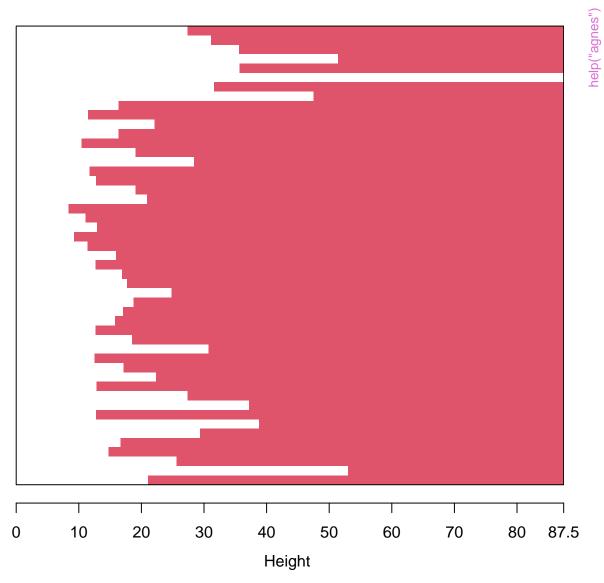
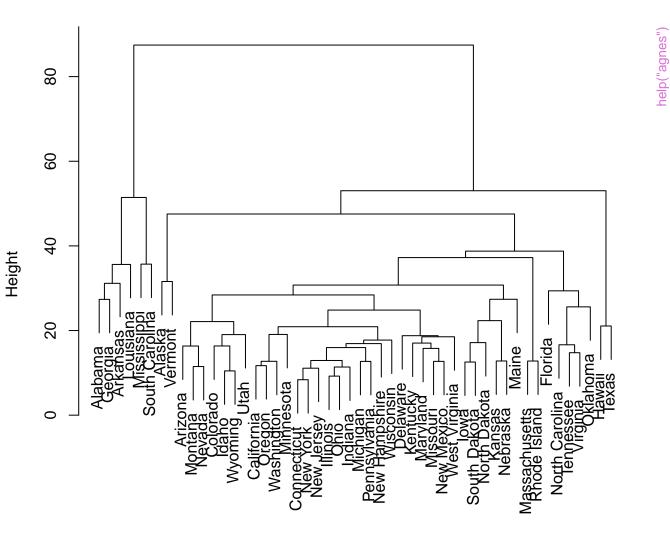
Banner of agnes(x = votes.repub, metric = "manhattan", stand = TF



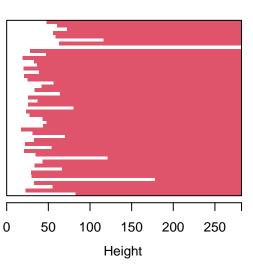
Agglomerative Coefficient = 0.8

Dendrogram of agnes(x = votes.repub, metric = "manhattan", stand = TRU



votes.repub
Agglomerative Coefficient = 0.8

Banner of agnes(x = daisy(votes.re|m of agnes(x = daisy(votes.repub), diss = The sum of agnes(x = daisy(votes.repub), diss ="complete")



Height

Height

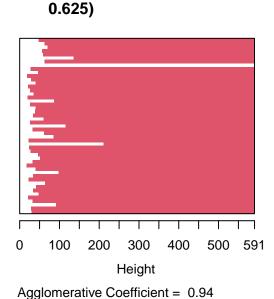
Agglomerative Coefficient = 0.88

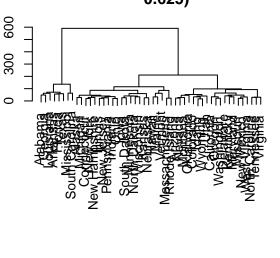
250 help("agnes") 100 daisy(votes.repub)

"complete")

Banner of agnes(x = votes.repub, n = votes.repub, method = "flexible" 0.625)

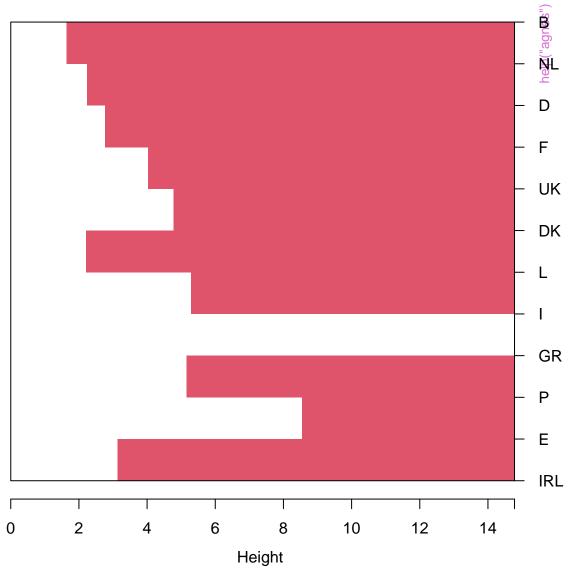
Agglomerative Coefficient = 0.88





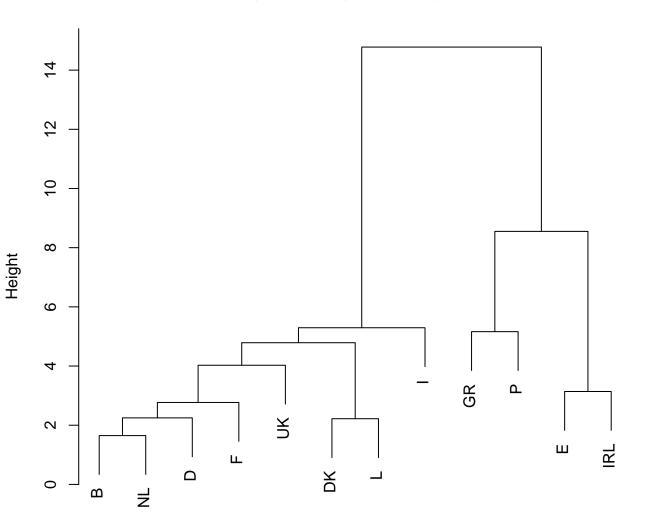
votes.repub Agglomerative Coefficient = 0.94

Banner of agnes(x = agriculture)

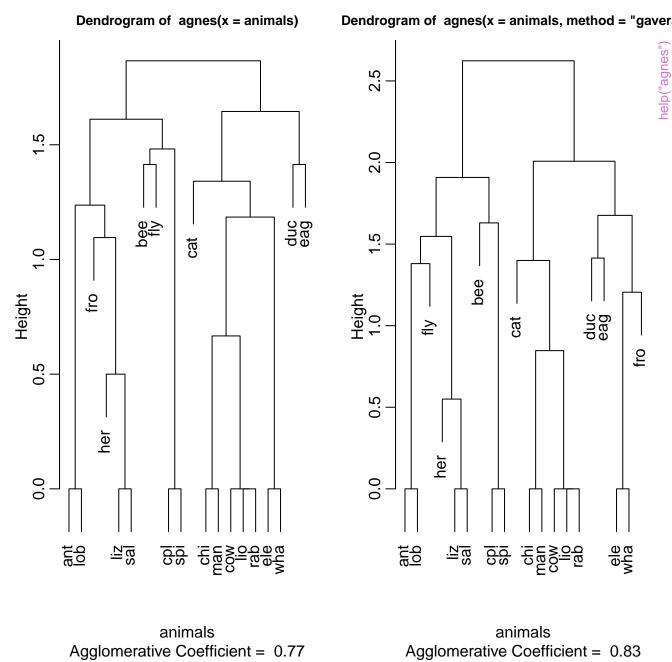


Agglomerative Coefficient = 0.78

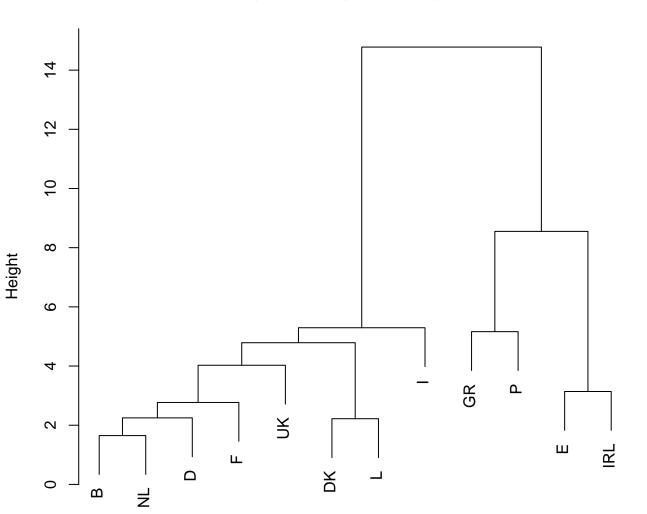
Dendrogram of agnes(x = agriculture)



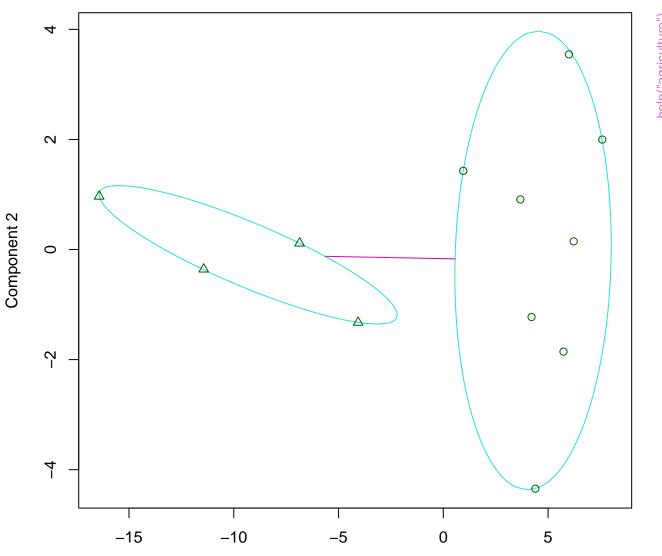
agriculture
Agglomerative Coefficient = 0.78



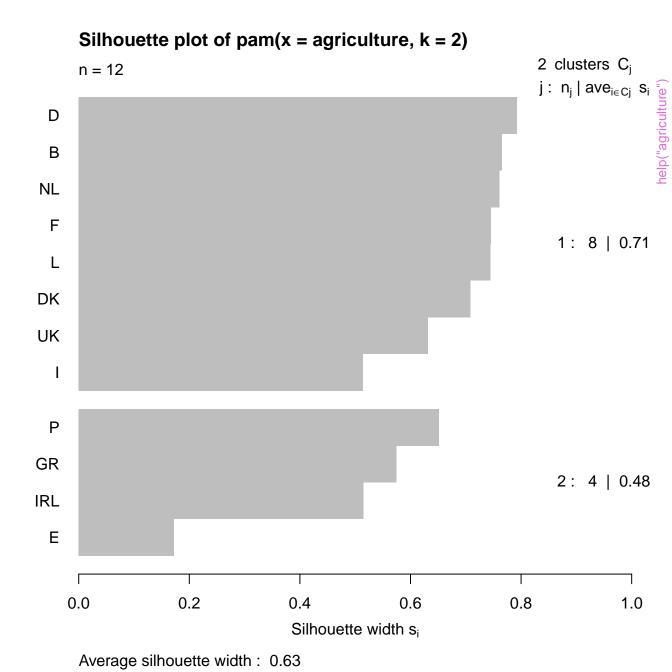
Dendrogram of agnes(x = agriculture)



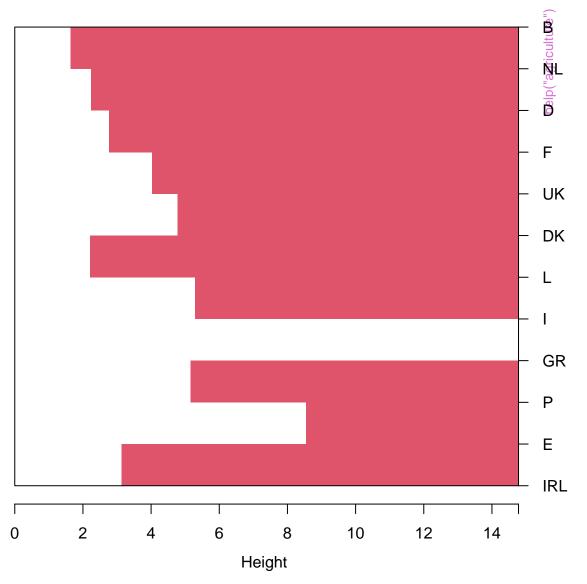
agriculture agnes (*, "average")



Component 1 These two components explain 100 % of the point variability.

