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Abstract: This paper argues that corpus linguistic procedures can be considered an addition to the analytical inventory of traditional stylistics. It aims to explore how corpus linguistic procedures, particularly semantic domains, can be effective in detecting major literary themes in fiction. In order to do so, five corpora have been compiled: a corpus for each of the four novels of Charles Dickens' selected (i.e., *Oliver Twist, David Copperfield, Great Expectations* and *Our Mutual Friend*) and a compiled corpus combining all four novels. Wmatrix 5, with the BNC Sampler-Written as a reference corpus, is used to extract the key semantic domains in each corpus respectively. The literature on the selected novels is consulted to identify the major themes; it is then verified whether these themes are reflected in the corpus analysis, and, finally, the extent to which the procedure is effective in reflecting the major literary themes is explored. The findings confirm the effectiveness of the procedure of analysing semantic domains in studying literary texts, particularly in relation to their themes.

Keywords: Charles Dickens, corpus stylistics, semantic domains, WMatrix5

INTRODUCTION

Corpus linguistics "approaches the study of language in use through corpora [...]. A corpus is a large, principled collection of naturally occurring examples of language stored electronically" (Bennett, 2010, p. 2). It can be defined as "dealing with some set of machine-readable texts which is deemed an appropriate basis on which to study a specific set of research questions" (McEnery & Hardie, 2012, p. 1). Its goal is to describe "the patterns of language use in the target textual domain" (Biber, 2011, p. 15). It "serves to answer two fundamental research questions: 1. What particular patterns are associated with lexical or grammatical features? 2. How do these patterns differ within varieties and registers?" (Bennett, 2010, p. 2). According to Leech (1992), "corpus linguistics ... defines not just a newly emerging methodology for studying language, but a new research enterprise, and in fact a new philosophical approach to the subject" (Leech, 1992, p. 106). However, there is a debate among scholars whether corpus linguistics is a methodology (see Meyer, 2002;

McEnery & Hardie, 2012; Taylor, 2008) or a theory in its own right (see Gilquin, 2010). McEnery and Gabrielatos (2006, p. 34) refer to this debate stating that while some scholars "assert that corpus linguistics is not a branch of linguistics, nor a linguistic theory, but a methodology", others argue that it "is more than just a methodology".

"In the effort to bring corpus linguistic tools to bear on literary linguistic analysis, many recent publications have begun to map out new possibilities" (Toolan, 2006, p. 181). The use of computer-assisted textual analysis in the field of stylistics has given rise to a new field termed "corpus stylistics" (Sinclair, 2007; Mahlberg, 2007b). McIntyre (2015) highlights the difference between corpus stylistics and corpus linguistics stating that "corpus stylistics is simply corpus linguistics with a different object of study (literature as opposed to non-literary language)", and that it makes itself unique by using qualitative tools and techniques of stylistics to analyze texts with the help of computational methods (McIntyre, 2015, p. 60). Mahlberg (2014, p. 378-380) also draws attention to the fact that corpus stylistics links principles from corpus linguistics and literary stylistics. A corpus-based work is highly quantitative in nature, but when combined with qualitative analysis, both help us to reach a higher degree of understanding of literary works or any other selected data (Semino & Short, 2004, p. 7).

Mahlberg and Smith (2010, p. 450) describe corpus stylistics as "an emerging field that aims to combine questions from literary stylistics with approaches from corpus linguistics". It constitutes an "interface of corpus linguistics and literary stylistics", which "employs methods and approaches of corpus linguistics and links them with concerns in literary stylistics and literary criticism" (Mahlberg, 2010, p. 295). Corpus Stylistics allows "a combination of quantitative and qualitative analysis of literary texts" (Mahlberg, 2013, p. 355). It is generally defined as employing "corpus linguistic methods to support the analysis of textual meanings and the interpretation of texts" (Mahlberg, 2013, p. 346). It allows "for the quantification of recurring linguistic features to substantiate qualitative insights and vice versa" (O'Keeffe, 2006, p. 50).

"[T]he value of applying corpus methods" in studying literature, which is the core of corpus stylistics, "is defined through the links that can be made between quantitative findings and qualitative analysis" (Mahlberg, 2010, p. 295). O'Halloran (2007a, p. 241) adds that "[t]he value of the corpus stylistic approach ... is that it can help reveal such subtleties that even some close readings may not detect". "Corpus stylistics provides new insights into narrative texture and demonstrates the importance of recurrent linguistic features in shaping meaning" (Hunt & Carter, 2012, p. 27). It aims to "typically explore interpretations of literary texts identified in conventional readings but which may be hard to substantiate by traditional methods" (Hunt & Carter, 2012, p. 30). According to McIntyre (2010, p. 180), corpus stylistics is an approach that "employs the service or the evidence elicited from corpus linguistics to support literary analysis, transforming it from a basic, subjective claimand-quote strategy into evidence-based objectivity that encompasses linguistic features". Thus, it "enables us to address what has long been an issue with the analysis of prose fiction ... the problem of length and the fact that most prose texts are simply too long for the stylistician to deal with" (Mahlberg & McIntyre, 2011, p. 205). "[T]he application of the methods of corpus linguistics to text analysis has made it possible to place the selection and description of stylistically significant features on a firmer empirical footing" (Semino, 2011, p. 543). When "both quantitative and qualitative techniques of analysis are employed", [t]he consequent strengths of such an analysis lie both in its scope and reliability" (Murphy, 2007, p. 67). "[E]mpirical corpus evidence can usefully provide substantiation of such initial evaluations of literary works" (O'Halloran, 2007b, p. 33), or in other words, it "can provide textual substantiation to impressionistic interpretation" (Widdowson 2008, p. 294). Indeed, corpus stylistics has enabled analysts "to test empirically claims about the language of

literature, to search for and provide evidence from texts, to establish the norms of literary and non-literary style, and to have in-depth insights into the texts' structures and meanings' (Keshabyan-Ivanova, 2014, p. 59).

Since its inception, scholars have been interested in using corpus stylistic techniques. Examples of corpus stylistic studies include Adolphs (2006), Adolphs and Carter (2002), Biber (2011), Culpeper (2002, 2009), Fischer-Starcke (2010), Hoover (1999, 2002), Hori (2004), Lawson (2000), Louw (1993), Mahlberg (2007a, 2007b), McEnery et al. (2006), McIntyre (2008), McIntyre and Walker (2010), O'Halloran (2007a, 2007b), Romaine (2010), Scott (2006), Scott and Tribble (2006), Semino and Short (2004), Sinclair (2004), Starcke (2006), Stubbs (2001, 2005), and Toolan (2006).

Semino and Short (2004) investigated speech, thought and writing presentation in a corpus of late 20th century fictional and non-fictional works. Stubbs (2005) looked at clusters in Conrad's *Heart of Darkness*. Starcke (2006) concentrated on clusters in Austen's *Persuasion*. Mahlberg (2007) studied clusters in a corpus of Dickens' works. Culpeper (2009) investigated characterization in Shakespeare's *Romeo and Juliet* addresses the usefulness of Wmatrix's ability to compare texts at the grammatical and semantic level. McIntyre's (2010) analysis of *Reservoir Dogs* utilized the semantic functionality of Wmatrix to study characterization by examining keywords and key semantic categories. Archer and Bousfteld (2010) also used Wmatrix to explore the main characters in Shakespeare's *King Lear*. Leech (2008, p. 162-78) used Wmatrix to analyse Virginia Woolf's *The Mark on The Wall*. Ho (2011) used a number of corpus tools (including Wmatrix) in her analysis of Fowles' *The Magus*. Walker (2010) examined keywords and semantic domains in Julian Barnes's novel *Talking it Over*. Mahlberg and McIntyre (2011) demonstrated the interplay of qualitative and quantitative methods in their corpus stylistic analysis of Ian Fleming's novel *Casino Royale*.

This paper supports the argument that integrating corpus procedures in the toolkit of traditional stylistics or manual literary analysis would enhance analysis and enable analysts to deal with large amounts of data. In addition, it assesses the corpus procedure of semantic domains and reveals its effectiveness in identifying major literary themes. In order to do so, it investigates to what extent semantic fields can identify the literary themes in four of Charles Dickens' novels, namely: *Oliver Twist, David Copperfield, Great Expectations* and *Our Mutual Friend*.

