GRAPHICAL REPRESENTATION Bor Plots in R Inputs can be vector, mainx 4 types ove there:

* Simple Bar Plot

* Horizontal Bar Plot * Stacked Bar Plot * Grouped Bar Plot R Bar Plot * Created by using > bar plot ()

function.

9f we supply a vector, the plot
will have bars with their height
equal to the elements in the vector. eg: temp = c(27,26,23,24,30)
barplot (temp) barplot () arguments: main: heading xlab: x-axis title

names arg: name of each bar colors horiz: TRUE (Represents as horizontal density: Splits each bar bar) border: gives border height: describing the bar which width: gives width to each bar Space: space blw each bar legend. text: gives lugical indication whether a legend should be included. lab: lab = 1,2,3 names (): gives the column heading eg: data ("mt(ars") names (mt cars) table (mt cars & cut):
gives the table of
cylinders in mt cares Stacked Bar Plot (bow plot which has matrix input)

eg: yl = table (mtcorf cyl, mtlars f gear) bar plot (y1) izontal bar) barplot (y), legend-text = T. hich beside = T) Stacked Bas bar ication should Grouped Bar Plot rading angle: the slope of shading lines par(mfrows = c(2,2)): gives two vow and 2 columns par(mfrows = c(1,1)): default barplot (4,001 = c(10,12,13)) => gives each bar each colour bar plot (y, col = rainbow(1)) -> gives a colour in the voindow barplot (y, col = raibow (S = 1, n = 15) => gives the lightest color poli border = f : without border clo border = T: with border x lim i limit for the oc-axis ylim: limit for the y-axis expressions (sum (i) gives the heading pi => barplot (y, main = expression (xty) (alpha) Piechart pie () Function eg: x : ((1,1,1,22,33,4,4,4))y: table (x) pie (y) (2) Arguments x input volves (abels : giving names for the slices edges: the Eixelar outline of the pie is approximated by a

polygon with this mony chais of the pie (-1,1) change the direction, clock wise: (1) changes the angle density; main, angle, col, border (plotrix package) => for 30 => library (plotrix) lpie 30 heading pie 3 D (4) function (for 30 piechart)
explode: (xty) Upha Histogram hist () function $\alpha = ((1,1,1,1,1,2,2,2,2,3,3,3,4,4)$ hist $-(\alpha)$ cut (x, 6): shows the interval data ("cavs") head (cavs) => hist (cars speed) breaks: one of a vector giving the

breakprints of histogram relle breaks = 22: 22 into (no. of colum xlab, ylab, main, xlim, ylim, col frea: False, we can get the probability distribution instead of frequency. Return value of hist!) h = hist (temp) breaks: places where the break occur counts: the no. of observations falling in that cell density density of the cells mids: midpoint of the cell xnome: the x argument nome equidist; a lugicol Value indicating the breaks are equally spaced or not Breaks: we can specify the no. cells we want in the histogram and we can also give vectors.

Scatter Plot plot () function Greneric x-y plotting
plote((1,2,3,4)): plots the values in
(1,1),(2,2), (3,3),(4,4) plot (c(5,6,7,8)): plots thes values in (1,5), (2,6), (3,7), (4,8) eg: x = 1:5 4=6:10 plot (x,y)

values are plotted by

(1,6), (2,7), (3,8), (4,9), 5,16 occur arguments: main, xlab, glab, col bype = "p", points o o o

"l", lines —

"b", both — o — o —

"c", for the line alone

of "b" — —

"o", overplotted a —

"h", histogram IIII,

"se", stairsteps —

"s", other steps —

"p", no plotting ton ng if). of

