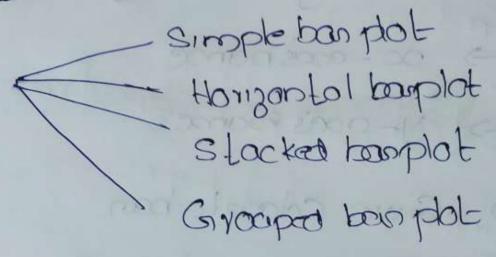
5: Graphs and charts

Banglots in R



dol p

BONTS - STROOT

R Ban plot

- * created by cising -> beoplet Offendico
- # Impals cambe Medor, matrix
- * If one supply a vector, the plot coull have bans could be their beight equal to the elements in-the vector

+ wood and authorises a governod w

vod to as in a different to

eg: temp= c(27, 26, 23, 24, 30)
basplot (1emp)

Algement used * main -> accorbagive booding aclob -> oc-axis name y lab -> y-axis nome col -> Give colocuto ban boriz -> TRUE names.arg—snorme of each ban eq!-temp=c(banplot (temp; mooin="max-tempioo week" ∞ lab="celcius", * space = space bloobans ylab= "Dry" col = "bloe") * density = Give line inside box * borden = borden to boms * Width = size of bans

```
x=c(1,1,1,1,1,1,2,2,2,2,3,3,3,1,1,2,2,3,3)
y= table (2)
booplot (beight = y, worth=c(518))
      (ibeight= y, space=5)
       (height=y, name.arg = LETTERS (1:3))
       (beight=y, nome arg=tetters(1:3))
        Cheight = y , home . any =
           Legend Lext = T)
        (height=y: ", Las=1,2,3)
```

* banplot (beight=y) a dala ("Mitcans")
nomes (mitcans) > mtcans \$cyl > mtcans \$gan [] 6.6 4 6 ... 7 Eable (mtcas \$91) [i] 4. 6 8 11 7 (4 7 (4 7) 7 table (mt cans & gean)

15 12 5

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, table Cont const cy1, not constageous) "Ibar = hos. ed byoda 3 H 5 about a look of blogged a 4182 6 2 4 1 (1.1) 3 = acort on) nog & 8 12 0 2 0 10 0 los of the second > y1 = table (m + cons & cy!, m+ cons & geor) 7 bosplot Cyi) * a boaplot Cy1, legera . text = T, beside=T) * bamplet (y1; legerd . text= T, boriz=T) *borplet (y, horiz = T, las = 1) * banplot (y, bong = T, los=1, density =c (5,10,15) *borplot (y, &.las=1, density=c(5,10,15), oragle=c(\$5,50,75))

* booplot (y, col = "red") * barplot (y, col = "red") }

* barplot (y, col = "red") change todant * pan (mfrow = c(1,1)) > borplot (y, cole = c(1,2,3)) > bamplot (y, col = varobaco (13)) > banplot (y, col=10inbacu (n=15)) sbarplet (y, col=rainbaw (S=2, n=15)) > banplot (y, col= ramboco (s-2, n=15), body > pas (m/1000 = ((1,2)) > barplot (y, cal= rainbacu (s=5, n=15), bonder= F) sharplot Cy, col= border = T)

barplotey, maio = "beader", sub= "focker") , barplot(y) , borplot (y, ylim= c(0,10)) to borplot Cy 1 oclim= c(o,s)) > taplot (y, maio = expressión (sumo)+) 7 bampbet (y, main = expression (scry)) (x*y) (K.1. * 1.7) (E:1) (931774) $(x', / \cdot / \cdot y)$ similatione. Do - 2/2/20 (alpha) C beta) (3 - Allipor . E) bige speciel of cladenice - I out

plotorisc Piechant > ?Pie >*= oc(1,1,1,2,2,3,3,4,4,4) M. R. Jolando y=table(x) violen, Fil bogod. >pie(y) spie (y, moin= 'my first plot") >pie Cy, labels = LETTERS (1:4)) Cy, labels = c ("sed", "blue", "green", block) > pie (y, edges = 5) ppic (y, radius = 5) ppie Cy, clockcoise = Tov F)

pic (y, col = Mainbow (15)) Cy, col= 1:4) (1), & (col = c("seo", "blue",) > pie (y, borden = F or T) (a) ald all y (install platrix) for 3d LI TOON > library (plotrise) (so) doith o > Pie 3D Jy and too > pire 3D (y) > pre 3 D (y, explode = 0.5) 7 pie 30 (y, explode= 0.2)

