

Rolling through the text

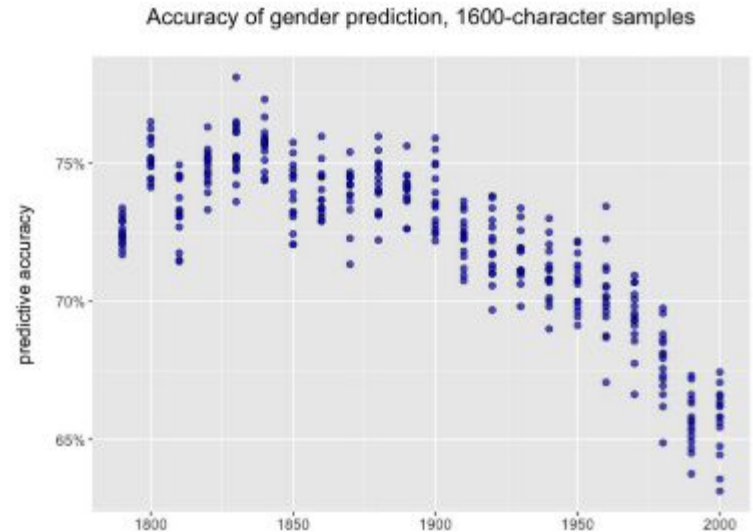
Sequential stylometry

ESU 24 @ Cluj-Napoca
Jeremi Ochab, Artjoms Šeļa



Sidenote: “perspectival classification”

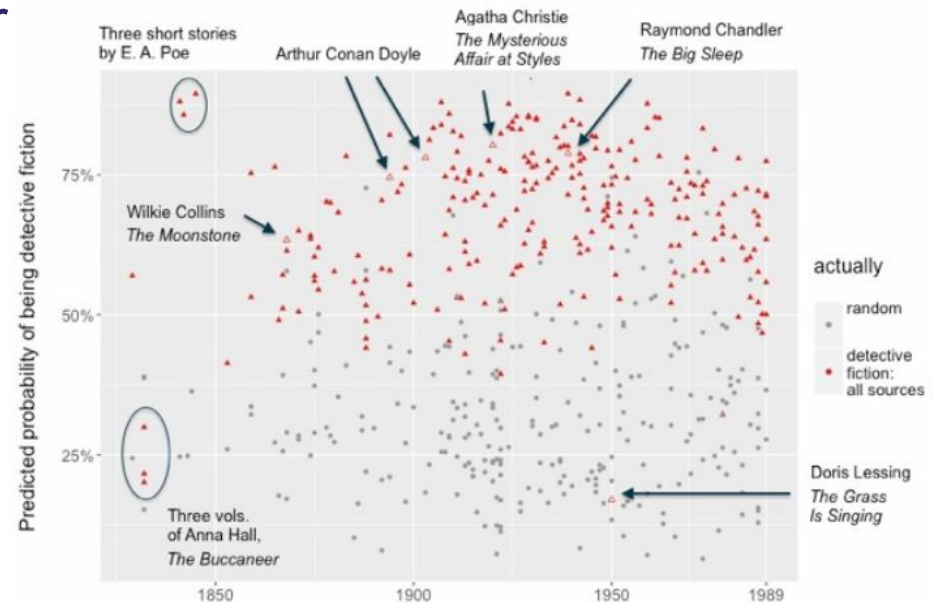
- Not all classifications are for improving accuracy
- ‘Labels’ are cultural conventions
- We can interrogate them



Underwood et al. 2019. Transformations of Gender...

