



# **Digital Literary Stylistics**

### Anne BANDRY-SCUBBI

# Women's Novels 1750s-1830s and the Company They Keep: A Computational Stylistic Approach





'what corpus stylistics can do beyond the obvious provision of quantitative data, is help with the analysis of an individual text by providing various options for the comparison of one text with groups of other texts to identify tendencies, intertextual relationships, or reflections of social and cultural contexts'.

Michaela Mahlberg

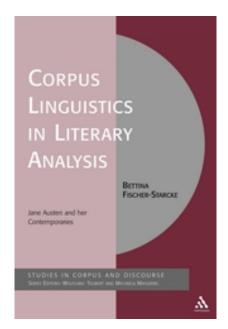
'Corpus Stylistics: Bridging the Gap between Linguistic and Literary Studies', in *Text, Discourse and Corpora: Theory and Analysis*, by Michael Hoey, Michaela Mahlberg, Michael Stubbs, Wolfgang Teubert (London: Continuum, 2007), p.221.

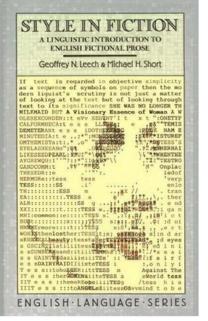


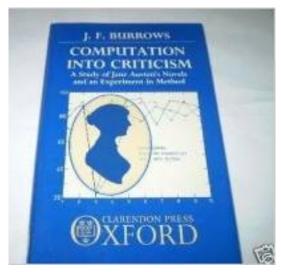
Corpus Stylistics and Dickens's Fiction

Michaela Mahlberg

ROUTLEDGE







# **Chawton Novels on line**



 34 "domestic dramas where heroines blush, swoon, or face unbearable social ostracism because of minor breaches of decorum"

The English Novel 1770-1829, Peter Garside, James Raven and Rainer Schöwerling eds (OUP, 2000), I p. 28

 "the 'feminine' novel—domestic comedy, centring on a heroine, in which the critical action is an inward progress towards judgment"

Marilyn Butler, Austen and the War of Ideas p.145

## → CHAWTN34: 3.9 million words 38% pre 1800, 62% post1800

## • CHAWTN34 ⊂ W42

• Haywood, Burney, Edgeworth, Austen, Ferrier

# → W42: 5.8 million words 41% pre 1800, 51% post1800 → CHAWTN34: 3.9 million words 38% pre 1800, 62% post1800

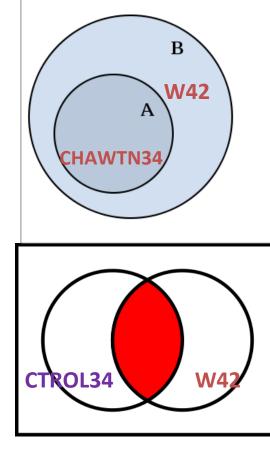
# CHAWTN34 CW42 1769-1830 1752-1834

### • **CTROL34** : 5.4 million words

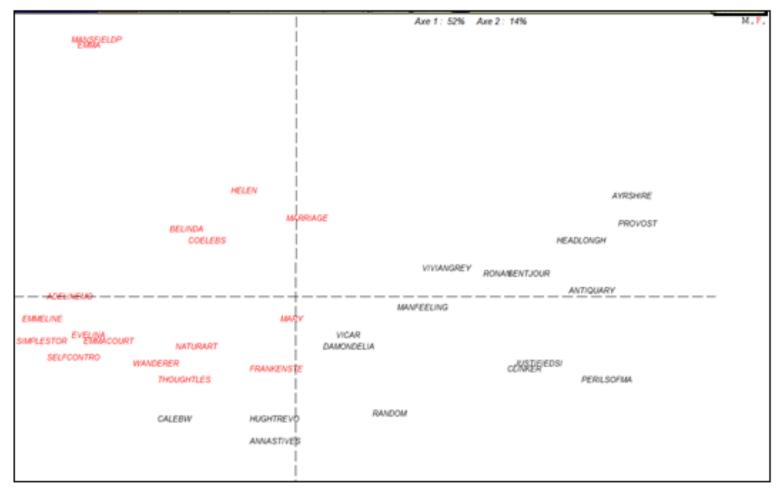
- 1748-1834
- -41% pre1800
- 44% male

http://fr.wikipedia.org/wiki/Alg %C3%A8bre\_des\_parties\_d %27un\_ensemble#mediaviewer/

- Clive Probyn's English Fiction of the 18th Century, 1700-1789 and Gary Kelly's English Fiction of the Romantic Period 1789-1830 (Longman 1987, 1990)
- <u>http://www.gutenberg.org/</u>







