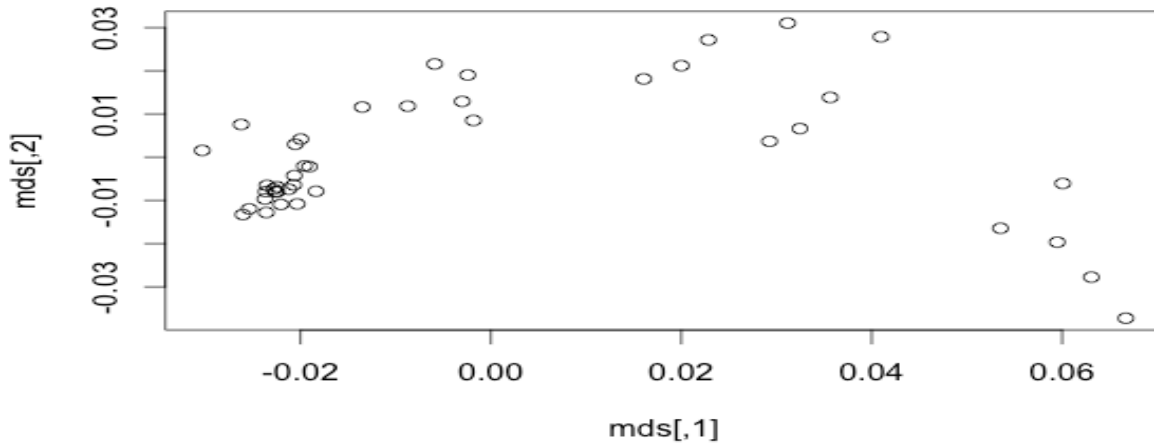
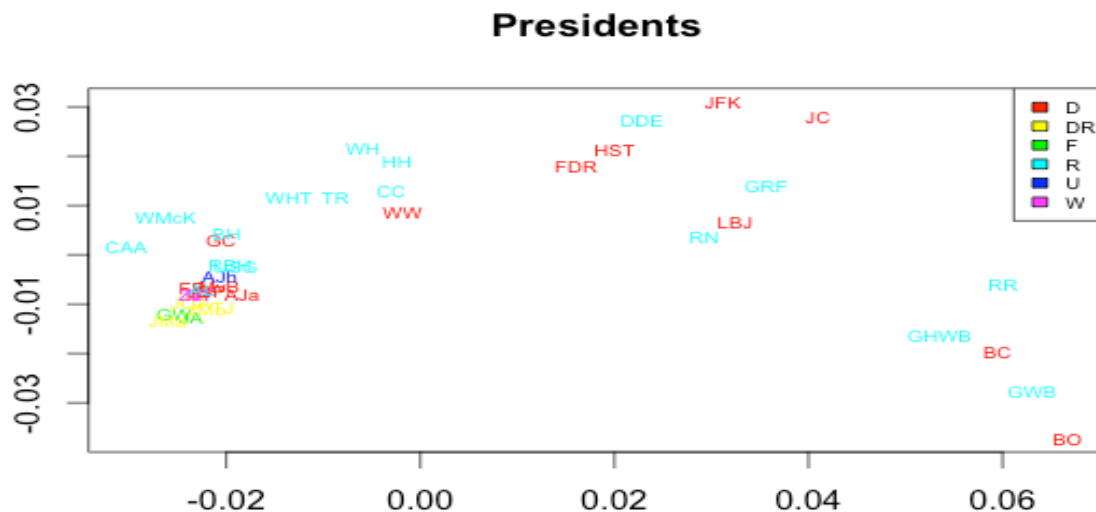