Sidenote: “perspectival classification”

- Not all classifications are for improving accuracy
- ‘Labels’ are cultural conventions
- We can interrogate them
- ‘Wrong’ classifications is indicative



Underwood 2017. Lifecycle of genres

Text-as-sequence

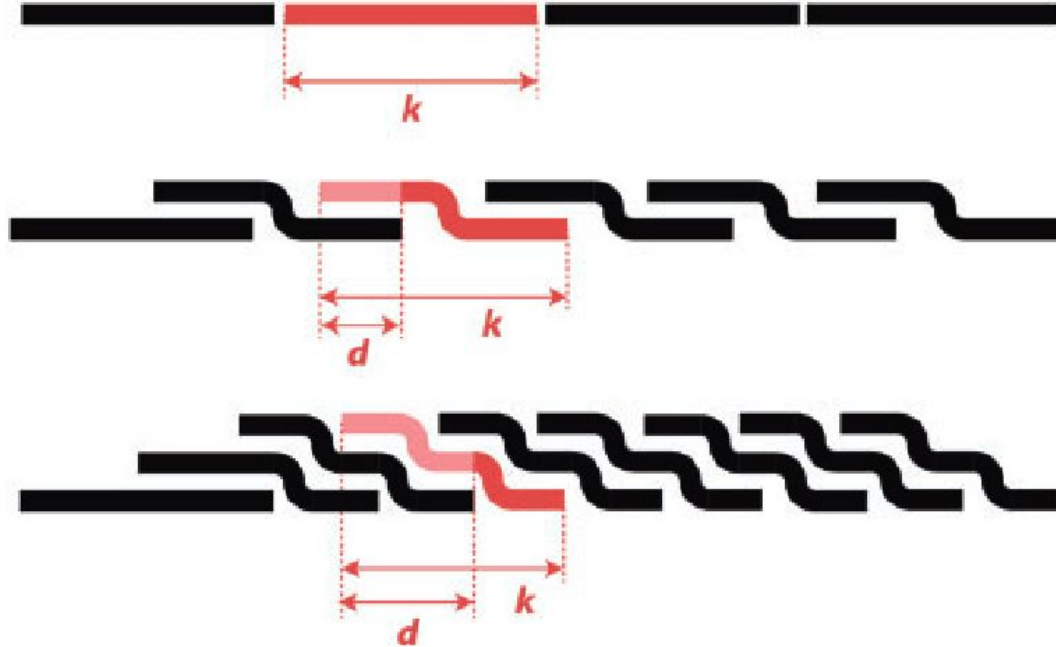
- Heterogeneity
- Multiple authorship
- Editor's signal (?)
- Any kind of textual invasion / injection

Rolling stylometry

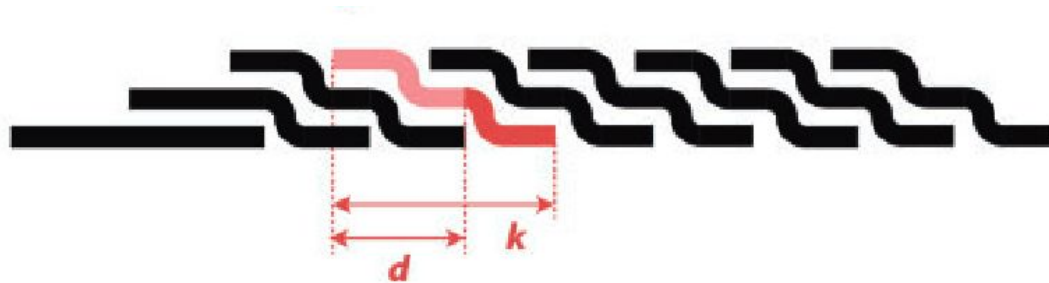
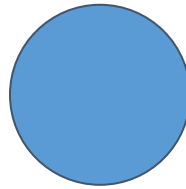
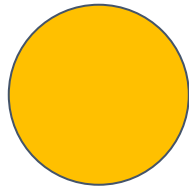
Maciej Eder