The "limits and pitfalls" of corpus stylistics are acknowledged by its practitioners (Mahlberg 2007b, p. 222). The most common problem is difficulty in obtaining either digital copies of literary texts or the right to use the available ones. Fortunately, the texts of Charles Dickens' works are all in the public domain, having been made available in digital form via Project Gutenberg¹. For the purposes of this paper, the four selected works of Charles Dickens have been downloaded from the Project Gutenberg website and compiled into five separate text corpora (one for each novel and one combined corpus).

Wmatrix: What it offers and how it works

Corpus stylistics is not only based on the availability of large collections of machine-readable texts, but also on computer software programs, such as, for example, Wmatrix (Rayson, 2003, 2008, 2021), which is used primarily in this paper. Wmatrix² is a software tool for

¹ Project Gutenberg is an online book catalogue that offers over 45,000 ebooks. They are all accessible and free to download. For further details see http://www.gutenberg.org/.

² See http://ucrel.lancs.ac.uk/wmatrix.html for further details

corpus analysis and comparison which provides a web interface to the CLAWS³ (Constituent Likelihood Automatic Word-tagging System) and USAS⁴ (UCREL⁵ Semantic Analysis System) corpus annotation tools. It allows researchers to investigate the frequency and distribution of word forms and lemmas, keywords, grammatical word classes and semantic domains. Researchers can upload their own corpora to Wmatrix and click on the tag wizard which will automatically tag/annotate the uploaded files/corpora grammatically by CLAWS and semantically by USAS. Once the tagging process is complete, each word in the corpus will be separated, numbered and assigned different kinds of tag codes (i.e., Frequency, Semantic tags, and POS tags).

Wmatrix has two interfaces: simple and advanced. The simple interface consists of four functions: extracting wordlists, identifying frequencies, searching for a particular word, and extracting keyword clouds, which display the significance of each keyword by allocating it an appropriate font size. The advanced interface offers more tags, particularly semantic and part of speech tags.

Figure 1: The Advanced Interface of Wmatrix

	Frequency list	Concordance	N- & C-grams	Collocation	Keyness analysis
Word	Word only (Sorted by: Frequency; Word)	Word			Key words compared to: BNC Sampler Written
Part of speech	POS only (Sorted by: Frequency; POS) Word and POS (Sorted by: Frequency; Word; POS)	POS			Key POS compared to: BNC Sampler Written
Semantic	USAS Tag only (Sorted by: Frequency; USAS tag) Word and USAS tag (Sorted by: Frequency; Word; USAS tag)	USAS tag			Key concepts compared to: BNC Sampler Written V Go

The semantic tagger in Wmatrix is used in this study. In the semantic tagging/annotation process, USAS assigns a semantic tag to each word in the corpus. According to Rayson (2003, p. 66), the semantic tags are composed of:

- 1. An upper-case letter indicating general discourse field
- 2. A digit indicating a first subdivision of the field
- 3. A decimal point followed by a further digit to indicate a finer subdivision (optional)
- 4. One or more 'pluses' or 'minuses' to indicate a positive or negative position on a semantic scale (optional)

USAS includes 21 major semantic domains, as shown in Table 1 below.

1.	Α	GENERAL & ABSTRACT TERMS
2.	В	THE BODY & THE INDIVIDUAL
3.	С	ARTS & CRAFTS
4.	E	Emotion
5.	F	FOOD & FARMING
6.	G	GOVERNMENT & PUBLIC
7.	Η	ARCHITECTURE, BUILDINGS, HOUSING & THE HOME
8.	Ι	MONEY & COMMERCE

Table 1: Semantic fields of USAS – Adapted from Rayson (2003)

³ See http://www.comp.lancs.ac.uk/ucrel/claws/ for further information.

⁴ See http://www.comp.lancs.ac.uk/ucrel/usas/ for further information.

⁵ University Centre for Computer Corpus Research on Language.

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9.	Κ	ENTERTAINMENT, SPORTS & GAMES
10.	L	LIFE & LIVING THINGS
11.	Μ	MOVEMENT, LOCATION, TRAVEL & TRANSPORT
12.	Ν	NUMBERS & MEASUREMENT
13.	0	SUBSTANCES, MATERIALS, OBJECTS & EQUIPMENT
14.	Р	EDUCATION
15.	Q	LANGUAGE & COMMUNICATION
16.	S	SOCIAL ACTIONS, STATES & PROCESSES
17.	Т	TIME
18.	W	THE WORLD & ENVIRONMENT
19.	Х	PSYCHOLOGICAL ACTIONS, STATES & PROCESSES
20.	Y	SCIENCE & TECHNOLOGY
21.	Ζ	NAMES & GRAMMATICAL WORDS

These major domains are refined and expanded into 232 semantic categories⁶. Figure 2 below provides an example showing how the major domains of money & commerce (I), entertainment, sports, & games (K), and life & living things (L) are expanded into subcategories.

Figure 2:. An illustration of the expansion of three semantic domains

I MONEY 8	
11	Money generally
11.1	Money: Affluence
11.2	Money: Debts
11.3	Money: Price
12	Business
12.1	Business: Generally
12.2	Business: Selling
13	Work and employment
13.1	Work and employment: Generally
13.2	Work and employment: Professionalism
14	Industry
K ENTERT	AINMENT, SPORTS & GAMES
K1	Entertainment generally
K2	Music and related activities
K3	Recorded sound etc.
K4	Drama, the theatre & show business
K5	Sports and games generally
K5.1	Sports
K5.2	Games
K6	Children's games and toys
L LIFE & L	IVING THINGS
L1	Life and living things
L2	Living creatures generally
L3	Plants

The investigation of semantic domains is particularly useful in corpus stylistics. Many studies have employed the USAS component of Wmatrix (see, for example, McIntyre & Walker, 2010; Murphy, 2007; and Walker, 2010, 2012). It should be noted, however, that, to

⁶ See https://github.com/UCREL/Multilingual-USAS/blob/master/English/USASSemanticTagset.pdf for the complete Semantic Tagset.

my knowledge, no other study has used Wmatrix to study the effectiveness of the semantic domains procedure in identifying the major literary themes in Charles Dickens' works.

METHODOLOGY

This paper aims to investigate the following research issues: (1) whether the semantic domains (provided by WMatrix5) relate to the major themes of literary text(s); and (2) the similarities and/or differences between the results of corpus analysis in relation to semantic domains and the traditional critical reviews of the selected novels. To achieve this aim, four novels of Charles Dickens were downloaded from the website of *Project Gutenberg* (See Table 2 below).

No.	Novel	Word Count
1	David Copperfield	358644
2	Great Expectations	186487
3	Oliver Twist	158656
4	Our Mutual Friend	328329
	Total	1032116

Table 2: A list of the selected novels and their word counts

Each novel was saved as a plain text file. Then, the four novels were compiled into one large corpus also saved as a plain text file. Using the BNC Sampler-Written (a subset of the BNC - British National Corpus - consisting of about one million words) as a reference corpus, the key semantic domains of the selected novels and the compiled corpus were identified by the WMatrix5 semantic tagger. Finally, the categories of the semantic fields were examined and compared to the identified literary themes suggested in the literature.

RESULTS

Literary critics argue that Charles Dickens' novels offer deep insights into the spirit of the Victorian age through addressing themes such as social class, poverty, child labor, morality, education, self-actualization, and so on⁷. Dickens was

"one of the first popular writers who brought pictures of what is called common life into fashion. It is he who has been mainly instrumental in leading the present generation of authors to disregard to a great extent the pictorial advantages of life on the upper levels of society, and to find a counter picturesqueness in the experiences of the poor" (Oliphant, 1862, in Wall, 1970, p. 158).

Charles Dickens was born in 1812 into a bourgeois family as his father, John Dickens, worked in the Naval Pay Office and earned a good salary (Johnson, 1977, p. 13). However, due to his merrymaking, Dickens' father went bankrupt and was sent to the debtors' prison, and so the family became poor. As the eldest son, Dickens, who was 11 years old, had to work as a child laborer in a blacking warehouse. This painful experience led Dickens to deeply sympathize with poor and oppressed people, especially children. After his father's

⁷ Analysis of Charles Dickens's Novels – Literary Theory and Criticism (literariness.org) https://literariness.org/2019/04/02/analysis-of-charles-dickenss-novels/

release from prison, Dickens was sent to study at the Wellington House Academy for two years. Then, he had to drop school and work again as his father faced financial problems for the second time. He successively managed to work in many jobs: a junior clerk at a law office, a freelance reporter in a newspaper office and a stenographer in the court. Dickens' early work experience and suffering helped him to understand the hardships of the people, especially the heavy burden on the poor, and inspired many of his novels (Johnson, 1977).

