Bar Plot	
Suple Bar Plot Horzontal Ber Rot	
Stucked Bus Rot	
R Bar Plot	
Coeated by using -> barplot or Sunch	, , , , , , , , , , , , , , , , , , ,
hours can be Vector (Makrix	· · · · · · · · · · · · · · · · · · ·
Il We Supply a Vector, the plot as	ill have how with
this hight equal to the element is	the Vector
	7 1 1 20 Y 3
L L L Lauri	
Againent used	(2) Sided
Asjanout asco	12 2 21
Main -> used to give heading	8 8 9 12
relate -> > - ancis Market	
9.1 - Trans Now	4
Cal -> Crive colone to has	1,1,000
Name . any - shame of ouch horn	al egovi

Egistemp = c booklot (long Main = Marc Temp in a weak; octobre " Dogoe Celeus: That a bay (ol = "blu" = 1000 * density -> Give lines inside buss 1 bordes -5 bodro to obsués. - 100 por la la la constitución dusity = 20, hosdor = " see (lol = " special) * with as size took hades not all a stant with all * Space Space bold hors and of horse thanks * ~ << 1,1,2,2,2,3,3,1,1,2,2,3,4,4,4).

hable (2) table (re) boss Lumay A 12 34 guilant sup of books with 4 5 3 3. Rolling of Cakeyorical Data. * ret c (1,1,2,2,2,3,3) 1,1,2,2,3,44,4) J= table (n). harplot (horph = 3, Space =5)

x & c(1,1,2,2,2,3,3,1,1,2,2,3,4,4,4) y = table (n) basplot (horph t = J. names. dog = LETTERS (100)) harplat (haghed = y, vamos - any = ("should", "shedent 2", "shedent 2", "shedent " shaberts" A 7c = c (1,1,1,1 ,2,1, 2,2,2,3,3,3,1,1,2,2,3,3) 2 = prig 6 (vc) backet (high =y, home) org = c ("Indust", "Shaleste", "Shabuts 3"), legual. text = T) leggered benct -> 15 a Velos of bent used to Construct a layered for the plot re, used. to identify what each has represent * K= c(1,1,1,1,2,1,2,2,3,3,3,1,1,1,2,2,3,3) y = table (x) has plat (hight = y class = 1) has plut (hight = y las = 2) (at west hope of the delivered

Stacked Gus Hots Makorx is given as input * > Laker (unt cons) (2) "month" (c) "diss" he "choal " whe" le Sur (cas) "an" " gent" " (cas)" solver (cops set) 2 = 100 cmm : 1= happen) de 1700-Stude (mt cons & cy) (" a should " of bone of not to solow a diction 10. bold, on lock all out being of is S table (m/ cars & seas) de (2,8,5,5/1/, 5,8,8,5,5,6,8,1,1,11/) = ,3 > Cable (m) cass & cy1, ml carls & jews) 3 4 5 (- Edge Howl) holy and 2 4 (seint pe hopen) tolgood > 3 = buble (mt cons deg, imports & goor) 8 12 0 > basplot (91), le jent text = 1)



* desity: used to give lines inside boos. Eg: 1c= 6 (1,1,1,1,2,2,1,2,3,3,3,1) J = table (x) busplot (y, longest, book = T, les = 1. durits = c(8,10,15) * Aughe: and to give augle to lives which has * Colour: -Come colone to pas * booplot (y, (a) = " sed"). x > > > c (1,1)) > posplot (1, 101 = (11,513)) x > bas plot (3, (0) = xum bow (1)) 1 sharplot (y, col = sainhow (s=.2. ha 2) S is bluotos D harder: - used to set bades to has Sharplot (4, col = sunbow (5 = 5, NELS), Soulson) *> huo (wh sows = c(1,2)) > burght (3, col = sainbers (5=5, N=13), parts=8) = hupplet (4, co) = sambou (52.5, M=13) houly st). >1.4 (mc Dom) = ((11))

* Main: used to give heading to the Particular
here Plat.
Sub: - used to give heading at bottom
Ed: proble st. main : "proples. Sit = " footor.)
· bus plot by main = expression (sum is)
* se limit, Thimit
1 11 (2 2 1/2)
harplot (y, x llux = c (0,5))
Die church (5000000000000000000000000000000000000
Daylunsalic sepsesentation of Values
co 20 = ((1,1,1,2,2,3,3,4,4,4)
Pie (ne)
>>= c(1,1,1,2,2,3,3,4,4,4)
> Pie (3).
plin at his to be show the different
4 = cd 20 d . 12 . 1 = 103 . 2 3 3 1