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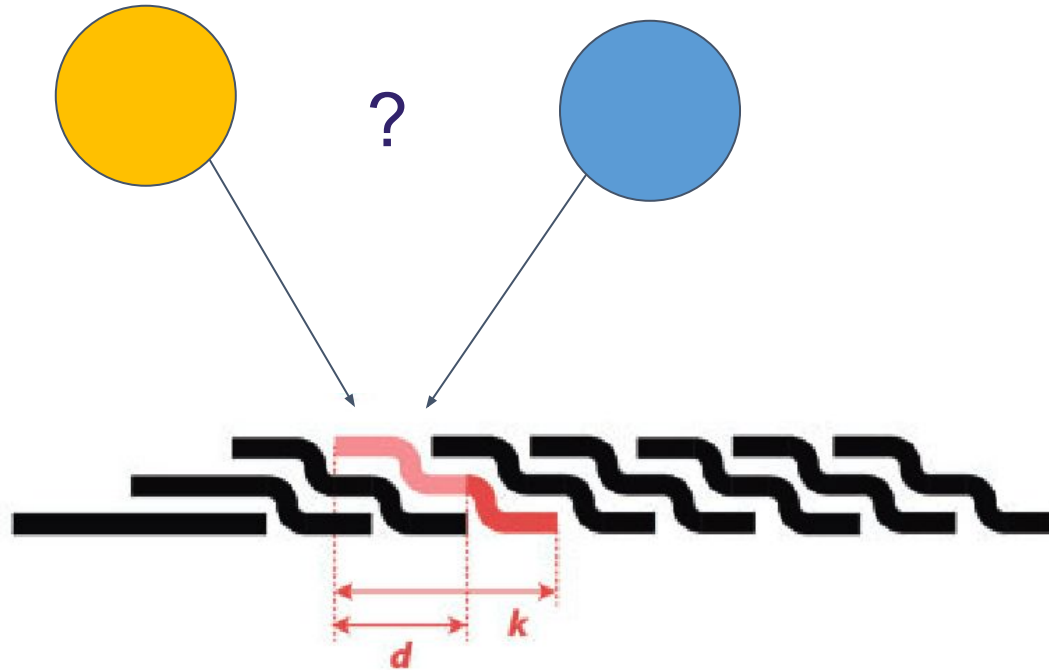
Chunking & overlapping samples