#### Figure 2– lexical connection on tokens for CNTROL34 (Principal component analysis, Hyperbase) Titles in red by women, in black by men

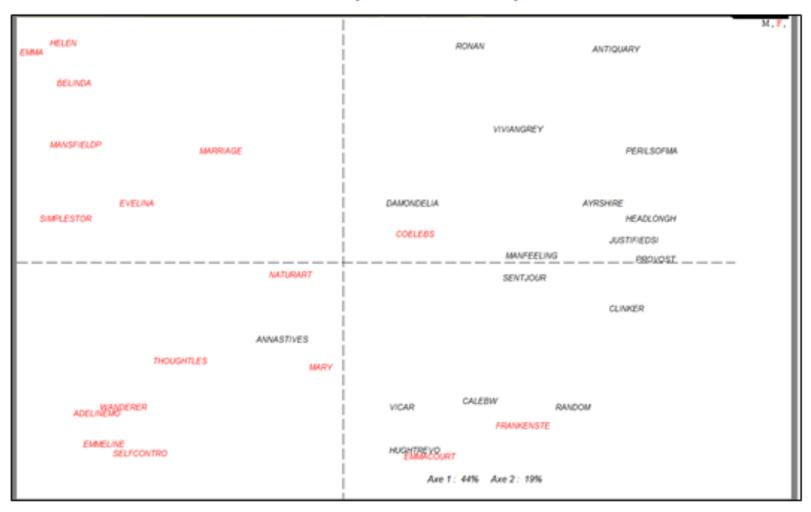


Figure 3 – Words whose relative frequency is higher in texts written by female authors than by male authors (CNTROL34): top of the 'positive specificity' list established by *Hyperbase* (left) exported into *Excel* (right)

(326 words in all, 266 without names)

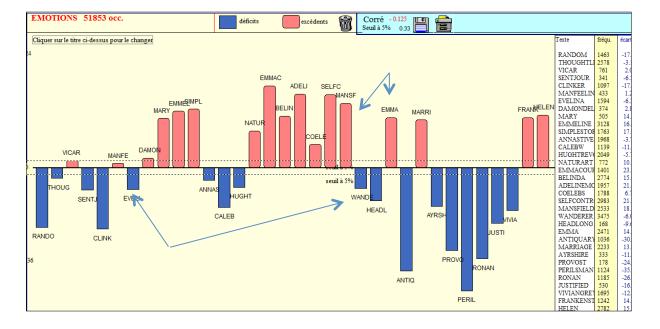
			INCOMENTS AND DOOLDER
écart	corpus	texte n	ot HIERAR POSITIF
37.58	1529	1523	helen 🔺
37.58	1497	1496	emmeline
37.58	1252	1252	adeline —
37.58	1246	1246	delacour
37.58	1219	1218	cecilia
37.58	1153	1128	ellis
37.58	1118	1117	juliet
37.58	1016	1016	delamere
37.58	977	976	emma
37.58	971	968	fanny
37.58	949	949	belinda
37.58	934	934	montreville
37.58	924	924	betsy
37.57	56675	45923	her
37.57	43315	36227	she
37.57	9615	7876	lady
37.57	8196	6819	miss
37.57	6937	5803	mrs
37.57	4146	3588	herself
37.57	2217	2121	laura
37.39	41516	26211	you
36.03	3792	2999	cried
35.57	773	773	harleigh
35.41	110230	66123	-
32.70	667	667	davenant
32.61	664	664	hervey

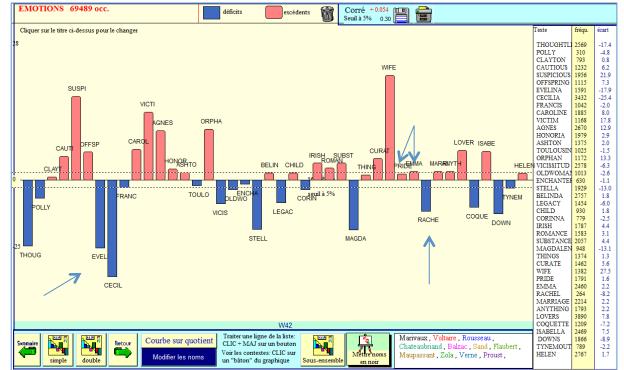
		Female		
	CNTROL34	authors	56%	
	56 675	45 923	81%	her
	43 315	36 227	84%	she
	9 615	7 876	82%	lady
	8 196	6 819	83%	miss
	6 937	5 803	84%	mrs
	4 146	3 588	87%	herself
	41 516	26 211	63%	you
	3 792	2 999	79%	cried