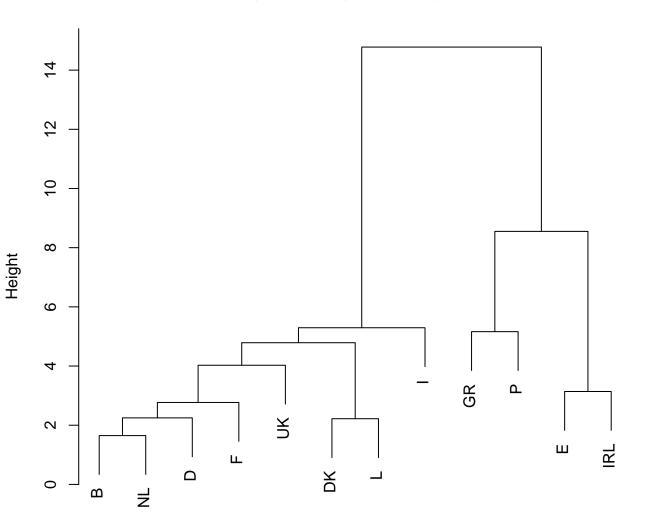


Banner of agnes(x = agriculture)



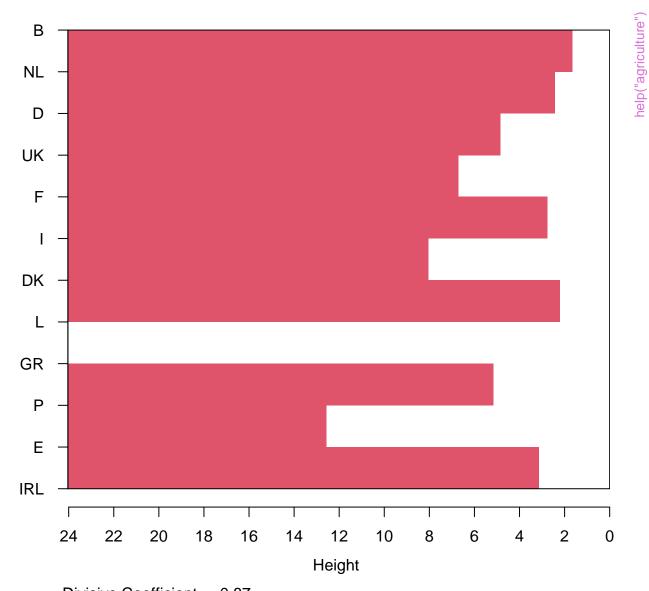
Agglomerative Coefficient = 0.78

Dendrogram of agnes(x = agriculture)



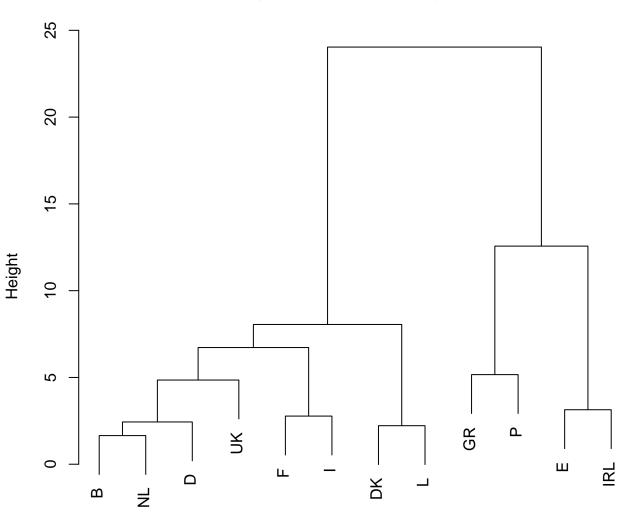
agriculture
Agglomerative Coefficient = 0.78

Banner of diana(x = agriculture)



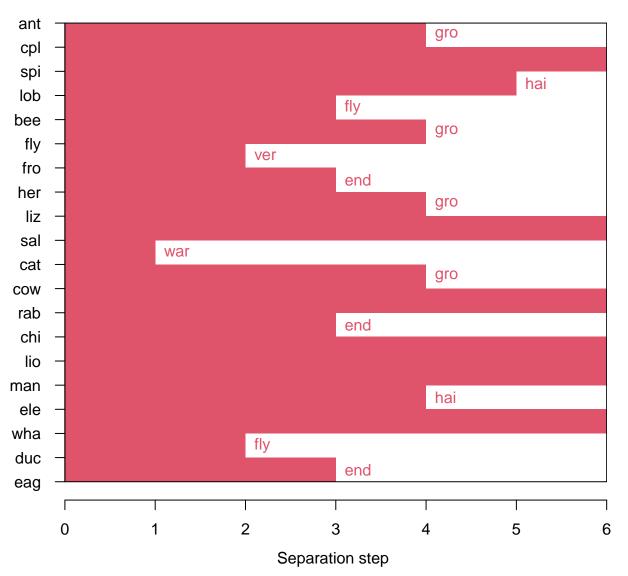
Divisive Coefficient = 0.87

Dendrogram of diana(x = agriculture)

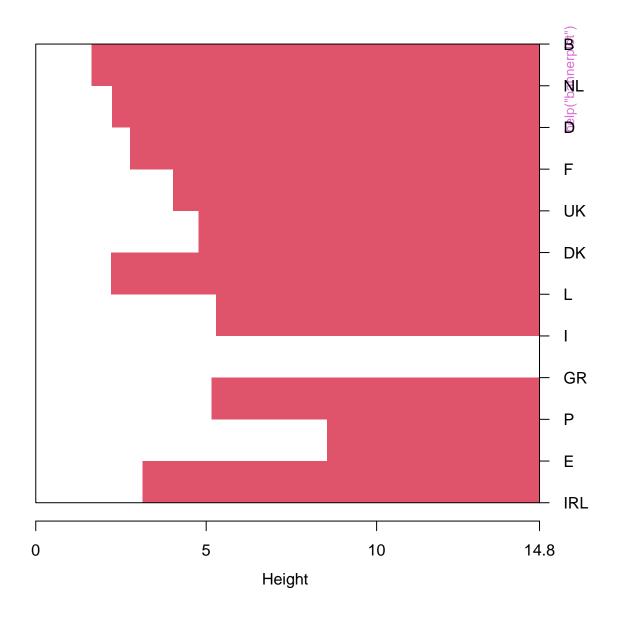


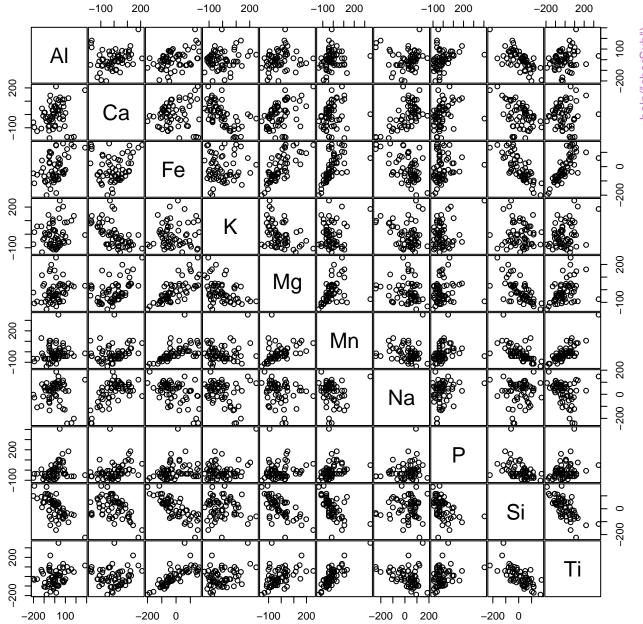
agriculture
Divisive Coefficient = 0.87

Banner of mona(x = animals)

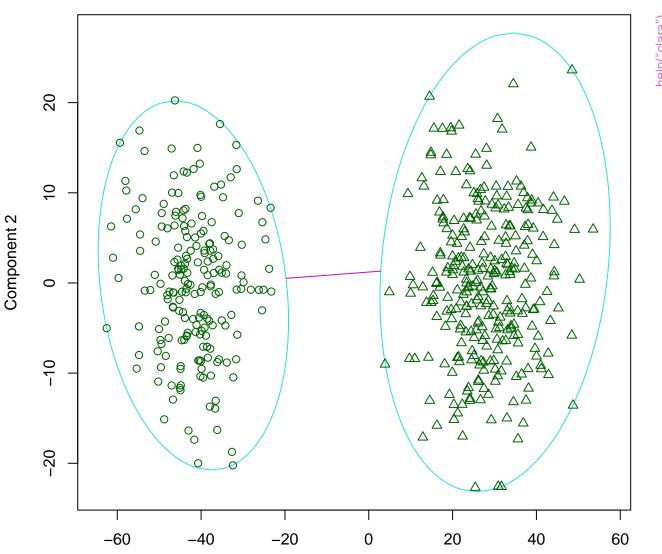


Bannerplot



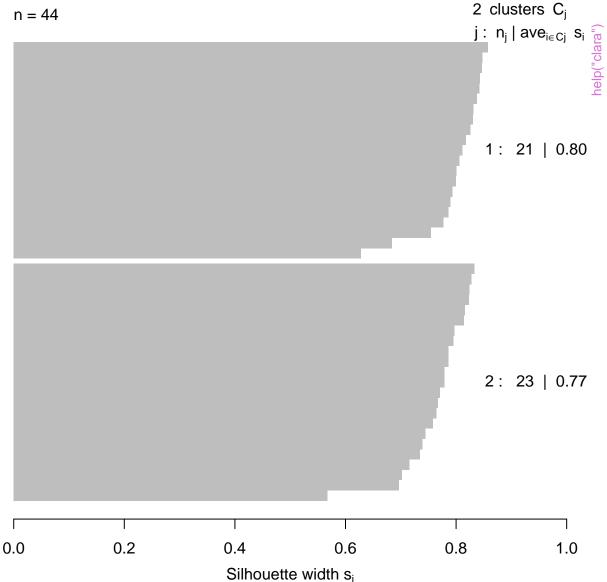


clusplot(clara(x = x, k = 2, samples = 50))



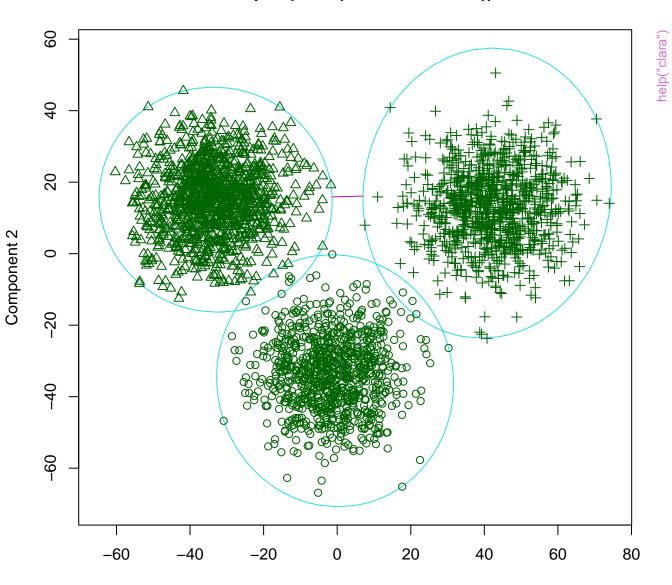
Component 1 These two components explain 100 % of the point variability.