**Plot 1:** Simple plot of mds



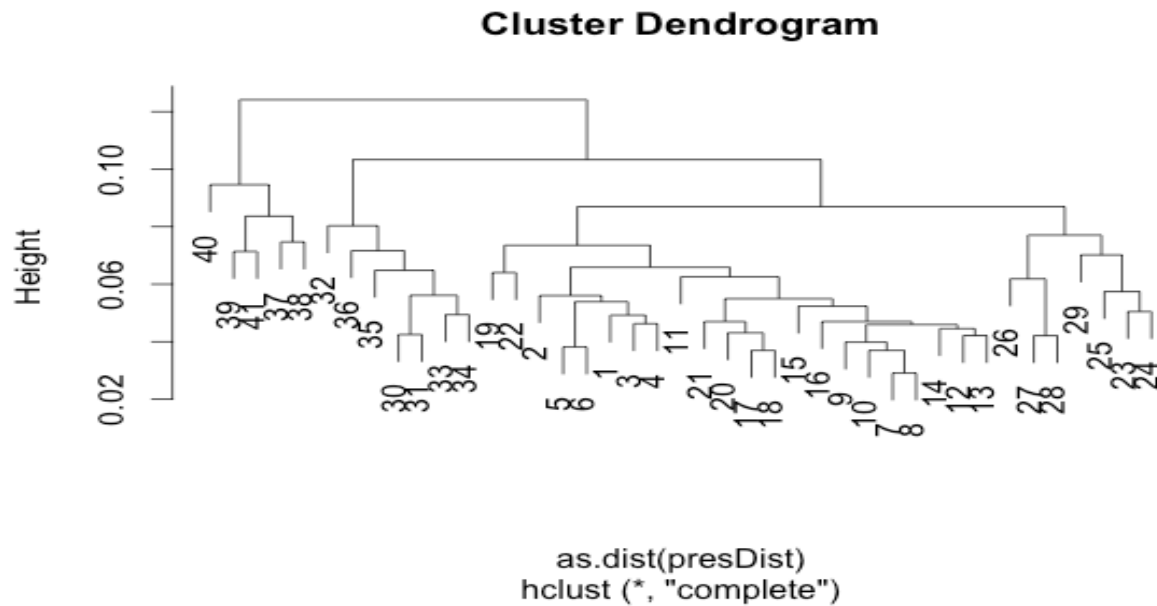
→ This plot suggests that there is some disparity between presidents in terms of the nature of their speeches

**Plot 2:** mds plot using the President's initials



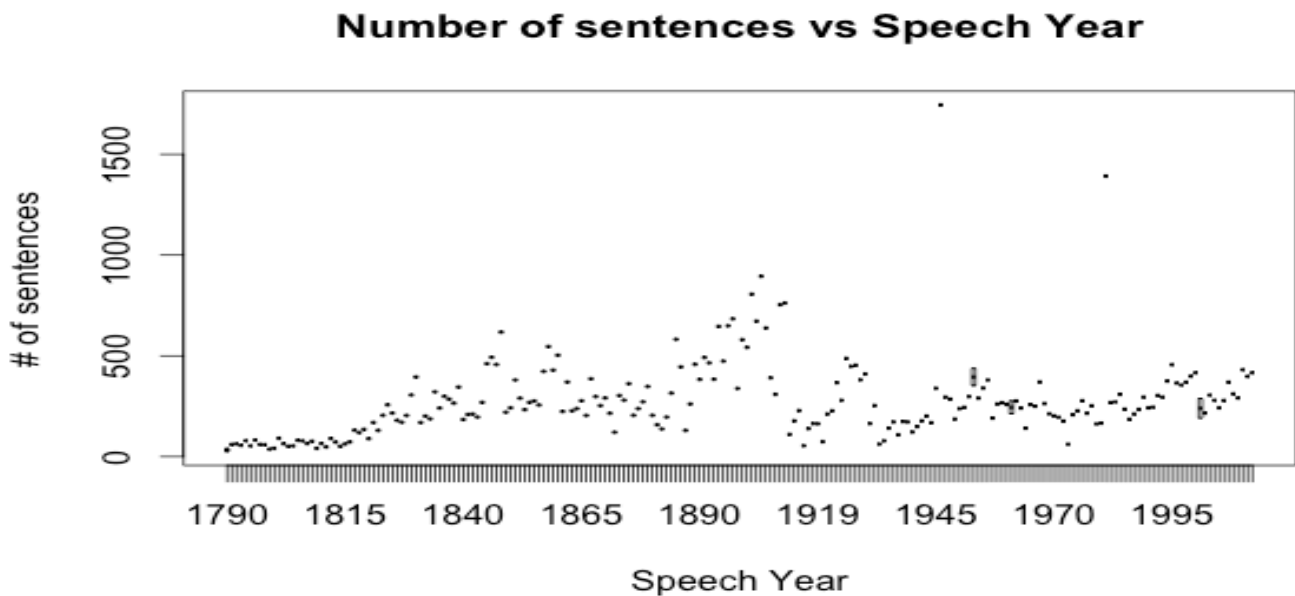
→ This detailed plot shows how at a certain time, the presidents, color coded by their political party affiliation, had similar speeches, in terms of word choice and frequency; but as time went by, the newer presidents' speeches were different in nature.

