

# Zeta Analysis

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# STYLOMETRY AND SHAKESPEARE

■ ■ ■  
■ ■ ■  
■ ■ ■  
3,000 words  
3,000 words  
3,000 words  
etc.

How many of the slices contain  
the word «Gentle»?

Shakespeare's works (as a single string of text)

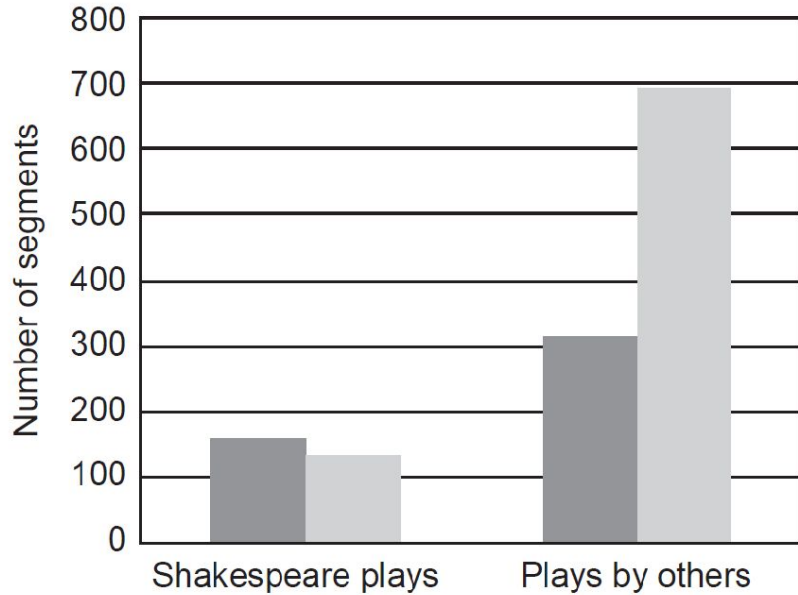


**Shakespeare,  
Computers, and the  
Mystery of Authorship**

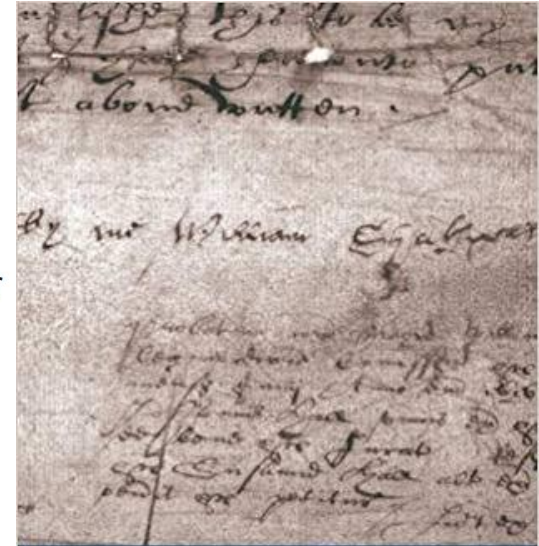
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# STYLOMETRY AND SHAKESPEARE



- Segments in which 'gentle' appears
- Segments in which 'gentle' does not appear



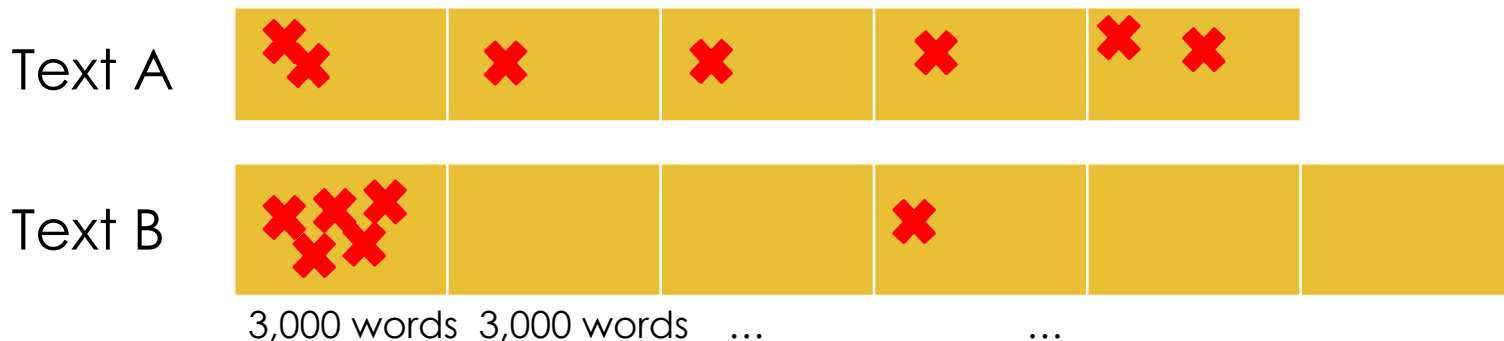
## Shakespeare, Computers, and the Mystery of Authorship

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# THE “ZETA” METHOD

Pick up a word:  
«gentle» (for example)



- **Count** in how many slices of the text the word «gentle» appears
- **Calculate** the proportion  
Text A: 1 (100%); text B: 0.33 (33%)
- **Subtract** the two values  
(so the word «gentle» has Zeta = 0.66 for Text A)
- **Repeat** the operation for all the words in the two texts

# With R

Stylo package

<https://github.com/computationalstylistics/stylo>