Silhouette plot of clara(x = x, k = 2, samples = 50) n = 44



Average silhouette width: 0.78

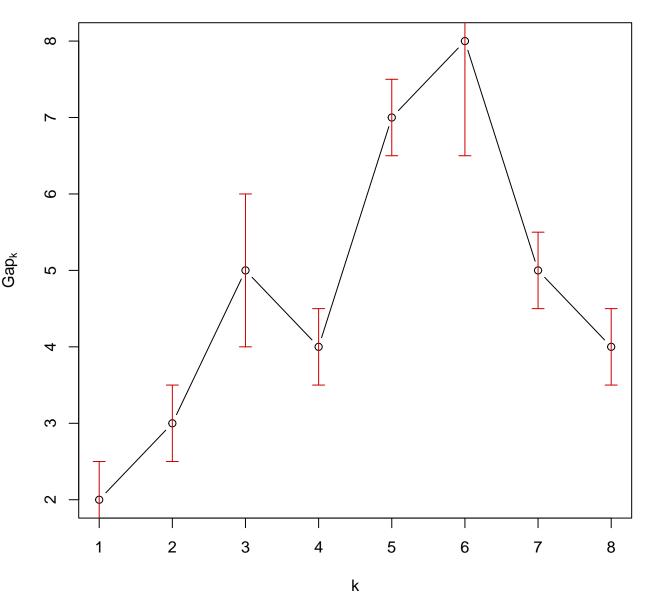
clusplot(clara(x = xclara, k = 3))

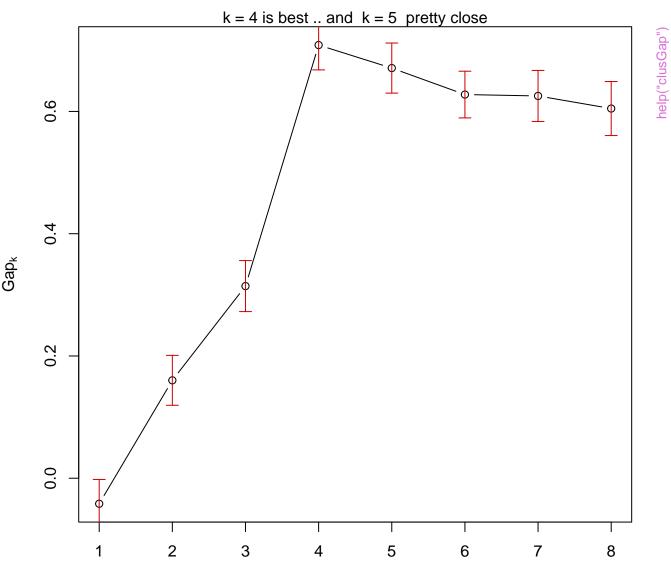


Component 1
These two components explain 100 % of the point variability.

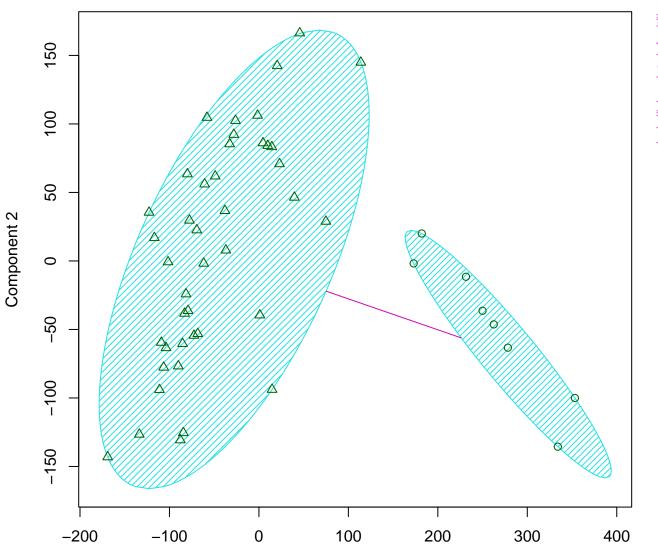
Silhouette plot of clara(x = xclara, k = 3) 3 clusters C_j n = 46 $j: n_j \mid ave_{i \in Cj} s_i$ 1 · 12 | 0.69 1: 12 | 0.69 2: 21 | 0.73 3: 13 | 0.81 0.0 0.4 1.0 0.2 0.6 8.0 Silhouette width si

Average silhouette width: 0.74



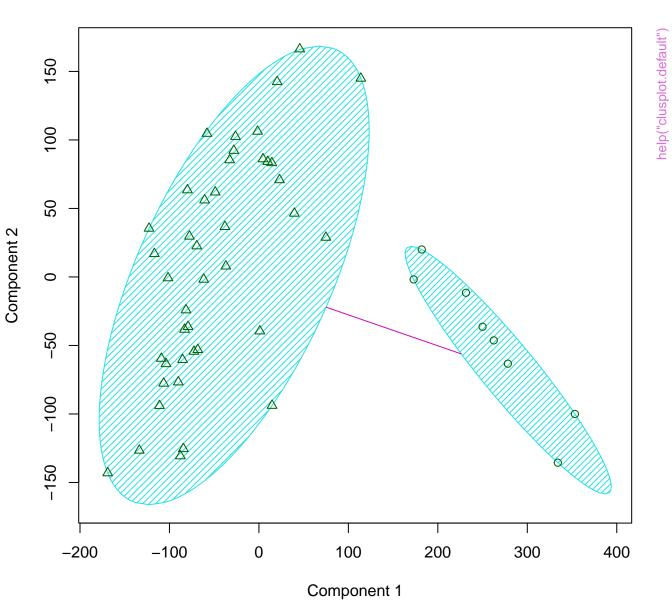


k



Component 1
These two components explain 18.16 % of the point variability.

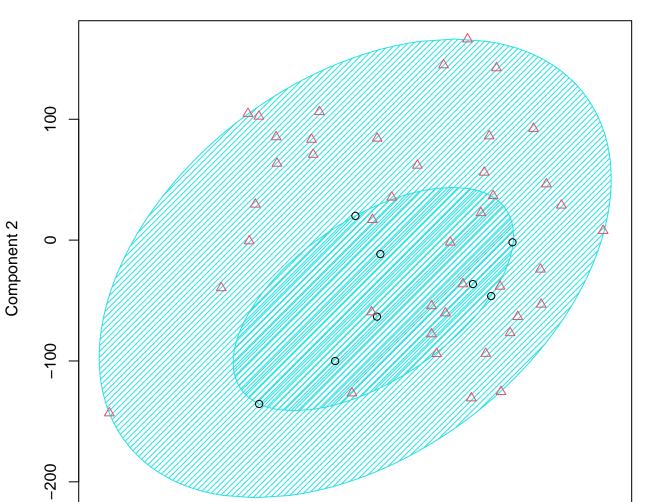
CLUSPLOT(votes.diss)



These two components explain 18.16 % of the point variability.

100

50



-50

Component 3

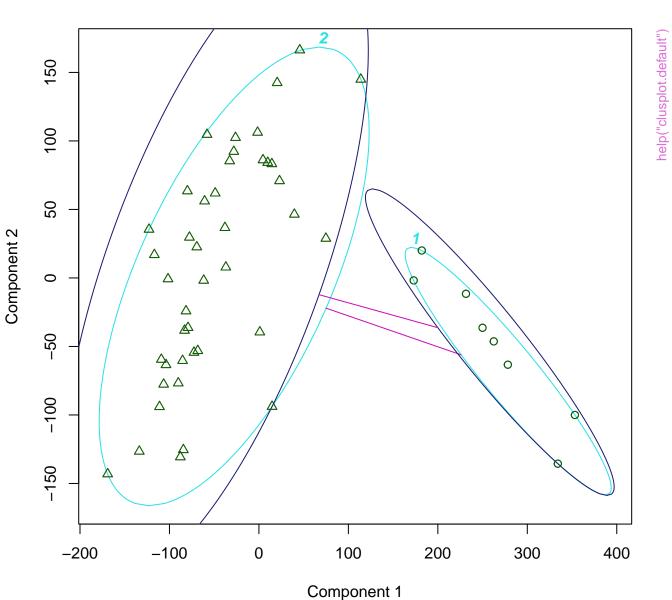
0

-200

-150

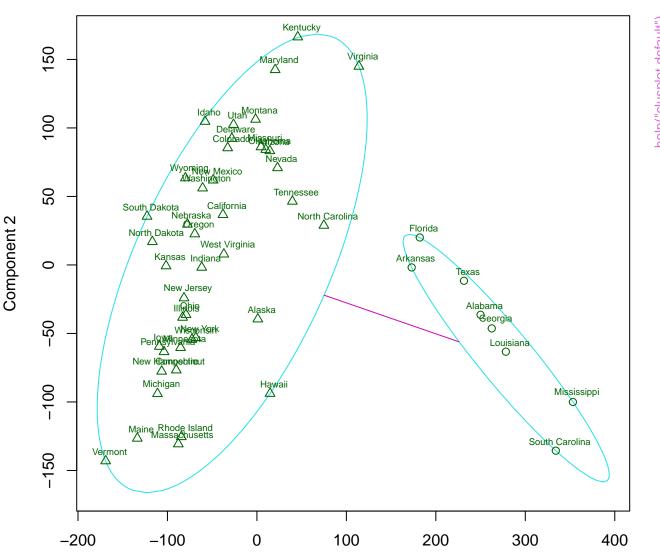
-100

clusplot(pam(x = votes.diss, k = 2, diss = TRUE))

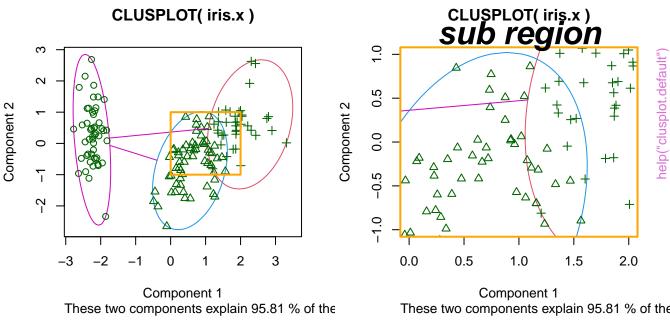


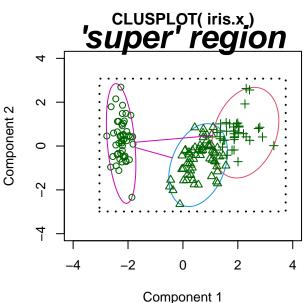
These two components explain 18.16 % of the point variability.

CLUSPLOT(votes.diss)

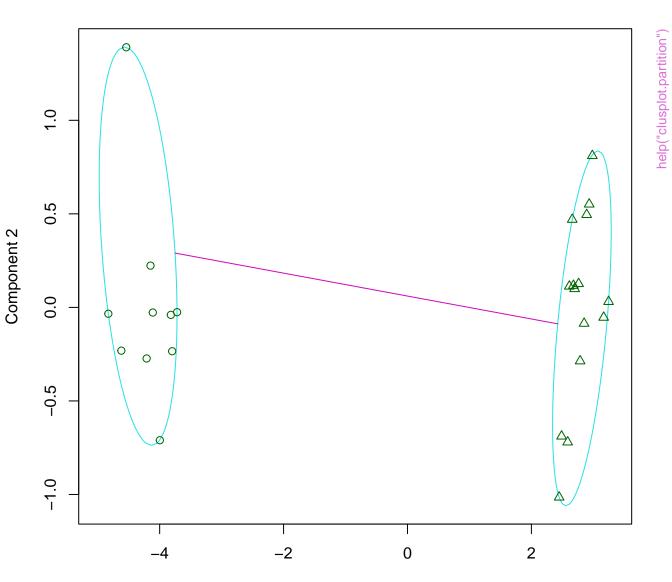


Component 1 These two components explain 18.16 % of the point variability.