"[N]o other writer of the English language except Shakespeare has left so many types of characters as Dickens has done" (Trollope, 1870, in Wall, 1970, p. 180).

"Dickens' world was richly populated with a variety of characters drawn from different social structures and often his moral vision is engaged through the mechanism of caricature. [...] Dickens' novels also show, at the same time, a remarkable awareness of contemporary social issues" (Choudhury, 2009, p. 5).

Several critics have identified Dickens as a writer for "the people" because his characters are ordinary people: lawyers, clerks, merchants, hotel owners, craftsmen, criminals, servants and workers (Ackroyd, 1990, p. xiv). Indeed, Dickens' characters embody people from all occupations and social classes in 19th century Britain.

"His range is very varied. He has attempted to describe every kind of scene in English life, from quite the lowest to almost the highest...Mr. Dickens's novels aim to delineate nearly all that part of our national life which can be delineated" (Bagehot, 1858, in Wall, 1970, p. 124).

One of the major themes in Dickens' novels is child labor and suffering. "No one, at any rate no English writer, has written better about childhood than Dickens. [...] no novelist has shown the same power of entering into the child's point of view" (Orwell, 1968, p. 423-424). In Dickens' works, "the figure of the child and the topic of childhood have always loomed large" (Merchant & Waters, 2015, p. 1). He portrayed "how children were perceived by the Victorians and how the phenomenon of increasing child labor did fit into this particular perception" (Schuster, 2014, p. 7). Dickens' amazing talent for portraying the world of children is evident in his vivid child characters in novels like *Oliver Twist, David Copperfield*, and *Great Expectations*. Dickens' miserable childhood had an impact on his portrayal of the darkness of the social reality faced by poor children. Ackroyd (1990) explained this idea as follows:

"There is something in Dickens's infancy, something which cannot now be recovered or understood, some primal fear which left him casting about for images with which to express it and which gave him as a novelist that sensitivity to the adult world which is most often to be found in the eyes of a frightened child" (Ackroyd, 1990, p. 54).

Dickens also criticized the social system. As George Orwell (1968) puts it:

"Fasten upon this or that minor abuse, expose it, drag it into the open, bring it before a British jury, and all will be well – that is how he sees it...There is no clear sign that he wants the existing order to be overthrown, or that he believes it would make very much difference if it were overthrown" (Orwell, 1968, p. 416).

It seems that Dickens' criticism of the social system is almost exclusively moral. His main target of criticism is not the social system but human nature which he was much concerned to improve. Therefore, Dickens stresses the need for reformation, through focusing on morality (Orwell, 1968, p. 427).

"It seems that in every attack Dickens makes upon society he is always pointing to a change of spirit rather than a change of structure His approach is always along the moral plane... Useless to change institutions without a 'change of heart' – that, essentially, is what he is always saying" (Orwell, 1968, p. 427).

Morality is emphasized in Dickens' works. Dickens' focus on morality might be attributed to his Christian puritanism. He advocated what he thought to be typically Christian moral values: love, mercy, benevolence and so on. According to Walder (1981, p. 208), Dickens' "knowledge of the Bible ... as well as the Book of Common Prayer, is testified to by frequent, accurate and often surprisingly relevant allusion throughout his works." Dickens attempted to convey charity as a kind of Christian virtue. Charity "means more than the simple human virtue of benevolence, or giving alms to the poor; it implies the more general motive of Christian love, expressed as a love of God and one's neighbor" (Walder, 1981, p. 45). As George Orwell (1968, p. 417) explains, Dickens' "whole 'message' is one that at first glance looks like an enormous platitude: If men would behave decently the world would be decent." Indeed, Dickensian humanitarianism is reflected in his calling for mercy, universal love and forgiveness, and opposing all kinds of evil, violence and oppression in his novels (Orwell, 1968). "[T]he novels of Dickens can all be reduced to one phrase, to wit: Be good, and love" (Taine, 1856, in Wall, 1970, p. 103). Dickens strove to create a sense of "human solidarity" through shared experience and emotions to evoke in his readers a sense of collective responsibility for social problems (Bell, 2000, p. 126-127).

The German philosopher Karl Marx valued the critical realism of Victorian novelists, particularly Dickens.

The ... graphic and eloquent pages have issued to the world more political and social truths than have been uttered by all the professional politicians, publicists, and moralists put together... (Raina, 1986, p. 137)

This is true of Charles Dickens, whose works offer deep and enlightening insights into the spirit of the 19th century.

A Corpus-assisted Analysis of Dickens' Selected Works

In this section, the corpus-assisted analysis is conducted as follows: (1) the semantic domains are identified in each selected work using WMatrix 5; and (2) the extracted semantic domains are compared to the literary themes suggested in critical reviews of Dickens' works (Churchill, 1975; Wall, 1970).

Oliver Twist

Oliver Twist is set in a workhouse and discloses the cruel, greedy and egotistic nature of Victorian industrial society. It tells the story of the miserable childhood of an abandoned orphan, Oliver Twist. As a child, he was mistreated, beaten, and forced to join the diabolic underworld of criminal life. He ran away and always preserved his positive outlook despite his suffering. Morality is the overarching theme of this novel since it depicts a conflict between good and evil, exposes and punishes vice, and advocates public morality. It revealed the poor conditions of workhouses and orphanages, and reflected how they were devoid of

compassion. It also reflected on the financial discrepancies between the social classes, portraying the lives of both the lower classes who inhabit the London underworld, and of the rich aristocrats. It also tackles the themes of thought and belief in criticizing the Church of England for not providing enough care for the poor who sought their help.

The semantic categories/fields extracted from the text of Oliver Twist are shown in Figure 3 and listed in Table 3.

Figure 3: Semantic clouds in Oliver Twist

623 Alive Anatomy_and_physiology Avoiding Belonging_to_agroup Bravery Calm Cautous Clothes_and_personal_belongings Content Crime
Darkness Dead Degree Degree:_Boosters Degree:_Minimizers Degree:_Compromisers Deserving Disease Emotional_Actions_States_And_Processes_General Entire;_maximum Emical
Evaluation: Good Evaluation: True Failure Fear/Shock Foolish Frequent Furniture_and_household_fittings Getting_and_giving;_possession Happy Happy If Institutive Interestedexcitedienergetic
Judgement_of_appearance:_Negative Judgement_of_appearance Knowledgeable Light Like Location_and_direction Long_tall_and_wide
Mental_actions_and_processes Money:_Lack Money:_Affinence Moving,_coming_and_going Negative No_respect No_knowledge No_caution Non-resident Participating
Participation Parts_of_buildings People:_Male People:_Female Personal_relationship:_General Personal_names Personality_traits Polite
Pronouns Psychological_Actions_States_And_Processes Putting,_pulling,_pushing,_transporting Quantities:_little Religion_and_the_supernatural
Respected Sad sate Seem Sensory:_Sound Sensory:_Sight Sensory:_Touch Sensory:_Sensor Sensory:_Sensor Sensory:_Touch Sensory:_T
Speech:_Communicative speed:_Fast stationary substances_and_materials:_Gas Tasty Temperature:_Hot./.on_fire Time_period:_short Time Time:_Old;_grown-up
Time:_General undeserving Unethical Unexpected unavy Unmatched usanta Violent/Angry Wanted Weak Weight:_Heavy
Umatrix

As shown in Figure 3, the bigger the font size of a semantic field, the more significant it is in the text. This makes it easier for anyone to get a general idea about the major components of the story: the setting, inhabitants of the story world, events and so on.

