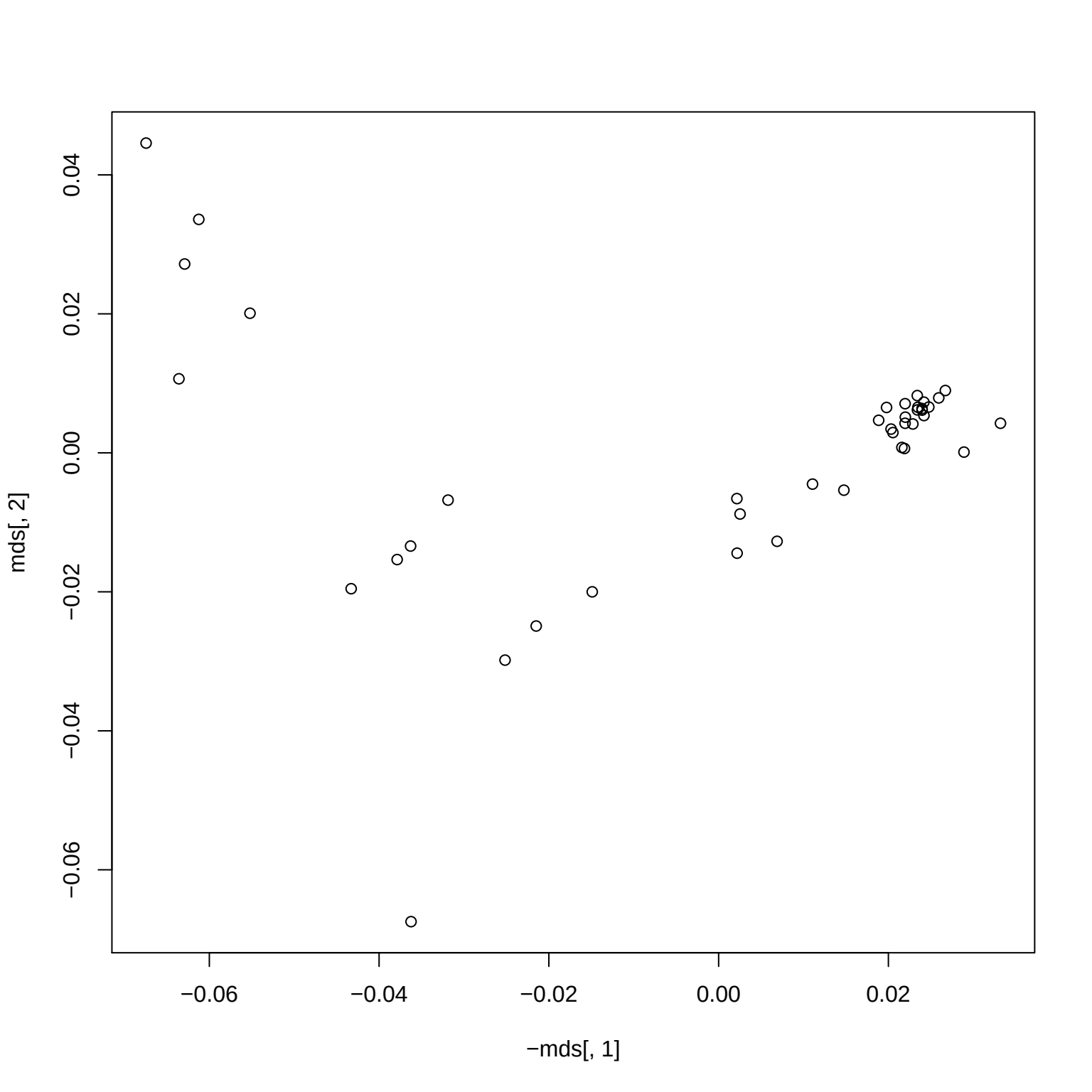
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0.00