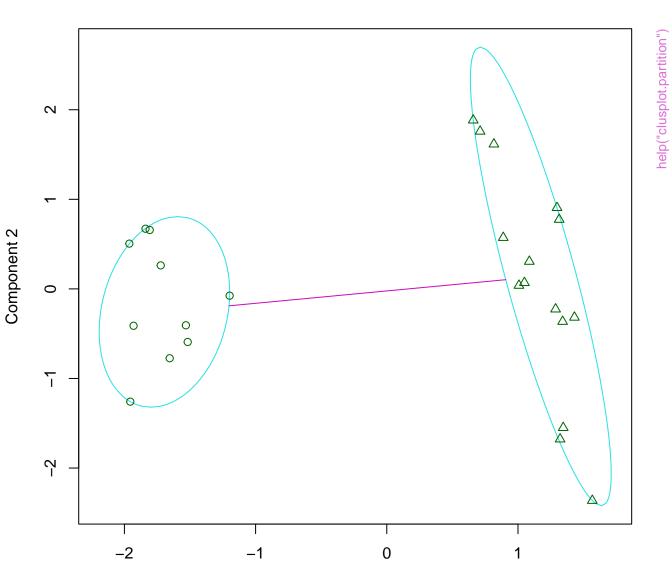


These two components explain 95.81 % of the



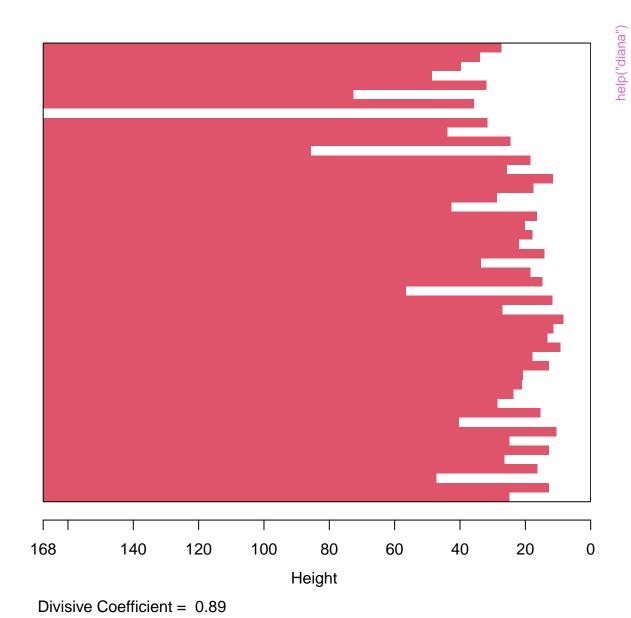
Component 1
These two components explain 100 % of the point variability.

clusplot(pam(x = x4, k = 2))



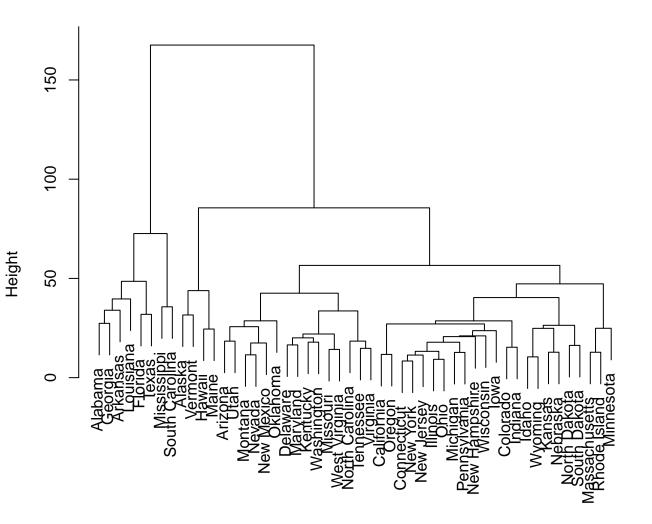
Component 1
These two components explain 76.71 % of the point variability.

Banner of diana(x = votes.repub, metric = "manhattan", stand = TR



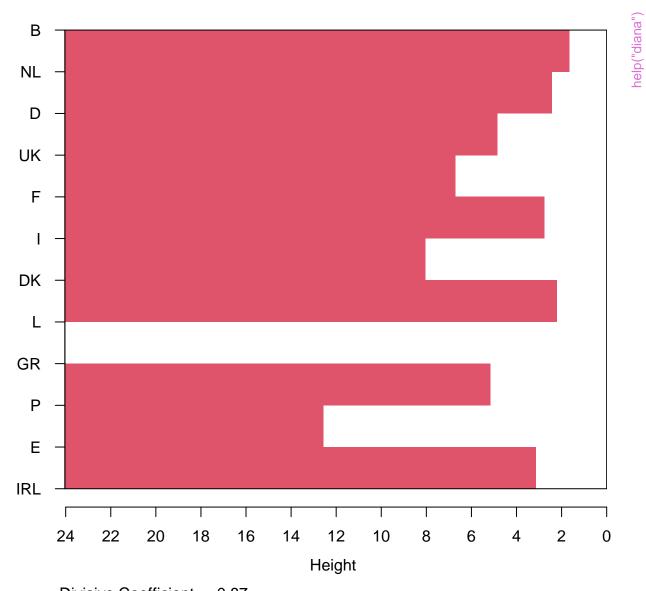
Dendrogram of diana(x = votes.repub, metric = "manhattan", stand = TRU

help("diana")



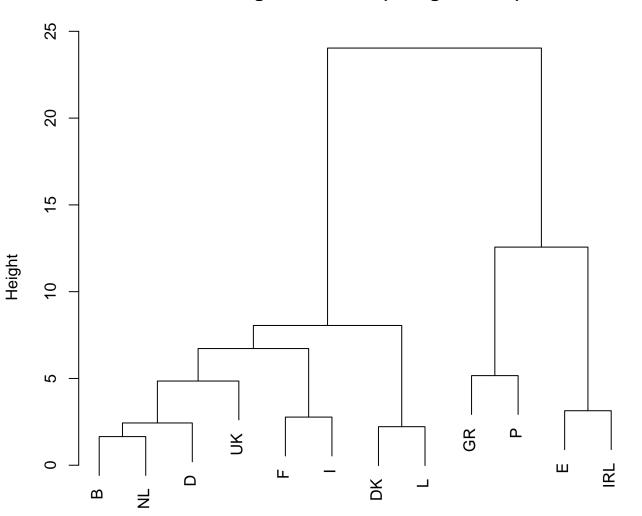
votes.repub
Divisive Coefficient = 0.89

Banner of diana(x = agriculture)



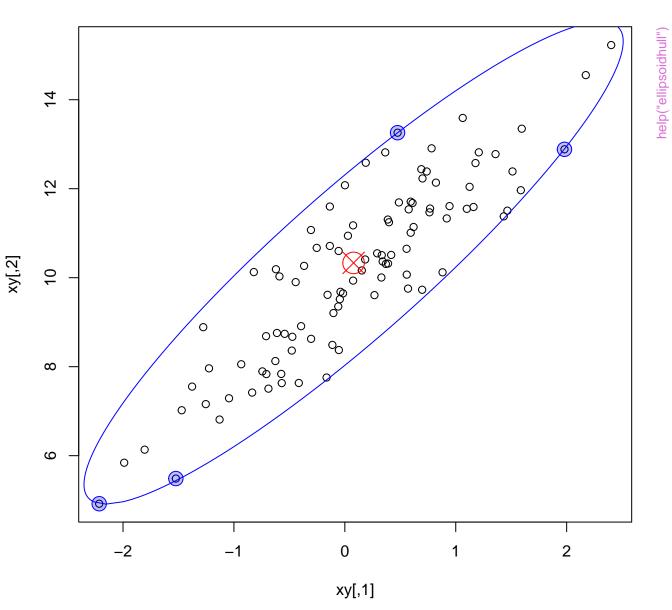
Divisive Coefficient = 0.87

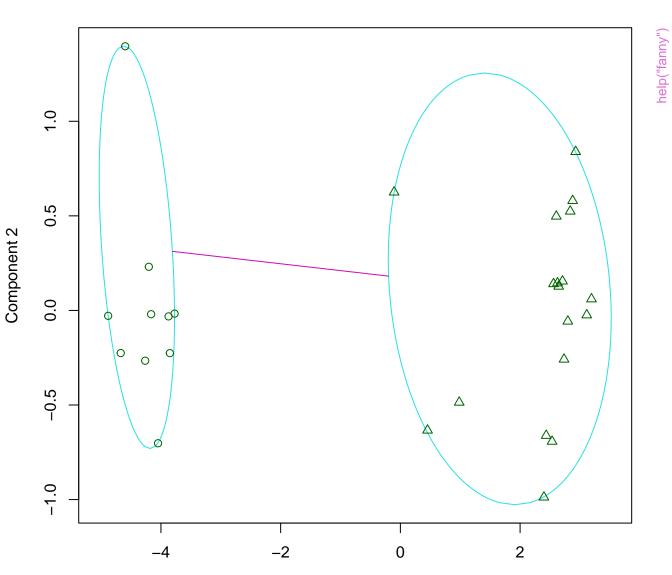
Dendrogram of diana(x = agriculture)



agriculture
Divisive Coefficient = 0.87

ellipsoidhull(<Gauss data>) -- 'spanning points'



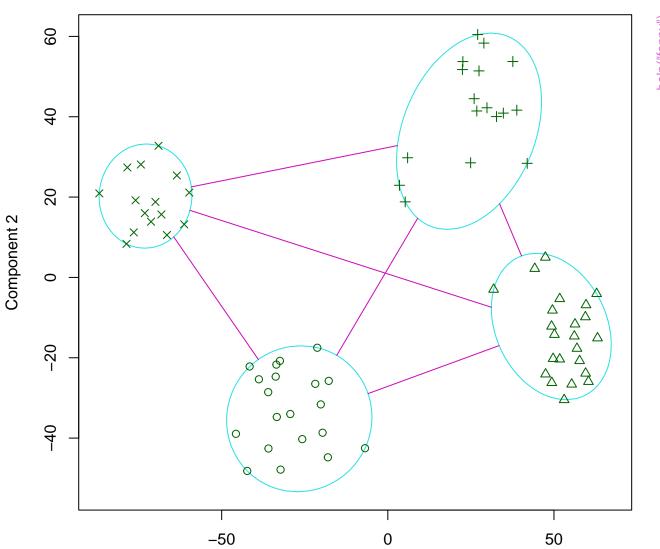


Component 1
These two components explain 100 % of the point variability.

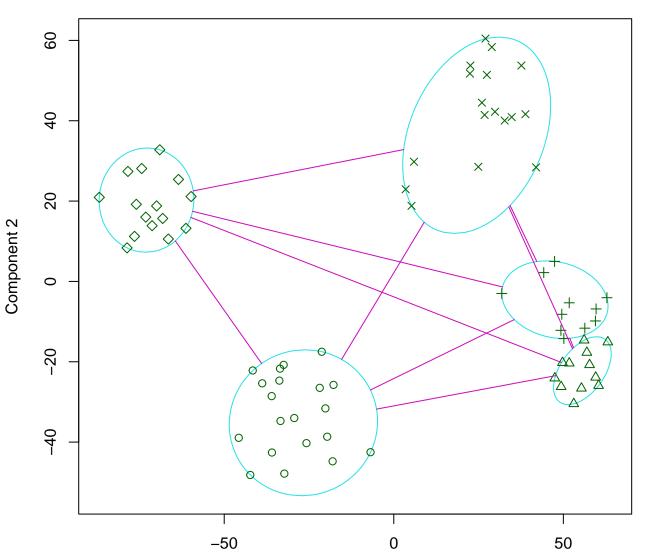
Silhouette plot of fanny(x = x, k = 2)2 clusters C_i n = 28j: n_j | ave_{i∈Cj} s_i ("funt_{j"})djeų 10 | 0.88 18 | 0.80 0.0 0.2 0.4 0.6 8.0 1.0

Silhouette width si

Average silhouette width: 0.83

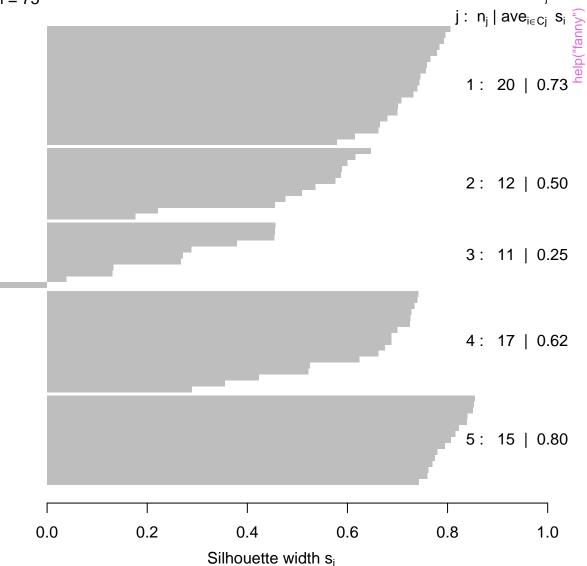


Component 1 These two components explain 100 % of the point variability.



