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Hansard Report (HaRe)

Dawn Archer, Oliver Delgaram-Nejad, X and X

1. Project Objective

This project reviewed the usage patterns of eight target terms – namely, the orthographic variants 'anti-semitism', 'Antisemitism', 'Anti-Semitism', 'antisemitism', 'anti-Semitism', 'antiSemitism', 'Anti-semitism', and 'AntiSemitism'—across generic and temporal contexts. The work was conducted to produce an informed recommendation as to the variant(s) that appear(s) to be used the most frequently and/or the least pejoratively across a selection of sources.

2. Data collection and preparation processes

Colleagues from Hansard Lords initially provided researchers with possible sources to use (in a guidance document) on 11/10/2018. Of the sources listed, several were discounted due to being:

(a) published in an inaccessible format;
(b) hosted on a forum inaccessible to the general public;
(c) available to reviewers at a prohibitive financial cost.

This left the following fourteen sources:

- *Community Security Trust*
- *All-party Parliamentary Group*
- *International Holocaust Remembrance Alliance*
- *Labour Party Manifesto 2017*
- *The American Israel Public Affairs Committee*
- *The American Jewish Committee*
- *Anti-defamation League*
- *Hadassah*
- *Christians United for Israel*
- *The Guardian Open Platform*
- *Bing Cognitive API*
- *FAROO Web API*
- *FAROO News API*
- *SocialSearcher*

Extraction of the fourteen sources was undertaken from 25 November to 10 December 2018, in line with the following protocol:

- individual publications were extracted in PDF format or, if in another format, extracted and converted to PDF subsequently
- individual publications were bound into a single PDF file
- bound PDF files were converted into plain text corpora: to enable computational analysis using (semi)automated tools

The descriptive values for each source are listed under Table 1, below.[1] The combined corpus word count (for all fourteen sources) is 2,732,491 (i.e. approx. 2.75 million). Note that the

[1] The descriptive charts were compiled using IBM SPSS (Statistical Package for the Social Sciences).

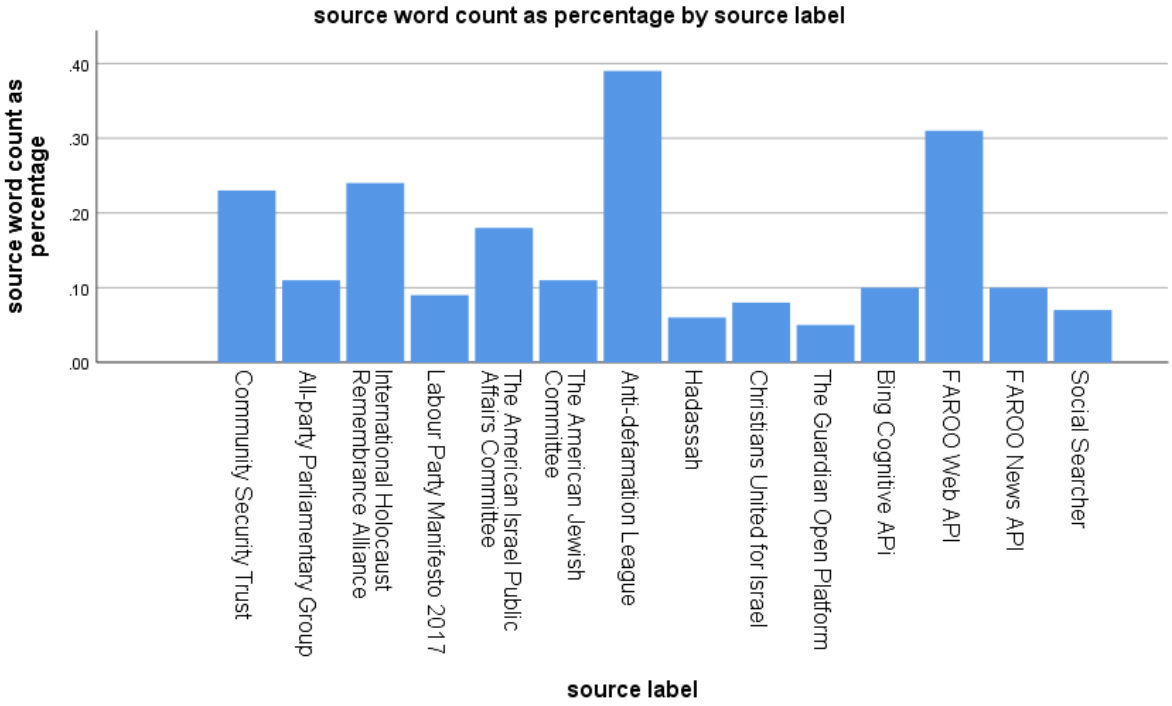
fourteen sources share the same target audience—the general public. For further information on authors/publishing institutions, as well as a description of each source, see Appendix 1.

Table 1: descriptive variables

Source	date range	no. of publications	type/genre	source total	decimal value of total corpus	% value of total corpus
Community Security Trust	2007–2018	82	policy	629949	0.23	23.05%
All-party Parliamentary Group	2011–2018	23	policy	313795	0.11	11.48%
International Holocaust Remembrance Alliance	2011–2018	9	policy	654512	0.24	23.95%
Labour Party Manifesto 2017	12/05/2017	1	policy	24301	0.09	8.80%
The American Israel Public Affairs Committee	2014–2018	358	policy; reportage	500939	0.18	18.33%
The American Jewish Committee	1909–2018	1145	policy; reportage; memorandae; minutes	292841	0.11	10.71%
Anti-defamation League	2012–2018	14	policy; reportage	107414	0.39	39.30%
Hadassah	2017–2018	20	reportage	16407	0.06	6.00%
Christians United for Israel	2009–2017	2	e-book	22244	0.08	8.10%
The Guardian Open Platform	n/a	74	reportage	14377	0.05	5.20%
Bing Cognitive API	n/a	17	reportage	26602	0.10	9.70%
FAROO Web API	n/a	58	reportage	84053	0.31	30.70%
FAROO News API	n/a	28	reportage	26246	0.10	9.60%
SocialSearcher	01/09/2018–10/12/2018	n/a	social media	18811	0.07	6.80%

Each source's contribution to the combined total of occurrences for all target terms—as derived from the rightmost column of Table 1—is given in Figure 1, below, *as a percentage value*.

Figure 1: corpus constitution by source



3. Frequencies of occurrence: raw and normalised

Raw occurrence counts capturing the use of the target terms in the fourteen sources were gathered using Notepad++, an open-source text editor that permits programmatic functions.[2] The raw occurrence values for each source are listed under Table 2 (below).[3] The highlighted boxes reflect that particular source's favoured target term. A visual representation of the respective sources' (preferred) target terms has also been provided (see Figure 2, p.4).

Table 2: raw occurrence counts

Source	V1	V2	V3	V4	V5	V6	V7	V8
Community Security Trust	23	490	25	**2069**	106	0	9	0
All-party Parliamentary Group	0	585	66	**1313**	174	0	3	0
International Holocaust Remembrance Alliance	0	39	13	**299**	14	0	0	0
Labour Party Manifesto 2017	0	0	0	0	*2*	0	0	0
The American Israel Public Affairs Committee	2	0	2	0	*29*	0	0	0
The American Jewish Committee	1	6	169	2	*213*	9	2	6
Anti-defamation League	0	3	4	8	*44*	0	0	0
Hadassah	0	0	4	0	*6*	0	0	0
Christians United for Israel	16	0	2	0	*6*	0	0	0
The Guardian Open Platform	34	101	2	**651**	7	0	0	0
Bing Cognitive API	35	432	336	**709**	394	0	5	0
FAROO Web API	19	1958	216	**3355**	368	0	6	50
FAROO News API	9	471	156	**571**	204	0	0	50
SocialSearcher	22	33	57	**123**	87	102	0	5

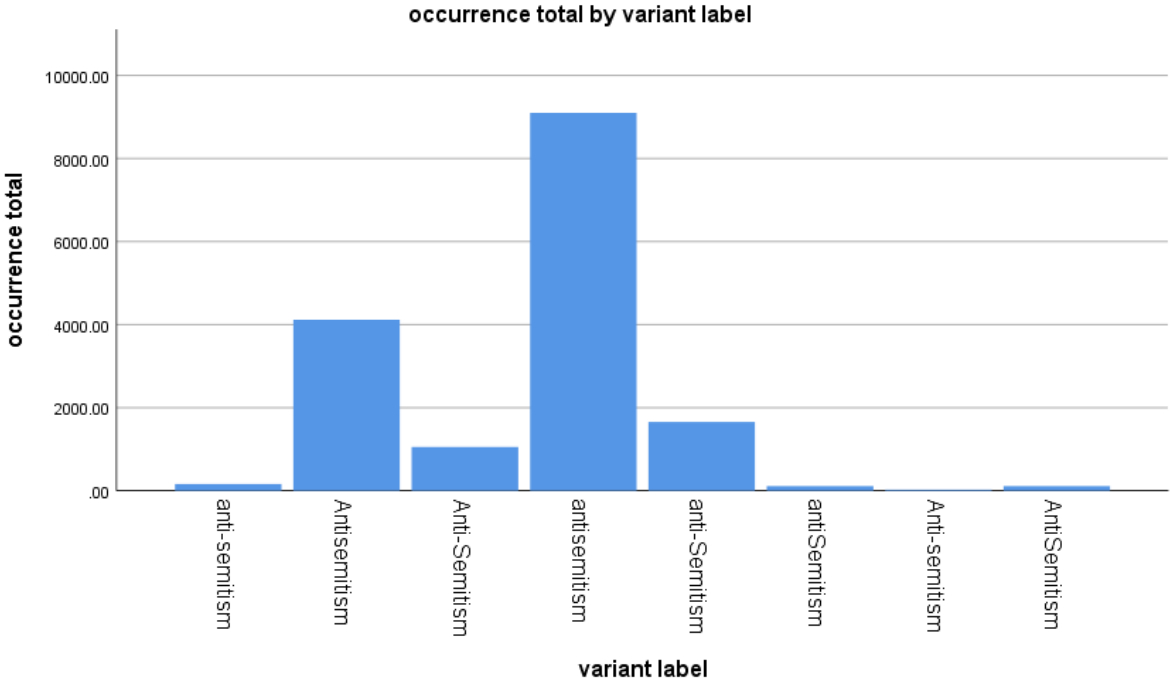
V1 = 'anti-semitism'; V2 = 'Antisemitism'; V3 = 'Anti-Semitism'; V4 = 'antisemitism';
V5 = 'anti-Semitism'; V6 = 'antiSemitism'; V7 = 'Anti-semitism'; V8 = 'AntiSemitism'

Note that:

- eight of the fourteen sources demonstrate a **preference, on the basis of raw occurrence rates, for the variant 'antisemitism'** – shown as V4 in Table 1 (i.e. *Community Security Trust*; *All-party Parliamentary Group; International Holocaust Remembrance Alliance*; *The Guardian Open Platform*; *Bing Cognitive API*; *FAROO Web API*; *FAROO News API*; *SocialSearcher*);
- the remaining six sources (i.e. *Labour Party Manifesto 2017*; *The American Israel Public Affairs Committee*; *The American Jewish Committee*; *Anti-defamation League*; *Hadassah*; *Christians United for Israel*) demonstrate a **preference, on the basis of raw occurrence rates, for 'anti-Semitism'** - shown as V5 in Table 1;
- the most frequent target term overall, when considering raw frequencies across all fourteen sources, is **'antisemitism'** (see Figure 2).

[2] Raw occurrences were calculated as follows: each target term was entered manually into the 'advanced search' field. The 'match case' and 'find whole words only' filters were activated, and the 'find all in current document' search function was applied.
[3] An alternative search function (i.e. 'count') was trialled in the first instance. However, as some results were computed as (in)valid instances automatically and erroneously, the 'find all in current document' function was selected to permit manual checks.

Figure 2: raw occurrence totals by variant label



Graphs 1-16, provided in Appendix 2, capture each of the target terms individually, in order to highlight their raw occurrences (by date range), according to (a) source and (b) genre type. Collectively, the results gleaned from our analysis of the raw occurrence counts lead us to conclude that:

- variant choice appears to have been moderated, in part, by cultural, conventional, and temporal factors;
- to make (more) confident/meaningful observations, further explorations would require the use of normalised (as opposed to raw frequency) occurrences of each target term across the sources.

The last bullet point relates to the fourteen sources being of varying sizes. A normalisation procedure was thus effected in order to determine an 'occurrence per thousand word' value for each target term.[4] We list the normalised occurrence values for each source in Table 3, taking care to highlight the target term used most frequently by each source.