−0.02
−0.04
−0.06
mds[, 2]
−0.06
−0.04
−0.02
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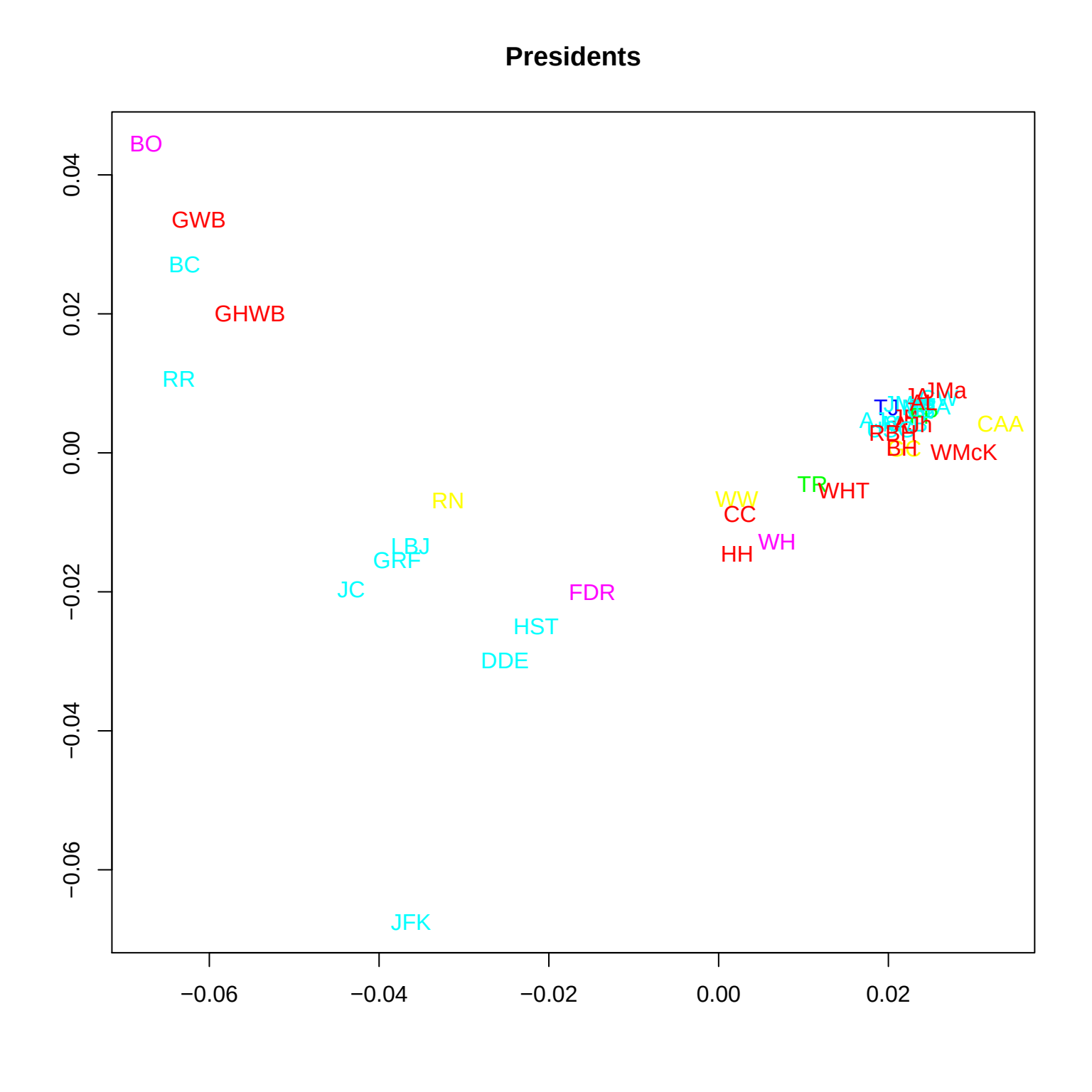
0.02
−mds[, 1]


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