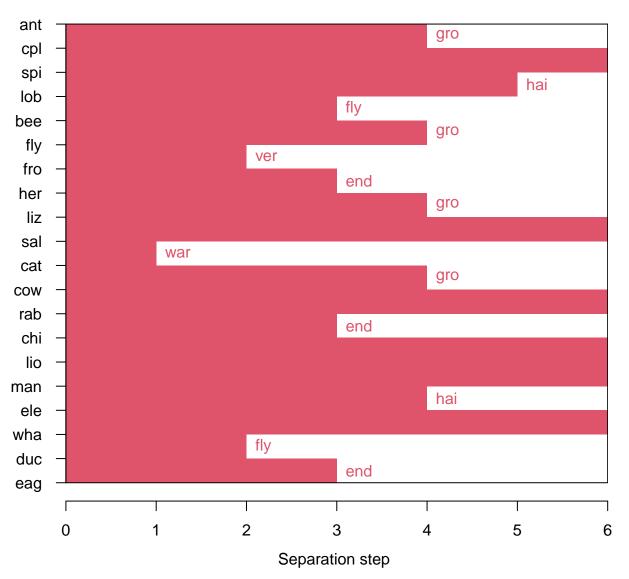
Component 1
These two components explain 100 % of the point variability.

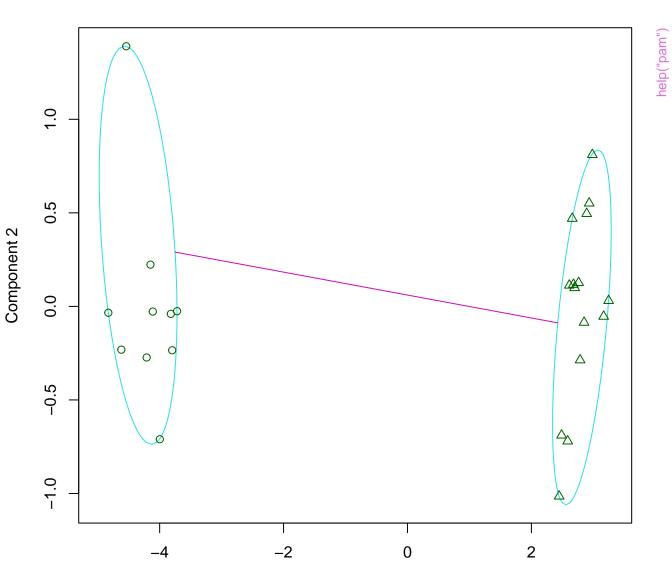
Silhouette plot of fanny(x = ruspini, k = 5) n = 75



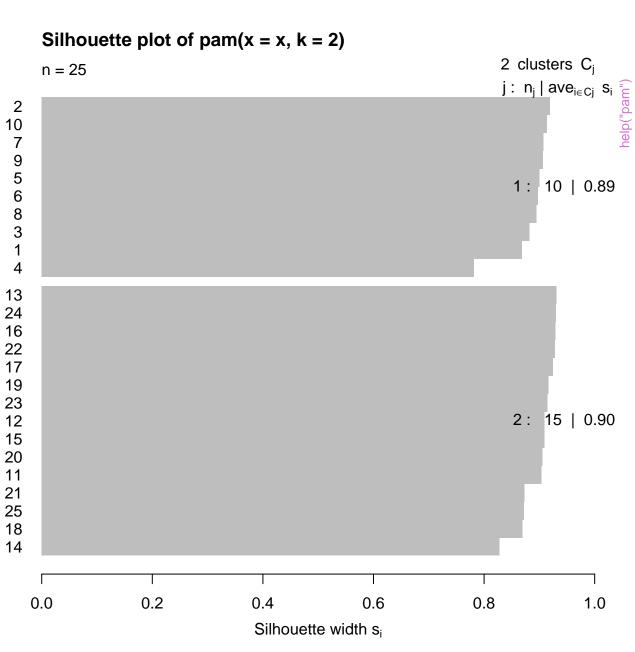
5 clusters C_i

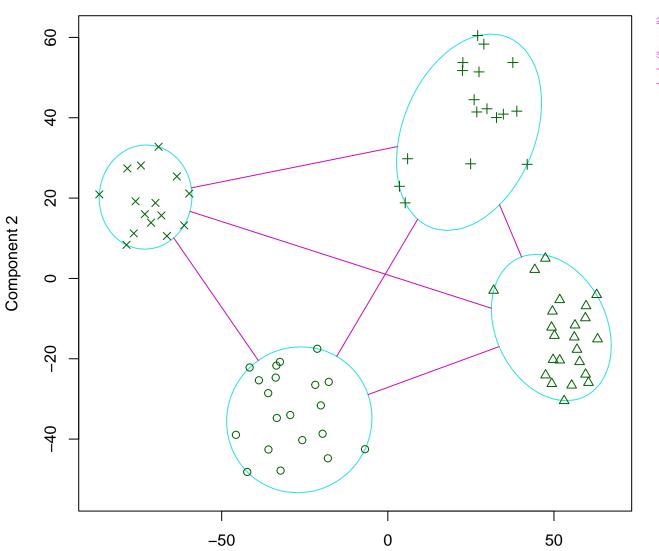
Banner of mona(x = animals)



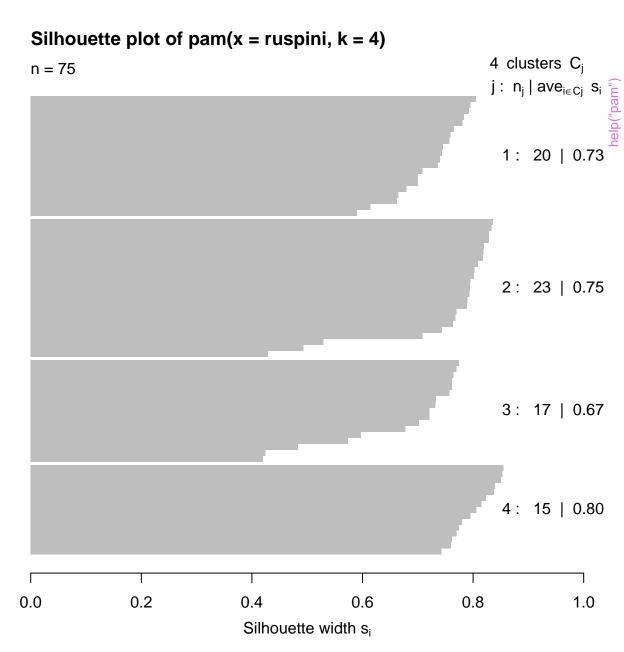


Component 1
These two components explain 100 % of the point variability.

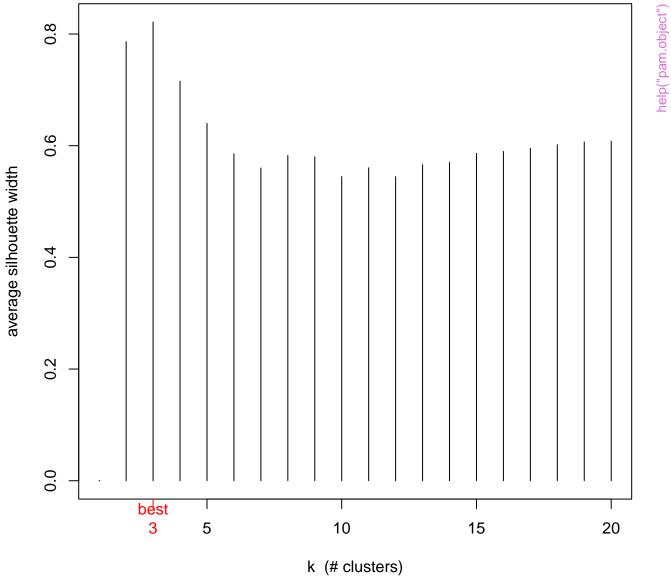




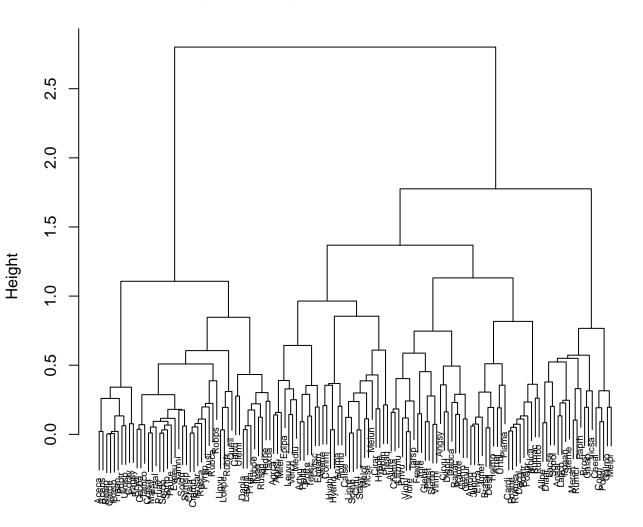
Component 1
These two components explain 100 % of the point variability.



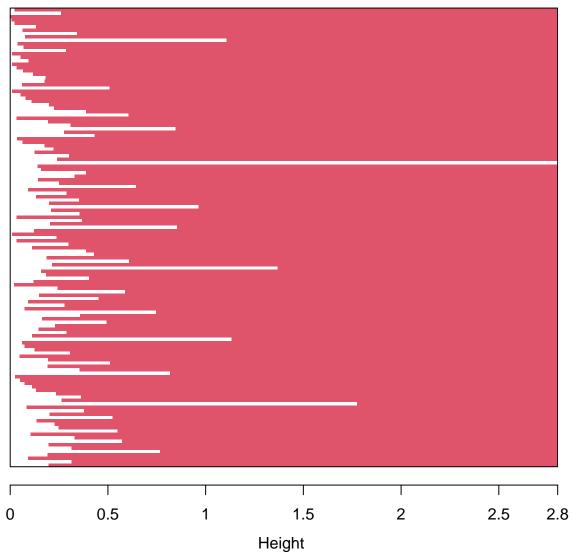




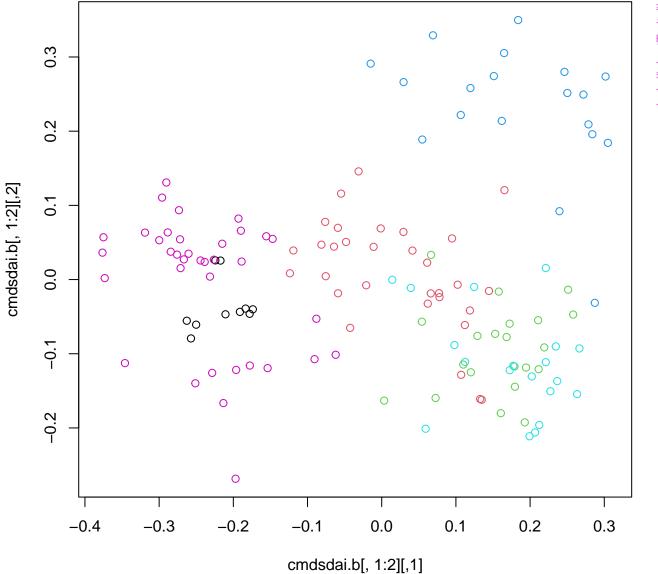
Dendrogram of agnes(x = dai.b, method = "ward")