Table 3: occurrence rates following normalisation (i.e. per thousand words)

Source	V1	V2	V3	V4	V5	V6	V7	V8
Community Security Trust	0.04	0.00	0.04	**3.28**	0.17	0.00	0.01	0.00
All-party Parliamentary Group	0.00	1.86	0.21	**4.18**	0.55	0.00	0.01	0.00
International Holocaust Remembrance Alliance	0.00	0.06	0.02	**0.46**	0.02	0.00	0.00	0.00
Labour Party Manifesto 2017	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00
The American Israel Public Affairs Committee	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
The American Jewish Committee	0.00	0.02	0.58	0.01	**0.73**	0.03	0.01	0.02
Anti-defamation League	0.00	0.03	0.04	0.07	**0.41**	0.00	0.00	0.00
Hadassah	0.00	0.00	0.24	0.00	**0.37**	0.00	0.00	0.00
Christians United for Israel	0.72	0.00	0.09	0.00	**0.27**	0.00	0.00	0.00
The Guardian Open Platform	2.36	7.03	0.14	**45.28**	0.49	0.00	0.00	0.00

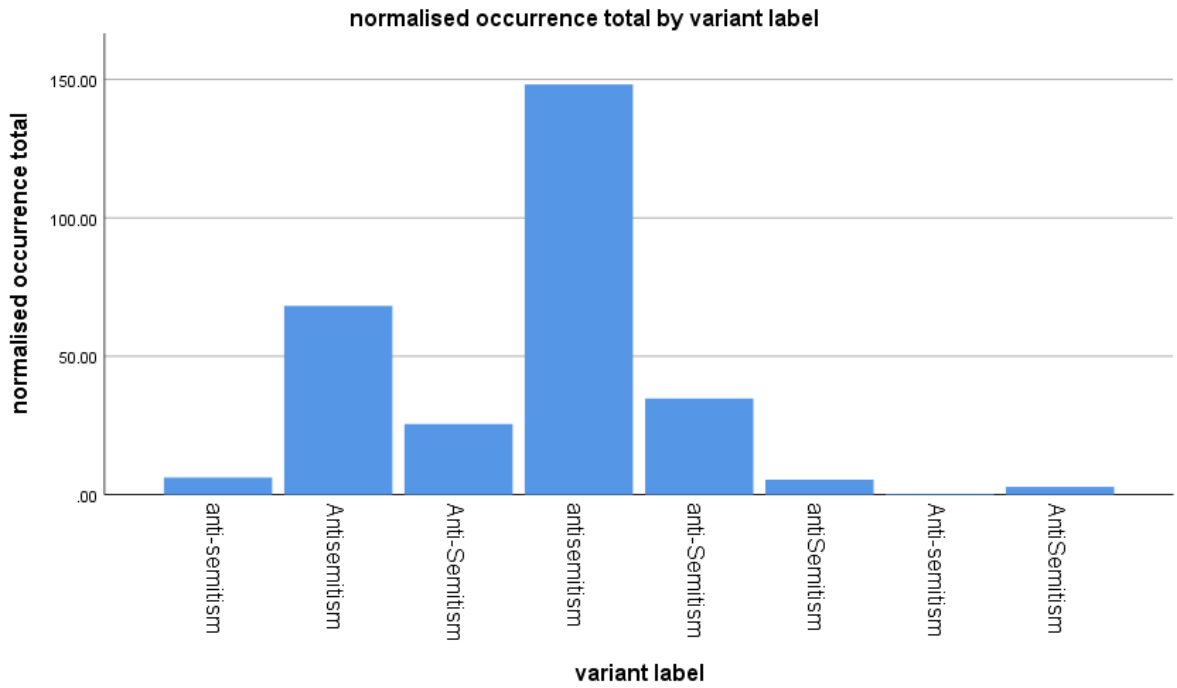
[4] *([raw occurrences per source]/[source word count])x1000*

Bing Cognitive API	1.32	16.24	12.63	**26.65**	14.81	0.00	0.19	0.00
FAROO Web API	0.23	23.29	2.57	**39.92**	4.38	0.00	0.07	0.59
FAROO News API	0.34	17.95	5.94	**21.76**	7.77	0.00	0.00	1.91
SocialSearcher	1.17	1.75	3.03	**6.54**	4.62	5.42	0.00	0.27

V1 = 'anti-semitism'; V2 = 'Antisemitism'; V3 = 'Anti-Semitism'; V4 = 'antisemitism'; V5 = 'anti-Semitism'; V6 = 'antiSemitism'; V7 = 'Anti-semitism'; V8 = 'AntiSemitism'

Figure 3 provides a visual representation of the above values.

Figure 3: normalised occurrence totals by variant



Note, that **'antisemitism' is still the preferred variant**, following normalisation. As before, we have created graphs capturing the normalised occurrences of each of the target terms (by date range)—but, on this occasion, according to the source they appear in only: see Graphs 17-24, provided in Appendix 3. Collectively, the results outlined in Table 3 and Graphs 17–24 allow us to make the following observations:

- as previously mentioned, **'antisemitism'** achieved the highest (overall) normalised occurrence rate of the eight variants (even though it did not appear with great frequency in any of the sources). By source, its five-highest occurrence rates were, in descending order, those of *The Guardian Open Platform*, *FAROO Web API*, *Bing Cognitive API*, *FAROO News API,* and *Social Searcher*. It also appeared, at lower occurrence rates, in *Community Security Trust*, *All-Party Parliamentary Group*, and *International Holocaust Remembrance Alliance*. It occurred most frequently in (a) *The American Jewish Committee* and *Community Security Trust* for the 1909–2009 period, and in (b) *Social Searcher, Anti-defamation League, Hadassah,* and *Christians United for Israel* for the 2009–2019 period
- two of the variants - **'anti-semitism'** and **'Antisemitism'** - appear to be more contemporary usages (according to our sources, at least), although 'Antisemitism' does feature (albeit with low frequency) within one of the 1909-2009 sources

- **'anti-semitism'** occurred, near-exclusively, in the period ranging 2009–2019. Its highest normalised rates, in descending order, occur within *Social Searcher*, *Christians United for Israel*, *The American Israel Public Affairs Committee*, *Anti-defamation League*, and *Bing Cognitive API*.
- '**Antisemitism'** occurred, by majority, in the period ranging 2009–2019. Its highest normalised rates, in descending order, occur within *All-party Parliamentary Group*, *Social Searcher*, *FAROO Web API*, *FAROO News API*, *Christians United for Israel*, and *Hadassah*. In the 1909–2009 period, it occurs within the *Community Security Trust*

- the remaining variants appear to have been used historically as well as more recently (like 'antisemitism'), although all tended to occur in moderation and only in a selection of the sources
  - **'Anti-Semitism'** occurred most frequently in (a) *The American Jewish Committee* and *Community Security Trust* in the 1909–2009 period, and (b) the *Social Searcher*, *Hadassah*, *Christians United for Israel*, *FAROO News API*, and *All-party Parliamentary Group* in the 2009–2019 period
  - **'anti-Semitism'** occurred most frequently in (a) *The American Jewish Committee* and *Community Security Trust* in the 1909–2009 period and (b) the *Social Searcher*, *All-party Parliamentary Group*, *FAROO News API*, *Bing Cognitive API*, *FAROO News API*, and *The American Israel Public Affairs Committee* in the 2009–2019 period
  - '**antiSemitism'** occurred most frequently in (a) *The American Jewish Committee* and *Community Security Trust* in the 1909-2009 period and (b) the *Social Searcher*, *Christians United for Israel*, and *Hadassah* in the 2009–2019 period
  - '**Anti-semitism'** occurred most frequently in (a) *Community Security Trust* and *The American Jewish Committee* in the 1909-2009 period and (b) the *All-party Parliamentary Group*, *Social Searcher*, and *Christians United for Israel* in the 2009–2019 period
  - '**AntiSemitism'** occurred most frequently in (a) *The American Jewish Committee* and *Community Security Trust* in the 1909-2009 period and (b) the *Social Searcher*, *Christians United for Israel*, and *Hadassah* in the 2009-2019 period

Table 8 (below) provides a summary of the occurrences of the eight variants, according to genre type.

Table 8: tabular overview of the eight variants according to genre type (ranked in descending order)

	V1	**V2**	**V3**	**V4**
1909–2009	policy	policy	policy	Policy
2019–2019	policy reportage social media	policy reportage	policy social media reportage	policy reportage social media
	V5	**V6**	**V7**	**V8**
1909–2009	policy	policy	policy	policy
2019–2019	policy social media reportage	social media policy reportage	policy social media reportage	social media policy reportage

V1 = 'anti-semitism'; V2 = 'Antisemitism'; V3 = 'Anti-Semitism'; V4 = 'antisemitism'; V5 = 'anti-Semitism'; V6 = 'antiSemitism'; V7 = 'Anti-semitism'; V8 = 'AntiSemitism'

4. Insight gained via computational analysis

Having established the frequencies of the eight target terms, over a 110-year period (1909-2009; 2009-2019), it is now important to determine which variant of the eight appears to be the most neutral – by determining whether (and, if so, the extent to which) any (or all) correlate with problematic as well as non-problematic usages. The size of the sources renders a close reading approach prohibitive at this stage (but see Section 5). This section therefore reports on our use of an automated computational analysis system in order to assess whether any of our fourteen sources contain linguistic markers believed to characterise sensitive content. The following markers have been used by others to determine the linguistic features of 'hate speech' (ElSherief et al. 2018), 'radical violence' (Cohen et al. 2014), and 'extremism' (Litvinova and Litvinova, 2018), for example:

Table 9: linguistic markers previously associated with "sensitive content"

Sensitivity type	'extremism'	'radical violence'	'hate speech' (generalised)	'hate speech' (directed)
Researchers	(Litvinova & Litvinova, 2018)	(Cohen et al. 2014)	(ElSerief et al. 2018)	
Category (subcategory, marker(s)) drawn upon	pronouns plural; first person ('we'); third person ('they') pronouns generic; second person ('you') pronouns singular; second person ('you') negation ('n't') personal concerns (religion) emotion positive emotion anger social processes	pronouns plural; first person ('we'; 'us'); third person ('they') verbs auxiliary ('will'; 'going'; 'should') personal concerns (named entities or issues) adjectives (positive + in-group direct reference; negative + out-group direct reference) emotion (positive + out-group misfortune; negative + in-group misfortune) lexical ('duty'; 'honour'; 'justice')	personal pronouns ('I', 'we', 'you', 'she'/'he', 'they') personal concerns (religion, ethnicity) references (death) summary (analytic, authentic, clout, tone) psychological processes (social, informal, affective, biological) negative emotions (anxiety, anger, sadness) temporal focus (past, present, future) personal concerns (sexual, work, leisure, home, money, religion, death)	personal pronouns ('I', 'we', 'you'. 'she'/'he', 'they') personal concerns (named entities) summary (analytic, authentic, clout, tone) psychological processes (social, informal, affective, biological) negative emotions (anxiety, anger, sadness) temporal focus (past, present, future) personal concerns (sexual, work, leisure, home, money, religion, death)

These researchers identified their linguistic markers using LIWC 2015 (Pennebaker et al. 2015). This 'Linguistic Inquiry and Word Count' tool engages in text-analysis based on eighty-two variables. They are represented variously by four main categories (that also contain subcategories): 'summary', 'linguistic dimensions', 'other grammar', and 'psychological processes'. 'Summary' variables are reported as an overall score, ranging 0–100, which is computed on the basis of multivariate interactions. The variables of the other categories are reported as percentage values of the source word count. It is worth noting, however, that a given percentage value relates only to items within the text that are recognised by the internal dictionary.

In line with our objective of finding the most neutral (i.e. least socio-culturally charged) variant according to usage patterns (based on normalised occurrences[5]), we have used the same tool— LIWC— to identify the linguistic markers highlighted in Sections 4.1-4.4. (following). Please note,

[5] Following the computation process using LIW, raw results were normalised, using the process: *([LIWC variable scores total]/[source word count])x1000*. Both the raw and the normalised results are provided below.

however, that, although these linguistic markers are based on the aforementioned research studies, the existence of any within a particular source constitutes (for us) evidence of that source's *potentially problematic nature only*. This is NOT the same as concluding that the occurrence of the linguistic features means we have also conclusively found evidence of 'hate speech', 'radical violence' and/or 'extremism' within a source or sources. We highlight this distinction because of the meaning of the target term (regardless of its spelling): i.e., 'Hostility and prejudice directed against Jewish people; (also) the theory, action, or practice resulting from this' (OED Online, accessed 10/06/2019). We must thus allow for the possibility that a close reading of the texts might uncover authors doing one or more of the following:

- reporting on an individual's or group's (purported) prejudicial practices against a Jew or Jews
- providing evidence of prejudicial practices against Jews
- accusing of and/or criticising another or others for their prejudicial views, behaviour, practices, etc.
- refuting claims that a specific individual, individuals or group to which they are aligned hold prejudicial views against and/or have acted on such views in relation to a Jew or Jews because of their ethnicity
- countering accusations of prejudice / prejudicial behaviour made against themselves or a member of their family, group, etc.

The steps taken in Sections 4.1. to 4.4. are deemed to be worthwhile, nonetheless, because they provide us with a sense of which of the eight target terms tend to co-occur more or less frequently with what we have characterised above as potentially sensitive content - on the assumption that such co-occurrence has the potential to "colour" the ways in which readers might interpret the target term itself. The latter builds on the (now widely accepted) proposition that when we use words, they become more than their denotative meaning, given their capacity to be shaped by - as well as to help shape - their context of use.

4.1. Linguistic markers (associated with extremism)

To isolate the source(s) most relevant to extremism, all sources were screened against the following— note that, as these items display a positive trend, the highest scores are pertinent:

- 'we', 'they', and 'you' items of the 'personal pronouns' subcategory of the 'linguistic dimensions' category
- 'negations' subcategory of the 'linguistic dimensions' category
- 'religion' item of the 'personal concerns' subcategory of the 'psychological processes' category
- 'social processes' subcategory of the 'psychological processes' category

Tables 10a and 10b (below) display the raw LIWC scores and Normalised LIWC scores respectively.