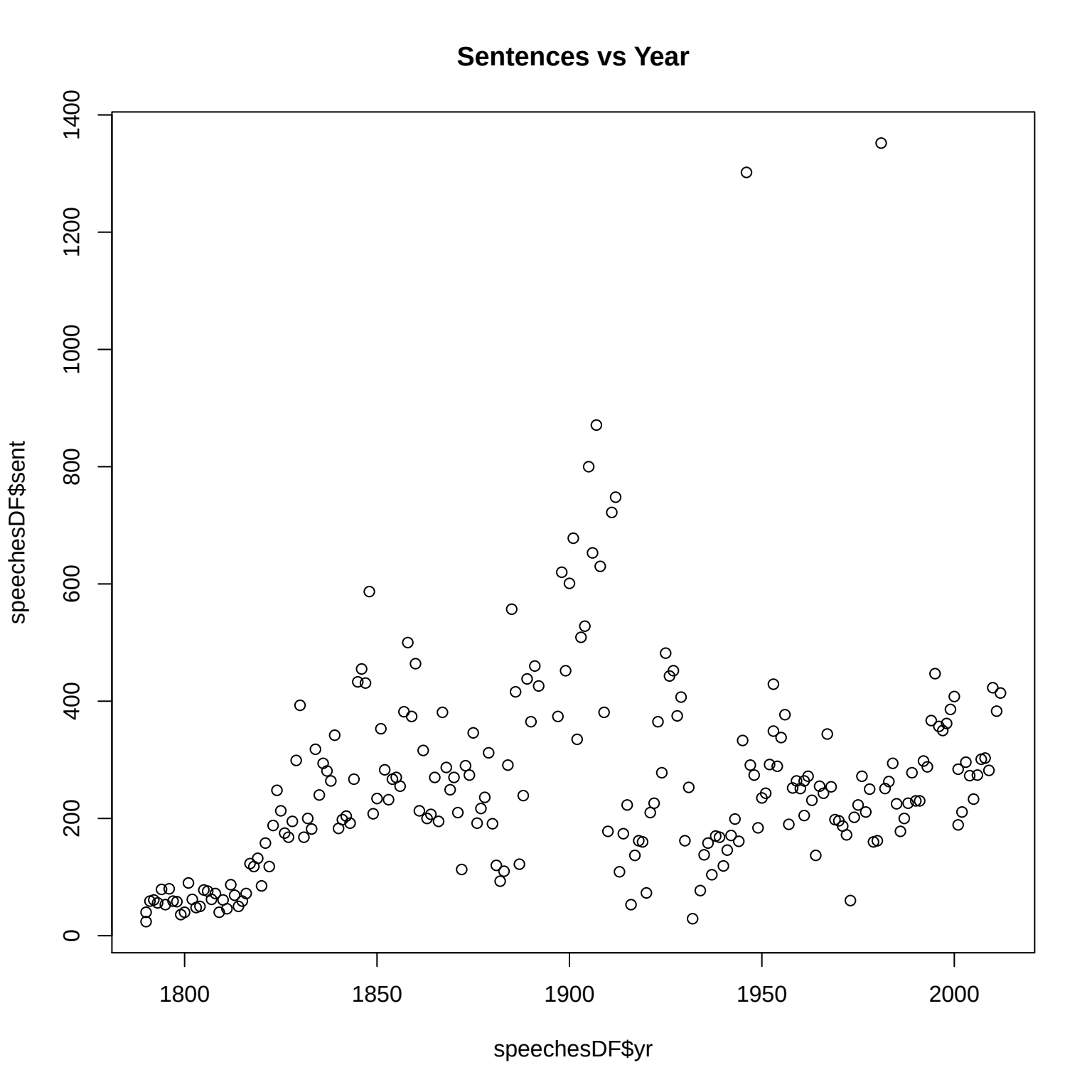
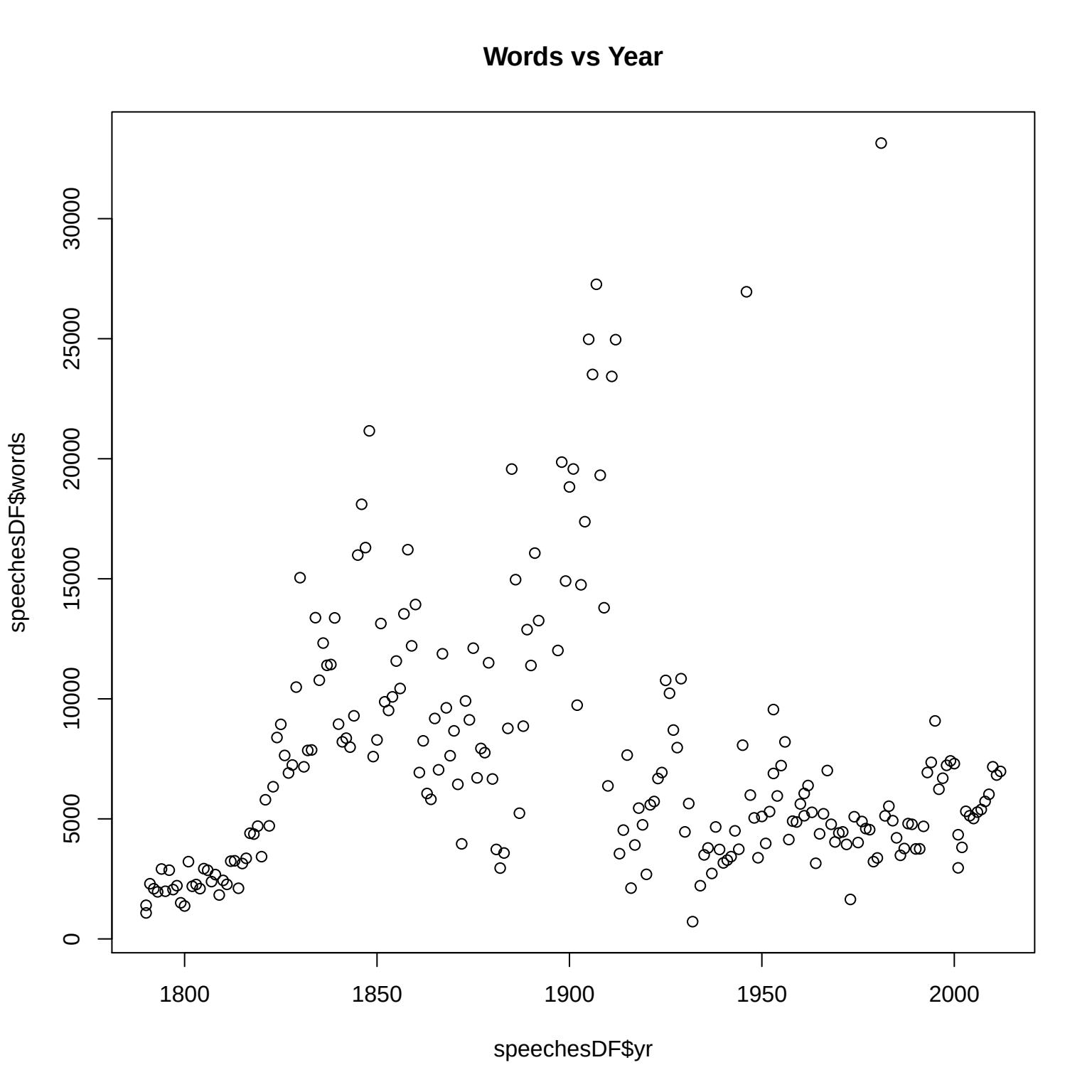
