Turi to pour a tette teral bytho, byth oc. Hoth to este agite to These my with the desired and the my special and the second Strice of avorte mi... neckeen unit said and

už predtým, keď na ňom pristal pri navrate z ramones Tu žil v skromnom domčeku, nie ovela priestrannejšom než letná vilka, ako jednoduchý občan. Občas sa prechádzal po gymnáziu bez liktora a bez služobníka a udržiaval styky s jednoduchými Grékmi ako so seberovnými.

Jedného dna ráno, keď zadeľoval práce, povedal len tak mimochodom, že by chcel navštíviť všetkých chorých v mestečku. Ti, čo boli v jeho blizkosti, tomu rozumeli inakšie a vydali príkaz priniesť všetkých chorých do verejnej kolonády a tam ich roztriediť podľa chorôb. Zarazilo ho to neočakávané divadlo a dlho bol na rozpakoch, čo robiť. Nakoniec však obišiel všetkých chorých a každému sa ospravedlnil za to, čo sa stalo, aj keď boli medzi nimi ľudia nízkeho postavenia a jemu úplne neznámi. Svoju tribúnsku moc použil, ako sa zdalo, len v jednom prípade — o druhých sa aspoň nehovorí. Často navštevoval školy a posluchárne učencov. Pri jednej takej návšteve strhla sa raz medzi antisofistami prudka hádka; Tiberius sa do nej zamiešal a tu ho ktosi napadol a vyčítal mu, že nadŕža druhej strane. Tiberius sa nenápadne vytratil, o chvíľu sa znovu zjavil so služobnikmi a hlásateľom, dal vyvolať človeka, ktorý ho urazil, pred svoj tribunál a dal ho uváznit.

Potom sa dozvedel, že jeho manželka Iulia bola pre

Jahko opustil".

moci matky horko-tažko dosiahol, že ho Augustus memoei noval svojim legátom na Rode, čo malo odôvodňovat noval spiritomnost v Rime a zakryt jeho hanbu. Od tych jeho nežil už len ako jednoduchý občan, ale aj ako bo čias nezir jazlivý vinník; skrýval sa na vidieku vo vnútrozemí a v hybal sa stretnutiu s mužmi, ktori sa plavili okolo ost nypai a často ho navštevovali, pretože ani jeden uradnik a case, a lebo iným poslaním nenastipil služby vincii bez toho, ze by sa nezastavil na Rode pristupili aj iné dôvody, ktoré ho ešte väčšmí prisuping vali. Ked totiž prišiel na Samos a navštivil s van. Assartin tanan da inavanga inavanga tanan navastrin tanan neviasmeno syna Gaius velmi odcudzil, a to hlavne z videl, ze sa mu crarus venni oucuozu, a to hlavne z hou svojho sprievodcu a vychovávatela Marca Lon. hou svojno spravoden a vyenovavatela Marca Loh. ktorý ho pred ním očiernil. Okrem toho upadol do poktory no pred min oriektorých centúrioch, ktorých sám dozrenia, že poslal po niektorých centúrioch, ktorých sám dozrenia, ze posici po dovolenke vracali naspät do tábora, povýšil a ktorí sa po dovolenke vracali naspät do tábora, povysu a ktori sa po tavonema vracau naspar do tábora, viacerým osobám záhadné odkazy, ktoré, ako sa zdalo, viacerym osobom zamono odancy, kore, ako sa zdalo, mali každého z nich pripraviť na prevrat. Keď mu Au-

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Philosophia South St. Oktob Day William St.

nesse also nanomit, ani sa len neglior

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An analysis of the works of Agatha Christie

Kathleen Wang

Background

- 66 detective novels
- 14 short story collections
 - 153 short stories
- 16 plays
- 3 poems
- 2 autobiographies



Background

 Vocabulary Changes in Agatha Christie's Mysteries as an Indication of Dementia: A Case Study

Ian Lancashire and Graeme Hirst

"... both indefinite words and repetitions occur significantly more often in the language of Alzheimer's patients than in that of healthy people of similar age and level of education."

Problem Statements:

- Can I replicate the findings in the paper?
- Are there other features in the text that are correlated with the age at which the text was written?
- Can I build a model to predict when a piece of Christie's text was written?

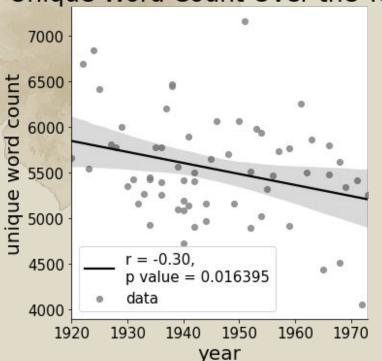
Data

- 60 detective novels from Internet Archive
- Authors used 14 novels
- Cleaning:
 - Extract copyright year
 - Remove forewords/intros
 - Remove punctuation

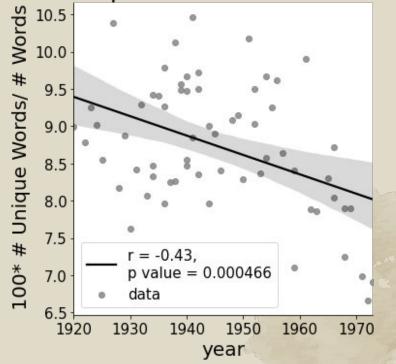
Outlier

- "Passenger to Frankfurt has the largest vocabulary of all the works we analyzed."
- "Conceived, written, and researched in her early to mid 70s ... draws on books by political thinkers that she requested of her publishers. Much of the vocabulary in Passenger to Frankfurt comes from her reliance on these sources."