>pie (+, main = "my Frost Not")
* rc -> a voiter of non vegative numberal quantity
By Die G, labels = lellos (1:4)
Eggs Pre Cy; labols = (("sod", "blue", "glur", "sarry")
x labols are names of each slices.
() re () reduces = 10) - ((01,0) = 1 mil [10) + shoot
@ Ore (y isualius = .5) (200) DE wild it) tolgod
@ nela. dusity = ((10, 20, 30,40) And 50
Donsity: used to give Sheety to cach Sind
(N. N. E. E. S. S. 1.1.1) > = 20.83
Colouro: - (coi)
* 812 Gilol = Sainhow (15)
* Pie (7, (0)=1.4) (0) aldet = 10
Boder:
used to set bodes it can be either
T 00 & Rie (5, 201 = 1: 4, bosches = P)

Histogram.
used to plot equipolities dates
Emelion :- hist O
* Inputs are Voltor upuls
> = ((1,1,6,1,1,2,2,2,2,3,3,4,4)
> high (or)
5 the second of
& For Viewing the Googping assuragement use the Runchin
cut o
> cut (x16)
> duta France (x, cut (20,6))
* > dala (" cusi") (pllane and) of
Should (cars) to what I berry in
1 4 2
2 4 (0
3 7 22
5 8 16

> cur & spord Short (cons & speed) A gum uts x breaks: Shell (cos & Speed, breaks = 22) * Musy: used to give little > hist (cos & Speed, breaks = 5, Main " histogram") x x lab , ylabin > has (cons & speed, sclab = dist-", years" = "No of him) Ez: - Danquerlity > hend ais quality slamp = anoquality & Com? This (temp) > Ar (an quality) ("cos") plate stor :- and to display structury used to Provide sange of axer

used to define colors.

x With the dogwood free - PALSE We Can get the Robability distribution united of the frequency Dhist (loup, Soek = 4)

Es. hist Clamp, arein, "waximum Daily Temporatue" solut = remp in Device . relim = c(50,100)

Col = saintou (20). Seu = FALSE: W=T)

* booder: (AF)

* dusity. - at it is the cabood good but -> hist (temp , bodes = "blue". Lunity = 20)

Relay Value of hist of your lass

Display the Value on hist ? Med 11.43 .

* breaks: - Places whose the breaks occus

counts: The no: of observation billing in that cell

* classity := The density of Cells

· mide := Te mideoint of Cells

* home : - The or asymmeth wall

* Equilist: - A legal value indicating it. It brakes are equally spaced or not Es: she hist Clamp * Will the breaks argument we can Specify & no : of Cours coe want in the histogram x we can also define broad points blu te cells as a vector this make it possible to plat a histogram with cenecual intornal. > host (temp . hooder = "blue", breaks = c (55, 60, 70,75, 86)

* flos:
Specifies What type of Not Should be
discuss. Possible types are:
" e" -> Par Paras.
"" -> Per lines
"c" -> for the line fast alone of b.
"h" -> For histochum (nee (or high - doing by) Valical
1 1 No spesson = Now For State of the spesson I deposed
5 - too Scalar stone
socialist as platby
Eg: Plat Cr. J. main = "Scator Plat", typa = "c")
Eg: >24 = 1:100
Na + Sha (D) Con of a first we would in
Spot laig it gre = & " " " ").
Mg. Dre = Soy (0,10,0,0.1)
55 = sin (x) p phlane
> Polot (xiz).

Sorphi.	
used to plot quantitative Data	
Eg: >c=clililize 12,1,1,3,3,4,4,5,6	· 13,414,6
5,7,10,20,28,25,25,45	100)
hax plat (sc)	<i>y</i>
* Sondot Combe used to idulity medians	, say
Econothic deviction and Venious ofto	
manguby.	
Pasplot (aisquality de sole, main = "osole. Per billion Som 1300 to 1500 hos at	in Parts
Shand, Iclas = " Don'ts Por hillion", Jus	= 6 246°
(of E count & not ch = 1, hos i sould =1)	
Ses doawing multiple boxploted mes-	
> ozone = aroquality dozone	76
	,
> tomos = disquality & beny?	
> longs = aisquality & longs	
> howlot : (ozone : temp, wind?	,a:

For changing the width of host.

> boople) (ozono, width 21, bisdus 2 "sed"