\_\_\_\_\_

Figure 4 – Words whose relative frequency is lower in texts written by female authors than by male authors (CNTROL34): top of the 'negative specificity' list established by *Hyperbase* (67 words in all)

	corpus	texte	mot I	HERAR NEGATIF
	5 2172			
-37.5	5 891	35 4	14774	a
-36.4	9 464	68 2	2547	his
-35.6	57 1412	241 7	72959	of
-35.3	39 58			
-33.6	59 1388	322 7	71933	and
-29.4	0 101	04	4347	we
-28.5				master
-24.7	75 71	34	3050	man
-21.7	78 20			
-19.4	15 30	13	1195	old
-18.9	98 11	.25	340	fellow
-18.8	89 691			
-17.9	94 258			
-17.7	17 41	157	1791	us
-16.3	30 45	539	2021	like
-12.7	18 17	151	723	three
-12.1				country
-12.1	1 153	300	7807	an
-11.8				gentleman
-11.8	30 139	971	7115	they
-11.2	2 13	339	550	captain
-10.9	97 277			
-10.6	51 536	544 2	28678	he
-10.5				there
-10.2	26 199	927 1	10398	on
-10.1	16 10			
-10.1	1 9			
-9.9	96 11	19	463	god

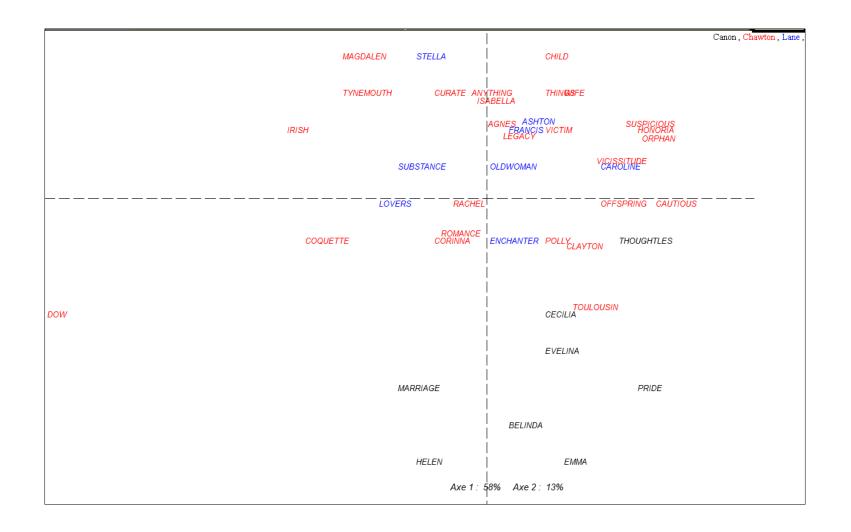




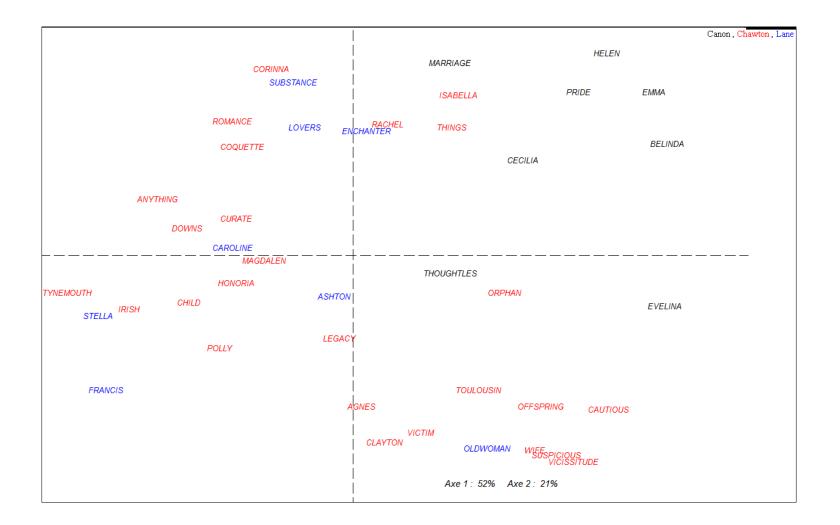
#### CTROL34

W42

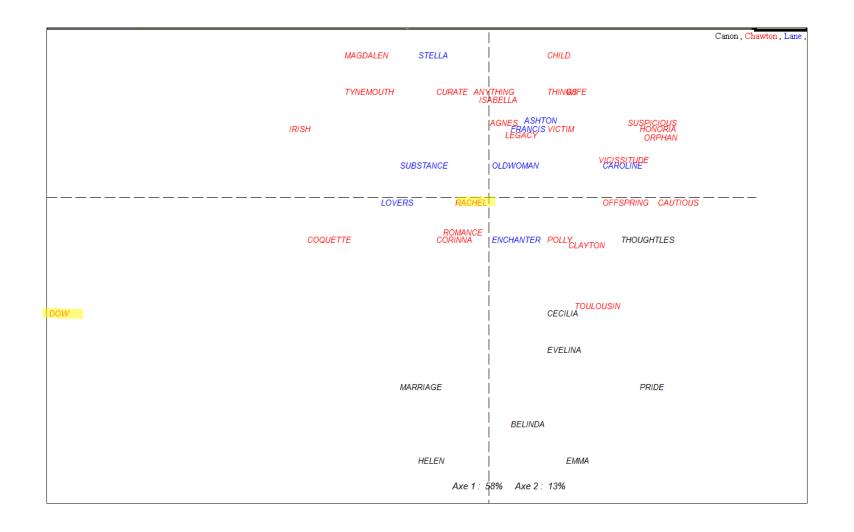
#### Lexical connection on types in W42 (*Hyperbase*) Canonical novels in black, Minerva novels in blue, non-Minerva Chawton novels in red



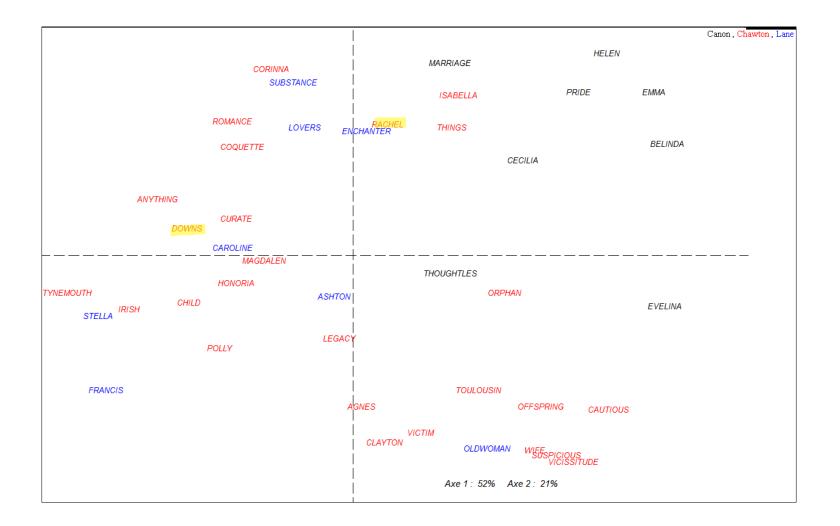
#### Lexical connection on tokens in W42 (*Hyperbase*) Canonical novels in black, Minerva novels in blue, non-Minerva Chawton novels in red



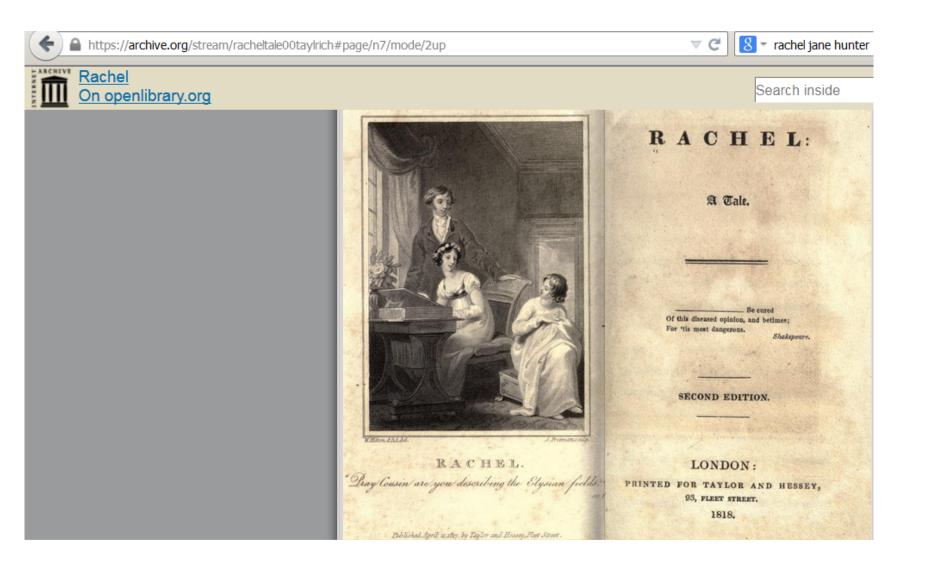
#### Lexical connection on types in W42 (*Hyperbase*) Canonical novels in black, Minerva novels in blue, non-Minerva Chawton novels in red