Table 10a: raw LIWC scores
(sum of variable scores) – "extremism"

Source	Total
9_Hadassah.TXT	16.45
8_Anti-defamationLeague.txt	15.28
5_LabourManifesto2017.txt	13.33
7_AmericanJewishCommittee.txt	13.44
3_All-partyParliamentaryGroup.txt	12.46
10_ChristiansUnitedforIsrael.txt	11.79
11_TheGuardianOpenPlatform.txt	10.35
2_CommunitySecurityTrust.txt	10.35
6_AmericanIsraelPublicAffairsCommittee.txt	8.30
14_FAROONewsAPI.txt	8.24
13_FAROOWebAPI.TXT	8.01
15_SocialSearcher.txt	7.39
4_InternationalHolocaustRemembranceAlliance.txt	7.26
12_BingCognitiveAPI.txt	6.65

Table 10b: normalised LIWC scores
(sum of variable scores) – "extremism"

Source	Total
9_Hadassah.TXT	1.00
11_TheGuardianOpenPlatform.txt	0.71
5_LabourManifesto2017.txt	0.54
10_ChristiansUnitedforIsrael.txt	0.46
15_SocialSearcher.txt	0.39
14_FAROONewsAPI.txt	0.31
12_BingCognitiveAPI.txt	0.24
13_FAROOWebAPI.TXT	0.10
8_Anti-defamationLeague.txt	0.05
3_All-partyParliamentaryGroup.txt	0.03
7_AmericanJewishCommittee.txt	0.02
2_CommunitySecurityTrust.txt	0.01
4_InternationalHolocaustRemembranceAlliance.txt	0.01
6_AmericanIsraelPublicAffairsCommittee.txt	0.01

Collectively, the results outlined in Tables 10a/b lead us to make the following observations:

- none of the sources have particularly high scores (raw or normalised)
- the five highest raw LIWC scores (capturing linguistic markers others have associated with extremism), in descending order, were those of *Hadassah*, *Anti-defamation League*, *Labour Manifesto 2017*, *American Jewish Committee*, and *All-party Parliamentary Group*
- the five highest normalised LIWC scores, in descending order, displayed some differences, however, namely *Hadassah*, *The Guardian Open Platform*, *Labour Manifesto 2017*, *Christians United for Israel*, and *Social Searcher*
- the presence of policy documents, here, is somewhat unsurprising, as is the representation of social media
- it is a little unusual to find *Hadassah* and the *Labour Manifesto 2017* so high within the rankings (raw and normalised), however, given both have low word counts (with each representing 1% of the total word count for the fourteen sources combined)

4.2. Linguistic markers (associated with radical violence)

To isolate the source(s) most relevant to radical violence, all sources were screened against the following— note that, as these items display a positive trend, the highest scores are pertinent:

- 'auxiliary verbs' subcategory of the 'linguistic dimensions' category
- 'we' and 'they' items of the 'personal pronouns' subcategory of the 'linguistic dimensions' category

To isolate the source(s) most relevant to hate speech (generalised), all sources were screened against the following—note that, as these items display a positive trend, the highest scores are pertinent:

- 'analytic' subcategory of the 'summary category'

- ‘she/he’ and ‘they’ items of the ‘personal pronouns’ subcategory of the ‘linguistic dimensions’ category
- ‘anxiety’ and ‘anger’ items of the ‘negative emotions’ subcategory of the ‘affective processes’ subcategory of the ‘psychological processes’ category
- ‘past focus’ and ‘present focus’ items of the ‘time orientations’ subcategory of the ‘psychological processes’ category
- ‘sexual’ item of the ‘biological processes’ subcategory of the ‘psychological processes’ category
- ‘death, and ‘religion’ items of the ‘personal concerns’ subcategory of the ‘psychological processes’ category

In addition, all sources were screened against the following—note that, as these items display a negative trend, the lowest scores are pertinent:

- ‘authentic’, ‘clout’, and ‘tone’ subcategories of the ‘summary’ category
- ‘social processes’ and ‘informal language’ subcategories of the ‘psychological processes’ category
- ‘I’ and ‘you’ items of the ‘personal pronouns’ subcategory of the ‘linguistic dimensions’ category
- ‘sadness’ item of the ‘negative emotions’ subcategory of the ‘affective processes’ subcategory of the ‘psychological processes’ category
- ‘future focus’ item of the ‘time orientation’ subcategory of the ‘psychological processes’ category
- ‘work’, ‘leisure’, ‘home’, and ‘money’ items of the ‘personal concerns’ subcategory of the ‘psychological processes’ category

Tables 11a and 11b (below) display the raw LIWC scores and Normalised LIWC scores respectively.

Table 11a: radical violence raw LIWC scores
(sum of variable scores)

Source	Total
5_LabourManifesto2017.txt	10.01
7_AmericanJewishCommittee.txt	7.01
3_All-partyParliamentaryGroup.txt	6.76
8_Anti-defamationLeague.txt	6.31
2_CommunitySecurityTrust.txt	5.81
6_AmericanIsraelPublicAffairsCommittee.txt	5.04
10_ChristiansUnitedforIsrael.txt	4.98
4_InternationalHolocaustRemembranceAlliance.txt	4.65
11_TheGuardianOpenPlatform.txt	4.64
9_Hadassah.TXT	4.35
12_BingCognitiveAPI.txt	3.27
15_SocialSearcher.txt	3.07
13_FAROOWebAPI.TXT	2.86
14_FAROONewsAPI.txt	2.30

Table 11b: radical violence normalised LIWC scores
(sum of variable scores)

Source	total
5_LabourManifesto2017.txt	0.41
11_TheGuardianOpenPlatform.txt	0.32
9_Hadassah.TXT	0.26
10_ChristiansUnitedforIsrael.txt	0.22
15_SocialSearcher.txt	0.16
12_BingCognitiveAPI.txt	0.12
14_FAROONewsAPI.txt	0.08
8_Anti-defamationLeague.txt	0.05
13_FAROOWebAPI.TXT	0.03
7_AmericanJewishCommittee.txt	0.02
3_All-partyParliamentaryGroup.txt	0.02
6_AmericanIsraelPublicAffairsCommittee.txt	0.01
2_CommunitySecurityTrust.txt	0.01
4_InternationalHolocaustRemembranceAlliance.txt	0.01

Collectively, the results outlined in Tables 11a–b led to the following observations:

- the five highest raw LIWC scores (capturing linguistic markers others have associated with radical violence), in descending order, were those of *Labour Manifesto 2017*, *American Jewish Committee*, *All-party Parliamentary Group*, *Anti-defamation League*, and *Community Security Trust*

- the five highest normalised LIWC scores (capturing linguistic markers others have associated with radical violence), in descending order, were those of *Labour Manifesto 2017*, *The Guardian Open Platform*, *Hadassah*, *Christians United for Israel,* and *Social Searcher*
- the inclusion of policy documents that deal with problematic usages is unsurprising, as is the representation of social media
- as with the previous results (capturing linguistic markers others have associated with extremism), Hadassah and the Labour Manifesto 2017 are present, once again, in spite of their low word counts (each representing 1% of the total word count for the fourteen sources combined)

4.3. Linguistic markers (associated with hate speech: generalised)

This and the following section (4.4) deal with hate speech: generalised and hate speech: directed respectively. We have subdivided hate speech in this way, in line with the work of the aforementioned researchers. Their rationale appears to be that they represent two very different forms that serve distinct communicative functions. The directed form addresses a target that is named (either implicitly or explicitly), whereas generalised hate speech neither implicitly nor explicitly specifies a *single* target. Instead, the target appears to be that of a group, which, moreover, is often ambiguously (and often stereotypically framed). Consolidating these markers would potentially skew the data in a manner that would undermine the utility of the markers identified.

To isolate the source(s) most relevant to hate speech (generalised), then, all sources were screened against the following—note that, as these items display a positive trend, the highest scores are pertinent:

- 'analytic' subcategory of the 'summary category'
- 'she/he' and 'they' items of the 'personal pronouns' subcategory of the 'linguistic dimensions' category
- 'anxiety' and 'anger' items of the 'negative emotions' subcategory of the 'affective processes' subcategory of the 'psychological processes' category
- 'past focus' and 'present focus' items of the 'time orientations' subcategory of the 'psychological processes' category
- 'sexual' item of the 'biological processes' subcategory of the 'psychological processes' category
- 'death, and 'religion' items of the 'personal concerns' subcategory of the 'psychological processes' category

In addition, all sources were screened against the following—note that, as these items display a negative trend, the lowest scores are pertinent:

- 'authentic', 'clout', and 'tone' subcategories of the 'summary' category
- 'social processes' and 'informal language' subcategories of the 'psychological processes' category
- 'I' and 'you' items of the 'personal pronouns' subcategory of the 'linguistic dimensions' category
- 'sadness' item of the 'negative emotions' subcategory of the 'affective processes' subcategory of the 'psychological processes' category
- 'future focus' item of the 'time orientation' subcategory of the 'psychological processes' category

- ‘work’, ‘leisure’, ‘home’, and ‘money’ items of the ‘personal concerns’ subcategory of the ‘psychological processes’ category

The results are divided into positive and negative trend following the aforementioned researchers’ division of their data in this way. This is because it is cleaner, analytically, to treat positive and negative separately: as accounting for the additive and subtractive qualities of positive and negative trends simultaneously can result in a signal cancelling effect. Simply put, the negative trend values would dampen those of the positive trend, and vice versa. In consequence, the result would be a series of low-value scores that illustrate ranks, but not the details of those ranks.

Tables 12a to 13b (below) display the raw LIWC scores and Normalised LIWC scores for positive trend and negative trend respectively.

Table 12a: hate speech (generalised) raw LIWC scores (positive trend; sum of variable scores)

Source	Total
8_Anti-defamationLeague.txt	111.83
10_ChristiansUnitedforIsrael.txt	111.61
2_CommunitySecurityTrust.txt	111.25
3_All-partyParliamentaryGroup.txt	110.88
6_AmericanIsraelPublicAffairsCommittee.txt	109.95
13_FAROOWebAPI.TXT	109.71
11_TheGuardianOpenPlatform.txt	109.25
14_FAROONewsAPI.txt	109.05
4_InternationalHolocaustRemembranceAlliance.txt	108.91
12_BingCognitiveAPI.txt	108.82
15_SocialSearcher.txt	108.71
9_Hadassah.TXT	108.28
7_AmericanJewishCommittee.txt	107.28
5_LabourManifesto2017.txt	104.93

Table 12b: hate speech (generalised) normalised LIWC scores (positive trend; sum of variable scores)

Source	Total
11_TheGuardianOpenPlatform.txt	7.50
9_Hadassah.TXT	6.50
15_SocialSearcher.txt	5.77
10_ChristiansUnitedforIsrael.txt	5.01
5_LabourManifesto2017.txt	4.31
14_FAROONewsAPI.txt	4.15
12_BingCognitiveAPI.txt	4.09
13_FAROOWebAPI.TXT	1.30
8_Anti-defamationLeague.txt	1.04
7_AmericanJewishCommittee.txt	0.36
3_All-partyParliamentaryGroup.txt	0.35
6_AmericanIsraelPublicAffairsCommittee.txt	0.21
2_CommunitySecurityTrust.txt	0.17
4_InternationalHolocaustRemembranceAlliance.txt	0.16

Table 13a: hate speech (generalised) raw LIWC scores (negative trend; sum of variable scores)

Source	total
13_FAROOWebAPI.TXT	92.58
12_BingCognitiveAPI.txt	93.74
14_FAROONewsAPI.txt	96.59
15_SocialSearcher.txt	97.73
2_CommunitySecurityTrust.txt	112.13
4_InternationalHolocaustRemembranceAlliance.txt	113.82
10_ChristiansUnitedforIsrael.txt	119.93
8_Anti-defamationLeague.txt	121.52
6_AmericanIsraelPublicAffairsCommittee.txt	128.73
7_AmericanJewishCommittee.txt	131.27

Table 13b: hate speech (generalised) normalised LIWC scores (negative trend; sum of variable scores)

Source	Total
2_CommunitySecurityTrust.txt	0.17
4_InternationalHolocaustRemembranceAlliance.txt	0.17
6_AmericanIsraelPublicAffairsCommittee.txt	0.25
7_AmericanJewishCommittee.txt	0.44
3_All-partyParliamentaryGroup.txt	0.45
13_FAROOWebAPI.TXT	1.10
8_Anti-defamationLeague.txt	1.13
12_BingCognitiveAPI.txt	3.52
14_FAROONewsAPI.txt	3.68
15_SocialSearcher.txt	5.19
10_ChristiansUnitedforIsrael.txt	5.39
5_LabourManifesto2017.txt	7.95
11_TheGuardianOpenPlatform.txt	9.50

11_TheGuardianOpenPlatform.txt	136.61
3_All-partyParliamentaryGroup.txt	142.73
5_LabourManifesto2017.txt	193.24
9_Hadassah.TXT	211.37

9_Hadassah.TXT	12.88

Collectively, the results outlined in Tables 12a–13b lead us to make the following observations:

- the five highest raw LIWC scores (capturing linguistic markers others have associated with hate speech - generalised; positive trend), in descending order, were those of *Anti-defamation League*, *Christians United for Israel*, *Community Security Trust*, *All-party Parliamentary Group*, and *American Israel Public Affairs Committee*
- the five highest raw LIWC scores (capturing linguistic markers others have associated with hate speech - generalised; negative trend), in descending order, were those of *FAROO Web API*, *Bing Cognitive API*, *FAROO News API*, *Social Searcher*, and *Community Security Trust*
- the five highest normalised LIWC scores (capturing linguistic markers others have associated with hate speech - generalised; positive trend), in descending order, were those of *The Guardian Open Platform*, *Hadassah*, *Social Searcher*, *Christians United for Israel,* and *Labour Manifesto 2017*
- the five highest normalised LIWC scores (capturing linguistic markers others have associated with hate speech - generalised; negative trend), in descending order, were those of *Community Security Trust*, *International Holocaust Remembrance Alliance*, *American Israel Public Affairs Committee*, *American Jewish Committee*, and *All-party Parliamentary Group*

As before, the inclusion of policy documents that deal with problematic usages is unsurprising, as is the representation of social media. It is unusual, however, to find Hadassah and the Labour Manifesto 2017 present once again, owing to their low word counts (with each representing 1% of the total corpus respectively). It is also interesting that Hadassah appears in relation to the normalised, positive trend psychometrics only.