Semantic Field	LL	Semantic Field	LL	Semantic Field	LL	Semantic Field	LL
Pronouns	+3259.4	Moving, Coming & Going	+362.8	Negatives	+233.69	Judgement of Appearance : Negative	+145.92
Anatomy & Physiology	+1472.6 7	Putting, Pulling, Pushing, Transporti ng	+360.0 4	Sensory: Sight	+222.97	Crime	+145.81
Unmatched	+1070.2 0	Darkness	+356.2 0	Like	+197.40	Knowledgea ble	+130.58
People: Male	+979.37	Sensory: Sound	+335.7 0	Speech Acts	+196.08	Fear/Shock	+129.10
Speech: Communic ative	+747.32	Alive	+265.3 7	Sound: Loud	+179.04	Disease	+128.71
Light	+605.55	Time: Old; Grown-up	+257.7 7	Time: General	+166.26	Content	+127.37
Degree	+494.73	Speed: Fast	+256.4 9	Нарру	+164.56	Seem	+115.55

Table 3: Wmatrix Semantic Tagging of Charles Dickens' Oliver Twist

Location &	+481.90	Degree:	+252.3	Unexpected	+153.44	Money:	+108.79
Direction		Boosters	6			Lack	
Sad	+466.61	Parts of	+245.3	Sound:	+152.28	Violent/Ang	+104.75
		Buildings	5	Quiet		ry	

Table 3 lists the semantic categories according to their statistical significance. The semantic categories which are relevant to the major literary themes in the story are highlighted in the table. Table 4 provides a list of the significant words used in the text to reflect each category.

Oliver Twist, Charl	es Dickens
Semantic tag	Word
People: Male	man – gentleman – boy – men - fellow - gentlemen - lad - Mr – male - fellows - bachelor - chaps - mister - lads - chap
Sad	cry - desperate - misery - grief - suffered - miserable - sad - sorrow - weeping - suffering - melancholy - pity - rueful - lamentations - pitied - sobbed - wept - unhappy - grim - desolation - repent - sob - cheerless - tragic - sullenly - lamented
Moving, Coming & Going	come - returned - left - go - passed – walked - went – followed - fell - entered - reached – nodded – got - ran – return - arrived – rising - crossed - darted - sunk - journey – emerged - staggered
Putting, Pulling, Pushing, Transporting	turned - put - lay - brought - raised - held - shook - carried - turning - hung - placed - set - threw - raising - thrust - putting - moved - send - hold - bring - dropped - pushed - delivered - thrusting - throwing - dragged - pulling - carriage
Alive	life - alive - live - bloodless
Time: Old; Grown-up	old - venerable - growing up - grown up - adult- middle aged - grow up - mature
Нарру	happy - laugh - smile - merry - joy - grin - delight - humour - relief - cheerful - merriment - jolly - chuckled - jokes - sanguine – mirth – funny – amused - fun - lol – playful - gaiety - grinned
Judgement of Appearance: Negative	dirty - duff – wretched – dismal - hideous - ugly - ghastly - awful - repulsive - horrible - frightful - filthy - ragged - horrid - soiled - unpleasant - vulgar - squalid - filth – unwashed
Crime	thief - robber– stole - villain - guilty - crime - ruffian - offence - burglary - fraud - plundering - kidnapped – injustice - conspiracy - offender
Knowledgeable	know – awakened - information - acquainted - remember - experience - recollection - news - conscious - wisdom - recognised – recollect - recall
Fear/Shock	fear - afraid - alarm - terror – frightened - horror - dread - startled - frighten - menacing - coward – startling – cowardly - cowered - fearing - scared
Disease	ill – fever – pain - mad – sick – cold – cripples – painful – fit - hurt - exhausted – wounded – weary - sickness - symptoms - crazy – wearied - bruised - sickly - fatigue - injured - cough - wounds – limped
Money: Lack	poor – paupers – poverty – destitute - in need - beggar - pauper - debased
Violent/Angry	violent - force - violence - rage - angry - fierce - wrath - agitation - threatening - hit - indignation - angrily - furious - brute - cruel - fury - threats - ferocity - anger

Table 4: Oliver Twist: Significant words in each semantic category

The semantic category **People: Male** (+979.37) relates to the inhabitants of the story world and shows that it was dominated by males. The significance of the category **Time: Old; Grown-up** (+257.77) can be accounted for by the fact that the story is told from the perception of a child who is controlled by grown-ups and that the story depicts his life

journey as he grows up. The semantic categories **Sad** (+466.61), **Judgement of Appearance: Negative** (+145.92), **Fear/Shock** (+129.10), **Disease** (+128.71), and **Money: Lack** (+108.79) relate to the miserable life and work conditions of the protagonist, and hence, to the themes of child labor and poverty. The categories **Crime** (+145.81) and **Violent/Angry** (+104.75) relate to the mistreatment and cruelty the protagonist suffered from and also the life of crime he was forced to join. The category **Happy** (+164.56) is related to the protagonist's positive outlook despite his suffering. The categories **Moving, Coming & Going** (+362.84) and **Putting, Pulling, Pushing, Transporting** (+360.04) relate to the actions and, hence the main events, in the story. Hence, the semantic categories reflect plot elements and relate to the themes of morality, criminality, child labor and poverty.

David Copperfield

Dickens' *David Copperfield* is a bildungsroman which depicts the hardworking and the moral and spiritual development of its protagonist, David Copperfield. The novel highlights the themes of injustice in the educational system, marriage, morality, financial discrepancies between social classes, and the miserable conditions of the working class.

Figure 4 and Table 5 provide the extracted semantic categories in the text. Table 6 provides a list of the words reflecting each semantic category in the text.

Figure 4: Semantic clouds in David Copperfield

Alive Anatomy_and_physiology Becoging_No_2 group Becoging_No_2 group Becoging_No_2 group Becoging No_2 gro
Degree:_Compromisers Degree:_Minimizers Deserving Discourse_Bin Emotional_Actions_States_And_Processes_General Entire;_maximum Ethical Evaluation:_Good Evaluation:_Good Evaluation:_False
Existing Expected Failure Fear/shock Foolish Frequent Frequent Happy Happy Happy Happy Happy Happy Holly If Inattentive Infrequent Judgement_of_appearance_Positive Judgement_of_appearance_Negative Judgement_of_appearance Kin
Knowledgeable Light Like Like Location_and_direction MentaLactions_and_processes Money:_Lack Money:_Affluence
Moving,_coming_and_going Negative No_knowledge No_personal_relationship No_respect No_caution Not_understanding Participating Parts_of_buildings People_Female
People_Make Personal_relationship:_General Personality_traits Polite Pronouns Psychological_Actions,_States_And_Processes Putting,_pulling,_pushing,_transporting
Quantities:_little Relationship:_Intimacy_and_sex Respected Sad seem seen Sensory:_Sight Sensory:_Touch Sensory:_Sound Size:_Small Sound:_Quiet
Sound_Loud Speech:_Communicative Speech:_Nel_communicative Stationary Tasty Thought,_belief Time Time:_General
Time:_Old;_grown-up Time_Present_simultaneous Unconditional Undeserving Unethical Unexpected Uninterested bored Uniskely Unlucky Unlucky Unselfish unuse Varied Weak Worky
URIDO 11 UCEL transmission of the second sec

Semantic Field	LL	Semantic Field	LL	Semantic Field	LL	Semantic Field	LL
Pronouns	+19642. 29	Thought, Belief	+652.76	Polite	+211.5 8	Discourse Bin	+137.93
Unmatched	+1915.2 3	Kin	+606.87	Degree: Compromisers	+202.3 0	Parts of Buildings	+135.16
Anatomy and Physiology	+1624.1 2	Negative	+584.23	Size: Small	+192.6 3	Sensory: Touch	+134.36
Speech: Communic ative	+1527.3 3	Moving, Coming & Going	+506.78	Respected	+187.2 1	Entire; Maximum	+124.64
Degree: Boosters	+981.67	Alive	+487.99	Personality traits	+173.5 0	Putting, Pulling, Pushing, Transporti ng	+122.71
Like	+913.72	Content	+481.77	Calm	+173.2 4	Frequent	+114.48

Table 5: Wmatrix Semantic Tagging of Charles Dickens' David Copperfield

Knowledge	+842.24	Existing	+353.16	Frequent	+163.7	Sound:	+114.04
able					3	Quiet	
Degree	+830.04	Нарру	+338.16	Time	+159.7	Seem	+107.23
					7		
Time:	+774.47	Stationary	+257.79	Relationship:	+154.2	No	+104.29
General				Intimacy and	6	Knowledge	
				Sex			
Sensory:	+758.59	Unexpect	+244.68	Degree:	+144.2	Expected	+102.72
Sight		ed		Minimizers	5	_	
Light	+730.97	Darkness	+232.95	Time: Old;	+138.3	Psychologi	+101.11
-				Grown-up	1	cal	
				_		Actions,	
						States and	
						Processes	