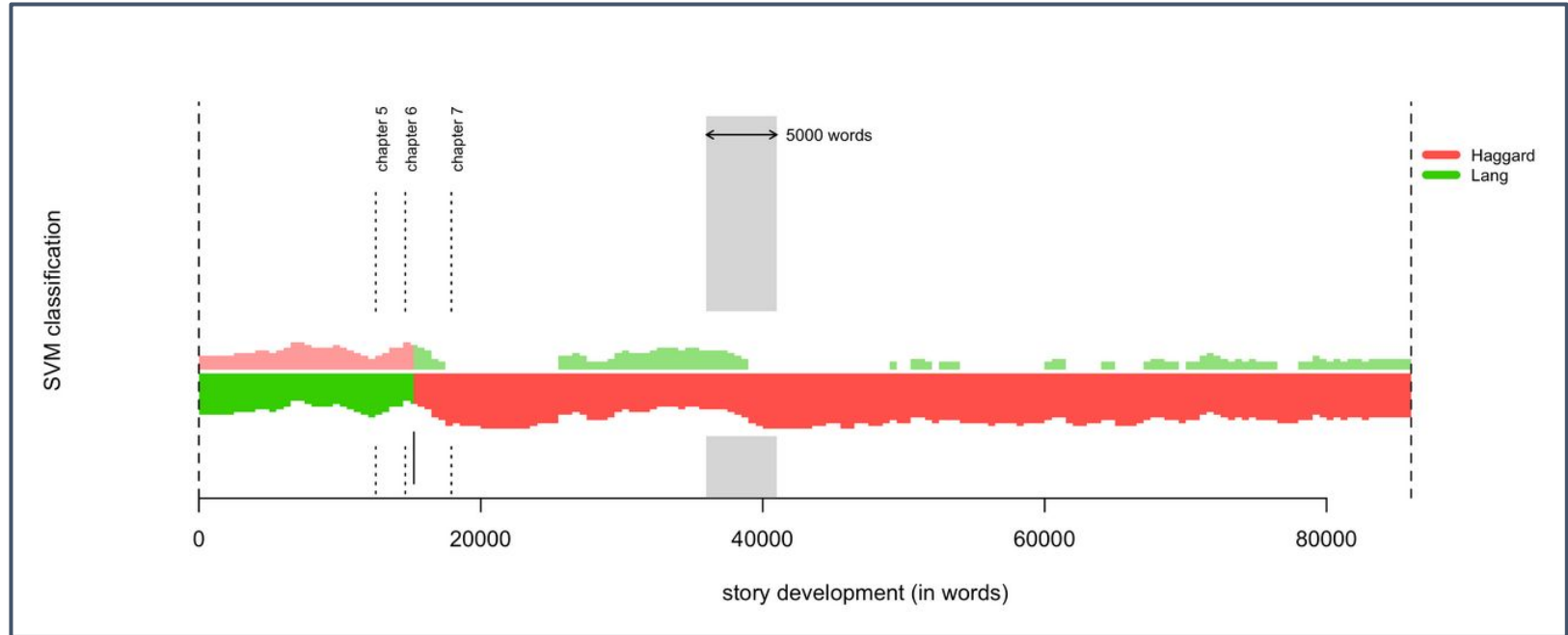
Classification of sequential chunks



Classification of sequential chunks



Classification of sequential chunks

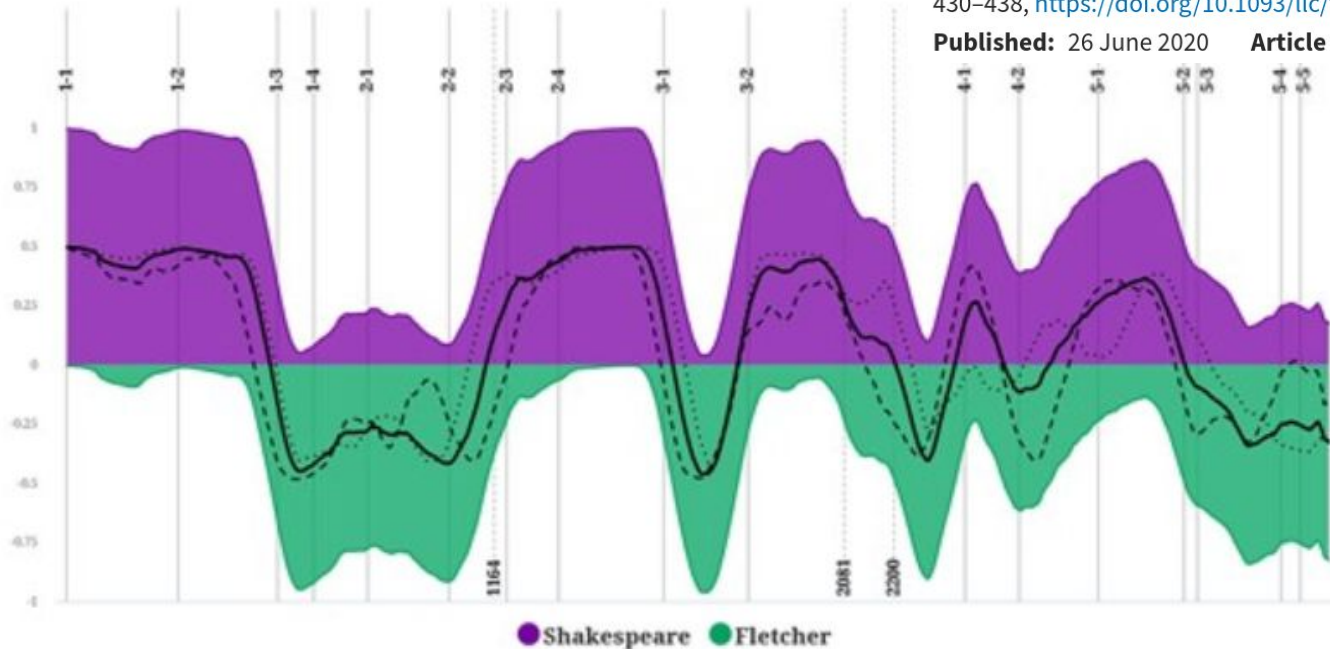


Relative contributions of Shakespeare and Fletcher in *Henry VIII*: An analysis based on most frequent words and most frequent rhythmic patterns