4.4. Linguistic markers (associated with hate speech: directed)

To isolate the source(s) most relevant to hate speech (directed), all sources were screened against the following—note that, as these items display a positive trend, the highest scores are pertinent:

- 'clout' subcategory of the 'summary' category
- 'social processes' and 'informal language' subcategories of the 'psychological processes' category
- 'you' item of the 'personal pronouns' subcategory of the 'linguistic dimensions' category
- 'anger' and 'sadness' items of the 'negative emotions' subcategory of the 'affective processes' subcategory of the 'psychological processes' category
- 'past focus' and 'present focus' items of the 'time orientation' subcategory of the 'psychological processes' category
- 'sexual' item of the 'biological processes' subcategory of the 'psychological processes' category
- 'religion', and 'death' items of the 'personal concerns' subcategory of the 'psychological processes' category

In addition, all sources were screened against the following—note that, as these items display a negative trend, the lowest scores are pertinent:

- 'analytic', 'authentic', and 'tone' subcategories of the 'summary' category
- 'I', 'we', 'he/she', and 'they' items of the 'personal pronouns' subcategory of the 'linguistic dimensions' category
- 'anxiety' item of the 'negative emotions' subcategory of the 'affective processes' subcategory of the 'psychological processes' category
- 'work', 'leisure', 'home', and 'money' items of the 'personal concerns' subcategory of the 'psychological processes' category

Tables 14a to 15b (below) display the raw LIWC scores and Normalised LIWC scores for positive trend and negative trend respectively.

Table 14a: hate speech (directed) raw LIWC scores (positive trend; sum of variable scores)

Source	Total
9_Hadassah.TXT	104.88
5_LabourManifesto2017.txt	99.70
8_Anti-defamationLeague.txt	97.69
3_All-partyParliamentaryGroup.txt	91.38
11_TheGuardianOpenPlatform.txt	89.58
14_FAROONewsAPI.txt	84.87
7_AmericanJewishCommittee.txt	83.41
2_CommunitySecurityTrust.txt	81.51
10_ChristiansUnitedforIsrael.txt	80.85
6_AmericanIsraelPublicAffairsCommittee.txt	79.89
15_SocialSearcher.txt	77.26
4_InternationalHolocaustRemembranceAlliance.txt	73.36
13_FAROOWebAPI.TXT	72.78
12_BingCognitiveAPI.txt	68.60

Table 14b: hate speech (directed) normalised LIWC scores (positive trend; sum of variable scores)

Source	total
9_Hadassah.TXT	6.39
11_TheGuardianOpenPlatform.txt	6.23
15_SocialSearcher.txt	4.10
5_LabourManifesto2017.txt	4.10
10_ChristiansUnitedforIsrael.txt	3.63
14_FAROONewsAPI.txt	3.23
12_BingCognitiveAPI.txt	2.57
8_Anti-defamationLeague.txt	0.90
13_FAROOWebAPI.TXT	0.86
3_All-partyParliamentaryGroup.txt	0.29
7_AmericanJewishCommittee.txt	0.28
6_AmericanIsraelPublicAffairsCommittee.txt	0.15
2_CommunitySecurityTrust.txt	0.12
4_InternationalHolocaustRemembranceAlliance.txt	0.11

Table 15a: hate speech (directed) raw LIWC scores (negative trend; sum of variable scores)

Source	Total
14_FAROONewsAPI.txt	117.74
15_SocialSearcher.txt	127.24
13_FAROOWebAPI.TXT	127.44
12_BingCognitiveAPI.txt	132.29
8_Anti-defamationLeague.txt	132.93
2_CommunitySecurityTrust.txt	138.80
10_ChristiansUnitedforIsrael.txt	147.85
4_InternationalHolocaustRemembranceAlliance.txt	147.85
7_AmericanJewishCommittee.txt	153.77
11_TheGuardianOpenPlatform.txt	154.28
6_AmericanIsraelPublicAffairsCommittee.txt	155.85
3_All-partyParliamentaryGroup.txt	160.44
5_LabourManifesto2017.txt	196.59
9_Hadassah.TXT	213.70

Table 15b: hate speech (directed) normalised LIWC scores (negative trend; sum of variable scores)

Source	Total
2_CommunitySecurityTrust.txt	0.22
4_InternationalHolocaustRemembranceAlliance.txt	0.22
6_AmericanIsraelPublicAffairsCommittee.txt	0.31
3_All-partyParliamentaryGroup.txt	0.51
7_AmericanJewishCommittee.txt	0.52
8_Anti-defamationLeague.txt	1.23
13_FAROOWebAPI.TXT	1.51
14_FAROONewsAPI.txt	4.48
12_BingCognitiveAPI.txt	4.97
10_ChristiansUnitedforIsrael.txt	6.64
15_SocialSearcher.txt	6.76
5_LabourManifesto2017.txt	8.08
11_TheGuardianOpenPlatform.txt	10.73
9_Hadassah.TXT	13.02

Collectively, the results outlined in Tables 14a–15b lead us to the following observations:

- the five highest raw LIWC scores (capturing linguistic markers others have associated with hate speech - directed; positive trend), in descending order, were those of *Hadassah*, *Labour Manifesto 2017*, *Anti-defamation League*, *All-party Parliamentary Group*, and *The Guardian Open Platform*

- the five highest raw LIWC scores correspondent to hate speech (directed; negative trend), in descending order, were those of *FAROO News API*, *Social Searcher*, *FAROO Web API*, *Bing Cognitive API*, and *Anti-defamation League*
- the five highest normalised LIWC scores (capturing linguistic markers others have associated with hate speech - directed; positive trend), in descending order, were those of *Hadassah*, *The Guardian Open Platform*, *Social Searcher*, *Labour Manifesto 2017,* and *Christians United for Israel*
- the five highest normalised LIWC scores (capturing linguistic markers others have associated with hate speech - directed; negative trend), in descending order, were those of *Community Security Trust*, *International Holocaust Remembrance Alliance*, *American Israel Public Affairs Committee*, *All-party Parliamentary Group*, and *American Jewish Committee*

The inclusion of policy documents that deal with problematic usages is unsurprising, as is the representation of social media. It is unusual, however, to find (once again) Hadassah and the Labour Manifesto 2017 present, owing to their low word counts (with each representing 1% of the total corpus respectively).

5. Wmatrix4 and AntConc results

Having established that the sources contained some potentially negative (tending toward pejorative) content/intent, based on the LIWC2015 scores, cross-sections of the sources were identified using a random sampling procedure, and then collated into eight datasets according to spelling variant. These variant-based datasets have then been explored (semi)automatically, using the corpus linguistic tools, Wmatrix4 (see 5.1) and AntConc (see 5.2).

5.1. Wmatrix4 results

Wmatrix4 is an online corpus analysis and comparison tool. Our rationale for using it was to find the statistical collocates of the target terms (i.e., spelling variants): that is, the words they consistently occurred with more than would be expected 'by chance' alone. The search terms were "semitism" when the target terms were hyphenated and "antisemitism" when the target terms contained no hyphen (as hyphenation appears to interfere with retrieval, but capitalised forms can easily be distinguished from their non-capitalised counterparts). Table 16 (below) captures the *statistical collocates* retrieved by each target term that were assigned a Log Likelihood score of 7 or above (6.63 is the cut-off for 99% confidence of significance). Emboldened items represent those words that collocate with more than one spelling variant.

Table 16: statistical collocates of the target terms (shown in alphabetical order)[6]

Target term	V1 – 'anti-semitism' [= 21]	V2 – 'Antisemitism' [= 614]
Statistical collocate(s)	abuse, Antisemitism, antisemitism, cited, exists, expression, globalised, hatred, https, last, least, opportunistic, partly, persisted, portal, Religion, results, satellite, television, two, Zoroastrianism	A, About, *Academic*, According, Act, Action, action, adapts, address, addressing, Addressing, ADL, administration, Affairs, Africa, After, Against, against, Age, age, Air, Alain, Albert, Alevism, Algeria, all, All, Although, America, American, among, Ancient, And, Anti, anti, Antisemithic, antisemitism, Antisemitisma, Antisemitismo, Antisemitismus, Antisemitismusforschung, APOTHEOSIS, appears, appg, appointment, APPROPRIATE, Arab, Arabia, Archive, Arf,

[6] The Log-Likelihood scores for each target were as follows: V1 ranged from 18.47 to 85.15; V2 ranged from 7.04 to 1958.52; V3 ranged from 7.03 to 524.48; V4 ranged from 7.00 to 2457.43; V5 ranged from 7.36 to 247.26; V6 ranged from 32.41 to 472.01; V7 ranged from 37.09 to 56.03; V8 ranged from 21.60 to 659.72.

		around, article, Association's, Australia, *author*, Awareness, Axed, Bankier, Barometer, begin, Beliefs, benchmark, Berkeley, Berlin, Bewegungen, Big, BIS, Blogs, brings, Britain, British, Buff, business, calendar, Campaign, *campus*, *Campus*, can, Canada, categories, Category, Catholic, Cause, caused, Censored, Center, Centuries, century, CERTAIN, chaired, challenge, Changing, charges, charity, CHOSEN, Christian, Christianity, circles, Cities, Coalition, Codes, COMBAT, COMBATING, COMBATTING, COMMISSIONED, commits, Committee, commonly, complexity, Concept, concept, Condemns, Conduct, Conference, conference, Confront, confront, considerable, considered, consisting, conspiring, Contemporary, contemporary, Contents, Context, continuation, continues, COORDINATION, Coordinator, Corbyn, core, Core, Countering, countering, country, Country, Creates, crisis, Criticism, criticism, Critique, Culture, Current, Daily, date, dealing, Debate, December, Declaration, Defining, defining, Definition, definition, definitions, den, Departmental, described, DEVELOPMENT, Diaspora, Dictionary, different, Digital, directed, Discount, discourse, Discrimination, Displaced, division, Documentary, documentary, DONATE, Earliest, early, Early, East, *Edited*, *edition*, *Education*, EFFECTIVE, EFFORTS, Eighteenth, Electoral, EMANCIPATION, Emergence, Empire, endangers, English, ENSURE, envoy, Era, established, establishment, Ethnicity, EUMC, Europas, Europe, Europe's, European, explained, *Exposition*, extent, External, extremists, Face, face, Facebook, faculty, faschistischen, features, Fifty, fight, Finkielkraut, Florida, Football, football, Forces, form, Forms, Forum, FOUND, Foundation, frameworks, France, French, frequently, From, FULL, Further, generally, German, Germany, Global, global, globalization, Gospel, Government, government, Government's, graffiti, Great, Greece, Group, Guide, Hadith, harm, Hasidism, Haskalah, heights, Hidden, Higher, highlight, Historical, Histories, history, History, Holocaust, Home, hostility, How, https, Hungary, Ida, Identify, ideology, implementation, IMPORTANCE, Improved, In, Inaction, increase, increased, Inequality, information, INITIATIVE, Inquiries, Inquiry, Institute, instrument, *Interdisciplinary*, International, Interview, Into, invoked, Iran, Iraqi, Islam, Islamic, Islamophobia, Israel, issues, its, itself, *Jahrbuch*, Japan, Japanese, Jeremy, Jerusalem's, Jewish, Jews, John, *Journal*, JPR, Judaism, Just, justify, *Kant*, Kingdom, labeled, Labour, Lawmakers, Lawrence, lead, League, *learned*, left, LEGACY, less, Letters, *Library*, *library*, Line, links, Lists, London, Look, look, Lviv, Made, Magid, Main, manifestations, Manifestations, manifested, manifests, Mar, Marie, Martin, Masonry, Meaning, Members, memoria, memory, Merkel, Middle, midst, Mitzvah, modern, Modern, Modernity, Money, More, movement, much, Muslim, Nation, National, Nationalsozialismus, Nature, nature, Nazi, needs2take, Network, New, new, news, No, non, Norway, noted, Nov, On, Opinion, Opposition, org/wiki/Antisemitism, Orientalism, Over, overview, Pakistan, Panel, Papers, parliament, Parliamentary, parliamentary, Part, partners, Party, party, PATRONS, PEAK, Pears, people, perception, Persecution, phenomenon, *Philosophy*, physical, Pittsburgh, Plagues, Podcast, Poland, policy, Policy, Polish, political, Politics, politics, portal, Posen, Posted, PRECISE, predates, prejudice, Prejudices, PREMIUM, prevalent, print, PRIZE, Problems, PROGRESS, Progressive, PROMOTE, PROMOTING, public, Questions, Qur'an, Race, Rachel, Racial, Racism, reached, Reason, recent, RECOMMENDATIONS, RECOMMENDED, Redefined, Redirected, reduce, refer, *Reference*, *reference*, *References*, referred, Reflections, Reformation, Refusenik, Related, related, Relations, Relativity, Religion, Religious, religious, Reluctant, reluctant, remains, repeatedly, Report, report, Reports, representatives, Republicans, *Research*, reside, resonance, resources, Resources, Response, Rethinking, Revolutionary, Rhetorical, Rights, rise, Rise, Rising, rising, Root, Roth, row, Russia, Russian, Sabbateans, Sassoon, Saudi, *Scholarly*, *school*, *Schools*, search, Second, Secondary, seek, senza, September, series, Series, serious, set, Shades, Share, Shaul, shooting, Since, situation, six, Socialism, Soros, Sources, South, Soviet, Spain, Spanish, SPECIAL, stages, started, States, status, Stormer, Streams, Struggle, *Student's*, *students*, *Students*, *Studies*, *Study*, *study*, *Studying*, subject, Sufis, suggests, SUITABLE, summarised, Summary, Survey, SWC, Sweden, Swedish, tackle, Tackle, tackling, Tackling, takes, taskforce, terms, *Test*, *test*, Testament, *textbooks*, that, The, *Theories*, Thought, threat, Three, Timeline, Times, To, today, Today, today's, TOLERANCE, topic, Topics, topics, *training*, TRUST, TRUTH, Turkey, TV, UC, UK, Ukraine, und, UNDERSTAND, Union, United, Uniyal, US, use, used, Uses, USSR, v, variety, Vashem, Venezuela, videos, VIJETA, Voices, Volunteer, Wagner, warning, Watson, way, Web, website, WELL, Western, widespread, Wikipedia, Wikiversity, Wiktionary, will, word, work, Working, world, World, Xenophobia, Yad, *Yale*, *Yale's*, year's, Yiddish, Zionism, Zoroastrianism
Target term	V3 – Anti-Semitism' [= 126]	V4 – 'antisemitism' [= 1,596]
Statistical collocate(s)	About, added, Adolf, Alienated, alive, America, Anti, Antisemitism, antisemitism, around, articles, Articles, Avoid	@jvplive, @LegInsurrection, =, A, Absence, absolute, abusive, *Academic*, ACCEPTED, accompanied, According, account, accusations, accuse, accused, accusing, across, act, action, actively, activists, activities, address, addresses, addressing, Addressing, adequately,