Table 6: David Copperfield: Significant words in each semantic category

David Copperfield	l, Charles Dickens
Semantic tag	Word
Knowledgeable	know- remember- recollect- knowledge- remembrance- informed- aware- experience- conscious- recall- information- recollection- looking back- famous- news- memorable- recalled- recognized- wisdom- recognition- recollections- inform- recalling- informing- experiences- spies- identify- informs- recognizing- expert
Thought, Belief	think- felt- believe- opinion- considered- wonder- suppose- supposed- impression- regarded- belief- thinks- suspicion- conviction- suspect- musing- conceived- attitude- views- opinions
Kin	aunt- mother- family- father- wife- sister- married- brother- son- papa- daughter- husband- engaged- mama- uncle- marriage- niece- cousin- marry- nephew- widow- Mrs- the old man- marrying- families- parents- wedding- parent- godmother- brothers- mothers- grandfather – father-in-law - widower- twin- husbands- offspring- bride- son in law- great aunt- brother in law- great grandfather- sister in law- fathers
Moving,	returned- went- go- come- left- walked- passed- trot- return- entered- journey-
Coming &	rising- followed- nodded- come back- went away- went in- departure- steps-
Going	advanced- voyage
Нарру	happy- smile- laughing- delighted- cheerful- joy- delight- relief- smiled- cheerfully- merry- laughter- humour- amused- cheer up- happily- gaily- jest- cheerfulness- joyfully- joke- grin
Polite	thanked- grateful- compliments- gratitude- gracious- compliment- polite- gentlemanly- indebted- propriety- decently- complimentary- politely- civilities- courtly- pleasantry
Respected	respect- admiration- dignity- praise- honoured- honour- admire- homage- respecting- esteem- glorified- reverence- deference- admirable
Calm	rest- softly- gentle- calm- peace- resting- patience- rested- placid- cordiality- soothing- gentility- soothed- rests- serenity- gentler- reposed- soothe- serene
Relationship:	love- kiss- in love- embrace- romantic- intimacy- hug- fell in love- intercourse-
Intimacy & Sex	hugged- hugging- sweetheart- fall in love- sweethearts- suitor- sleeps with- love making- live together
Time: Old;	old- grown up- grew up- matured- grow up- grown- growing up- dated- middle
Grown-up	aged- old age- superannuated- mature- established- patrician- mature

Putting, Pulling,	put- turned- brought- lay- shook- held- bear- set- raised- turning- sent- carried-
Pushing,	moved- thrown- dropped- put down- send- shed- seated- lifted up- squeeze-
Transporting	fetch- hanging- pushed
Psychological	mind- state of mind- instinctively- instinct- trance
Actions, States	
and Processes	

The semantic categories **Knowledgeable** (+842.24) and **Thought, Belief** (+652.76) relate to the themes of the protagonist's self-development and education. **Kin** (+606.87) and **Relationship: Intimacy & Sex** (+154.26) reflect the themes of family and marriage. The protagonist's psychological state, positive outlook and maturity are reflected in the categories **Happy** (+338.16), **Calm** (+173.24), and **Psychological Actions, States & Processes** (+101.11). The themes of morality and social class are conveyed by the categories **Polite** (+211.58) and **Respected** (+187.21). The protagonist's progress into maturity is reflected by the semantic category **Time: Old; Grown-up** (+138.31). This category may also refer to older inhabitants of the story world. The categories **Moving, Coming & Going** (+506.78) and **Putting, Pulling, Pushing, Transporting** (+122.71) reflect the actions which propel the plot. As such, the semantic categories show that *David Copperfield* discusses the themes of education, marriage/family, morality, and self-development to maturity.

Great Expectations

Dickens' *Great Expectations* portrays the journey of its protagonist, Philip Pirrip (Pip) from childhood into youth. The major themes conveyed by the novel include morality, self-development, the social class system, and crime. Figure 5 and Table 7 provide the extracted semantic categories in the text. Table 8 provides a list of the words reflecting each semantic category in the text.

Figure 5.	Semantic	clouds	in Great	Expectations
1 181110 01	Semente	01011015	in orear	Dapeerentons

ss: Alive Anatomy_and_physiology came Clothes_and_personal_belongings construct Confident Content Crime Darkness Darkses
Destries Degree Degree:_Boosters Degree:_Compromisers Degree:_Minimizers Deserving Discourse_Bin Disease Desire Drinks_and_alcohol
Emotional_Actions_States_And_Processes_General Entire;_maximum Ethical Evaluation:_Good Evaluation:_False Evaluation:_Bad Evaluation:_Good Eva
Frequent Getting_and_possession of Infrequent Judgement_of_appearance:_Negative Judgement_of_spectare Knowledgeable Light Like Likely
Location_and_direction_metal_actions_and_processes Money:_Affluence Money:_Lack Moving,_coming_and_going Negative
No_knowledge No_respect No_personal_relationship No_caution Not_understanding Participating Parts_of_buildings People:_Male Personal_names Personality_traits Police Personali
Psychological_Actions,_States_And_Processes Putting,_pulling,_pushing,_transporting Quantities:_little Respected Sad
Satiling_swimming_etc. Seem Seen Sensory:_Sight sensory:_Touch Sensory:_Sound Sound:_Quiet Sound:_Quiet Speech:_Communicative
Speech_Not_communicating Speed_Fast Stationary Substances_and_materials:_Gas Temperature:_Hot_/_on_fire Thought,_belief Time Time:_General
Time:_Old;_grown-up Time:_Present;_simultaneous Time_Momentary Toughistong Understanding Unterhical Unexpected Unintersteatboord/Unenregets Unlikely Unsetfish Warted Weak Weight:_Heavy
Umatrix 0.000-01-0200, unstate tomouth For todocal quoins plass contact Ped Repose : prepend leasestera.ex.

Semantic Field	LL	Semantic	LL	Semantic	LL	Semantic	LL
		Field		Field		Field	
Pronouns	+1295	Time:	+423.2	People:	+209.9	Polite	+134.03
	1.68	General	1	Male	3		
Anatomy &	+1122.	Location &	+384.7	Frequent	+189.0	Time	+127.51
Physiology	50	Direction	7	_	8		

Table 7: WMatrix Semantic Tagging of Charles Dickens' Great Expectations

Light	+794.5	Moving,	+379.7	Parts of the	+182.1	Money:	+126.51
	9	Coming &	0	Buildings	5	Affluence	
		Going		-			
Speech:	+671.7	Putting,	+324.5	Discourse	+181.3	Clothes	+123.59
Communicative	8	Pulling,	2	Bin	1	&	
		Pushing &				Personal	
		Transporti				Belongin	
		ng				gs	
Sensory: Sight	+647.6	Degree:	+315.2	Like	+181.1	Content	+112.19
	4	Boosters	3		0		
Degree	+488.6	Darkness	+283.5	Sad	+161.9	Sensory:	+92.83
-	9		2		9	Touch	
Negative	+446.0	Thought,	+233.8	Degree:	+148.1		
-	0	Belief	2	Compromise	7		
				rs			
Knowledgeable	+441.8	Alive	+226.6	Unexpected	+146.0		
	2		2		9		

Table 8: Great Expectations: Significant words in each semantic category

Great Expectation	s, Charles Dickens
Semantic tag	Word
Knowledgeable	know - remember - knowledge - remembrance - information - aware - informed - recognized - acquainted - experience - recalled - remembered - news - memorable - recognition - recall - recollect - identify - wisdom
Moving, Coming	go - come - returned - left - passed - walk - leave - fell - coming - entered -
& Going	rising - crossed - nodding - tumbling - movement - steps - arrival - journey -
	staggered – rolled - approached - scattered - ascended - creep - drifting
Putting, Pulling,	put - held - lay - turned - bring - shook - threw - seated - placed - pulled -
Pushing,	hanging - pushed - removed - dropping - carriage – shipping - dragged
Transporting	
Thought, Belief	thought - felt - believe - considered - opinion - supposed - suspicion -
	impression - meaning - conscience - judgement - attitude
People: Male	man – boy - gentleman – fellow - chap - Mr - bachelor - lad - male - manhood - manly
Sad	cried - miserable - suffered - melancholy - desperate - sulky - despair - mourning - regret - dejected - unhappy - remorse - grim - suffering - wept - sorrowful - sad - miserably - gloomily
Polite	thanked - grateful - compliments - polite - gracious - gratitude - apologetically – compliment - thanks - peasantry - indebted
Money:	fortune - fortunes - treasure
Affluence	
Clothes &	pocket - dress - clothes - boots - hat - wore - coat - put on - sleeve - suit -
Personal	gloves - shoes - bag - purse - cloak - apron - waistcoat - trousers - veil - jewels
Belongings	- shroud – crown - skirts – brooch - knitting - tailor

