Module :5

RRAPHS AND PLOTES.

Bar ploto

* (reate using barplott)

Arguments

* main - heading * col - color.

* xlab - x nam * hoviz

* Ylob - Ynamp

* names. arg - barname

* deneity-shade

* 50/de7- 12

Plotting categorical data

age + c(17, 18, 18, 17, 18, 19, 18, 16, 18, 18)

table (age)

16 17 18 19

126

eg: barplot (table (age), main = "age of student) xlab="age", glab= "count", border="red",

col = "blue", density=10)

Higher dimanifonal tables

We have a build in dataset caused titanic

It have of dimmention. We can plot according

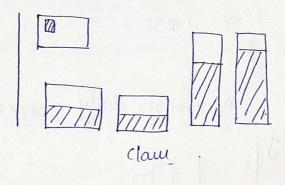
to the data barplot (titanic. data, main: "survival

of each clau", Xlab= "clau", col= c("rad", "graen")

legend ("top left", c("hot survied", "survived")

Fill = c("red", "green")

Survived of each clau



2. R Histogram

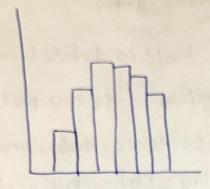
(realed wing hist () Function.

This takes a vector value. Creating a vector value.

Creating a histogram uing dataset ai.

quality.

Temperature (a'11quality & Temp hist (Temperature)



Pavameters can be added like

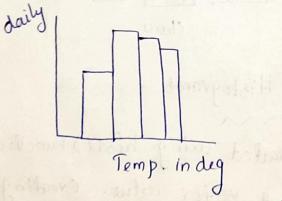
hist (Temperature, main='maximum daily-lemperature",

xlab= "Temperature indogroe",

xlim: ((50,100), (01="dark blue")

Freq = FALSE,

maximum daily temperature



Return value of R, hist () returns 6

Components

> b + hist(temperature)

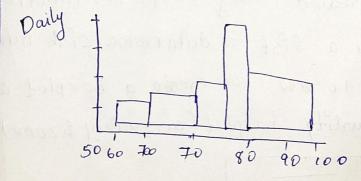
> \$ breaks, \$ count, \$ density, \$ milds

Ornborson of I have

& xname, & attr (, "clau"), & equalst

- * break place who the break occur.
- * Counts no. of observation Filling in That
- & D&nesty the OF colls.
- 1 Mids- the midpoint of colls.
- * x name the x argument name
 - * lequidist a logical value Podicating
 the breake thate equilly spaced an nonuniforn width.

hist (Temperature, main="maximum daily temperature", Xlab=main xlab="Temperature in faranheigh", Xlim = C(50,100), col=" chocolale", border= "brown", breaks= C(55,60,70,75,80,100)



3. R pie chart

Created uing function piel). let expenditure

howing food clothe extertainment other 200

Pie (expenditare), with parameters ple (expenditure),

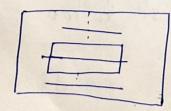
labeli = ai. character (expenditure),

main="monthy" expendituro"

Col = c ("red", " orange, "blue", "pink", "grey")

4 R boxplot

created uing boxplot() function are can pau a list a datarrame with nume ric vectors to one can create a boxplot with dataset airquality boxplot (airquality \$zone)



```
Pavameder are,

boxplot (airquality $zone,

main="mean ozone in ppt")

X lab= "parts per billion",

Y lab= "ozone",

border = "brown",

horizontal = TRUE

nol = TRUE
```

Return value are =>

* n-number of observation is drawn

* Conf - upper, lower extermes of notch

* group - a vector of same length

* names - a vector names For the group.

5. Scatter plot

Plot(), Simple Scaller plot.

eg: plot() * [] Plot(3) [-- p]

eg: head (airquality)

temp: airquality & Day

day: airquality & Day

temp: airquality & Day

```
Plot (day, temp)
    with arguments
d= 21:30
Plot 2,4
Plot ( r, y, main = "Scatter plot")
        X lab = " x value"
       Ylab = " Yvalue"
       Col=1:10)
 what - type should be shown are
    P-point, 1-lines, b-both, 0-
   3-steps, c-without -bubble, b- histogram
   n- nome to display
  eg: X-1:100
     Y = 3in(x)
     Plot (7,4)
    Plot (x,y, type="1")
 eg: x=8eq(0,10,0.01
       y = 8in(x)
        Plot(a, y, type="1")
```