	BBC, become, Being, *Berkeley*, Britain, *Britannica*, Canary, Center, conform, Contemporary, Contents, Core, Correspondence, doesn't, Draft, East, *Educational*, Email, Europe, European, existed, exposes, Face, feeling, figures, following, four, France, Germany, getting, Great, Has, high, History, Holocaust, https, identified, increasing, Inquiry, Jewish, Jews, Kingdom, Kristallnacht, Labour, life, Lifestyle, Links, makes, Media, medieval, Medieval, mentioned, Middle, Mission, modern, Monday, months, Most, Nations, Nazi, Nazis, organized, Pakistan, Papers, Persecution, pervades, Podcast, Poland, Posen, Posted, problem, propaganda, Publication, Racism, recent, related, Religion, reported, Reports, *Research*, rise, rising, Row, row, rumor, Semitism, Series, share, Share, sharing, sources, South, Spartacus, States, story, strong, The, Timeline, today, Top, topics, UC, UK, United, used, Violent, Voice, Voices, watchdog, Websites, world, worse, Xenophobia	adhere, ADOPT, ADOPTED, ADOPTS, ADVANCED, advice, aegis, affected, Africa, African, Against, against, Ages, ages, aggressive, AGREE, AGREES, Airbnb, Alevism, ALIGN, alive, all, allegations, Allegations, alleged, alleging, Alliance, Alliance's, ALLOWED, ALLOWS, alone, alongside, Although, American, among, amongst, amount, An, analyses, ancient, and, Angela, anger, animosity, announced, annually, antagonism, Anthony, anti, Anti, antiquity, antisemite, Antisemitic, Antisemitism, antisemitism2, antisemitism256, Antisemitism336, antisemitism339, Antisemitism345, Antisemitism4, antisemitism44, Antisemitisma, antisemitisme, Antisemitismus, anxieties, apparent, apparently, appeared, appears, appg, apply, appointment, appoints, approach, Arab, Arabs, arbiter, Archive, Archived, Are, area, argue, argued, argues, Arguing, arguments, arises, arose, around, arrests, arrived, article, articles, as, aspect, aspects, asserted, asserts, assessment, assimilation, ASSISTS, Associated, associated, association, assumption, atmosphere, attempt, attempts, attendance, attention, attitude, attorney, ATTRACTED, attributable, ATTRIBUTE, attributed, ATTRIBUTES, August, Austin, authoritarians, authorities, average, avoided, aware, back, bad, banning, Banu, Barry, based, basic, basis, bearing, Bebel, became, become, becomes, begin, begins, behind, beliefs, believe, believes, benchmark, Berlin, Bernard, bias, Bible, binding, blaming, blatant, bodies, *Book*, *books*, Bostom, boy, breakdown, bridge, briefly, brings, Britain, Britain's, British, broadly, brought, Brustein, Bundestag, bury, But, calendar, calls, came, Campaign, Campaign, campaigns, *campus*, *campuses*, can, Canada, Canards, Carabajal, card, cases, casual, categories, categorise, categorised, categorize, Category, caused, Causes, causes, causing, CELEBRATING, CELEBRATION, center, Center, centuries, century, certain, challenge, challenges, challenging, Chancellor, Chancellors, changing, channeling, character, characterization, characterize, characterizes, charge, charges, charity, Chicago, chief, children, Christian, Christianity, chronicles, circulate, cited, Cities, citing, civil, Civil, civilised, claims, classic, classical, CLEAR, climate, close, Coalition, coalition, code, Codes, Cohen, COHESION, coincidence, coined, collapse, *college*, COMBAT, COMBATED, COMBATING, COMBATING, COMBATS, COMBATTING, combed, comes, coming, Comment, commenting, comments, commission, Commission, commit, commitments, commits, committee, Committee, committees, common, communicating, community, complaints, COMPLEMENTARY, complex, complexity, complicated, component, COMPREHENSIVE, comprises, compromise, concept, conception, conceptual, concern, concerned, concerning, Concerns, concerns, concerns82, concise, concrete, condemn, condemnation, condemned, condemning, conduct, Conference, conference, conflated, conflation, confront, confronting, confusing, connected, connection, consider, considerable, considered, considering, considers, constitute, constituted, constitutes, contemporary, Contemporary, content, Contents, context, continuation, continued, continues, Continuities, Contribute, contributed, contributing, control, controversies, controversy, Controversy, convergence, conveyed, COORDINATION, Corbyn, core, Cotler, could, counter, Countering, countering, country, cover, created, creates, crime, crisis, criteria, criticism, Criticism, criticized, criticizing, crying, CST, Cultural, cultural, culture, Current, current, damages, dangers, data, date, Day, deal, dealing, debate, debates, decade, decades, Declaration, decry, DEDICATION, deemed, Defamation, defamation, define, defined, defines, defining, Defining, definition, Definition, definitions, Definitions, defy, deliver, demonstrates, denial, denied, denouncing, Department's, deploys, deputies, Deputy, describe, described, describes, describing, Despite, detail, detailed, determining, developed, developing, development, developments, difference, Differing, difficulties, Digital, directed, disaggregated, disappear, disappeared, discarded, disciplinary, Discount, Discrimination, discrimination, discursive, discuss, discussed, discussing, discussion, discussions, disguised, dismisses, Displaced, dispositions, distinct, distinction, distinguish, distinguished, distinguishes, divide, dividing, domestically, dominant, double, downplaying, dramatically, draws, Dripping, driven, drives, drop, due, Duffield, Durban, Dyke, dynamics, earlier, early, EASE, EASIER, Eastern, EASY, economic, Economic, edifice, edition, EDL, *educate*, Edward, EFFECTIVELY, efforts, Egypt, elders, element, elements, elevated, emails, EMANCIPATION, embassies, embedded, empirical, ENABLER, ENABLING, encounter, ENCOURAGE, enforcement, engages, England, English, ENHANCED, Enlightenment, ENSURE, ENSURES, ENTHUSIASM, entire, envelope, envoy, Erdogan, erfaringer, Eric, escalation, essay, established, ethnic, ethnocentrism, ethnologic, EU, EUMC, Europe, European, european, Europeans, event, ever, everyday, everything, evidence, evidenced, evolved, exacerbate, exaggerated, examine, examined, examples, Examples, exclusion, EXCLUSIVELY, excuse, Execution, exhibited, exist, existed, existence, existing, exists, experienced, experiences, experiencing, expert, explains, explicit, Explicit, exploited, exploiting, exploits, explores, express, expressed, expression, expressions, extended, extent, extremism, extremist,

		extremists, FA, face, facebook, Facebook, faced, faces, facie, facing, factor, facts, *faculty*, failing, failure, fall, false, falsely, family, far, Far, fascism, fashion, fear, Fears, feature, features, fed, feed, feeling, FERTILE, field, fiery, fight, fighting, figures, fire, first, Flannery, Flemish, focusing, follow, football, Football, Ford, form, formally, forms, Forum, found, Foundation, foundation, four, framework, France, FREE, French, frequently, FRIENDS, From, front, full, Further, further, GAIN, game, generate, generating, genocidal, Geography, George, German, Germany, gesturing, getting, global, globalization, going, GOOD, Government, Government's, Governmental, governmental, Great, GREAT, ground, grounded, grounds, groundwork, Group, growing, growth, guide, Guide, guise, Gutman, Hadith, Halvorsen, handling, hands, Harap, harm, harmful, hate, hateful, hating, heard, hearing, heart, heated, heightened, held, HELP, Hidden, High, higher, highlight, Highlighting, highlights, Historian, historical, History, history, hits, Holocaust, hostility, How, https, Hundreds, Hungarian, Hungary, hyperbolically, I, Ian, idea, Identification, identified, identifies, identifying, ideological, ideologically, ideology, If, ignore, ignored, IHRA, II, images, imbricated, immigration, immune, impact, imperativeness, implementation, implemented, implicit, implies, IMPORTANCE, IMPORTANT, imported, importing, impression, IMPROVEMENT, In, inadvertently, Inappropriate, incitement, include, includes, including, incorporates, incorrect, increase, increased, increases, index, indicate, indicating, indirect, Influence, influence, inform, information, Information, inherent, initially, INITIATIVE, Inquiries, inquiries, inquiry, Inquiry, INSPIRED, instances, instigator, Institute, Institutional, institutional, institutionalization, institutionally, insufficient, insult, intended, intensifying, intention, Interior, International, Internet, internet, interplay, interpret, Interpretations, Into, intolerance, inventor, investigated, investigating, invoke, involve, involved, involving, Iran, Iranian, Iraqi, Islam, Islamic, Islamist, Islamists, islamophobia, Islamophobia, Isn't, Israel, issue, issues, It, it's, its, itself, Japan, Japanese, Jazz, Jehovah's, Jeremy, Jew, Jewish, Jews, John, JPR, Judaism, Judeo, Judeophobia, Judged, July, just, justify, JVP's, K'nig, Kandel, key, kind, kinds, Kingdom, Klein, Klug, Kristin, Kuperwasser, L'on, Labeled, Labour, Labour's, laced, lack, laid, language, largely, late, latent, later, latest, laws, Laws, Lazare, lead, leader, leaders, LEADING, *learn*, *learned*, led, left, legally, LEGEND, LEGITIMATELY, LEGITIMIZES, less, let, Let's, level, levels, Levels, Lewis, libels, lies, life, limited, Line, line, linked, links, *literary*, little, located, location, London, long, look, Louis, low, lower, Luther, Luther's, main, Main, mainstream, mainstreams, major, makes, Malm, manifest, manifestation, Manifestations, manifestations, manifests, manifold, Mann's, March, Margaret, Mariana, marked, Martin, massacre, matters, meaning, measure, measures, med, media, medieval, Member, members, Memorial, memory, mention, mentioned, mentions, merely, Met, Middle, might, minimised, minimize, Minister, Ministry's, Miriam, misdiagnosing, mistaken, mode, modern, Modern, modernising, moment, monitoring, monitors, More, Mormonism, Most, motifs, motivated, motivation, motivations, motives, movement, moves, MP, much, Much, multifaceted, multiple, Muslim, Muslims, mutated, mutation, naïve, narrow, Nation, nationalism, Nationalsozialismus, nations, nature, Nazi, Nazism, NEC, need, needs2take, Netherlands, never, new, New, news/2014/14viii_, Newsletters, Nichols, Nicosia, Niewyk, nineteenth, non, normally, North, Norway, Norwegian, Noted, notes, Nov, NOVEL, now, Obituaries, objective, occasion, occasional, occur, occurs, off, offender's, OFFERING, official, officials, Oh, old, once, ongoing, online, open, operative, oppose, opposed, opposing, opposition, order, org/, organised, Organizations, organized, Orientalism, oriented, originated, Origins, origins, OSCE, OSCE's, Other, outbursts, outward, overheard, overt, Overt, pagan, page, pages, Pakistan, Palestinians, paper, Parliament, parliamentarians, parliamentary, Parliamentary, Parliaments, Part, part, partial, particular, parts, party, Party, party's, Party's, past, PATRONS, patterns, PEACE, Pears, peers, people, people's, perceive, perception, perceptions, Perceptions, perform, periodic, Persecution, persecution, persist, persisted, persistent, perspective, phenomenon, physical, picture, Pittsburgh, place, plan, planning, platforms, play, played, players, playing, PLENTY, pockets, point, pointed, poison, Poliakov, Police, Policy, policy, political, Political, politically, politicise, Politics, polluted, POPULAR, populist, portray, possessing, possible, post, Post, Posted, potential, practice, practices, PRECISE, predates, predominant, prejudice, premise, preposterously, presence, present, presents, Press, prevalence, prevalent, PREVENTION, previous, prima, primarily, primary, PRIME, principle, prisoner, PRIZE, problem, procedures, PRODUCTIVE, professional, *professor*, profile, PROGRESS, PROMISE, PROMOTE, PROMOTES, PROMOTING, prone, PROPERLY, PROPONENTS, propose, prosecuting, prosecution, PROTECT, PROTECTING, PROTECTS, protests, PROVED, provoked, psychological, public, publicly, Published, published, punish, pure, purveyor, pushed, put, putting, quantifying, question, questions, Qur'an, Qurayza, Race, Racial, racial,

