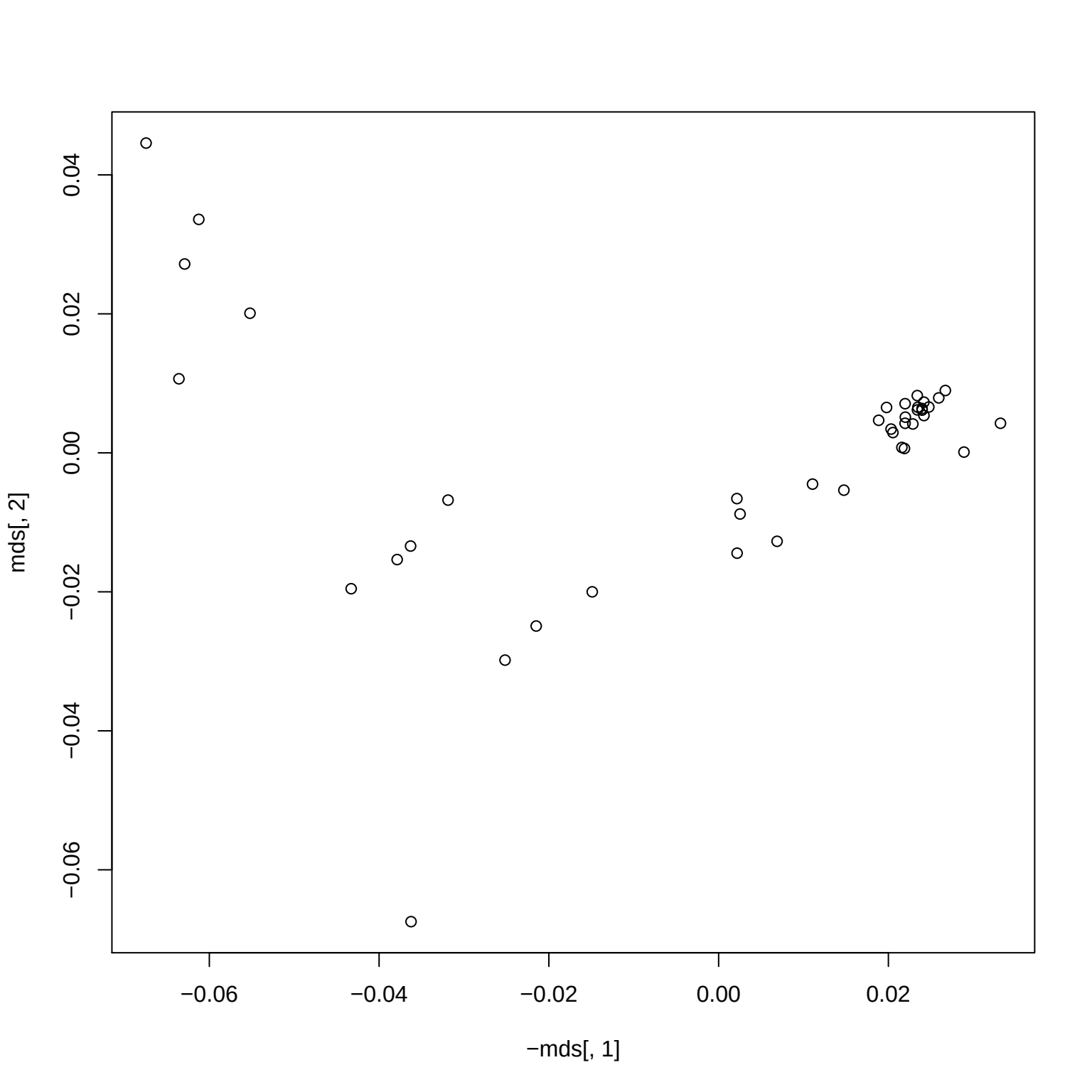
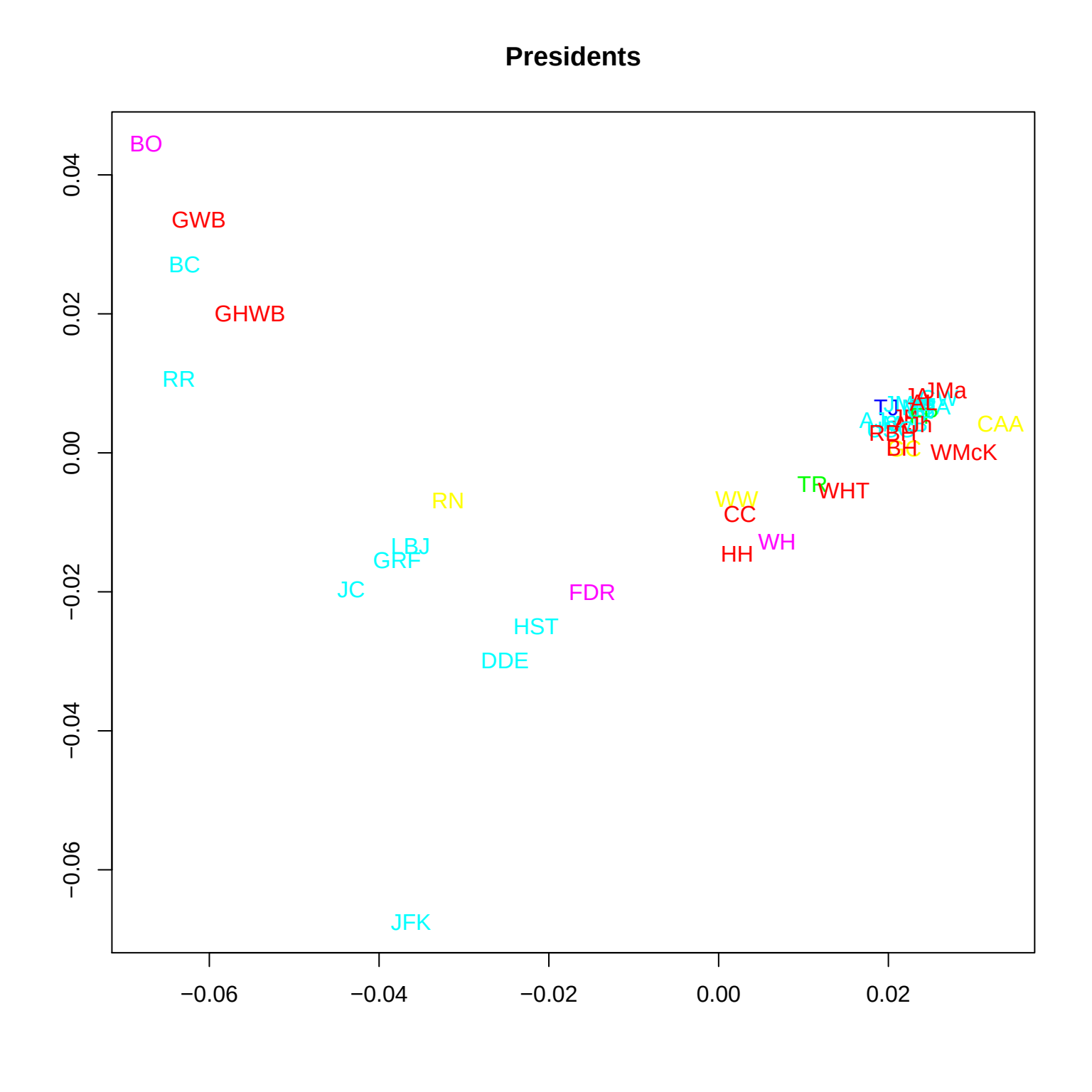
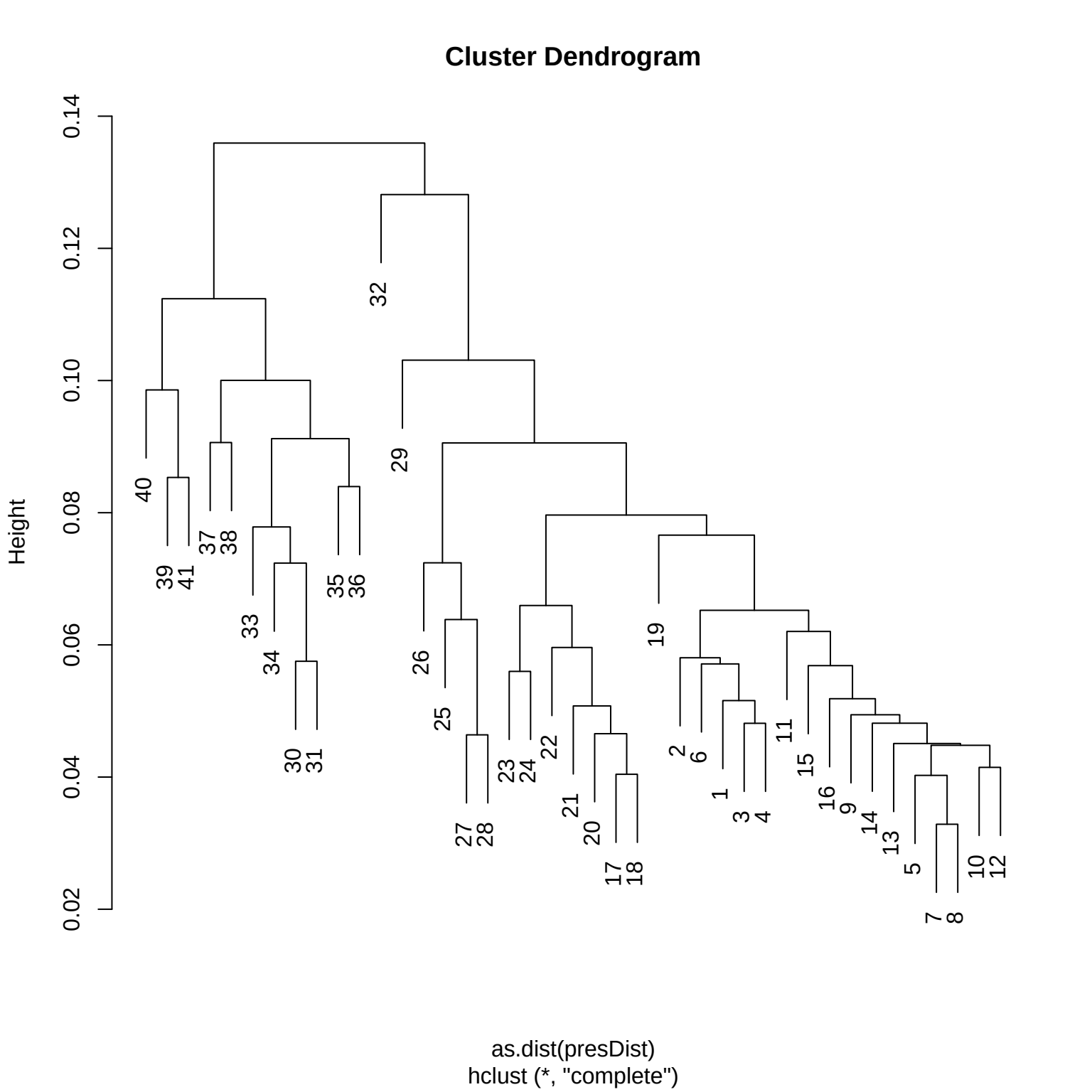
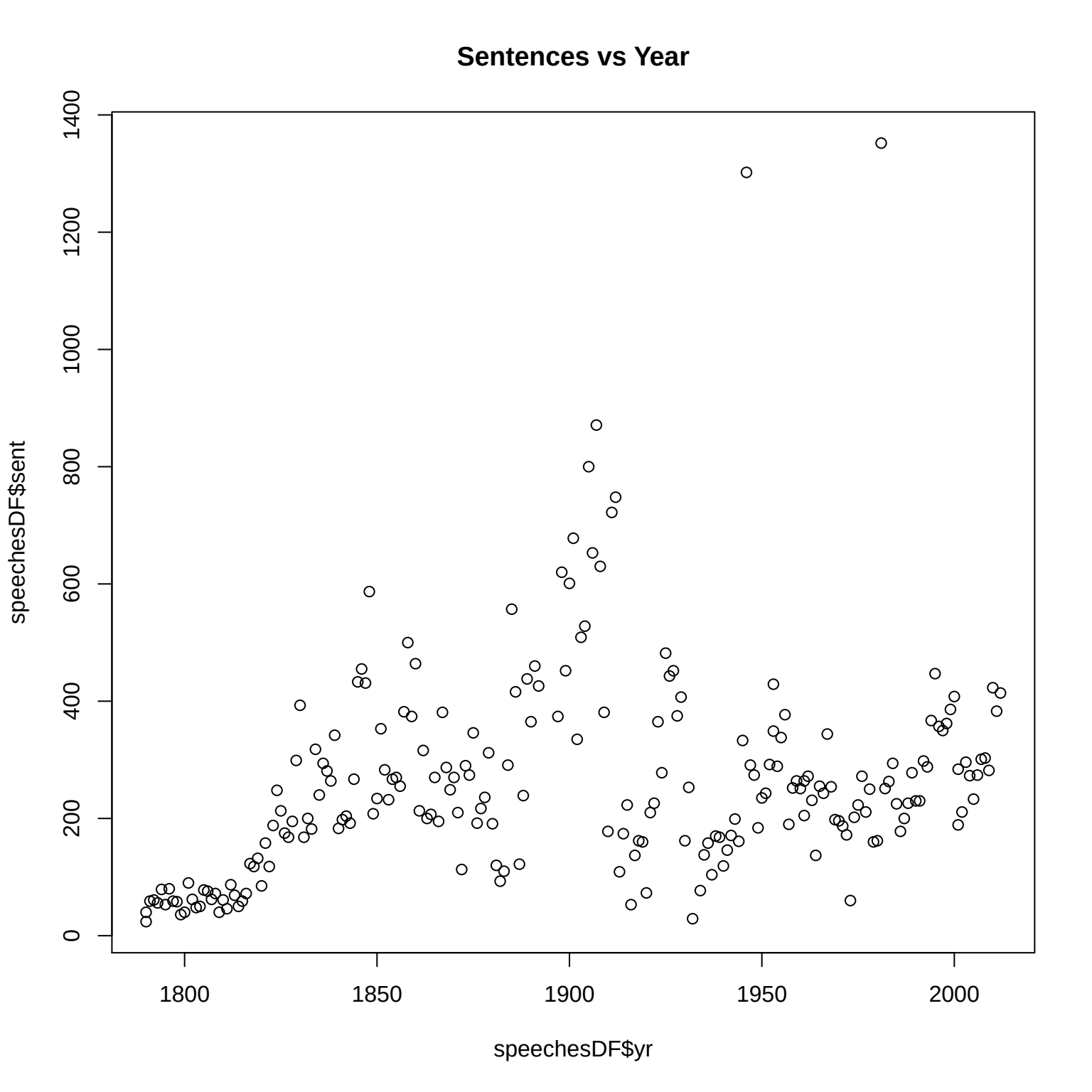