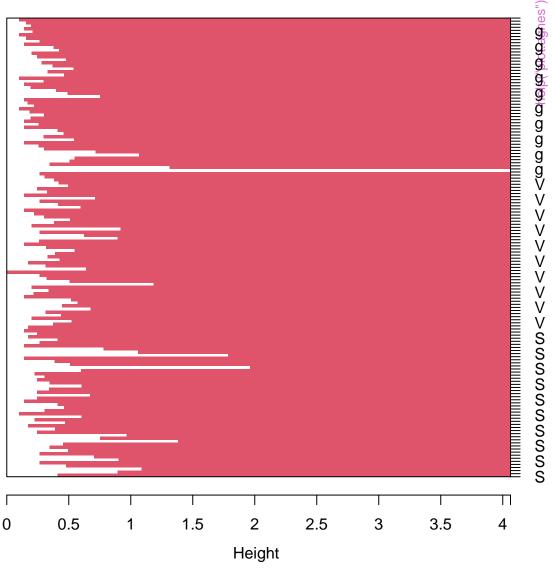
dai.b
Agglomerative Coefficient = 0.95



Agglomerative Coefficient = 0.95

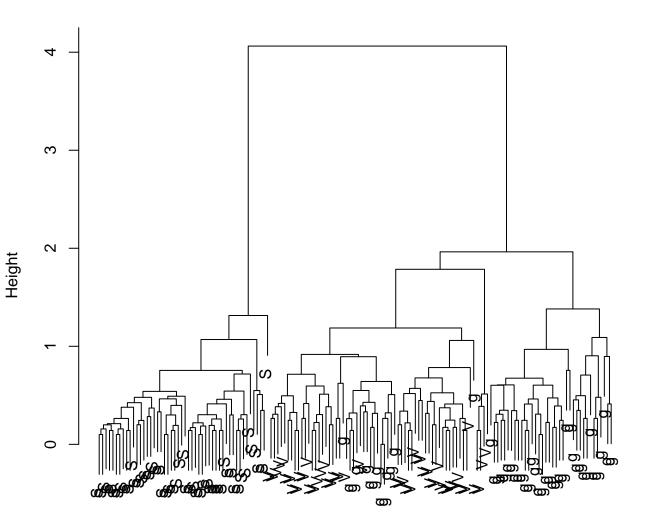


Banner of agnes(x = iris[, 1:4])



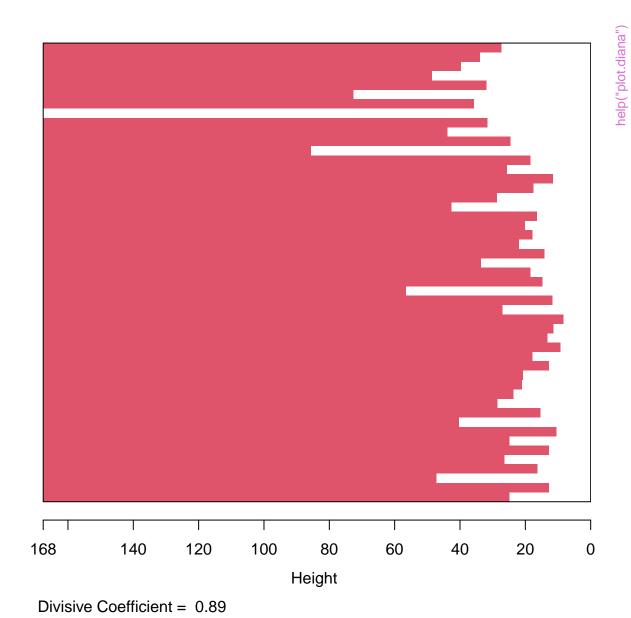
Agglomerative Coefficient = 0.93

Dendrogram of agnes(x = iris[, 1:4])



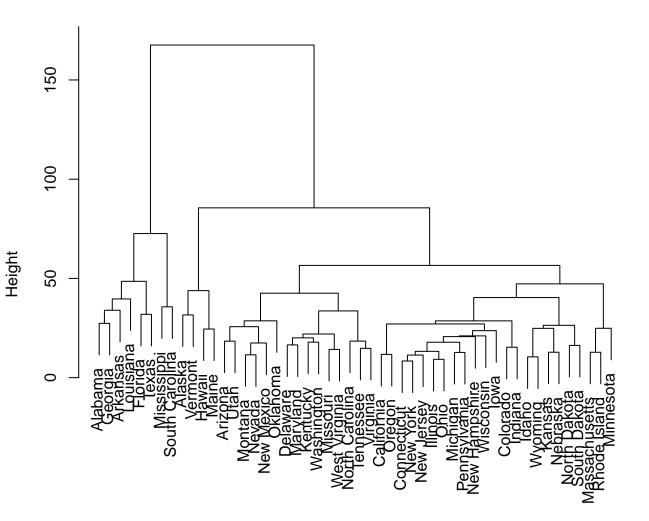
iris[, 1:4]
Agglomerative Coefficient = 0.93

Banner of diana(x = votes.repub, metric = "manhattan", stand = TR



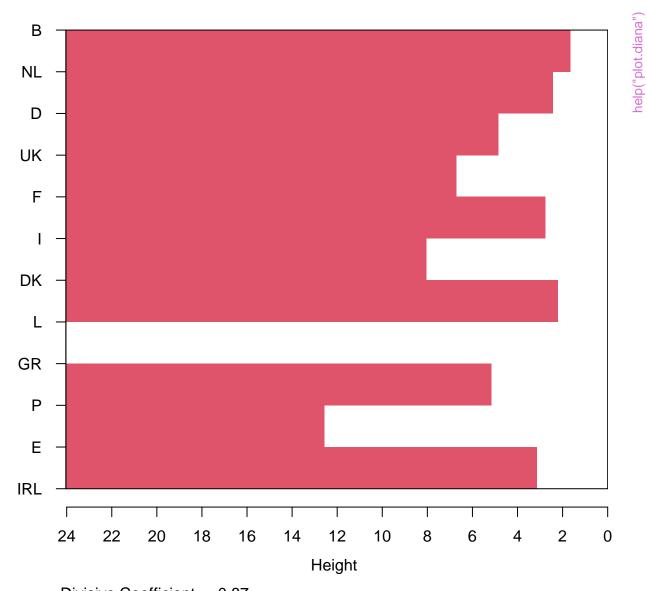
Dendrogram of diana(x = votes.repub, metric = "manhattan", stand = TRU

help("plot.diana")



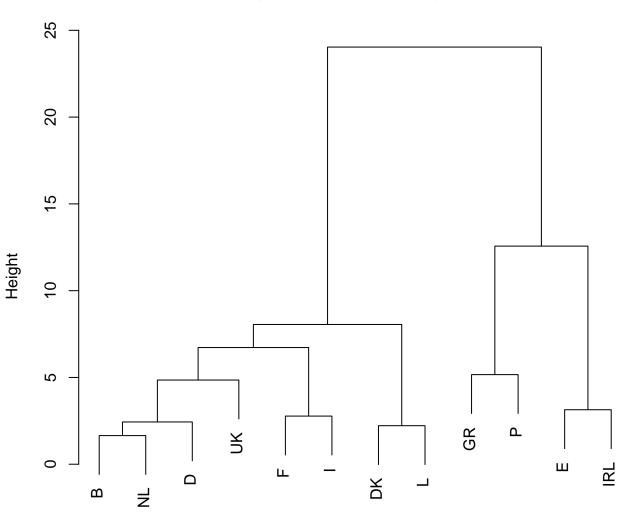
votes.repub
Divisive Coefficient = 0.89

Banner of diana(x = agriculture)



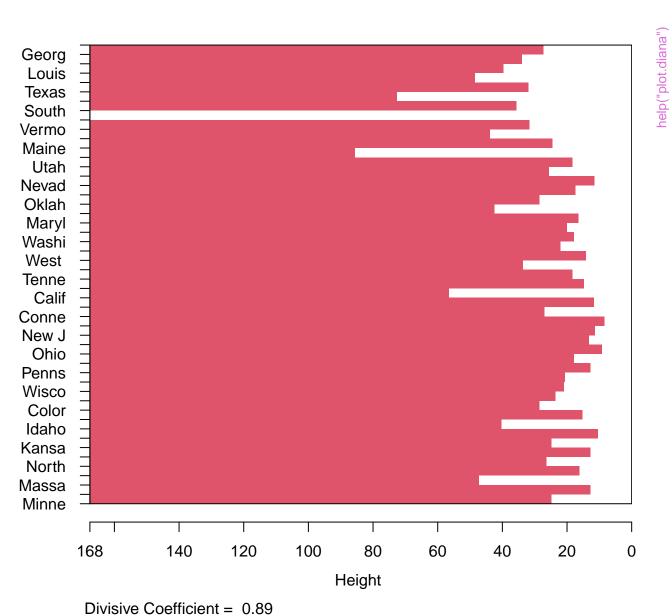
Divisive Coefficient = 0.87

Dendrogram of diana(x = agriculture)

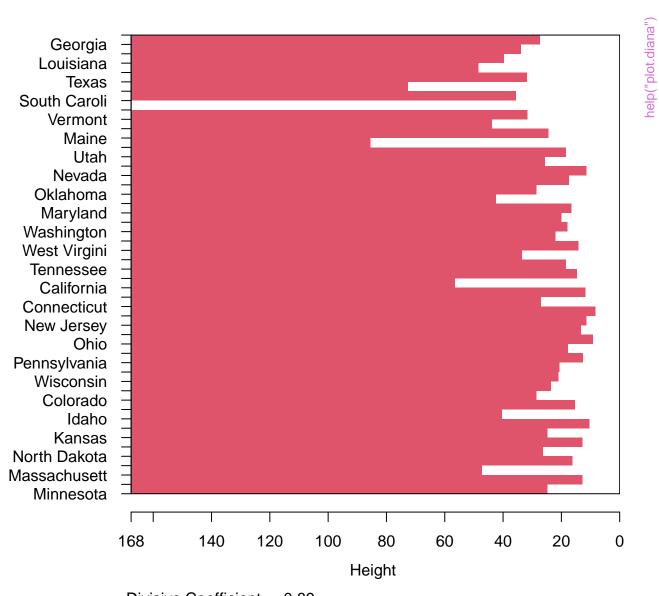


agriculture
Divisive Coefficient = 0.87

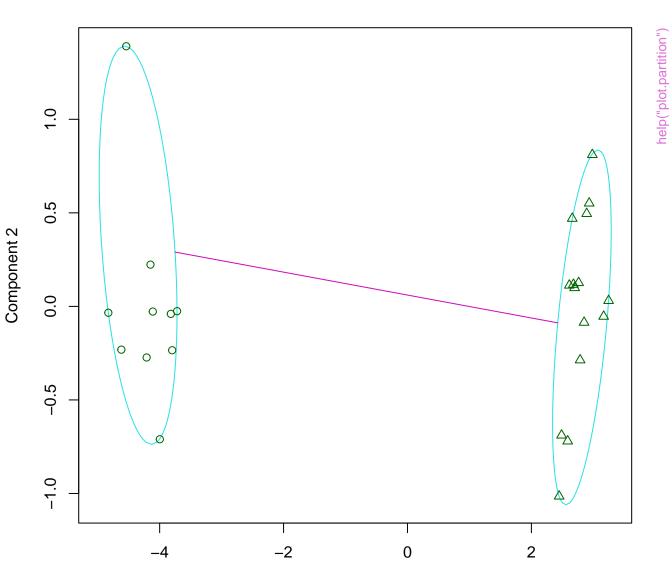
Banner of diana(x = votes.repub, metric = "manhattan", stand = Ti



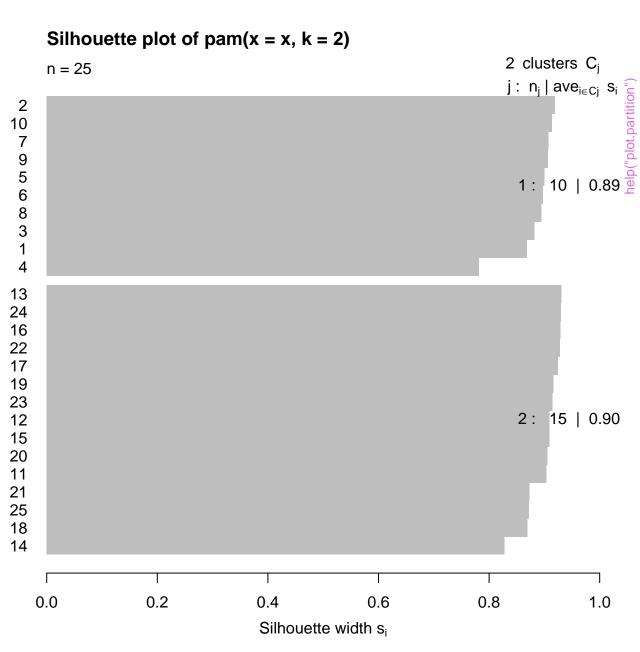
Banner of diana(x = votes.repub, metric = "manhattan", star



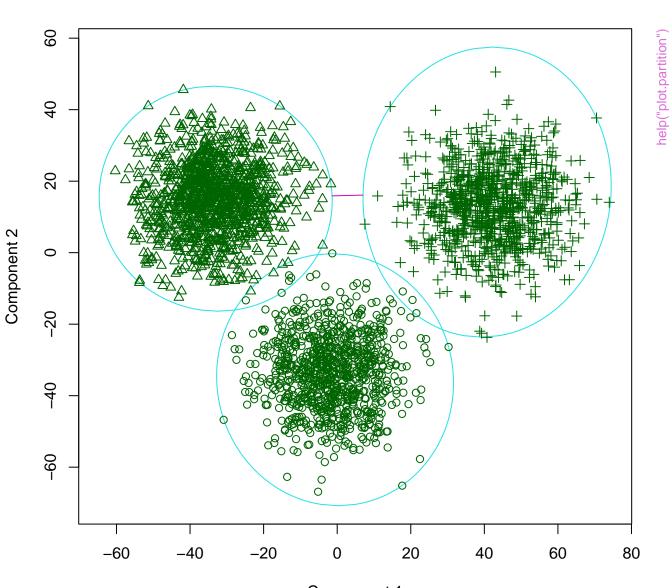
Divisive Coefficient = 0.89



Component 1
These two components explain 100 % of the point variability.