		racism, radical, rallies, rally, ranks, rate, reach, Reactions, read, Read, Readers, readily, reading, reality, really, reason, receded, receive, recent, recognise, recognised, recognized, RECOMMENDED, recording, redouble, reduce, reduced, reducing, Reference, reference, *References*, referred, referring, refers, Reflections, refusal, regarding, regards, region, Related, related, relation, Relations, relationship, relative, relatively, relaying, relies, Religious, religious, remain, remained, remains, remembrance, Remembrance, remit, Ren?, rendered, repeatedly, replaced, report, Report, report81, reportage, reported, reporting, reports, represent, representation, Representative, representative, represented, *research*, *Research*, resent, resist, resistance, resource, resources, RESPECTS, respond, respondents, responding, response, responsible, RESTORE, rests, resulted, resurfacing, resurgence, resurgent, reveal, revealed, reveals, rhetoric, Rhetorical, RIGHT, RIGHTLY, rights, Rights, rightwing, rise, Rises, rising, ROBUST, role, root, rooted, roots, rose, Rosie, Rothschild, row, Ruling, running, Ruth, sadly, said, Sarsour, saying, *Scholars*, *scholars*, *scholarship*, *School*, *School's*, scientific, scope, scourge, search, second, Secondary, secretary, Secular, seemingly, seen, sees, seized, Select, Semite, Semitism, series, serious, seriously, servants, serving, set, sets, several, Several, severe, Share, sharpness, ShawPosted, Shoah, shock, show, Show, shown, shows, sign, SIGNIFICANT, significantly, silence, similar, SINCERELY, situation, situations, sizes, SKILLFULLY, slipping, social, Socialism, socially, soldier, SOLVE, somewhat, sophisticated, Soros, sounding, source, Sources, sources, South, Soviet, speak, speaker, SPECIAL, specific, specifically, speech, speed, spelled, spent, spoke, SPONSORSHIP, spot, spotlight, spread, spreads, Stab, stages, standing, stands, staple, stark, starting, Starting, state, stated, statement, States, status, stemming, stems, Steps, steps, Steve, stifle, stirring, stories, Stormfront, Strauss, STRONG, structure, *Student's*, *students*, *studies*, *study*, *Study*, Stuff, stuff, subject, Subjective, SUCCESSES, suffer, Sufis, suggest, suggested, suggests, summarised, supplemented, SUPPORT, supposed, suprematism, surge, survey, suspended, Sweden, Swedish, symbols, taboo, taboos, tackle, tackling, Tackling, taken, takes, talk, taskforce, tempering, tending, term, terrorism, Terrorism, Test, test, Testament, The, Theme, theme, theological, Theological, therefore, those, Though, threat, threatens, threats, three, throughout, Timeline, timeline, timely, times, Title, today, TOGETHER, TOLERANCE, tolerate, took, tools, total, traditional, Traditional, tragic, TRANSFORM, TRANSFORMATION, TREAT, trends, trivializes, trivializing, TRUE, Trump, TRUST, trying, tsunami, Tuesday, Tunisian, Turkey, Turn, turned, twentieth, Twitter, two, type, types, Types, ugly, UK, unacceptable, unaddressed, UNAFFECTED, unavoidable, und, underlying, understand, understanding, undertaken, undue, unfounded, United, united, *university*, until, upsurge, urged, urging, usages, use, used, uses, using, utilise, utility, vane, vanished, varied, varieties, vent, version, very, VI, Vice, victims, view, VIGILANT, vigorous, vigorously, violent, virulent, virus, vital, Voice, voiced, wake, waned, warned, watchdog, wave, waves, waxed, way, ways, weather, weight, WELCOME, well, we've, What, Where, whereas, whereby, wherever, While, white, wider, widespread, Wikipedia, Wiktionary, will, WILLINGNESS, wing, Wisse, With, within, Witness, witnessed, witnessing, word, work, worked, working, Working, working, world, worldwide, worse, worsened, worst, worth, Writers, writers, writes, written, wrong, wrongly, xenophobia, Xenophobia, *Yale*, years, Yisrael, zeitgeist, Zionism
Target term	V5 – 'anti-Semitism' [= 207]	V6 – 'antiSemitism' [= 27]
Statistical collocate(s)	account, added, ADOPTED, advent, again, against, alive, all, ALLOWING, America, amid, Anthony, anti, Anti, antiquity, antiselene, antisemitism, Antisemitism, antiSemitism, Antisemitisma, Arabic, argued, Attacks, back, based, become, big, bit, By, calendar, came, *campus*, can, Central, charges, CNN's, comes, Comments, complex, comprises, contentSkip, continent, continuing, COORDINATION, Corbyn, Countering, countries, country, crime, crimes, criticism, CST, cultural, date, defamation, defines, definition, *Dictionary*, directed, discourse, disease, doesn't, down, earliest, economic, Economic, either, England, English, era, Europe, exclusion, experienced, Facebook, Feedback, first, following, forms, Forum, found, four, France, Genocidal, Germany, getting, growing, Hanukkah, Harap, hate, have, Holocaust, hurt, identifies, ideological, IMPORTANT, increasing, indeed, insult, Islamophobia, It, its, Jeremy, Julius, kinds, known, Labour, *Language*, *Learners*, LEGEND, legislation, Line, linked, look, Louis, marking, mean, measures, medieval, migrants, modern, move, navigationSkip, Nazi, News, Notes, noun, November, online, part, partial, particular, Party, party, passed, pervades, play, Police, political, portal, premise, probe, problem, PROTECT, public, racial, racism, raises, rationale, reception, *References*, Religion,	#antiSemitism, @EURightsAgency, against, amp, believe, country, Europe, European, feel, increased, Islamophobia, Jewish, Jews, legislation, Line, new, passed, polled, racism, refugees, releases, respondents, SOLIDARITY, stop, SUPPORT, survey, trying

	remain, Resources, response, rhetorical, rise, row, *schools*, sections, Semitism, serious, seriously, several, Share, shut, SIGNIFICANT, silence, Skip, sleight, social, Spanish, Speakers, spelled, Stab, State, States, stop, storm, substantially, taking, The, Time, Timeline, timely, today, too, Traveler, trying, turn, Twitter, UK, underlying, United, used, uses, various, very, Violent, want, What, wherever, wholly, Wiktionary, will, within, worse, Zoroastrianism	
Target term	V7 – 'Anti-semitism' [= 7]	V8 – 'AntiSemitism' [= 4]
Statistical collocate(s)	Antisemitism, *Education*, ideology, influenced, Institute, *Research*, Semitism	Beliefs, Christian, EU, Germany

* for collocates present in more than one list (and pairwise comparisons thereof), see Appendix 4.

Things we might focus upon, in connection with the above, include some of the target terms co-occurring with terms that have a positive meaning (see capitalized items). As the words shown in red font (for all but V8) reveal, however, there are a greater number of collocations with their own negatively charged meaning. A few of these negatively charged terms relate to incidences associated with the past (see, e.g., occurrence of 'holocaust' in V2 through V5). Mention of political figures such as 'Corbyn' (see V2, V4 and V5), 'Merkel' (see V2) and 'Trump' (see V4) nonetheless point to a focus on the politics of today as well as a historical focus. These and additional terms related to politics or governance are shown in purple in Table 16. Supplementary observations we can make, at this point, include the following:

- geography/place and people groups seem important to many of the sources, based on the frequency of place-related terminology within especially V2 through V5 (see blue font items)
- items associated with and/or relating to religion and religious groups/affiliations also appear to be important topics for most sources (see green font items in all but V7)
- several terms relating to the sharing of information and, in particular, the modern media/social-media are also evident (see orange font in all but V7 and V8)
- most of the target terms are associated, in turn, with some sort of temporal aspect (see terms in brown font)
- all but the eighth target term also collocate with education-related terms more generally (see italicised terms relating to V1 through V6) and/or terms associated with communication (or lack of) - including defining and debating meaning - more specifically (see underlined terms relating to V1 through V5)

To understand the data captured by Table 16 further, each list has also been compared *pairwise*. The results for this pairwise process are as follows:

- V2 and V4 share the most collocates (n=316)
- V4 and V5 share a substantial, but lower, number of collocates (n=124)
- V2 and V3 (n=60), V2 and V5 (n=59), and V3 and V4 (n=65) share a moderate number of collocates
- V1 and V6, V1 and V8, V6 and V7, V6 and V8, and V7 and V8 share no collocates
- all pairings additional to the aforementioned share thirty-six collocates or fewer

The results of this process thus indicate the following:

- whilst V2 and V4 are tied strongly, V4 is tied substantially to V5 and moderately to V3 also
- whilst V2 and V4 are tied strongly, V2 is tied moderately to V3 and V5 also
- whilst V1 and V6–V8 share no ties, the lack of data for V7 and V8 should be regarded as a moderating factor that makes this observation unreliable

This means that V4 usages share stronger/more substantial ties to other usages whereas V2 usages share more moderate and therefore lower-strength ties to other usages. Please note that the data produced by this process provides a means of demonstrating *that* and *how* variants are linked by specific collocates only, and that further and more detailed study is required to establish the *significance* of such linkages (the full results of the relevant pairwise interaction are given in Appendix 5). For example, to some degree, we would expect there to be overlap between spelling variants and their respective collocates, given different spelling variants will probably be used to discuss similar things. What might be significant – when the aim is to identify the most neutral spelling variant (as here), however – is whether some spelling variants can be shown to draw on the same *negatively oriented* collocates more frequently than others. Accordingly, we provide the results of a second series of pairwise comparisons of V1-V8, but in respect to their negatively oriented collocates only, below:

- V2 and V5 share the most collocates (n=35)
- V4 and V6 (n=20), V3 and V5 (n=10), and V2 and V6 (n=10) share substantial, but lower, numbers of collocates
- V2 and V4 (n=9) share a moderate number of collocates
- V1 and V7, V2 and V8, V3 and V7, and V6 and V8 share no collocates
- all pairings additional to the aforementioned share nine collocates or fewer

This means that:

- whilst V2 and V5 are tied strongly, V5 is tied substantially to V3 also
- whilst V2 and V5 are tied strongly, V2 is tied moderately to V4 also
- whilst V1 and V7, V2 and V8, V3 and V7, and V6 and V8 share no ties, the lack of data for V6, V7, and V8 should be regarded as a moderating factor that makes this observation unreliable

The full results of the relevant pairwise interaction are given in Appendix 6.

There are two additional observations we want to draw your attention to at this point. Firstly, although most of our variant spellings appear to share a number of collocates that are negatively oriented at first glance, some of these may be used in ways that portray a positive message in context. Consider the effect of combining V2 and V4 with their shared collocates, *countering* and *criticism*, for example. Secondly, V2 and V4, in particular, constitute the two most frequent of the eight spelling variants – and the above are based on raw (rather than normalised figures or percentages). As such, we would anticipate their sharing collocates (including negatively oriented collocates) more frequently than our smaller datasets. What is required, then, is a more nuanced means of determining the significance of the variants' respective collocations (for which, see 5.2).

5.2. AntConc results

The downloadable program, AntConc, allowed us to explore the target terms' collocations in a slightly different (and more nuanced) way by finding - and revealing - meaningful patterns based on their co-occurrence patterns to the left and/or right of the target terms. Accordingly, Tables 17a-17h highlight those terms that occurred ten times or more up to three places to the left or right of the eight target terms[7], beginning with 'anti-semitism' (V1):

[7] A list of collocates shared by the spelling variants (V1-V8) is provided in Appendix 5.

Table 17a: collocates with frequencies of 10+, occurring (up to 3) to the left and/or (up to 3) to the right of 'anti-semitism' (V1)

Collocates to the left (3) [= 9]	Collocates to the right (3) [= 12]
anti, rise, racism, or, com, of, in, to, Semitism	or, has, at, is, https, it, the, and, more, in, anti, semitism

Because we are focusing on collocates of 'anti-semitism' (V1) that occur ten times or more, we are dealing with only a handful of collocates in this case (i.e., 9 to the left, and 12 to the right, of the target term). Of these, two to the left (or 22.2%) and one to the right (i.e., 8.3%) are overtly negative in orientation, and none are positively oriented.

As Table 17b (below) reveals, negatively loaded words to the left and right of 'Antisemitism' (V2) are less frequent, in percentage terms, than they are with respect to 'anti-semitism'.