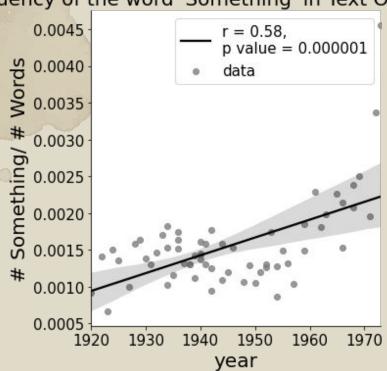
Unique Word Count Over the Years



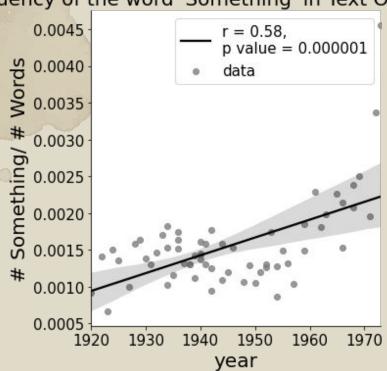
% Unique Words Over the Years

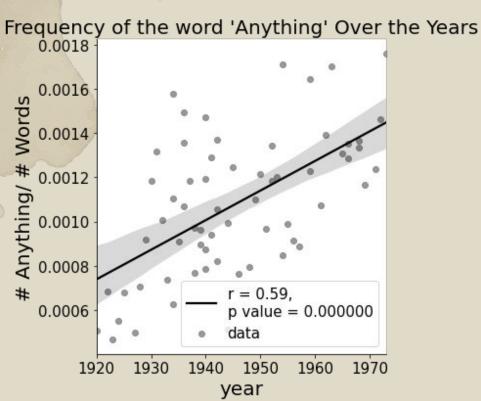


Frequency of the word 'Something' in Text Over the Years

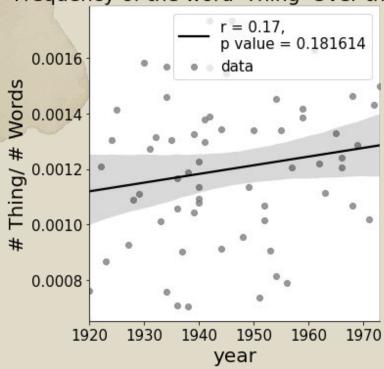


Frequency of the word 'Something' in Text Over the Years

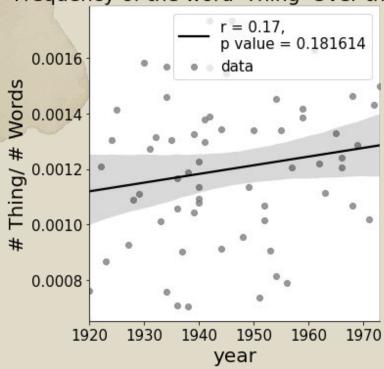




Frequency of the word 'Thing' Over the Years

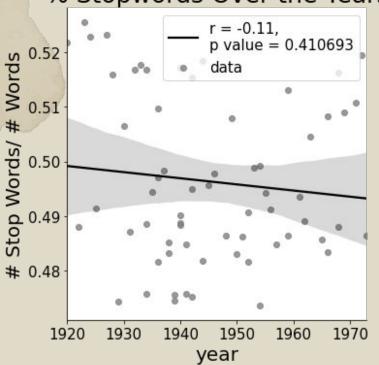


Frequency of the word 'Thing' Over the Years

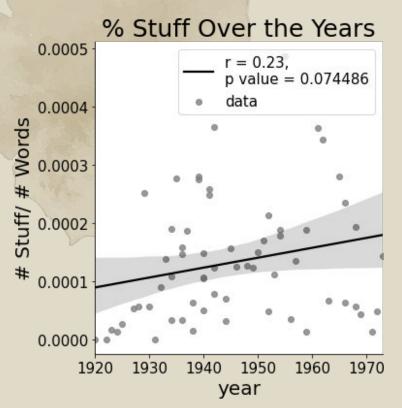


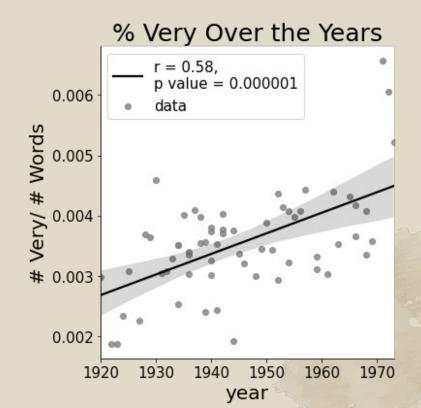
Further Analysis: Stopwords

% Stopwords Over the Years

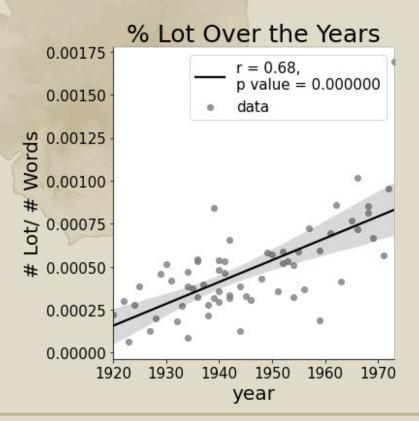


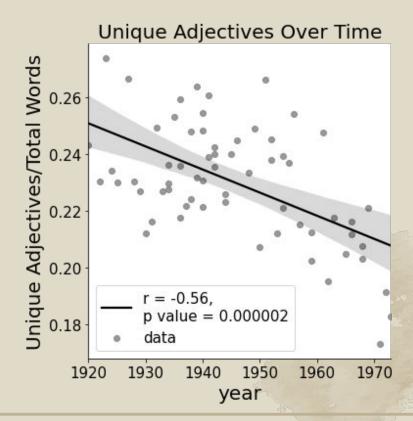
Further Analysis: Other Vague Words





Further Analysis: Other Vague Words





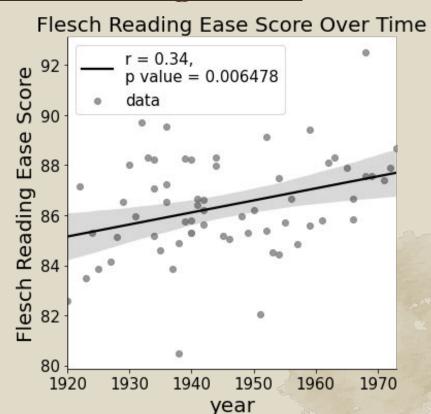
Further analysis: Flesch Reading Score

$$206.835 - 1.015 \left(\frac{\text{total words}}{\text{total sentences}} \right) - 84.6 \left(\frac{\text{total syllables}}{\text{total words}} \right)$$

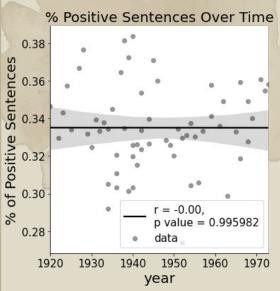
Score	School level (US)	Notes
100.00-90.00	5th grade	Very easy to read. Easily understood by an average 11-year-old student.
90.0–80.0	6th grade	Easy to read. Conversational English for consumers.