**Plot 3: Hierarchical Clustering**



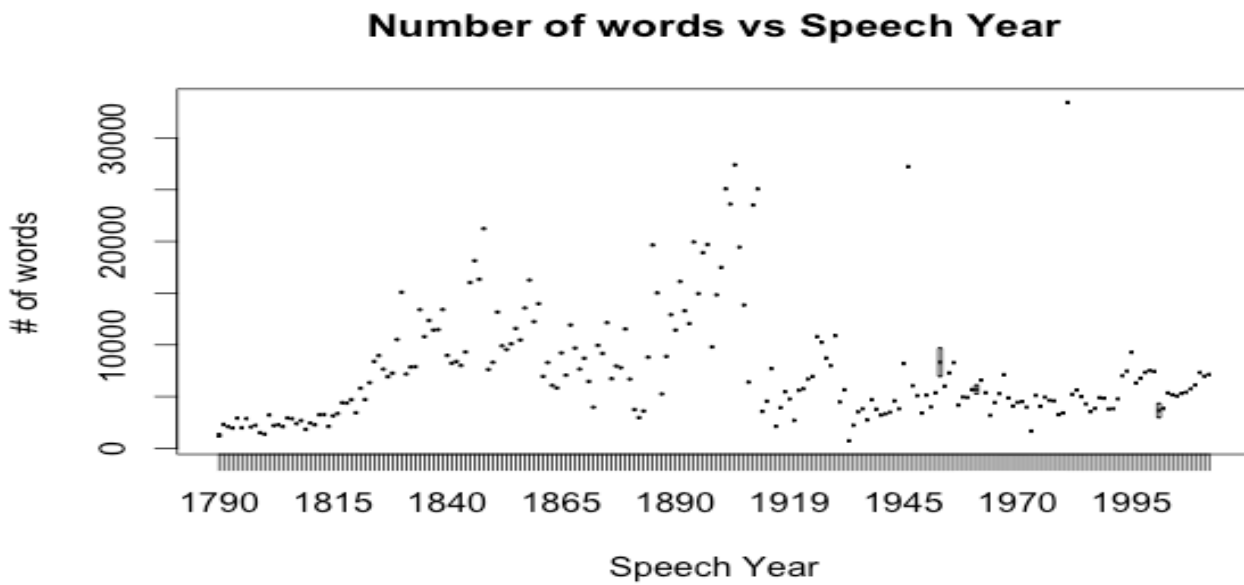
→ The height in this plot varies with each president with no definite trend. Shape slightly similar to that of the mds plot.