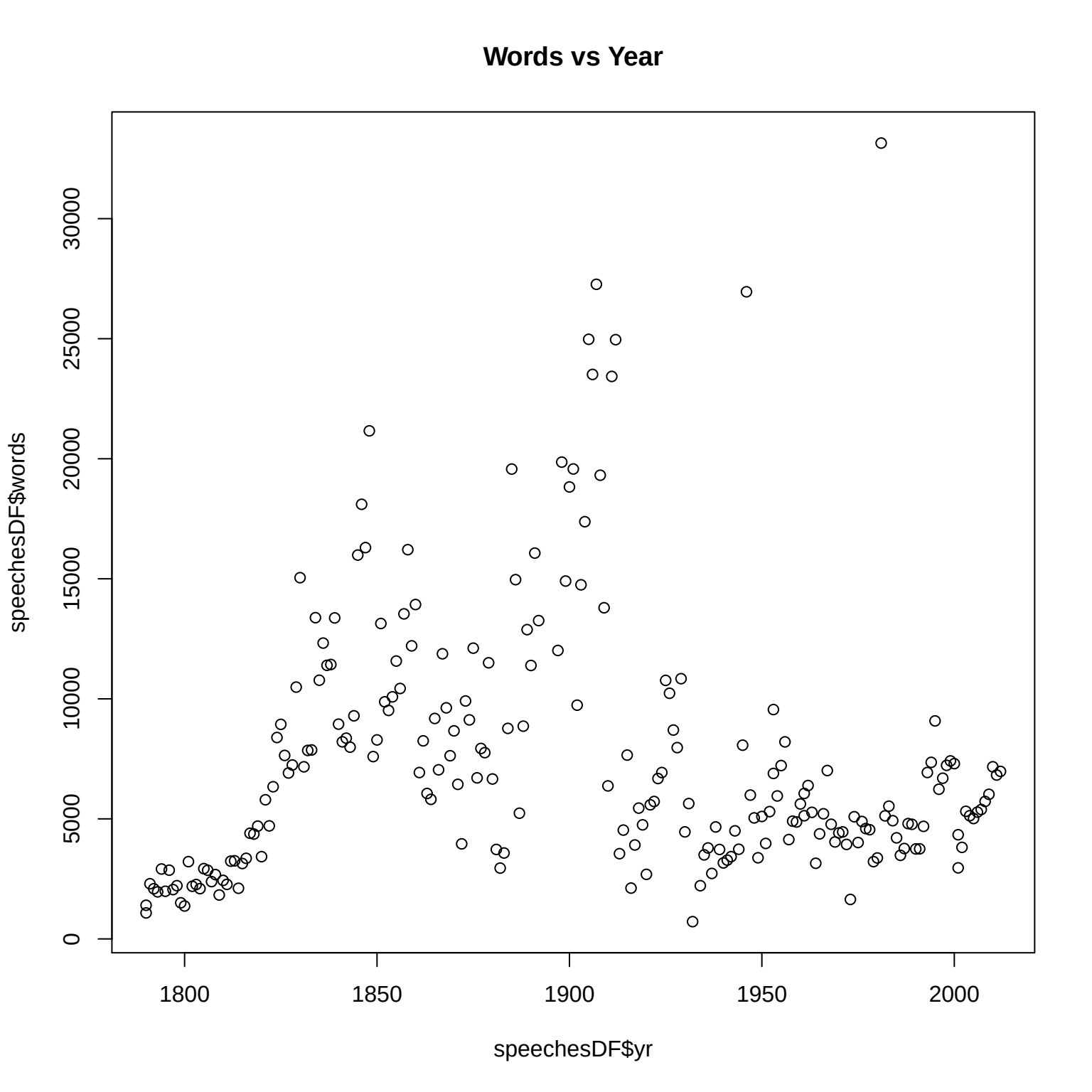
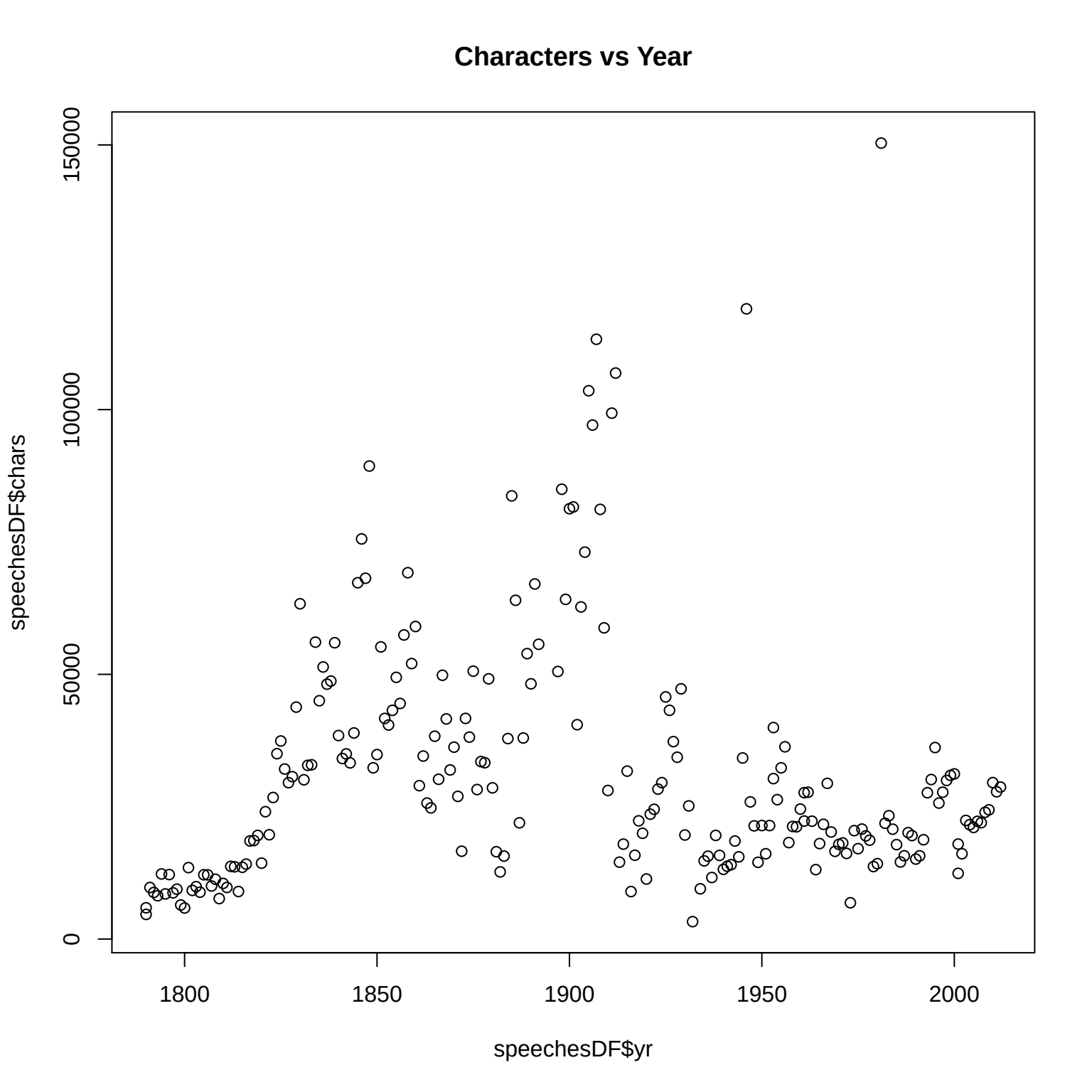

0.04
0.02
0.00
−0.02
−0.04
−0.06
mds[, 2]
−0.06
−0.04
−0.02
0.00
0.02
−mds[, 1]