Table 17b: collocates with frequencies of 10+, occurring (up to 3) to the left and/or (up to 3) to the right of 'Antisemitism' (V2)

Collocates to the left (3) [= 225]	Collocates to the right (3) [= 260]
secondary, racial, discount, wiki, codes, spring, rusi, Rubenstein, root, php, PATRONS, masonry, jaspal, holy, handedness, Freudmann, Endelman, critique, countering, calendar, barometer, azure, air, test, article, confront, rising conceptual, into, Swedish, Frederick, campaign, reflections, title, papers, COMBATING, jpr, catholic, main, Austria, face, Todd, against, Schweitzer, Jerome, COMBATTING, committee, defining, rt, Polish, index, centuries, changing, forms, parliamentary, definition, beller, coalition, Islamic, COMBAT, definitions, inquiry, sources, culture, Richard, September, globalization, tackling, appg, cause, censored, crisis, inaction, inquiries, working, categories, Ukraine, movement, Greece, forum, addressing, dictionary, date, Chanes, voices, modern, tackle, Steven, group, development, although, levy, around, Christian, articles, Jonathan, information, action, new, series, Sweden, fight, December, edit, three, issues, global, European, religious, islamophobia, Judaism, Norway, declaration, Japan, http, current, topics, opinion, further, on, history, campus, far, William, more, testament, school, concept, study, Muslim, leginsurrection, museum, ed, contemporary, www, see, ages, guide, Arab, of, eumc, nature, labour, Africa, Wikipedia, Christianity, Zionism, SPECIAL, lawmakers, today, country, August, political, century, Spain, middle, survey, mar, documentary, research, historical, world, to, Canada, states, recommendations, response, right, report, media, retrieved, manifestations, Encyclopedia, about, union, work, John, discourse, football, society, anti, all, party, holocaust, Europe, line, org, Vashem, Islam, for, Jews, Israel, hatred, united, or, antisemitism, also, yad, may, racism, government, the, semitism, and, a, at, as, in, an, antisemitic, part, which, its, by, pdf, UK, address, not, Jewish, been, it, is, from, with, that	appears, barometer, Christianity, row, Japan, summary, category, zionis, summarised, spelled, side, sicsa, relativity, plagues, Paulist, net, manifests, handbook, fails, dundurn, dark, azure, audism, aporophobia, widespread, noted, among, conceptual, secondary, great, web, Birkbeck, RECOMMENDED, Hodge, address, wp, final, uc, rise, generally, Saudi, Judeophobia, overview, oldid, Reference, Canada, Hebrew, modern, background, archived, Ukraine, short, Sweden, available, thepcaa, myth, spring, eisca, English, Iran, https very, campaign, documentary, historical, current, my, part, Greece, core, certain, Arab, Spain, response, Jeremy, around, SPECIAL, says context, IMPORTANCE, December, although, football, Norway, xenophobia, org, manifestations, discussion, concept, ancient, according, Islam, Europe, politics, campus, Corbyn, legal, continues, pdf, country, made, reached, categories, Vidal, timeline, Russia, COMMISSIONED, America, so, contemporary, united, in, Trump, definitions, middle, speech, western, through, February, us, issues, UK, crisis, Encyclopedia, London, hostility, RECOMMENDATIONS, one, anti, islamophobia, retrieved, racism, http, is, after, Judaism, higher, soviet, published, yad, ages, TRUST, most, today, left, toward, scaa, labour, www, Dec, July, was, Zionism, set, nazi, topics, report, co, September, established, times, Muslim, from, university, which, press, holocaust, and, within, Vashem, Sassoon, test, iuniyal, June, discrimination, racial, policy, first, survey, since, news, against, eumc, a, political, century, its, on, education, Oxford, German, the, by, hate, has, discourse, up, may, can, should, further, research, international, will, no, not, also, edit, Jewish, during, such, media, new, public, Israel, European, Germany, pp, world, schools, history, with, been, global, at, information, john, be, to, article, line, this, that, main, institute, inquiry, an, antisemitism, via, all, other, we, British, it, have, as, government, berlin, leginsurrection, are, definition, of, party, hatred, Austria, working, group, for, into, Jews

Specifically, 6.2% (i.e., 14 out of 225 words) to the left and 7.3% (i.e., 19 out of 260 words) to the right have negative connotations. This is to do, to some degree, with the differences in sizes between the two datasets, of course. 'Antisemitism' also has a number of positively-oriented collocations, albeit small in number: specifically, 1.8% (i.e., 4 out of 225 words) to the left and 2.3% (i.e., 6 out of 260 words) to the right. This suggests that, overall, the spelling of 'Antisemitism' appears to be used more positively in context than the spelling of 'anti-semitism' (see also Table 18).

In the case of 'Anti-Semitism' (V3), there is one positively oriented collocate (out of 48, i.e., 2.1%) to the left. In contrast, 10.4% (i.e., 5 out of 48) of the collocates to the left are negatively-oriented. A similar percentage of the collocates, 10% (i.e., 7 out of 70), are negatively-oriented to the right of 'Anti-Semitism'. There are less positively oriented collocates, in percentage terms, occurring to the right than the left, however (i.e., 1.4% or 1 out of 70). This means that V2 has more positive collocations, overall, than both V1 and V3.

Table 17c: collocates with frequencies of 10+, occurring (up to 3) to the left and/or (up to 3) to the right of 'Anti-Semitism' (V3)

Collocates to the left (3) [= 48]	Collocates to the right (3) [= 70]
virtual, Spartacus, publication, Hinderaker, anti, library, Argentina, March, kingdom, France, over, paradox, COMBATING, Poland, rt, leginsurrection, religion, Nazi, global, east, against, medieval, modern, Germany, middle, Christian, into, new, of, holocaust, Europe, hatred, educational, what, united, history, on, Nov, as, report, in, and, is, semitism, Jewish, the, to, for	worse, watchdog, virtual, Spartacus, rumor, row, publication, pervades, links, getting, canary, mission, THANKS, kingdom, Oxford, life, medieval, my, Argentina, France, middle, library, via, right, Poland, European, posted, modern, Britannica, what, Germany, Europe, in, united, not, America, has, is, inquiry, left, https, American, educational, York, uk, which, states, co, report, rise, at, press, it, as, holocaust, and, a, the, history, new, from, by, anti, for, on, antisemitism, of, to, Jewish, Semitism

As Table 17d highlights, there are many more collocates when it comes to V4. Nonetheless, 4.0% (i.e., 21 out of 518) of the collocates to the left of 'antisemitism' (V4) are positively oriented. This equates to roughly a third of this particular spelling's negatively oriented collocates (i.e., 12.5%, or 65 out of 518). Negatively oriented collocates are much more frequent than positively oriented collocates to the right, too, with 15 out of 510 – that is 2.9% – in respect to the former and 9.8% or 50 out of 510 with respect to the latter.

Table 17d: collocates with frequencies of 10+, occurring (up to 3) to the left and/or (up to 3) to the right of 'antisemitism' (V4)

Collocates to the left (3) [= 518]	Collocates to the right (3) [= 510]
secondary, racial, economic, tags, purveyor, mistaken, hating, gaschanbers, freiausschwitz, FAVOUR, exploits, essence, dynamics, distinguishes, COMBATS, characterizes, afrin, test, cultural, geography, COMBATTING, legend, exploiting, dangers, faculty, defines, conflated, asserts, invoke, reflections, polluted, groundwork, COMBATING, rises, literary, emails, aggressive, ENABLING, wiki, resurgence, tolerate, assumption, upsurge, talk, rendered, handling, discursive, countering, component, fighting, justify, virulent, putting, origins, Austin, PROMOTING, Christian, affected, mentions, ethnologic, rising, varieties, regards, describes, blatant, nationalistic, overlaps, könig, alleged, classical, school, spelled, campus, religious, new, anger, premise, explicit, distinguished, COMBAT, tackle, classic, disguised, convergence, fight, contemporary, timeline, open, envoy, rally, overt, summarised, addressing, organizations, oldid, meaning, defining, concerning, tackling, constitutes, excuse, aspect, series, article, Islamic, charges, Arabs, parliamentary, falsely, ADOPTS, encounter, casual, modern, allegations, lewis, writings, condemn, constitute, prevalence, condemning, levels, definitions, popular, lower, false, usage, rightwing, definition, governmental, ideological, manifestations, date, COMPREHENSIVE, calendar, increase, identifying, alongside, surge, term, leginsurrection, wave, rise, version, multiple, distinction, representative, globalization, appg, history, accusations, main, dividing, traditional, experiences, uses, secular, inquiries, harap, citing, categories, opposition, working, theological, klug, theories, testament, forms, confront, form, forum, recognise, expressions, against, failing, amount, Japan, reduce, bad, inquiry, absence, ihra, distinct, SPECIAL, motivated, PRECISE, medieval, manifestation, efforts, William, regarding, indicate, growing, complaints, into, nature, accused, coalition, perceptions, foundation, define, conspiracy, Arab, Judaism, expression, extent, linked, trends, between, involving, argued, relationship, association, specific, instances, historically, about, discussion, matters, field, problem, global, feature, dealing, circles, concerned, learned, information, violent, opposed, heightened, physical, radical, Christianity, sources, considered, articles, types, STRONG, complex, three, ancient, Nichols, involve, political, Canada, issue, roots, development, address, level, historical, of, news, racism, online, examples, islamist, century, islam, semitism, questions, practices, controversy, approach, speak, discuss, caused, who, PROMOTE, influence, associated, condemned, centuries, understand, group, conduct, word, www, semitic, comes, concerns, on, related, undertaken, understanding, presence, kind, charge, speech, established, concept, at, threat, addition, social, idea, islamophobia, issues, campaign, soviet, relation, league, far, Luther, xenophobia, claims, American, activities, recent, Jew, needed, over, victims, left, reporting, Corbyn, Hitler, cases, study, Nov, European, long, while, does, experienced, subject, Jews, phenomenon, concern, own, ways, Muslim, up, victim, Jeremy, no, Zionism, where, how, alliance, labour, low, four, reports, although, http, CLEAR, old, research, evidence, widespread, called, including, authorities, show, PEACE, party, expressed, state, due, language, report, further, wing, what, PROGRESS, response,	stab, Muslow, Christianity, zweiterweltkrieg, unavoidable, TRULY, summary, spelling, reformation, overlaps, mariana, Luxembourg, judenvernichtung, juden, ingrained, Indology, exploits, execution, ethnologic, downing street, disguised, deutschechristen, assimilated, antijudaism, sick, wp, html, exploiting, canards, species, jude, japan, soldier, normally, exhibition, fails, arose, convergence, persecution, fire, secondary, event, Arabs, drives, serving, defines, harap, conspiracy, row, ASSISTS, coming, wherever, manifests, judged, files, economic, martin, malmö, receded, premise, emanating, mutated, distinguished, civil, oldid, incorporates, occurs, louis, adds, PROPONENTS, EXCLUSIVELY, summarised, posted, Brustein, WELCOME, taboo, underlying, claims, code, exists, Watson, seemingly, names, key, König, giving, ruling, index, main, Islam, notes, Klug, distinguishes, campuses, test, Miriam, inadvertently, terrorism, Canada, reference, edit, org, racial, islamophobia, globalization, defamation, bad, https, Wikipedia, Sep, nineteenth, engineering, crisis, appears, soviet, pre, part, toward, significantly, policing, William, defined, category, theories, causes, amongst, concept, becomes, inform, complex, immigrants, existed, Bernard, read, denial, united, differ, RECOMMEND, Nazism, Christian, extremism, ancient, hidden, remains, article, rooted, merely, continues, almost, directed, religious, Arab, pdf, Sweden, laws, retrieved, turn, references, publications, once, Judaism, league, timeline, known, published, based, categories, Norway, football, lewis, according, speak, within, writes, today, jvp, became, university, become, shoah, cultural, worldwide, idea, wider, saying, stated, political, among, present, itself, associated, increased, takes, country, comes, threats, controversy, address, examples, defining, AVAILABLE, would, English, France, indeed, eu, through, manifestations, activity, labour, modern, kind, college, xenophobia, far, argues, uk, terms, established, needs, fears, widespread, though, is, order, anti, without, was, shown, ideological, blood, much, great, September, compared, did, earlier, linked, raised, march, which, early, primarily, racism, related, Europe, developed, constitute, seriously, august, ADOPTED, SPECIAL, always, left, around, she, GUARDIAN, has, discrimination, LIKE, and, hostility, group, in, co, however, throughout, criticism, across, as, needed, internet, nov, information, committee, july, types, also, but, includes, included, Islamic, expressed, further, LEGITIMATE, often, particular, parties, despite, alongside, used, several, muslim, particularly, although, attacks, after, times, he, its, line, Britain, still, we, during, may, set, conclude, taken, Jeremy, should, Germany, situation, three, rather, because, even, authorities, here, classical, just, radical, extreme, other, first, leader, http, when, luther, opposition, from, into, now, report, could, being, full, social, then, right, inquiry, forms, whilst, can, common, be, issues, both, such, activities, taking, over, making, distinct, held, problem, see, share, than, definitions, a, at, recent, by, on, summer, while, their, been, an, there, example, does, prejudice, cross, years,

German, scholars, high, never, org, terrorism, right, Oct, LIKE, much, committee, line, times, police, com, said, using, to, role, GOOD, for, any, states, data, serious, life, conference, terms, HELP, overall, that, work, well, policy, war, view, with, current, law, ethnic, Europe, British, action, conflict, and, now, general, edit, not, survey, context, public, today, minister, actions, or, out, such, an, all, become, way, students, debate, motivation, include, united, from, he, by, order, world, same, Nazi, taken, their, discourse, will, different, his, society, IMPORTANT, the, uk, without, more, anti, discrimination, towards, also, do, countries, racist, crime, often, TRUST, in, holocaust, as, been, had, them, but, if, when, us, be, both, a, this, incidents, years, time, however, prejudice, other, media, education, attitudes, I, would, post, its, is, Germany, can, hate, which, hatred, Jewish, security, people, than, cst, being, are, some, Britain, there, Israel, government, has, it, they, our, was, have, we, https, were, anti-Semitic	various, so, serious, reports, own, current, not, public, will, Zionism, century, using, French, free, higher, context, sometimes, if, seen, the, said, it, figures, had, found, conference, muslims, including, media, HELP, up, office, where, Nazi, or, are, new, I, very, out, have, with, cst, too, campaign, general, make, to, were, many, time, London, against, that, same, whether, past, led, since, our, these, this, following, more, Corbyn, hate, politics, reported, campus, any, definition, form, all, those, party, holocaust, how, countries, debate, must, jewish, European, take, showed, people, victims, two, government, education, Israel, what, only, www, working, role, no, police, policy, security, concerns, per, ihra, hatred, his, one, world, towards, rise, TRUST, issue, life, jews, of, crime, SUPPORT, history, semitism, for, attitudes, anti-Semitic, some, use, incidents, contemporary, they, society, most, discourse, British, who, work, community, about

This means that, of all the target terms, to date, V4 has the highest percentage scores (left and right) for positively oriented collocates, and the second highest for negatively oriented collocates. This higher use (in percentage terms) of positively oriented collocates, in conjunction with negatively oriented collocates, could mean that it tends to be *heard* as more neutral overall than V1 and V3 (but not V2: see Table 18). It should be noted, nonetheless, that the frequency of negatively oriented collocates is still markedly greater than the frequency for positively oriented collocates (as indicated in Table 18).