The semantic categories **Knowledgeable** (+441.82) and **Thought, Belief** (+233.82) reflect the protagonist's self-development. The high statistical significance of the categories **Moving, Coming & Going** (+379.70) and **Putting, Pulling, Pushing & Transporting** (+324.52) convey an idea about the nature of the plot as full of events and actions. The category **People: Male** (+209.93) informs us that most of the inhabitants of the story world

are males. The category **Sad** (+161.99) reflects the miserable conditions of the inhabitants of the story world and may relate to the theme of social class. The category **Money: Affluence** (+126.51) reflects the theme of social class and may potentially relate also to the theme of criminality. The category **Polite** (+134.03) relates to the theme of morality. Finally, the category **Clothes and Personal Belongings** (+123.59) may relate to the theme of criminality particularly stealing, which is evident through the use of words such as 'pocket', 'purse', 'jewels', and 'brooch'. It may also relate to the female inhabitants of the story world through references to items of clothes and actions stereotypically linked with women such as 'dress', 'apron', 'veil', 'skirts', 'brooch', and 'knitting'.

Our Mutual Friend

Our Mutual Friend criticizes moral and social problems, particularly, the wide gaps between the social classes, crime, and corruption. It also tackles the theme of family and marriage in Victorian society. Figure 6 and Table 9 provide the extracted semantic categories in the text. Table 10 provides a list of the words reflecting each semantic category in the text.

Figure 6: Semantic clouds in Our Mutual Friend

Alive Anatomy_and_physiology Attentive Calm Children's_games_and_toys Coothes_and_personal_belongings Confident Content Darkness Degree				
Degree:_Boosters Degree:_Compromisers Degree:_Minimizers Deserving Discourse_Bin Diske Emotional_Actions,_States_And_Processes_General Entire;_maximum				
Ethical Evaluation:_Bad Evaluation:_True Evaluation:_Good Evaluation:_Good Evaluation:_False Evaluation:_Bad Existing Expected Failure Foolish Frequent Frequent Greedy Happy if Impolitie				
Judgement_of_appearance:_Positive Judgement_of_appearance:_Negative Kin Knowledgeable Language_speech_and_grammar Light Like Like Like Like Like				
Location_and_direction Mental_actions_and_processes Money:_Affluence Money:_Lack Moving,_coming_and_going Negative				
No_respect No_knowledge No_caudon www Not_understanding Participating People:_Male People:_Female Personal_relationship:_General Personal_names Personallty_traits Polite Pronouns Psychological_Actions,_States_And_Processes Putting,_pulling,_pushing,_transporting Quantities:_little Relationship:_winnexy_and_sex Respected Sad sating_swimming_ete. Seem Seen setter Sensory:_Sight sensory:_Touch Sensory:_Sound Size:_Small Sound:_Quiet Sound_Load Speech_acts Speech:_Communicative				
Speed:_Fast Stationary Substances_and_materials_Gas Tasty Thought,_belief Time Time:_General Time:_Freent_simultaneous Tim				
Uninterested tored Uninkey Unmatched Unselfish Weak Work_and_employment:_Professionalism				
Umatrix for the second				

Semantic Field	LL	Semantic Field	LL	Semantic Field	LL	Semantic Field	LL
Pronouns	+10782.	Darkness	+380.1	Money:	+205	Respected	+144
Tionound	94	Dunniebs	9	Lack	.50	Respected	.58
Unmatched	+3931.0	Sensory:	+372.2	Content	+193	No Respect	+142
	5	Sight	9		.98		.58
Anatomy &	+1864.4	Alive	+355.1	Speech Acts	+183	Unethical	+139
Physiology	9		2		.88		.31
Speech:	+1059.4	Location &	+343.2	Unexpected	+179	Sensory:	+131
Communicative	6	Direction	2		.82	Touch	.57
Negative	+1002.9	People:	+335.9	Ethical	+169	Personal	+120
	9	Male	9		.53	Relationship	.95
						: General	
Light	+824.68	Putting,	+299.1	Kin	+167	Deserving	+118
		Pulling,	1		.67		.46
		Pushing &					
		Transporti					
		ng					
Like	+785.20	Moving,	+285.6	Frequent	+164	Degree:	+110

Table 9: WMatrix Semantic Tagging of Charles Dickens' Our Mutual Friend

		Coming &	4		.84	Compromise	.86
		Going				rs	
Degree	+620.60	Thought,	+278.1	Judgement	+154	Sensory:	+103
-		Belief	0	of	.53	Sound	.97
				Appearance			
				: Positive			
Time: General	+431.95	Sad	+238.0	Foolish	+150	Quantities:	+102
			1		.13	Little	.44
Knowledgeable	+414.19	Money:	+220.6	Size: Small	+148	Confident	+100
_		Affluence	4		.74		.60
Work &	+395.13	Polite	+212.2	Seem	+147	Calm	+96.
Employment:			0		.25		41
Professionalism							

Table 10: Our Mutual Friend: Significant words in each semantic category

Our Mutual Friend, C	Charles Dickens
Semantic tag	Wordlist
Knowledgeable	know - remember - knowledge - aware - information - acquainted-
	remembrance – news – recall – experience – recollect - wisdom - recognized
	- awakened - recollection
Work &	secretary- reputation- secretaries- reputations- gatekeeper- colleagues
Employment:	
Professionalism	
People: Male	man- gentleman- boy- Mr- men- fellow- gentlemen- chap- fellows- boys-
	male- manly- lad- bachelor- Mister- lads- chaps
Putting, Pulling,	put- turned- brought- held- set- lay- shaking- carriage- turn- raised- removed-
Pushing,	seated- borne- thrown- delivered- hung- pick up- took down- twisted- stuck-
Transporting	deposited- put into- tossed- turns- stretched out.
Moving, Coming &	returned- come- go- left- passed- walk- sat down- followed- comes- pass-
Going	return- steps- arrived- move- nod- come home- wandering- rolled- laid down-
	departed- floating- fallen- advancing- slipped
Thought, Belief	think- feel- believe- opinion- suppose- wonder- suspicion- regarded- attitude-
	meaning- trust- impression- distrust- musing- guess- find- meditating- reason-
	assumed- deemed- deliberation
Sad	cried- melancholy- miserable- glum- mourning- wept- sad- grim- desperate-
	weeping- unhappy- gloomily- suffering- despair- suffered- miseries- cries-
	regret- downcast- burst into tears- embarrassing- misery- sobbing
Money: Affluence	fortune- fortunes- riches- treasure- richest- fortune hunter
Polite	thankful- gracious- grateful- compliments- polite- thanked- compliment-
	thank- thanks- politely- politeness- gratitude- apologetic- complimentary-
	graciously- courteous- apologetically- thanking- complimented- indebted-
	thankfulness- refined- good manners- decently- well bred- courtesy
Money: Lack	poor- beggars- poverty- insolvent- pauper- beggar- destitution- in need- needy-
	hard up- broke- beggar- penniless
Ethical	honour- fair- honourable- noble- respectable- forgive- moral- gallant- virtue-
	justified- virtuous- virtues- forgiveness- justly- unimpeachable- honours-
	justification- excusable- chivalrous- integrity- honourably
Kin	father- sister- husband- wife- daughter- family- brother- mother- married-
	godmother- marry- son- marriage- parent- bride- mum- marrying- wedding-
	daughters- fathers- aunt- bridegroom- mamma
Judgement of	pleasant- pretty- lovely- comfortable- beautiful- charming- handsome-

Appearance: Positive	delicate- grand- neat- clean- nice- majestic- attracted- beauty- grace- radiant- impressive- adorable- charmed- fashionable- gorgeous
Respected	respect- dignity- admiration- honoured- deference- dignified- homage- submissively- estimable- flattered- praises- honorary
No Respect	disgrace- contempt- scorn- disdain- degraded- irreverent- disgraced- humiliation - derision- profane- disdained
Unethical	rogue- mercenary- wicked- betrayed- rascal- cheat- reproachful- disgraceful- fiddle- swindlers- sin- traitor- corruption- vices
Personal	friend- partner- meet- acquaintance- companion- comrade- escort- friendship-
Relationship:	mate- playmate
General	
Confident	confidence- trust- emphatic- peace of mind- confident- reassuring- trustfulness