80.0-70.0	7th grade	Fairly easy to read.
70.0–60.0	8th & 9th grade	Plain English. Easily understood by 13- to 15-year-old students.
60.0-50.0	10th to 12th grade	Fairly difficult to read.
50.0-30.0	College	Difficult to read.
30.0–10.0	College graduate	Very difficult to read. Best understood by university graduates.
10.0-0.0	Professional	Extremely difficult to read. Best understood by university graduates.

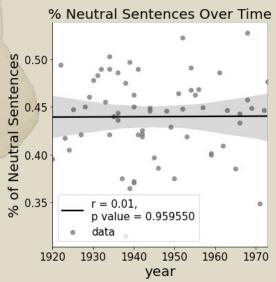
Further analysis: Flesch Reading Score

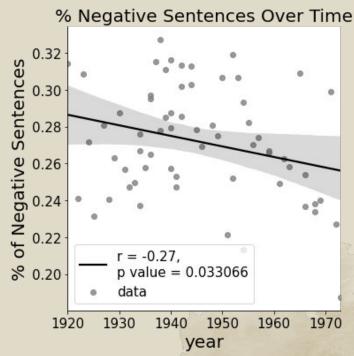
Score	School level (US)	
100.00-90.00	5th grade	
90.0-80.0	6th grade	
80.0-70.0	7th grade	
70.0–60.0	8th & 9th grade	
60.0-50.0	10th to 12th grade	
50.0-30.0	College	
30.0-10.0	College graduate	
10.0-0.0	Professional	



Further analysis: Sentiment Analysis







Modeling:



Model:

Lasso Regression

Train Score: 0.846

Test Score: 0.727

Baseline:

(predicting the average year: 1941)

Train Score: 0.0

Test Score: 0.0

predictions	actual	difference
		- 1
1976	1973	3
1936	1936	0
1943	1956	13
1945	1949	4
1929	1935	6
1936	1931	5
1930	1927	3
1925	1922	3
1932	1932	0
1934	1941	7
1943	1961	18
1946	1940	6
1944	1955	11
1943	1954	11
1932	1944	12
1952	1963	11

Conclusions:

 There is a decline in Christie's vocabulary recall

 Model would be better with journal entries if you wanted to monitor cognitive decline