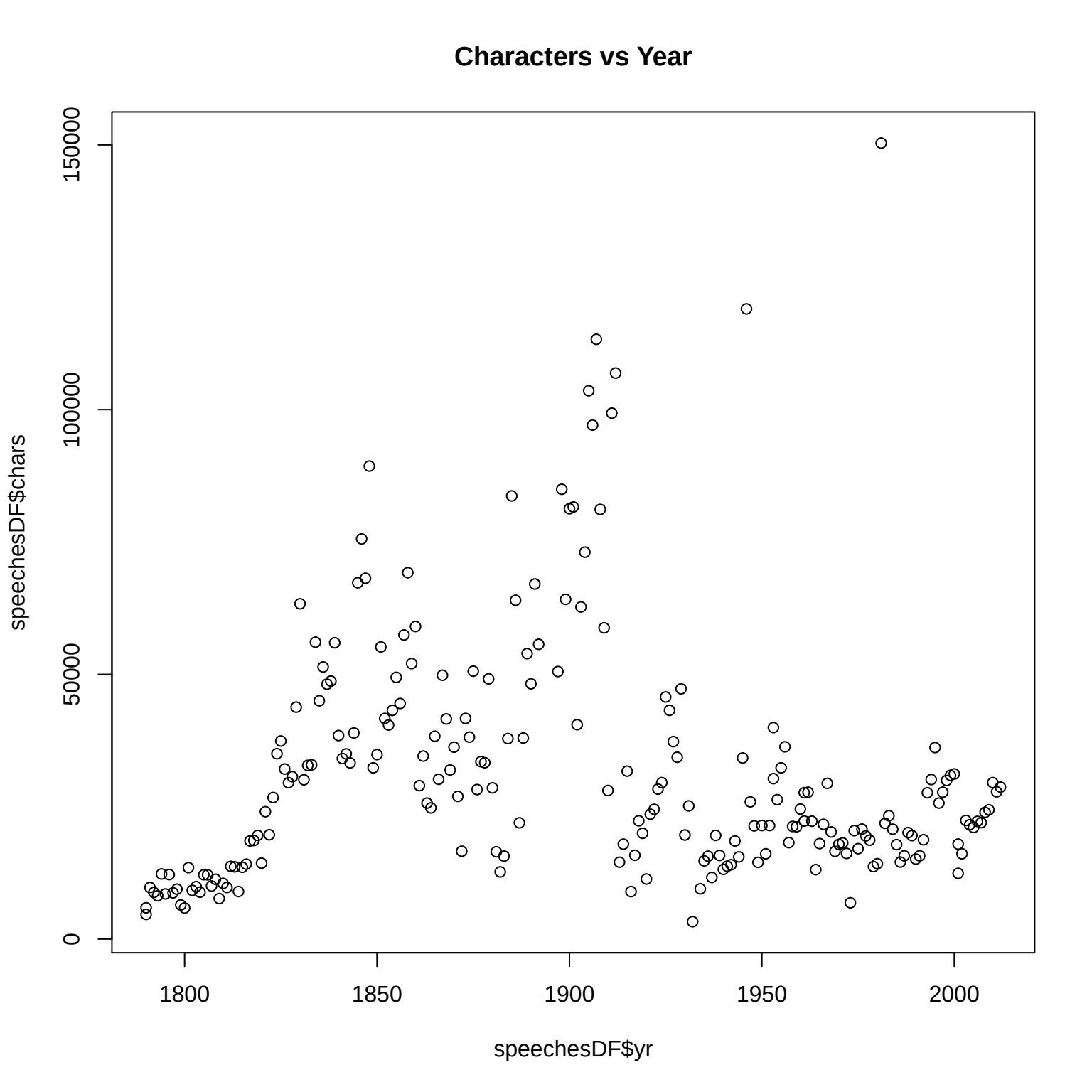
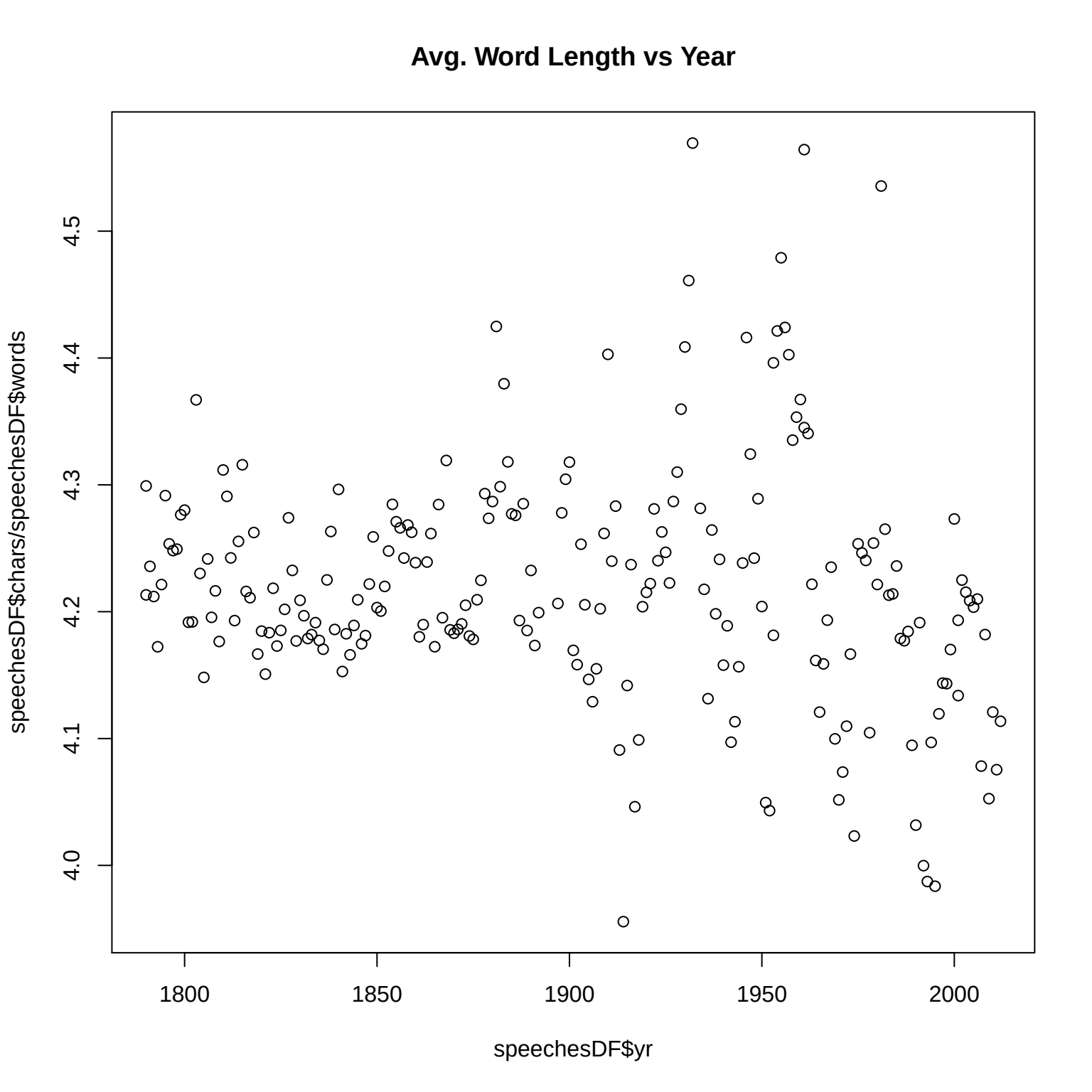