**Plot 4: # of sentences vs Speech Year**



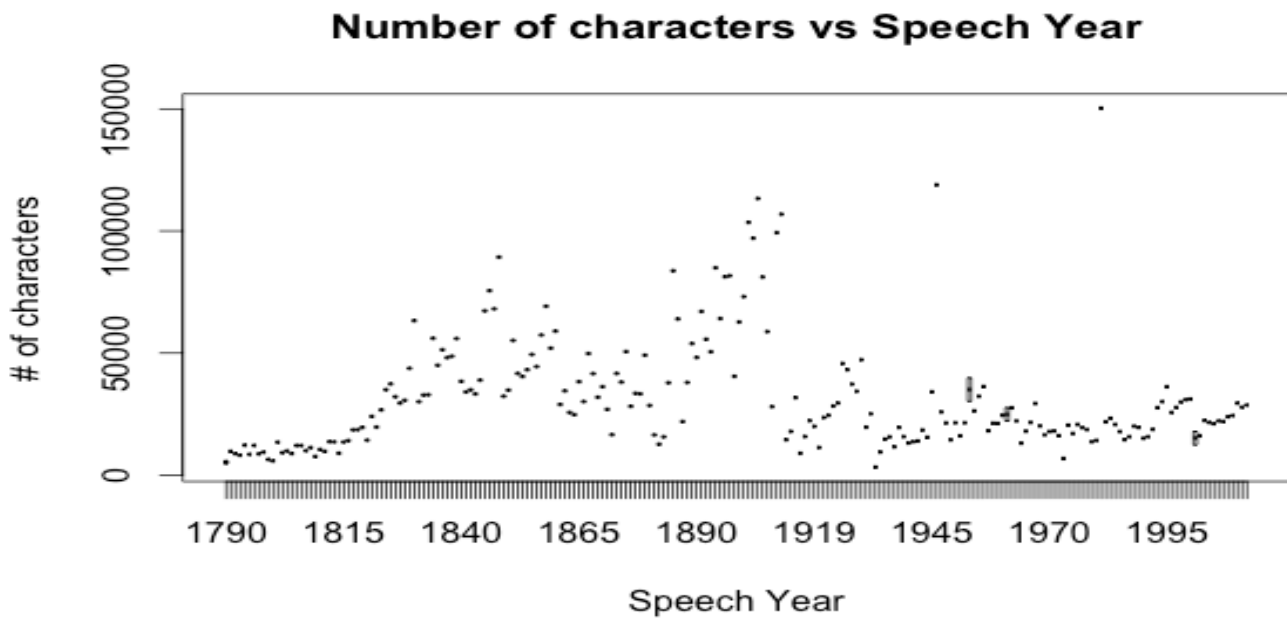
→ The number of sentences throughout the years slightly increases and then stays fairly constant, peaking in the early 20<sup>th</sup> century.

**Plot 5:** # of words vs Speech Year



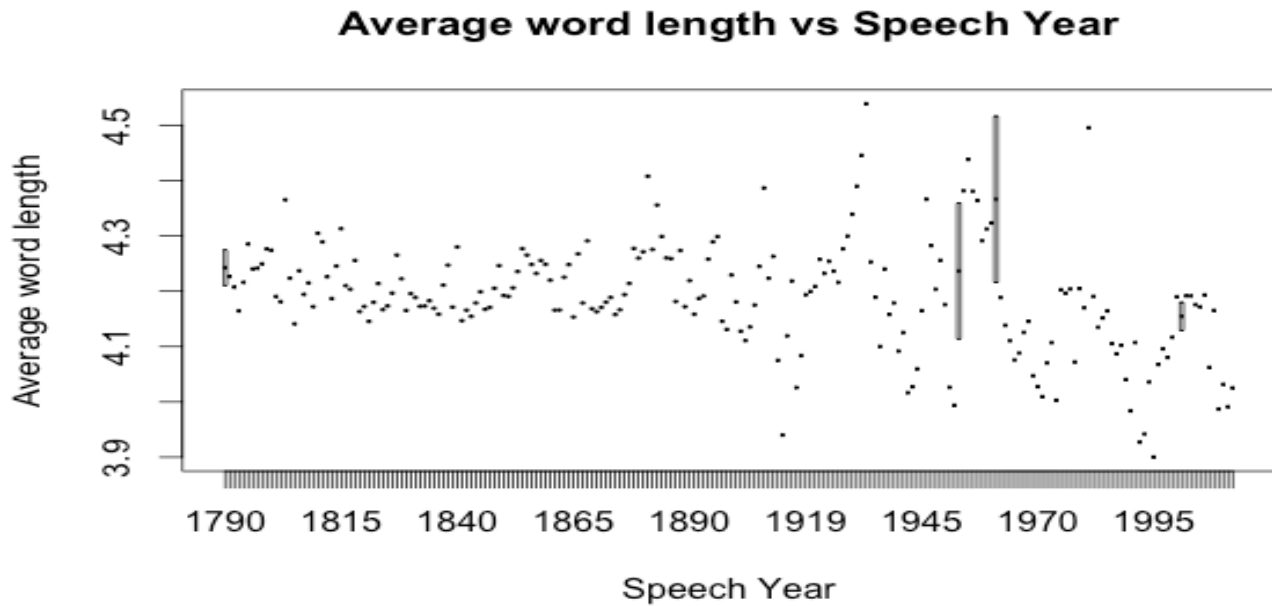
→ There is no definite trend in the number of words per speech as there are numerous ups and downs in the plot

