"Did Shakespeare write the plays attributed to him?"

(from Amir Andwari, Stephanie Collins, Ellen Roberts, and Andressa Gomide)

Narrowing the question, and research aim

- HUGE question
- Shakespeare in relation to his contemporaries?
- Test some existing collaborations?
- Effects of genre?
- Relationship between different EME plays based on 50 most common bigrams

Method (1)

- Unsupervised method
 - Considered training texts
 - Time restraint
 - Principal Component Analysis (PCA) based on top 50 frequent Bigrams

Corpus build

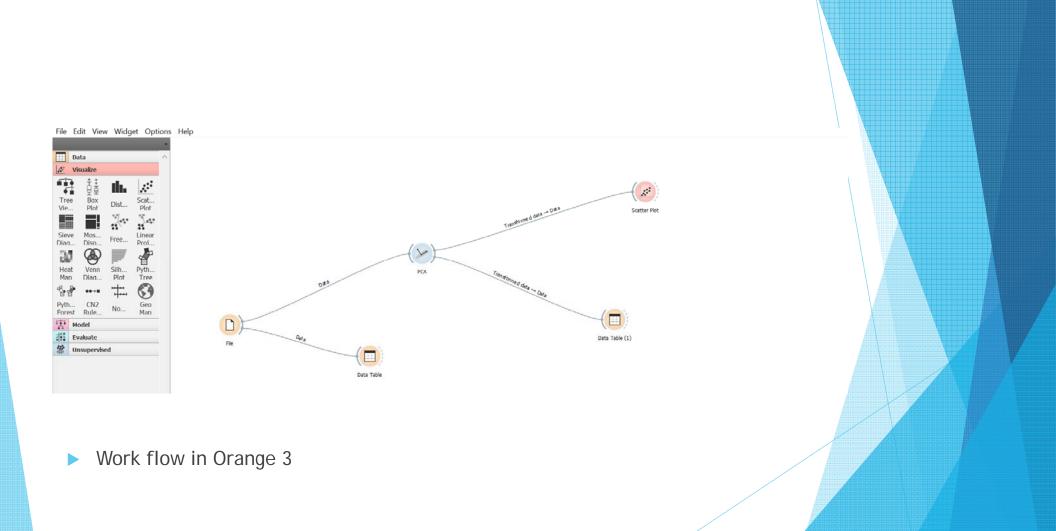
- Size?
 - Visualizing English Print (VEP), Expanded Drama 1660 (1,292 texts)
 - English Verse Drama (556 texts)
- Texts?
 - ► All of EME drama?
 - Professional plays?
- Issues!



Method (2)

- Very experimental!
 - Use of R
 - Coding and software issues
 - Use of AntConc
 - ► Too much data
 - ► Use of LancsBox
 - Lack of N-Grams?
 - ► Use of Orange3
 - Easy to use!



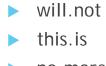


50 Bigrams used:

- ▶ i.am
- ▶ i.will
- in.the
- of.the
- to.the
- ▶ to.be
- my.lord
- i.have
- that.i
- you.are
- ► it.is
- ▶ of.my
- ▶ and.i