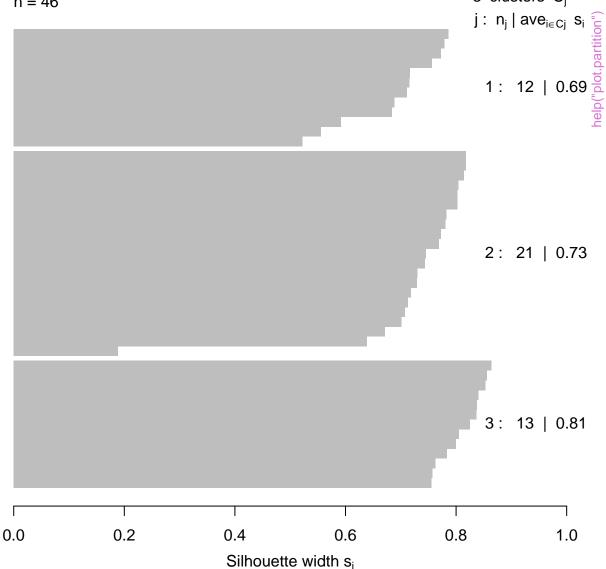


clusplot(clara(x = xclara, k = 3, keep.data = FALSE))

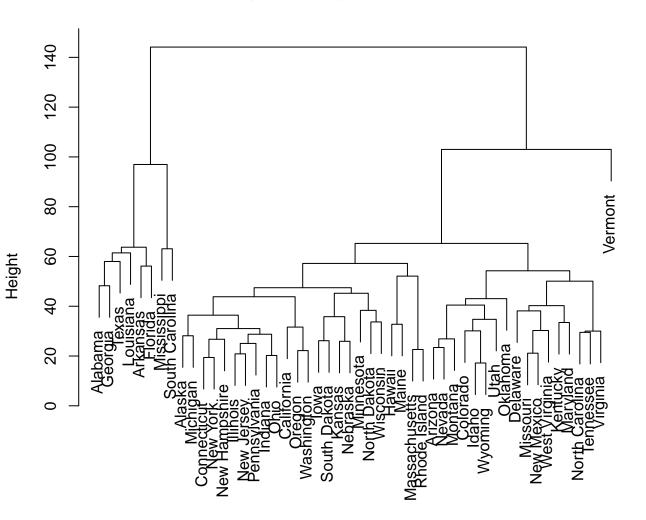


Component 1
These two components explain 100 % of the point variability.

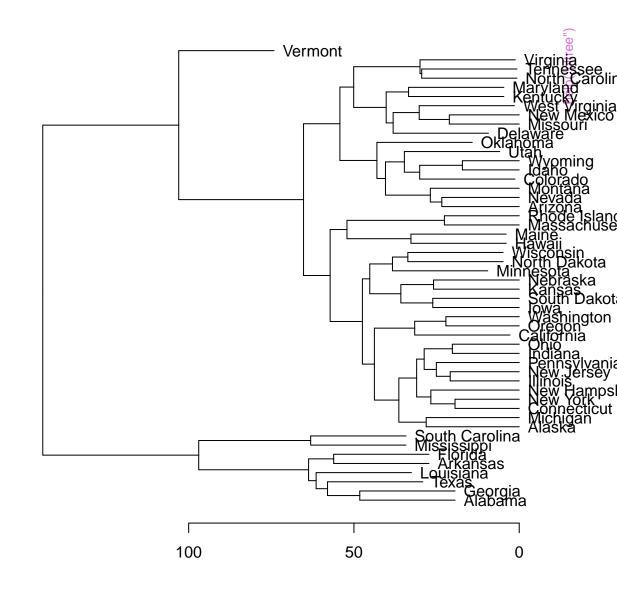
Silhouette plot of clara(x = xclara, k = 3, keep.data = FALSE) 3 clusters C_i n = 46



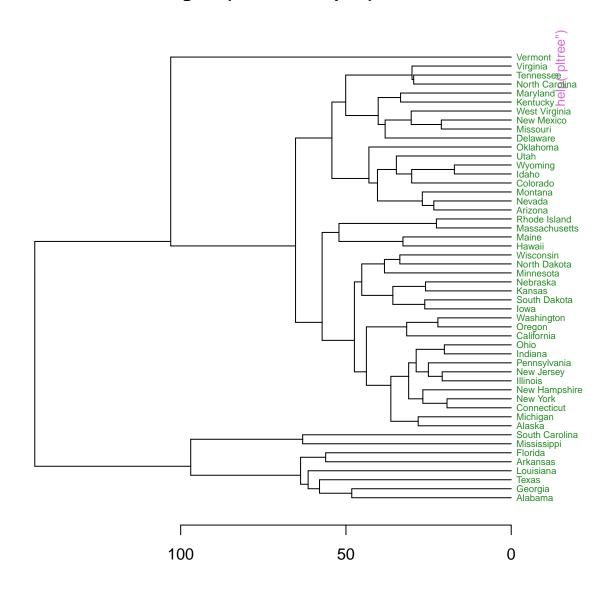
Dendrogram of agnes(x = votes.repub)



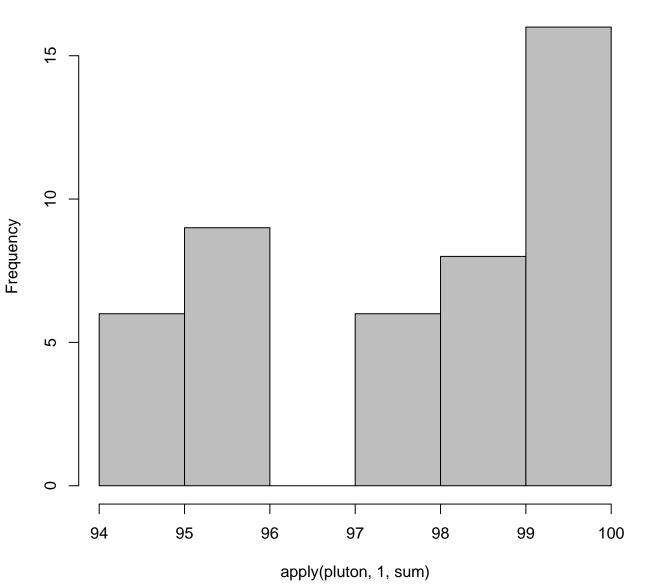
votes.repub agnes (*, "average")

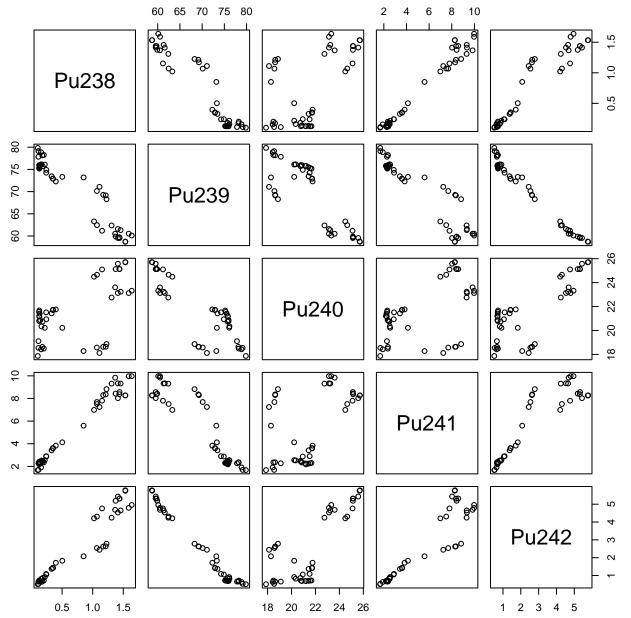


agnes(x = votes.repub)

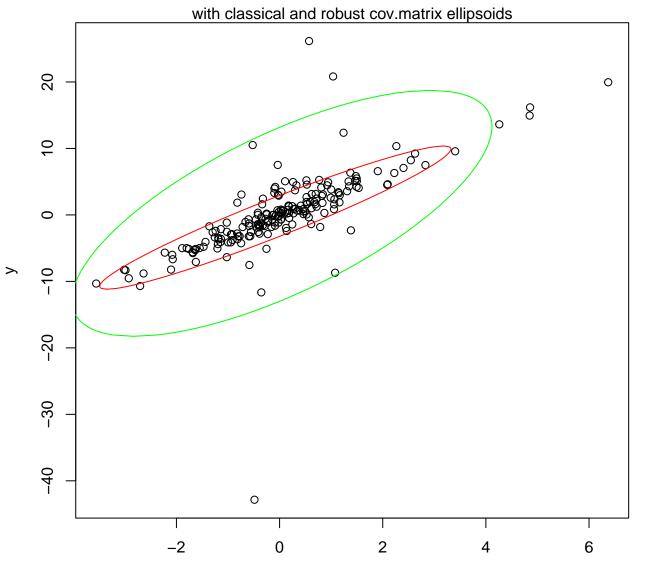


Histogram of apply(pluton, 1, sum)



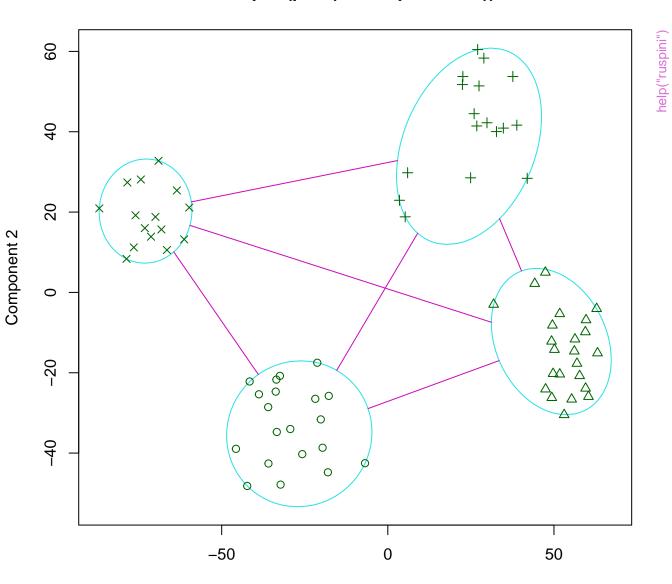


non-normal data (N=200)

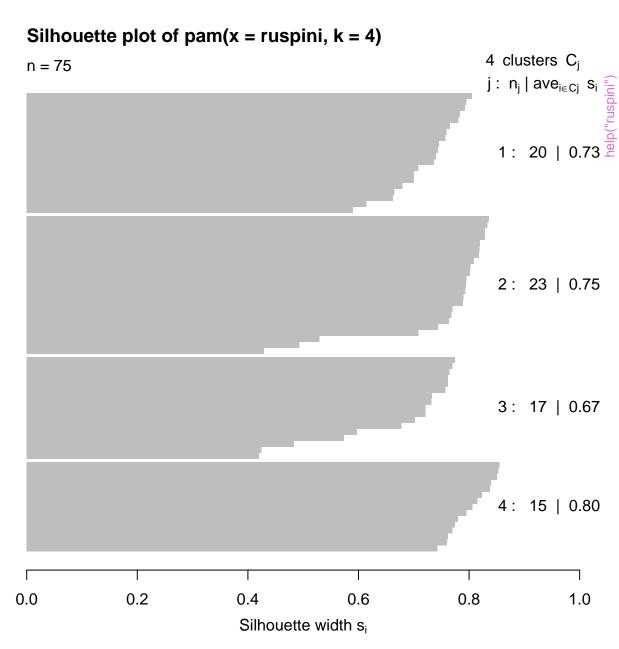


Χ

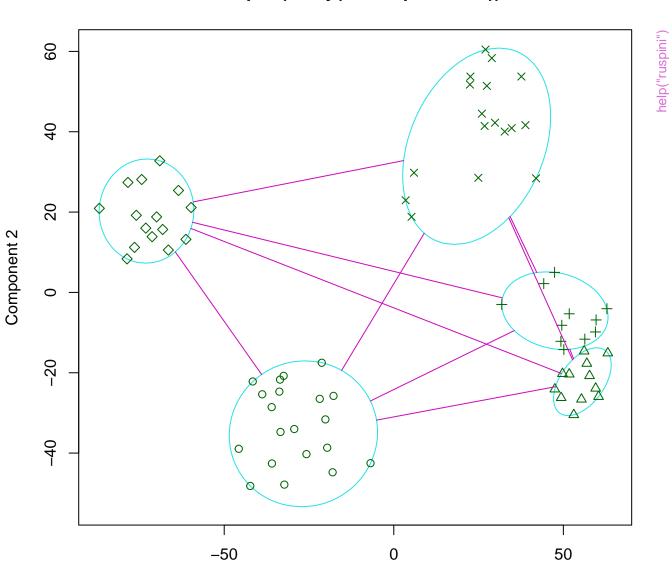
clusplot(pam(x = ruspini, k = 4))



Component 1
These two components explain 100 % of the point variability.



clusplot(fanny(x = ruspini, k = 5))



Component 1
These two components explain 100 % of the point variability.