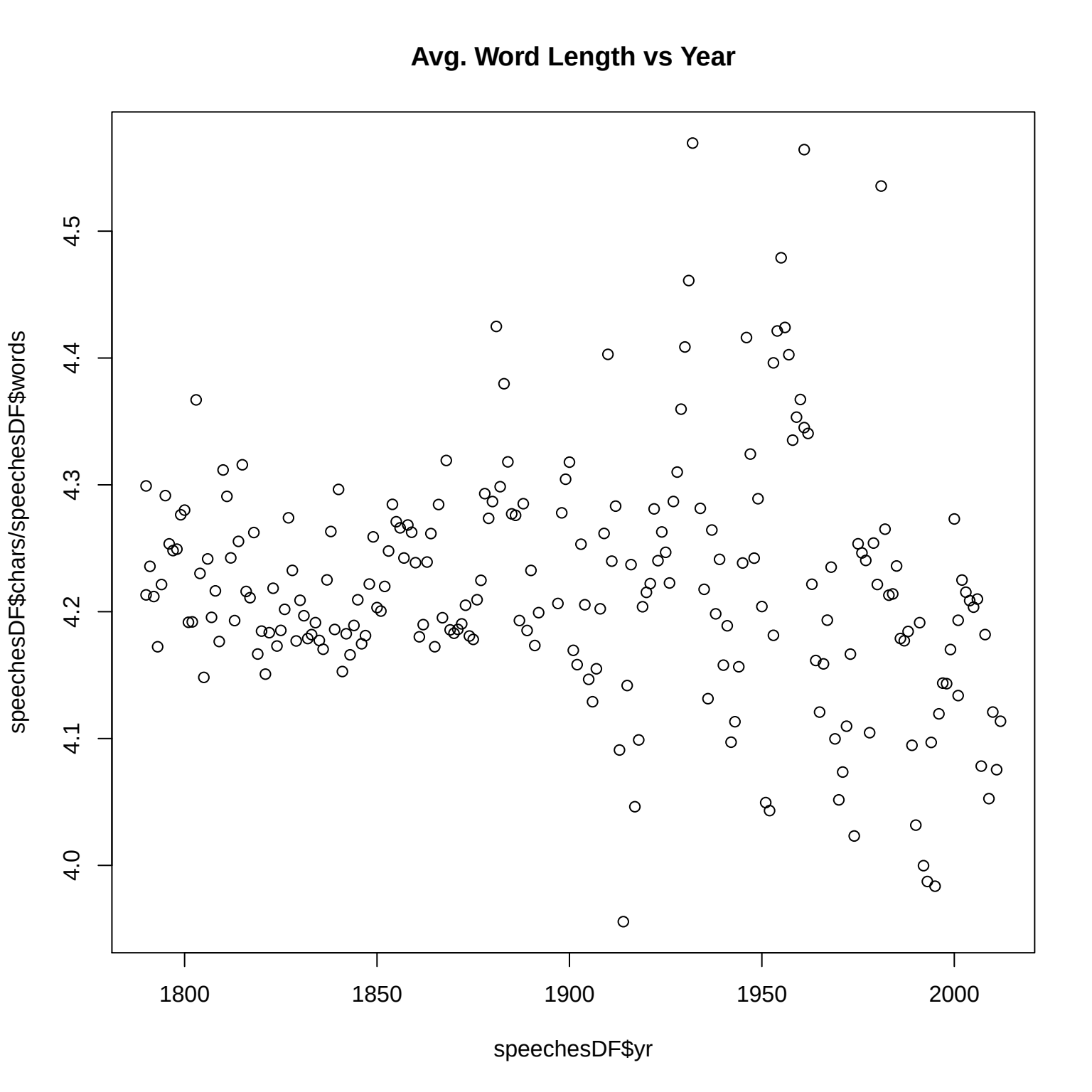

Presidents
BO
GWB
BC
GHWB
RR
RN
LBJ
GRF
JC
FDR
HST
DDE
JFK
JMa
CAA
WMcK
TR
WHT
WW
CC
WH
HH
0.04
0.02
0.00
−0.02
−0.04
−0.06
−0.06