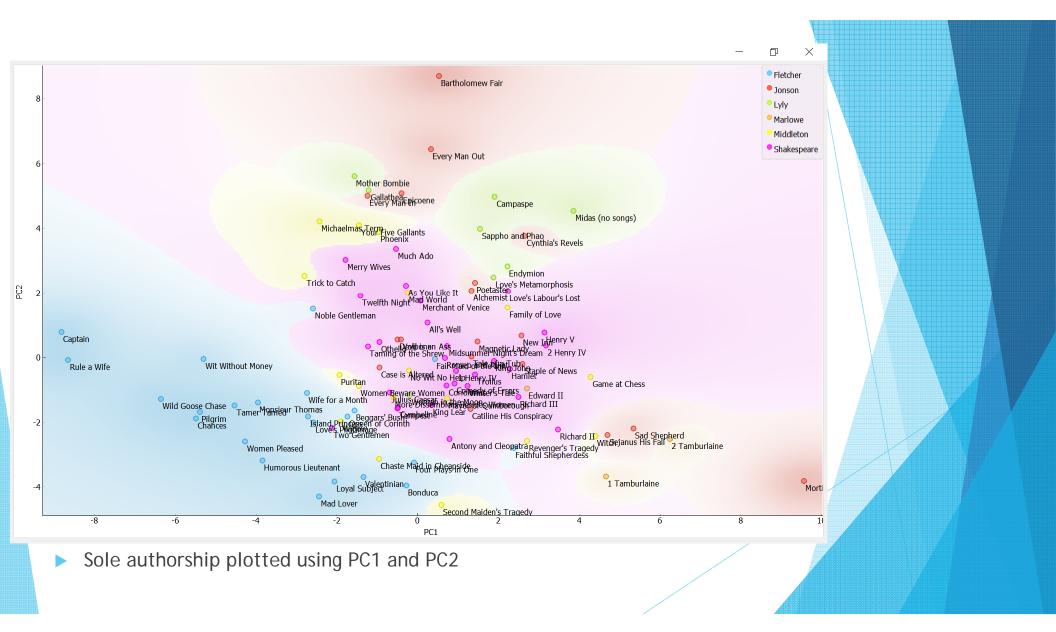
- i.haueall.the
- ▶ of.a
- ▶ i.know
- ▶ i.would
- ▶ if.you
- ▶ of.your
- i.must
- ▶ in.my
- and.the
- ▶ i.shall
- n.a
- ▶ is.a

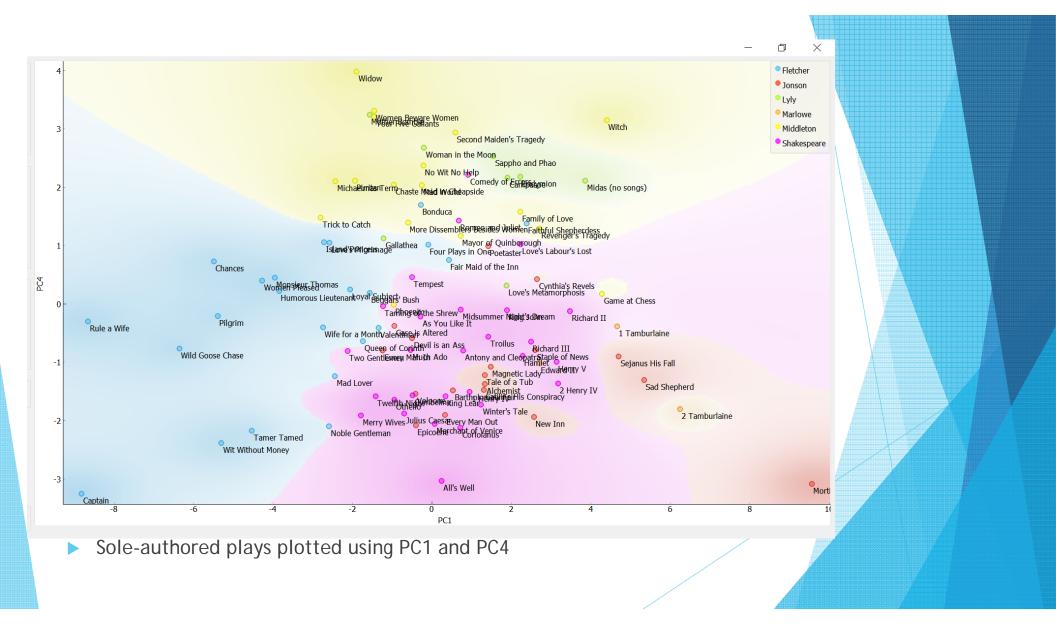
- you.shall
- for.the
- as.i
- ▶ is.the
- ▶ if.i
- shall.be
- ► to.my
- with.a
- such.a
- let.me
- ▶ of.his
- by.the
- with.the



- no.more
- ► to.me
- ► to.your
- he.is
- out.of
- me.to
- my.selfe
- ▶ to.make
- ▶ for.a

Results: D \times 10 0 Fletcher Jonson Lyly Marlowe Middleton Other 0 Shakespeare ğ • -7 -6 -2 -4 8 6 PC1 All EME plays in the corpus plotted using PC1 and PC2





Conclusions:

- Very experimental study (based on methodology)
- Learnt a lot about different methods
- Clustering of authors seems to occur, even in this simple study