Petr Plecháč ✉

Digital Scholarship in the Humanities, Volume 36, Issue 2, June 2021, Pages 430–438, <https://doi.org/10.1093/llc/fqaa032>

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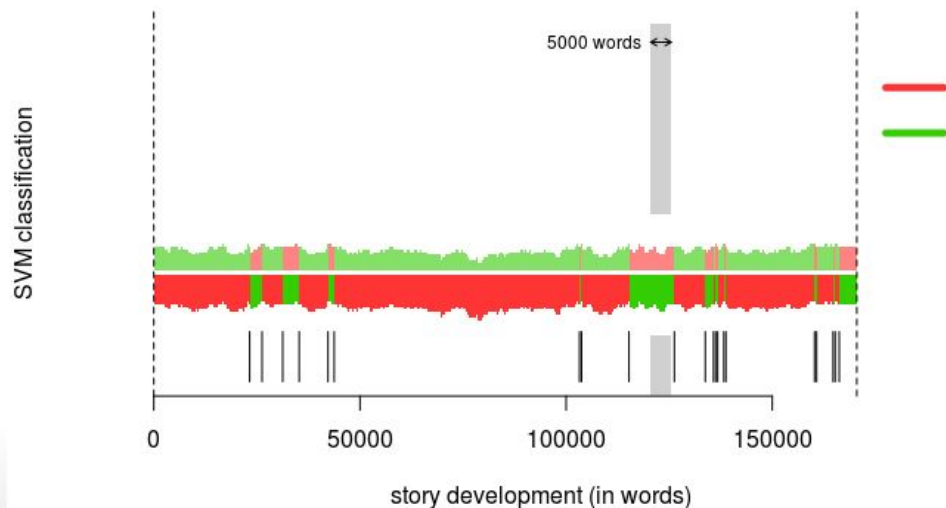
rolling.classify()

The function doesn't have GUI, so it takes tinkering with arguments to run it: In this example we have two texts of Ward and two texts of Woolf as **reference set** and *Night and day* novel (Woolf) in **test set**

```
rolling.classify(analyzed.features="w",  
                 ngram.size = 1,  
                 mfw=500,  
                 slice.size = 5000,  
                 slice.overlap = 500  
                 classification.method="svm")
```

rolling.classify()

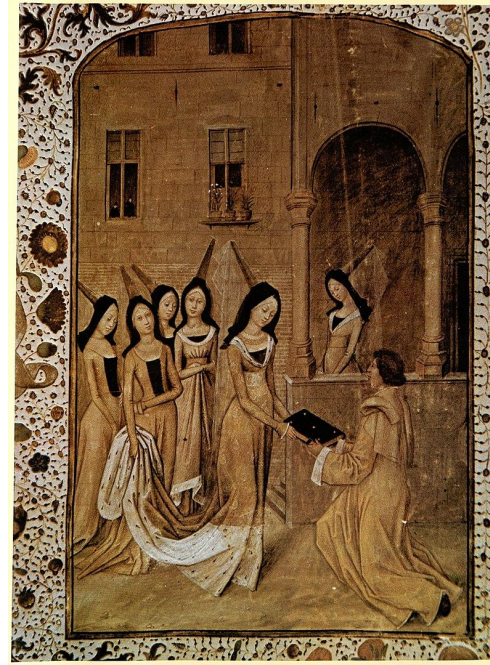
The stripe on the bottom is colored according to classification results (red - Ward, green Woolf). A significant portion of text is actually attributed to Ward!



Roman de la Rose (c. 1230-1275)



Guillaume de Lorris



Jean de Meun