−0.04
−0.02
0.00
0.02

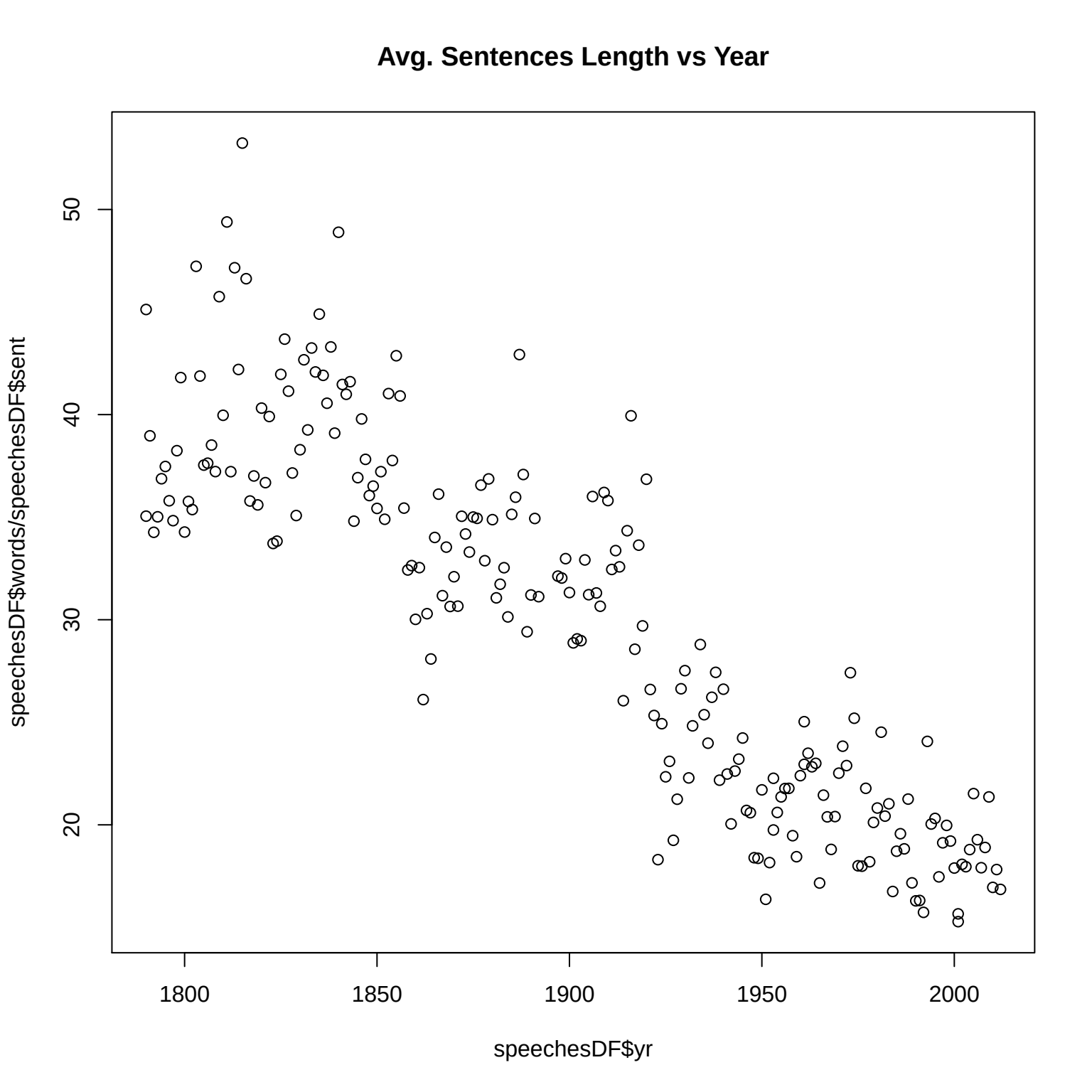

Cluster Dendrogram
Height
0.14
0.12
0.10
0.08
0.06
0.04
0.02
40
39
41
37
38
33
34
30
31
35
36
32
29
26
25
27
28
23
24
22
21
20
17
18
19
2
6
1
3
4
11
15
16
9
14
13
5
7
8
10
12
as.dist(presDist)
hclust (*, "complete")


Sentences vs Year
speechesDF$sent
0
200
400
600
800
1000
1200
1400
1800
1850
1900
1950
2000
speechesDF$yr


Words vs Year
speechesDF$words
0
5000
10000
15000
20000
25000
30000
1800
1850
1900
1950
2000
speechesDF$yr


Characters vs Year
speechesDF$chars
0
50000
100000
150000
1800
1850
1900
1950
2000
speechesDF$yr


Avg. Word Length vs Year
speechesDF$chars/speechesDF$words
4.0
4.1
4.2
4.3
4.4
4.5
1800
1850
1900
1950
2000
speechesDF$yr


Avg. Sentences Length vs Year
speechesDF$words/speechesDF$sent
20
30
40
50
1800
1850
1900
1950
2000
speechesDF$yr