The semantic categories **Knowledgeable** (+414.19) and **Thought, Belief** (+278.10) relate to the themes of self-development and education. The theme of the gap between the social classes is quite significant and is reflected in the categories **Work & Employment: Professionalism** (+395.13), **Sad** (+238.01), **Money: Affluence** (+220.64), **Money: Lack** (+205.50), and **Respected** (+144.58). The category **People: Male** (+335.99) reflects the fact that the majority of the inhabitants in the story world are males. The categories **Putting, Pulling, Pushing & Transporting** (+299.11) and **Moving, Coming & Going** (+285.64) reflect the amount of action in the story. The theme of morality is highlighted in the story through the categories **Polite** (+212.20), **Ethical** (+169.53), **No Respect** (+142.58), **Unethical** (+139.31), and **Confident** (+100.60). The theme of family is conveyed by the categories **Kin** (+167.67) and **Personal Relationship: General** (+120.95). Finally, the category **Judgement of Appearance: Positive** (+154.53) relates to the theme of family/relationships. It may, however, reflect the theme of social class, which is evident in the use of these words: 'grand', 'majestic', 'grace', and 'fashionable'.

The Combined Charles Dickens' Corpus

Figure 7 and Table 11 provide the extracted semantic categories in the combined corpus of the four texts. Table 12 provides a list of the words within each of these semantic categories.

Figure 7: Semantic clouds in Charles Dickens' combined corpus

Alive Anatomy_and_physiology Calm Clothes_and_personal_belongings Confident Content Darkness Degree
Degree:_Boosters Degree:_Compromisers Degree:_Minimizers Deserving Discourse_Bin Disease Emotional_Actions,_States_And_Processes_General Entire;_maximum Ethi
Evaluation:_Good Evaluation:_Good Evaluation:_True Evaluation:_False Evaluation:_Bade Existing Expected Failure Fear/shock Foolish Frequent Frequent Getting_and_giving_possession over Happy If Institutive Infre
Judgement_of_appearance:_Negative Judgement_of_appearance:_Positive Judgement_of_appearance Kin Knowledgeable unput_issue_unput_ent_of_appearance
Location_and_direction MentaLactions_and_processes Money:_Lack Money:_Affluence Moving,_coming_and_goin
Negative No_knowledge No_respect No_caution No_personal_relationship Not_understanding Participating Parts_of_buildings People:_Male People:_Female Personal_relationship:_Gen
Personality_traits Polite Pronouns Psychological_Actions_States_And_Processes Putting,_pulling,_pushing,_transporting Quantities:_little Relationship:_Intimacy_and
Respected Sad Seem seen Sensory:_Sight Sensory:_Sound Sensory:_Touch Size:_Small Sound:_Quiet Sound:_Loud Speech_
Speech:_Communicative Description Speed_Fast Speed_Fast Stationary Substance_and_materials:_Gas Tasty Thought,_belief Time Time:_General
Time:_Old;_grown-up Time_Present_simultaneous Unethical Unexpected Uninterested/boredunenergetic Unitary Unmatched Unsetlish Warked Weak Work_and_employment:_Professionalisn
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Table 11: Wmatrix Semantic Tagging of Charles Dickens' Combined Corpus

Semantic Field	LL	Semantic Field	LL	Semantic Field	LL	Semantic Field	LL
Pronouns	+26807.	People:	+639	Sensory:	+218.0	Foolish	+169

	89	Male	.91	Touch	0		.36
Anatomy &	+3448.6	Putting,	+592	Calm	+217.6	Frequent	+167
Physiology	5	Pulling,	.96	Callin	6	requent	.85
Thysiology	5	Pushing,	.70		0		.05
		Transportin					
		g					
Unmatched	+2839.4	Darkness	+528	Money:	+216.2	No Respect	+164
0	1	2	.89	Affluence	7	rio respect	.21
Speech:	+2358.9	Content	+509	Size: Small	+215.9	Degree:	+147
Communicative	5		.90		8	Minimizers	.57
Negative	+1348.6	Unexpected	+379	Existing	+214.4	Expected	+145
0	9	•	.78	C	3	•	.29
Light	+1269.8	Polite	+334	People:	+213.8	Quantities:	+139
-	7		.99	Female	7	Little	.60
Degree:	+1207.5	Нарру	+293	Discourse Bin	+211.3	Deserving	+129
Boosters	7		.08		4		.85
Like	+1191.2	Frequent	+291	Sound: Quiet	+201.2	Clothes &	+129
	8		.43	-	0	Personal	.41
						Belongings	
Sensory: Sight	+1131.0	Sensory:	+285	Time	+191.9	Speech	+126
	1	Sound	.35		1	Acts	.94
Degree	+1071.3	Degree:	+274	Personality	+191.8	Emotional	+125
	7	Compromise	.36	Traits	8	Actions,	.33
		rs				States &	
						Processes	
		~ .			100.1	General	
Knowledgeable	+1050.7	Stationary	+269	No Knowledge	+188.4	Confident	+122
N7 ·	6		.36		2	G 1	.35
Moving, Coming &	+900.01	Parts of	+257 .95	Ethical	+179.4 8	Sound: Loud	+121 .68
Going &		Buildings	.95		0	Loud	.00
Time: General	+887.25	Seem	+256	Work &	+177.5	Fear/	+114
Time. General	1007.25	beem	.60	Employment:	2	Shock	.99
			.00	Professionalis	2	SHOCK	.,,
				m			
Sad	+788.80	Money:	+227	Judgement of	+176.4	If	+114
		Lack	.19	Appearance:	5		.26
				Negative			
Location &	+767.73	Time: Old;	+225	Evaluation:	+172.5	Mental	+105
Direction		Grown-up	.00	Good	7	Actions &	.97
		_				Processes	
Alive	+683.19	Kin	+219	Unethical	+171.7	Unselfish	+101
			.55		3		.60
Thought,	+659.67	Respected	+218	Psychological	+171.2	Seen	+100
Belief			.96	Actions, States	5		.79
				& Processes			

Table 12: The Combined Corpus: Significant words in each semantic category

Charles Dickens Combined Corpus			
Semantic tag	Wordlist		
Knowledgeable	know- remember- knowledge - aware- recollect- information- experience-		