Histogram 700=c(1,1,1,1,2,2,2,2,2,3,3,3,4,4). [1] 11111222233344 7 = rebond . 1 7 y=lable (x) be at Proceeded the Macs 4 > bist(x) To show the grouping Cut Coc, 6) > data. Frome (sc, cut(x,b))

2 dala Cocaso speed dist (ythopus) bos > cons & speed) hist [cons of speed) Thist [Constate) > conspais? [1] 2 10 4

> bist (constdist, breaks = 22)
> bist (constdist, main = "my fix I histogra") or tob = "distindemals", ylab = "nod" shead (ainganlity) Ozone solon. R cound temp morolloday > temp= aurquality \$ temp > hist (tomp)

7 sto (airquality) f), bist (temp, freq = F) - 6 foundhorn bistCtemp, maio: "maximam daily temporalize of La Guardia Airport" selab: "Temperature in degrees labrebel"; celino = c (50,100), col = no into cu (20), deposty = 40 Freg = FALSE, las = T) & done 1/y = c(20, 80,40) bordon = " red

OU B GO BESE

broaks - place where the bounds occars

- counds: - the number of obsorrollers folling in the

cell

- counts: - the number of cells

- counts: - the donsity of cells

- mids - the midpoint of cells

- xnows - the x argument name and

- xnows - the x argument name and

- x equidist - a logical value indicating the

broaks are equally spaced and

shist (temp, main = "maximum daily teropent at La Guardia Airport", aclab = "Temp 10 degree fobienheat", xlim = ((10,100), Cal = ((2,4,6,8,10), bordin = "brocen" breaks = ((55,60,70, 75,89,100)

scatterplot Sport (Colo) tolge > plot 7 polot (2)
7 plot (3) Car Sansana >plot(c(1,0,3,4)) 7plot (c(5,6,7,8,9)) (jax) Jolg e) x = 1'.5 01:13-00 08:13 = 15 > y = 6:10 (1.00) Lolg 8 Splot (xx) Ploter J. moon - "englism plot" > beag (conquality) Brone solain Round temp month Day > tem = aunquality \$ Day

7-temp=ausquality \$-temp 7-plot (day, temp)

> x = 1:50> y = Sin(x)

フエ

, > plot (x,y)

> x= 1:10

> = 20:30

> plot (xij)

> plat(x,y,main="scaltenplat",xbb=

"x value", ylab=" y values"

(al=1:10), type="Parlar bard

order horse

orser n"

Jolephiles

COLOS

(4) do 14

(C4,8,0,1)) Stop

(P18 Pon =)03 10/9

readphilospras : mat

VINCE I THEN PER . WELL

3:1-3

01-1-1

Const dates

>9=1:100 >y=SiD(2) of CT - Integral Todalog 7 plat (x,y) >pot(x,ytype="1") brice philogogian a briance > = seq (0.10,0.01) 1y=Sin(x) Boxpht >0== ((1,1,1,1,2;2,2,3,3,3,44,100;000) > boxplot (x) > str (ainquality) Ozone Solan. R cound temp menth Day > boxplot (auguolity \$020ne) > box plot (auquality ozone, main = "booding" > box plot (auquality ozone, main = "booding" > billion", yldo notch=T, borgontal=T3 bordon="red")

> ozone = ainquality & ozone > Hemp = ainquality & temp > coind = ainquality & cuind > boxplot (ozone, lemp, wind)