Silhouette plot of fanny(x = ruspini, k = 5) 5 clusters C_i n = 75j: $n_j \mid ave_{i \in Cj} s_i$ $s_i = 1$ $s_$ 2: 12 | 0.50 3: 11 | 0.25 4: 17 | 0.62 5: 15 | 0.80

0.4

Silhouette width si

0.6

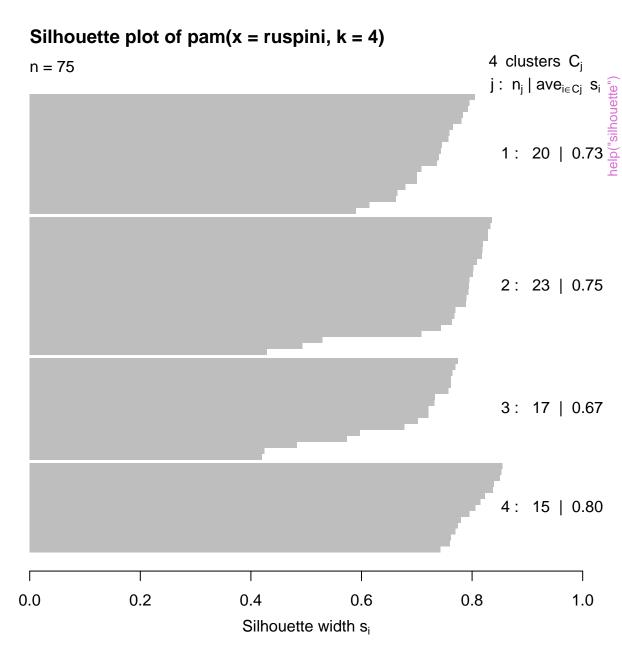
8.0

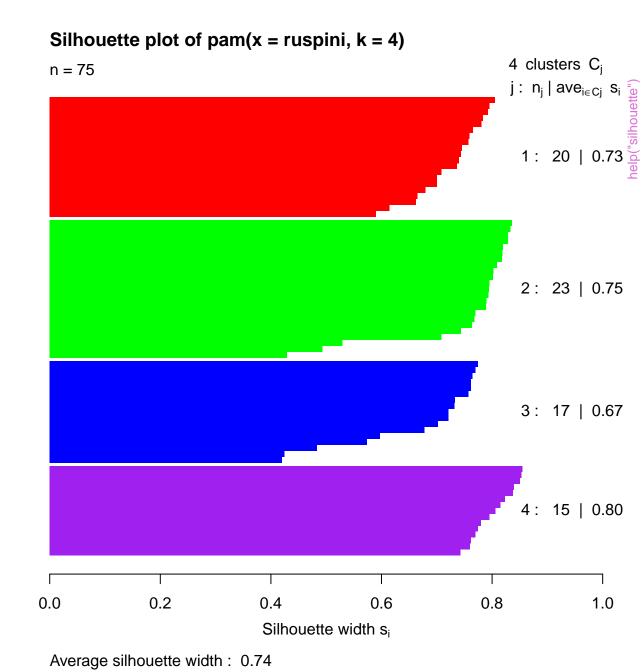
1.0

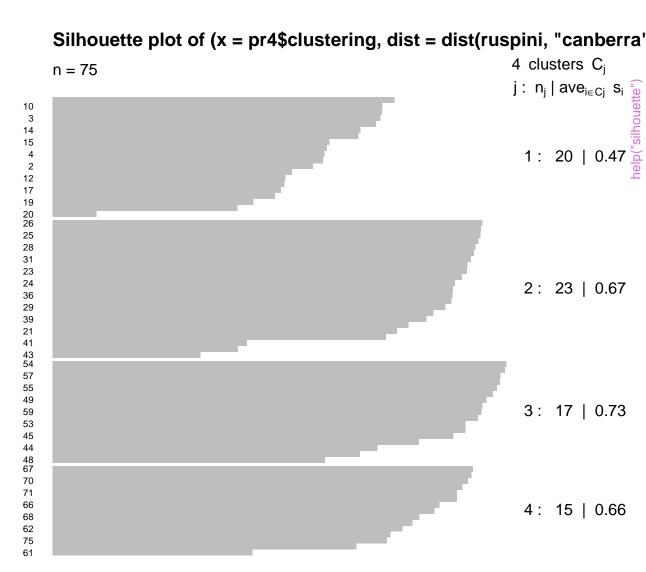
Average silhouette width: 0.61

0.2

0.0







Average silhouette width: 0.63

0.2

0.4

0.6

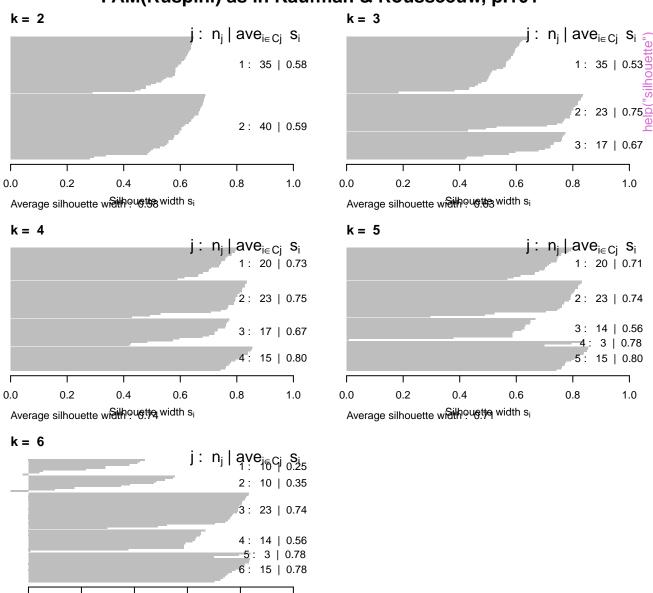
Silhouette width si

8.0

1.0

0.0

PAM(Ruspini) as in Kaufman & Rousseeuw, p.101



0.0

0.2

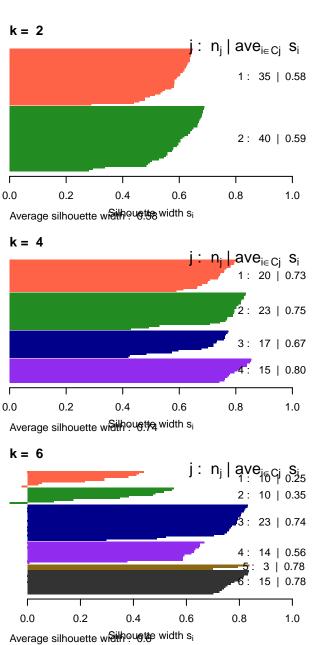
Average silhouette widthouette width si

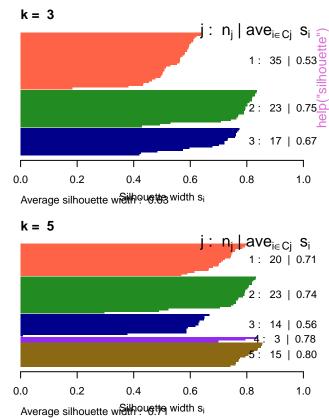
0.4

0.6

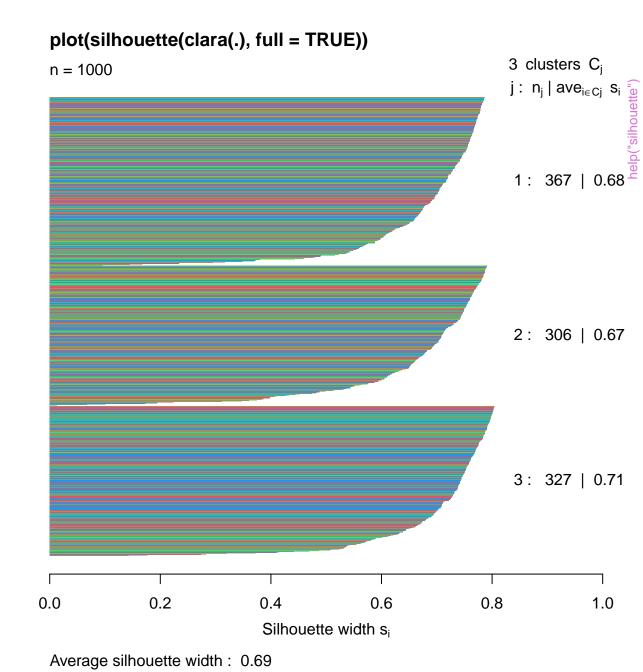
8.0

1.0





Silhouette plot of clara(x = xc1k, k = 3) 3 clusters C_j n = 46 $j: n_j \mid ave_{i \in Cj} s_i$ 1: 10 | 0.74 1: 19 | 0.74 2: 18 | 0.65 3: 9 | 0.65 0.0 0.2 0.4 0.6 8.0 1.0 Silhouette width si



Silhouette plot of (x = cutree(ar, k = 5), dist = daisy(ruspini))5 clusters C_j n = 75j: $n_j \mid ave_{i \in Cj} s_i$ s_i "approving a superior of the superior of th 2: 23 | 0.74 3: 14 | 0.56 4: 3 | 0.78 5: 15 | 0.80 0.0 0.2 0.4 0.6 8.0 1.0

Silhouette width si

Average silhouette width: 0.71

Silhouette plot of (x = cutree(ar, k = 2), dist = daisy(ruspini))2 clusters C_i n = 75 $j: n_j \mid ave_{i \in C_j} s_i$ 1: 35 | 0.58 2: 40 | 0.59

0.4

0.6

Silhouette width si

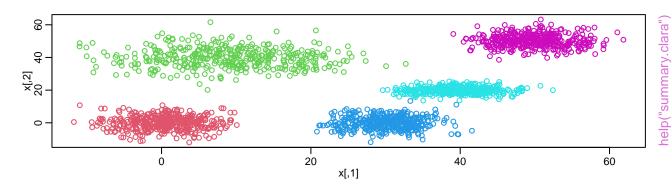
8.0

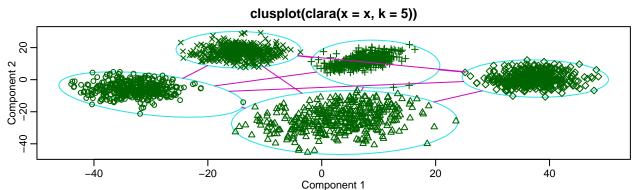
1.0

Average silhouette width: 0.58

0.2

0.0





These two components explain 100 % of the point variability.