	heard of- recall- news- awakened- recognized- wisdom- looking back-
	recalled- recognition- remembrances- memorable- famous- identify-
	recalling- call to mind- experiences
Moving, Coming &	returned- go- come- passed- walked- leave- fell- rose- nodded- arrived-
Going	coming back- trot- fall- journey- steps- trembling- crossed- wandering-
Going	advanced- enter- arrival- rolled- crept- approached- departed- movement
Sad	cried- miserable - unhappy- melancholy- desperate- suffered- sorrow- sad-
Sau	gravely- misery- weeping- mourning- despair- suffer- wept- sobbing-
	suffering- grim- sobbed- remorse- sorrowful- burst into tears
Thought Paliaf	think- felt- opinion- considered- suppose- wonder- impression- suspicion-
Thought, Belief	trust- meaning- attitude- belief- conviction- conscience- suspicious- imagine-
	found- assumed- regard- guess- musing- deemed
People: Male	man- boy- gentleman- men- fellow- Mr- boys- gentlemen- chap- lad-
reopie. Male	
	fellows- male- Mister- bachelor-manly- messrs- manhood- chaps- masculine-
Dutting Dulling	lads- manful- boy- nobs- males- man - manliest
Putting, Pulling,	put- turned- brought- lay- held- laid- shook- set- bear- dropped- turn-
Pushing,	carriage- placed- threw- seated- hung- raising- removed- delivered- pushed-
Transporting	shed- put into- withdrew- pull- thrust- hanging- stuck- bearing- tossed-
Polite	dragged grateful- thanked- thankful- gracious- compliments- thank- compliment-
Polite	
	polite- gratitude- thanks- politeness- politely- complimentary- apologetic-
	apologetically- graciously- gentlemanly- indebted- pleasantry- thankfulness-
	propriety- complimented- thanking- courteous- decently- refined- civilities-
	courteously- civilly- cultivated- good manners- proprieties- tact- civility-
Honny	courtly- well bred- courtesy- complimenting- pleasantries
Нарру	happy- smile- laughed- smiling- cheerful- delighted- relief- joy- delight-
	humour- merry- gaily- grin- amused- playful- beaming- sanguine- cheer up-
	chuckled- comic- jest- fun- rejoiced- bliss- rapturous- merriment- mirth- overjoyed- festive
Money: Lack	poor- paupers- beggar- poverty- pauper- in need- beggars- destitute-
Money. Lack	insolvent- needy- destitution- beggared- poor laws- fruitlessly- beggar
	woman- debasing- underpaid- pauper- debased- beggar- looking poor-
	penniless
Time: Old; Grown-	old- mature- old fashioned- grown up- pensioner- matured- old age-
· · · · · · · · · · · · · · · · · · ·	matronly- adult- maturer- looked old- maturity
up Kin	aunt- mother- father- sister- family- wife- husband- married- brother-
KIII	daughter- son- engaged- marriage- papa- uncle- marry- mama- godmother-
	cousin- parent- niece- bride- mum- marrying- parents- wedding- widow-
	twins- sisters- aunts
Respected	respect- admiration- dignity- admired- honoured- stately- praise- homage-
Respected	dignified- esteem- deference- praised- reverence- deferential- praises- self-
	respect- estimable- glorified
Money: Affluence	fortune- fortunes- treasure- riches- richest- fortune hunter
People: Female	lady- girl- woman- miss- female- housewife- feminine- girlish- hag-
r copie. r ciliale	womanhood- crones ⁸ - begum- lass- ladylike- crone- maiden
Personality Traits	kind- childish- unjust- temperament- human nature- kinder- unkind-
reisonality fraits	childishly- stubborn- trait- stiff necked- pig headedness- unjustly
Ethical	honour- fair- forgive- noble- respectable- mercy- virtue- gallant- innocently-
Eulical	disinterestedness- scruple- acquitted- humane- fairest- ingenuous- blameless-
	chaste
Work &	
	secretary- reputation- carpenter- accountant- repute- practitioners-
Employment:	malpractices- colleague- bricklayer- carpentering- gatekeeper- colleagues

⁸ Crones means ugly old women. Begum refers to a Muslim woman of high rank.

Professionalism	
Judgement of	wretched- awful- dismal- dirty- ragged- ugly- horrible- desolate- shabby-
Appearance:	frightful- duff- hideous- unpleasant- unspeakable- withered- imperfectly-
Negative	clumsy- wreck- abhorrence- nasty- harsh- imperfect- bleak- filthy- horrid-
	gaunt
Unethical	ashamed- evil- shame- wicked- rogue- mercenary- betrayed- tricks-
	mischief- rascal- naughty- reproachful- sordid- sin- vice- guilt- degradation-
	wickedness- devilish- corruption
No Respect	disgrace- contempt- scorn- disdain- impudent- insolent- affront- degraded-
	humiliation- dishonourable- dishonour- abase- derision- irreverent-
	undignified
Emotional Actions,	pity- temper- sentiment- emotion- compassion- flushed- wits- awe- touching-
States & Processes	shudder- moody- hysterical- wit- tempers- feel- discomposed- rosy cheeked
General	
Confident	confidence- trust- faith- emphatic- confident- emphatically- peace of mind-
	forcibly- trustfulness- reassuring- forcible- minds- reassured
Fear/Shock	fear- frightened- dread- terror- alarmed- horror- shock- timid- fearful-
	startled- shy- terrified- fright- shocked- timidly- scared- frighten- coward
Mental Actions &	memory- mental- dreamed- intellect- dreaming- meditation- mentally-
Processes	intellectual- dream- meditations- memories- intuitively

The furnishing of the story worlds of Dickens' selected novels is reflected by the semantic categories People: Male (+639.91) and People: Female (+213.87). The high statistical significance of the People: Male semantic category reflects the fact that the majority of the inhabitants of these story worlds are males. The category Personality Traits (+191.88) elaborates Dickens' characters even further. The categories Moving, Coming & Going (+900.01) and Putting, Pulling, Pushing, Transporting (+592.96) reflect the actions of the stories. The categories of **Knowledgeable** (+1050.76) and **Thought, Belief** (+659.67) relate to the theme of education. They may also relate to the theme of self-development and progress to maturity which is primarily conveyed by the categories Time: Old; Grown-up (+225.00), Emotional Actions, States & Processes General (+125.33), and Mental Actions & Processes (+105.97). The theme of discrepancies in the social class system, which is characterized by the presence of two extremes: affluence and poverty, is reflected by the semantic categories Sad (+788.80), Money: lack (+227.19), Respected (+218.96), Money: Affluence (+216.27), Work & Employment: Professionalism (+177.52), Judgement of appearance: Negative (+176.45), and Fear/Shock (+114.99). The theme of morality is reflected in the categories Polite (+334.99), Ethical (+179.48), Unethical (+171.73), No Respect (+164.21), and Confident (+122.35). The theme of family is conveyed by the category Kin (+219.55). Finally, the semantic category Happy (+293.08) relates to Dickens' positive attitude in the face of suffering and his tendency to have happy endings where evil is always punished and morality is always rewarded.

CONCLUSION

The objective of this study was to address the effectiveness of semantic domains in detecting the major themes of literary texts. Through suggesting a methodology consisting of a synergy of quantitative and qualitative approaches, the study managed to contribute to the evidence supporting the effectiveness of corpus tools, particularly Wmatrix, in supplementing traditional stylistic analysis. The results of the corpus analysis indicate the effectiveness of Corpus Stylistics in detecting literary texts. This study recommends the use of corpus-based analysis of literary texts as a milestone step to provide quantitative evidence for further qualitative assessments.

The implications of this study can extend to the field of pedagogy since the corpusstylistic approach to studying literary themes, being an evidence-based approach, may facilitate the teaching of literary works objectively and, hence, their study for non-native readers. According to Semino (2011), the pedagogical implications for stylistic analysis have been examined by stylisticians in respect to native speaker, second language and foreign language contexts (e.g., Widdowson, 1975; Widdowson, 1992; Watson & Zyngier, 2007). In fact, the effectiveness of using stylistic evidence-based approaches in teaching literary texts in language classrooms is advocated in many studies (Carter & McRae, 1996; Carter & Simpson 1989; Cook, 1994; Fowler, 1996; Kramsch, 1993; Kramsch & Kramsch 2000; Short, 1996; Simpson, 1993; Toolan, 1998; Widdowson, 1975, 1992).

"Herein lies its educational value – for it offers an alternative to the traditional teaching of literature. Rather than being the passive recipients of the second hand interpretations of literary critics, students can be enabled (empowered even) to take the initiative and engage actively and directly with literary texts themselves" (Widdowson, 2008, p. 302).

Applying the procedure of semantic domains to literary works would, in essence, advance non-native readers' comprehension of these works by, and probably also contribute further to, developing their level of English language proficiency through relating themes to linguistic triggers. Behnam (1996, p. 12) asserts that when non-native learners do not only depend on "some intuitive responses for which little evidence can be drawn", they may activate "a general analytic skill which can serve as a first step towards [the] ultimate interpretative responses expected from readers". Naciscione (2010, p. 205) adds that literary texts can be used as a significant medium for language acquisition and awareness raising, through focusing on "lexical and grammatical accuracy" and additionally enhancing "literary awareness and stylistic sensitivity". Hernández (2011, p. 235-6) argues that using literary texts in language teaching facilitates the development of "literary comprehension and sensibility" in learners, and elevates their communicative competence through "the expression of ideas, opinions, and beliefs". The "use of literary texts is often advocated as a means to enhance proficiency in reading, vocabulary growth and cultural knowledge, if not indeed, in more traditional systems" (Hall, 2007, p. 4).

The approach suggested in this paper seeks to achieve "two main objectives: firstly, to enable students to make meaningful interpretations of the text itself; secondly, to expand students' knowledge and awareness of the language in general" (Lazar, 1993, p. 31). Hence, practicing this corpus-stylistic approach would likely extend teaching literature in the classroom beyond traditional literary criticism, which primarily depends on intuition, to encompass more systematic and objective practices, and eventually help develop non-native learners' English language proficiency.

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