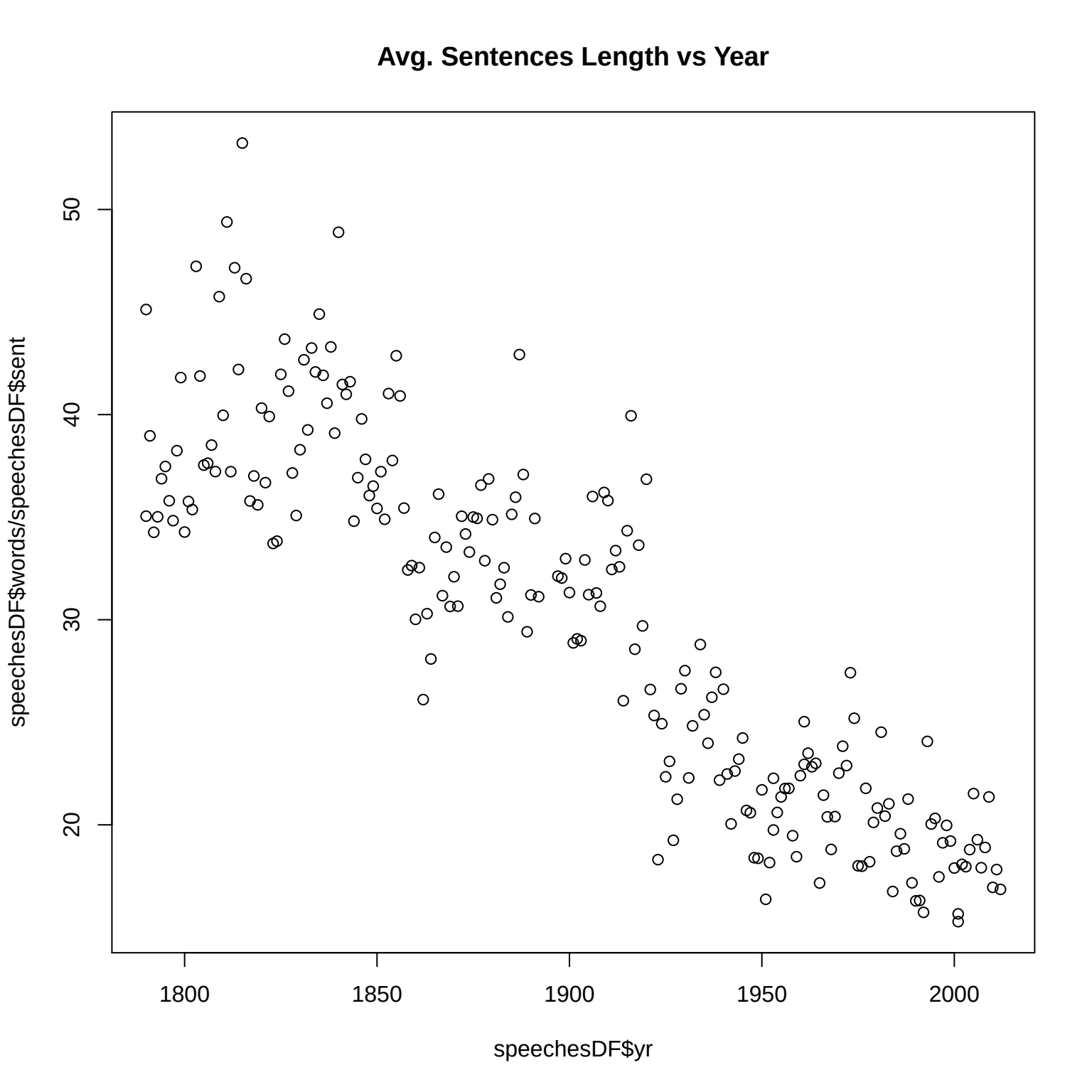
0.02


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