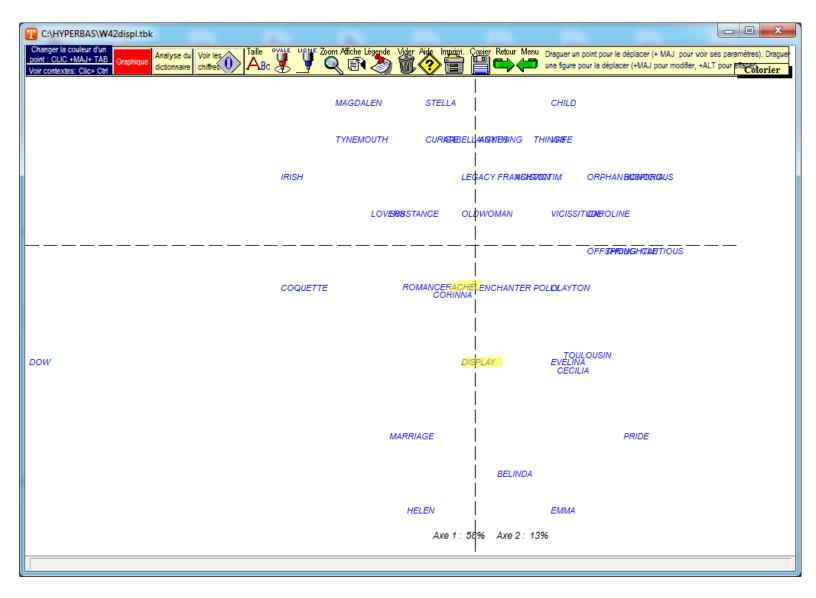
#### Lexical connection on tokens in W42 (*Hyperbase*) Canonical novels in black, Minerva novels in blue, non-Minerva Chawton novels in red



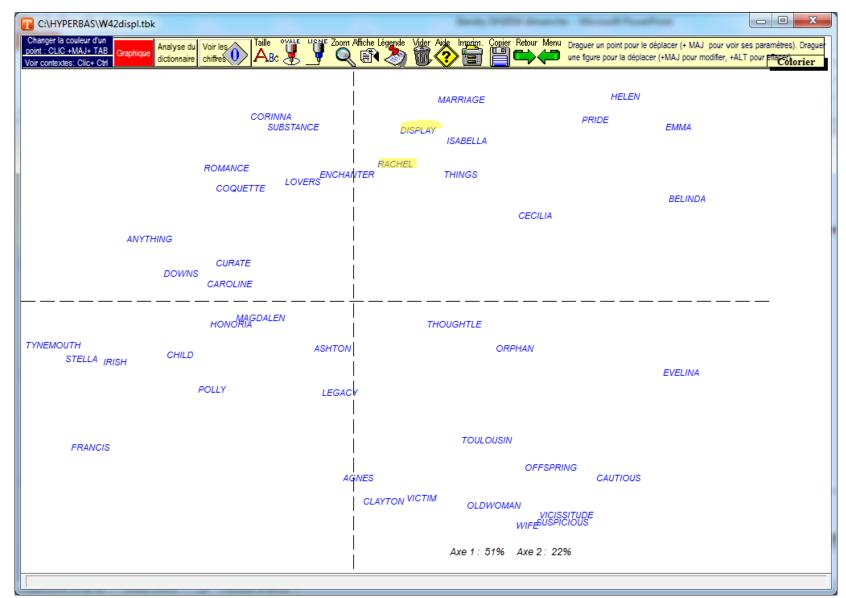
## *Rachel,* Jane Hunter (1817): A 'highly original' tale told in unoriginal terms



## W42+Display: Lexical connection types



## W42+Display: Lexical connection tokens



# What is style?

• Oh, well....

- Contrastive stylistics
  - <u>XVII-XVIII</u>: Sterne & Swift, fiction & sermons
  - JADT 2010: Smollett's Roderick Random

• ABO: Interactive Journal for Women in the Arts, 1640-1830 :

Chawton Novels Online, Women's Writing

1751-1834 and Computer-Aided Textual Analysis

http://scholarcommons.usf.edu/abo/vol5/iss2/1/

• Georgian Cities: 18th-century Cities

<u>The Use of Toponyms in Pride and Prejudice</u> http://www.18thc-cities.paris-sorbonne.fr/Spaceand-Emotions

## bandry@unistra.fr