**Plot 6:** # of characters vs Speech Year



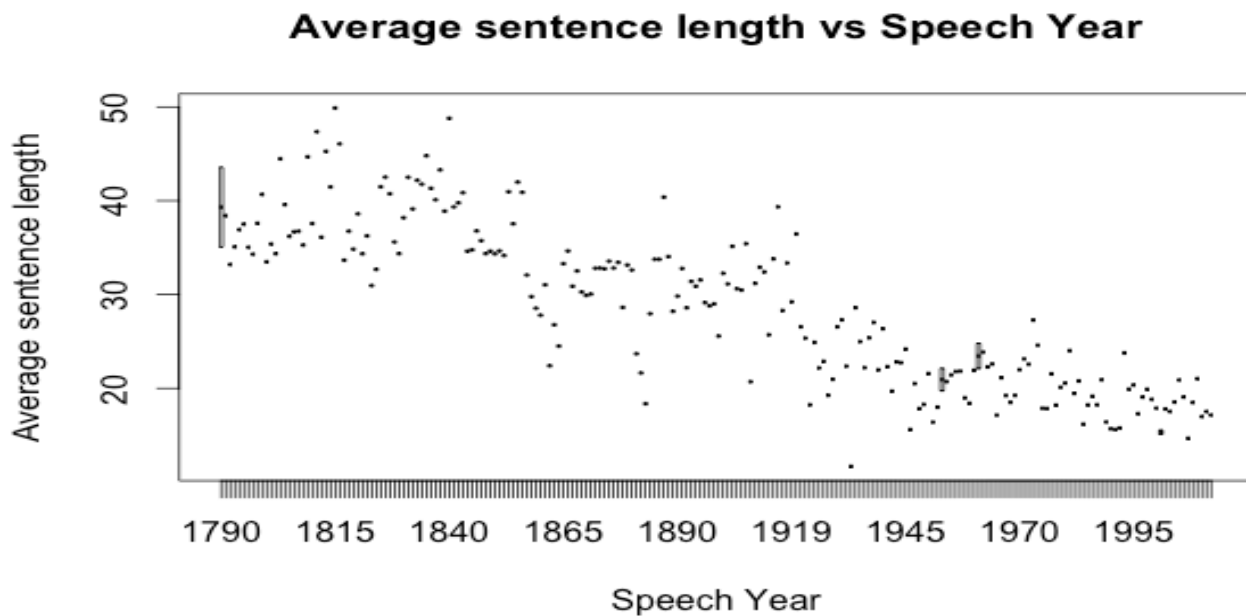
→ This plot's shape resembles the shape of the plot above, which further reiterates the lack of a definite trend with this factor over the years.

**Plot 7:** Average word length vs Speech Year



→ As years progressed, it seems like the president have used words of shorter length in their speeches.

**Plot 8:** Average sentence length vs Speech Year



→ It is clear that with time, presidents have incorporated shorter sentences in terms of words in their speeches.