Table 17e below captures the collocates of 'anti-Semitism' (V5).

Table 17e: collocates with frequencies of 10+, occurring (up to 3) to the left and/or (up to 3) to the right of 'anti-Semitism' (V5)

Collocates to the left (3) [= 72]	Collocates to the right (3) [=88]
translation, surge, quotidian, allegations, radical, anti, find, organized, contained, tackle, COMBAT, fight, COMBATING, fighting, contemporary, everyday, accusations, manifestations, tackling, accused, modern, MOTIVATED, rising, definition, American, com, Nazi, say, rise, into, black, against, racial, term, uk, history, how, including, cnn, of, racism, about, Zionism, five, Europe, forms, on, said, what, also, new, for, with, problem, over, to, or, labour, that, holocaust, their, jews, by, and, line, is, in, as, a, has, semitism, the	Spanish, insult, expropriation, medieval, watch, worse, translation, getting, hostility, islamophobia, row, however, defamation, following, England, would, Europe, united, some, share, even, modern, be, Zionism, schools, can, is, life, will, what, was, part, countries, but, has, labour, in, hate, only, eu, as, one, which, he, uk, by, past, at, a, its, I, racism, this, and, their, been, https, on, not, forms, are, or, all, it, antisemitism, there, other, the, from, an, we, have, line, to, for, also, that, holocaust, they, new, up, more, with, jews, jewish, anti, of, semitism

In this case, 16.7% of the collocates (up to three) to the left of 'anti-Semitism' (i.e., 12 out of 72) are negatively oriented, whereas 4.2% (i.e., 3 out of 72) are positively oriented. In contrast to this, negatively oriented collocates occur 12.5% of the time (up to 3 spaces) to the right of 'anti-Semitism' (that is, 11 out of a possible 88), but none of the 88 collocates are positively oriented.

As with V1, the small number of collocates to the left and right of 'antiSemitism' (V6) reflect the size of the dataset. Of 14 collocates (up to 3 spaces) to the right of V6 ('antiSemitism'), for example, 14.3% (i.e., 2) are negatively oriented and none are positively oriented. To the left of this particular spelling, none of the 9 collocates are positively oriented or negatively oriented.

Table 17f: collocates with frequencies of 10+, occurring (up to 3) to left and/or (up to 3) to right of 'antiSemitism' (V6)

Collocates to the left (3) [= 14]	Collocates to the right (3) [= 9]
Skaozwi, respondents, polled, new, islamophobia, amp, feel, that, Jewish, survey, on, believe, racism, line	increased, has, Europe, in, and, SUPPORT, rt, adl, line

As with V1 and V6, there are very few collocates occurring ten times or more for the target term, 'Anti-semitism' (i.e., V7), because of the size of this particular dataset, namely, one to the left - which is negatively oriented - and one to the right - which is neutral in orientation.

Table 17g: collocates with freq. of 10+, occurring (up to 3) to left and/or (up to 3) to right of 'Anti-semitism' (V7)

Collocates to the left (3) [= 1]	Collocates to the right (3) [= 1]
Anti	Is

The final target term, 'AntiSemitism', (i.e., V8) also has are very few collocates occurring ten times or more with it (once again because of the size of this particular dataset). In this case, there are no negative or positively oriented collocates within the 3 possibilities to the left of this particular spelling of the term. Of the three possible collocates to right, one is negatively oriented (equating to 33.3%).

Table 17h: collocates with freq. of 10+, occurring (up to 3) to left and/or (up to 3) to right of 'AntiSemitism' (V8)

Collocates to the left (3)	Collocates to the right (3)
Rt, ravennightmyst, Jun	public, outrage, Germany

As before, each list (captured within Tables 17a–h) has been compared pairwise, giving us the following results:

- V4L and V4R share the most collocates (n=249)
- V2R and V4R (n=160), V2L and V4L (n=137), V2R and V4L (n=132), V2L and V2R (n=121), and V2L and V4R (n=112) share substantial, but lower, numbers of collocates
- V4R and V5R (n=77), V4L and V4R (n=65), V4L and V5L (n=60), V2R and V5R (n=53), V4R and V5L (n=47), V2L and V5L (n=40), and V2L and V5R (n=40) share a moderate number of collocates
- V1 and V7, V1 and V8, V2 and V7, V2 and V8 (i.e. L and R where unspecified) share no collocates
- V2L and V7 and V2L and V8 share no collocates
- V2R and V7 and V2R and V8L share no collocates
- all pairings additional to the aforementioned share thirty-nine collocates or fewer

This means that:

- whilst V4L and V5R are tied strongly, V4L is tied substantially to V2L and V2R and moderately to V4R and V5L also
- whilst V4L and V4R are tied strongly, V4R is tied substantially to V2R and V2L and moderately to V5R and V5L also
- whilst V2R and V4R are tied substantially, V2L is tied substantially to V4L, V2R, and V4R and moderately to V5L and V5R also
- whilst V2R and V4R are tied substantially, V2R is tied substantially to V4L and moderately to V5R also
- whilst V1 and V7–V8 and V2 and V7–V8 share no ties, the lack of data for V7 and V8 should be regarded as a moderating factor that makes this observation unreliable

The evidence appears to suggest that V4 usages share stronger/more substantial ties to other usages whereas V2 usages share more moderate and therefore lower-strength ties to other usages (in line with our previous findings). It remains the case that the data produced by this process (see Appendix 6) demonstrates *that* and *how* variants are linked by specific collocates occurring to the left and/or right only. In order to determine the extent to which this might prove significant (given our aim of identifying the most neutral spelling variant), we have thus undertaken a second series of pairwise comparisons of V1-V8, but in respect to their *negatively oriented* collocates only. Our results, in this instance, are as follows:

- V4L and V4R (n=24) share the most collocates

- V2R and V4R (n=14) and V2R and V4L (n=12) share substantial, but lower, numbers of collocates
- V4L and V5L (n=11), V2L and V2R (n=7), and V4R and V5R (n=7) share a moderate number of collocates
- V1, V7L, and V8R share no collocates
- V2, V7L, and V8R share no collocates
- V3, V7L, and V8R share no collocates
- V4, V7L, and V8R share no collocates
- V5, V7L, and V8R share no collocates
- V6, V7L, and V8R share no collocates
- V3 and V6L share no collocates
- V1R and V5R share no collocates
- V1R and V6L share no collocates
- all pairings additional to the aforementioned share six collocates or fewer

This means that:

- whilst V2R and V4R are tied strongly, V2R is tied substantially to V4L also
- whilst V2R and V4R are tied strongly, V4R is tied moderately to V5R also
- whilst V2R and V4L are tied strongly, V4L is tied moderately to V5L also
- whilst V1 and V7, V2 and V8, V3 and V7, and V6 and V8 share no ties, the lack of data for V6, V7, and V8 should be regarded as a moderating factor that makes this observation unreliable

The full results of the relevant pairwise interaction are given in Appendix 7.

Once again, there appears to be a significant overlap between the V2 and V4 variants (when it comes to *negatively oriented* collocates). We have already discussed some of the caveats required to make sense of such results. Namely, (i) V2 and V4 being the most frequently used and thus most likely to have higher (raw) scores of shared collocates – including negatively oriented collocates – than our smaller datasets, and (ii) some of these negatively oriented collocates potentially alluding to a positive message in context (cf. *confronting/countering* religiously-based prejudice: see Appendix 7, and also p.21). For these reasons and, as a final step, Table 18, below, provides a tabular summary of the PERCENTAGES of positively oriented and negatively oriented collocates to the left and right of all eight spelling variants, as well as overall PERCENTAGE totals.

Table 18: Percentages of negatively- and positively-oriented collocations for each target term

% of negatively oriented terms to left	% of positively oriented terms to left	Target term	% of positively oriented terms to right	% of negatively oriented terms to right	% totals for negatively oriented and positively oriented collocates overall		Potential cancelling effect?	% of "non-negative" terms
					Positively oriented	Negatively oriented		
22.2	-	V1 'anti-semitism'	-	8.3	- (0 out of 21)	14.3 (3 out of 21)	- 14.3	99.95 (5,747 out of 5,750)
6.2	1.8	V2 'Antisemitism'	2.3	7.3	2.1 (10 out of 485)	6.8 (33 out of 485)	- 4.7	99.97 (100,829 out of 100,862)
10.4	2.1	V3 'Anti-Semitism'	1.4	10	1.7 (2 out of 118)	10.2 (12 out of 118)	-8.5	99.95 (22,879 out of 22,891)
12.5	4.0	V4 'antisemitism'	2.9	9.8	3.5 (36 out of 1,028)	11.2 (115 out of 1,028)	- 7.7	99.97 (318,379 out of 318,494)
16.7	4.2	V5 'anti-Semitism'	-	12.5	1.9 (3 out of 160)	14.4 (23 out of 160)	- 12.5	99.95 (50,573 out of 50,596)
14.3	-	V6 'antiSemitism'	-	-	- (0 out of 23)	8.7 (2 out of 23)	- 8.7	99.96 (4,486 out of 4,488)
100	-	V7 'Anti-semitism'	-	-	- (0 out of 2)	50 (1 out of 2)	- 50	99.88 (814 out of 815)
-	-	V8 'AntiSemitism'	-	33.3	- (0 out of 6)	16.7 (1 out of 6)	- 16.7	99.95 (2,060 out of 2,061)

We have colour coded the table so that it provides a visual indicator of certain features. Note, for example, that V4 collocates most with positively oriented words and V2 collocates least with negatively oriented words (see green boxes above). V2 is the next most positive, according to our findings. V4, in contrast, is the fourth least negative (after V2, V3, and V6). When discussing V4 previously, we queried whether this particular (more frequent) variant might sound more neutral (for users) because of having higher percentages of positively oriented collocates that serve to cancel out (by neutralising, to some degree) how negatively it is heard overall. With this in mind, the "potential cancelling effect" column in Table 18 has been generated by deducting the overall positively oriented scores (based on left and right percentages) from the overall negatively oriented scores (based on left and right percentages). As the blue shaded box reveals, V2 – 'Antisemitism' – would appear to be the most neutral, in this regard. Note, however, that V4 – 'antisemitism' – is the second most neutral. In a similar vein, the final column of Table 18 omits the percentage total for negatively oriented collocates (left and right) from the total number of words for each dataset (i.e., V1-V8), as a means of determining each variant's non-negative language usage as an approximate percentage. We emphasise approximate, here, as it is very likely that negatively oriented (as well as more positively oriented) words occur but are not captured - as part of any of the percentages above - due to their occurring less than ten times. V2 and V4 score best (when it comes to their potential "non-negativity"), according to the percentages in this final column. Neither V2 nor V4 can be argued to be wholly neutral terms overall, of course. Yet, it nonetheless seems to come down to a choice between these two particular spelling variants. As such, it is probably worth our reiterating an earlier finding at this point, respecting V4's greater popularity across more genres (policy, reportage, social media) than is true for V2 (policy, reportage) (see Table 8).

6. Recommendation

V4 – 'antisemitism' – is the most frequent term, and scores the highest for positively oriented collocates. It uses more negatively oriented collocates, in percentage terms, than V2, V3 and V6, however. Of these, V2 – 'Antisemitism' – collocates with the least number of negatively oriented words, in percentage terms, and appears to be the most neutral overall (if we allow for the aforementioned "cancelling" effect, discussed above). Although V2 is used less frequently overall than V4, it represents the second most frequent of the eight spelling variants investigated in this study nonetheless. V4, similarly, represents the second most neutral spelling variant (of the eight).

The choice, then, seems to be between:

(i) V4, due to its greater frequency overall, its use across more genres than other spelling variants (such as V2), its greater use of positively oriented collocates in particular, and it being the second most neutral of the eight spelling variants (after V2)

(ii) V2, due to it having the least negatively oriented collocates coupled with the second highest number of positively oriented collocates (after V4), thereby helping to explain its greater neutrality overall (when compared with V1 and V3-V8), in conjunction with it being the second most frequent of the eight spelling variants (after V4)

If rationale (i) and (ii), above, are deemed to be an insufficient means of choosing between V2 and V4 at this stage, a possible next step would involve investigating (a selection of) the V2 and V4 datasets using qualitative, "close reading" methods.

7. References

Pennebaker, J.W., Boyd, R.L., Jordan, K. and Blackburn, K., 2015. *The development and psychometric properties of LIWC2015*.

ElSherief, M., Kulkarni, V., Nguyen, D., Wang, W.Y. and Belding, E., 2018, June. Hate lingo: A target-based linguistic analysis of hate speech in social media. In *Twelfth International AAAI Conference on Web and Social Media*.

Cohen, K., Johansson, F., Kaati, L. and Mork, J.C., 2014. Detecting linguistic markers for radical violence in social media. *Terrorism and Political Violence*, *26*(1), pp.246-256.

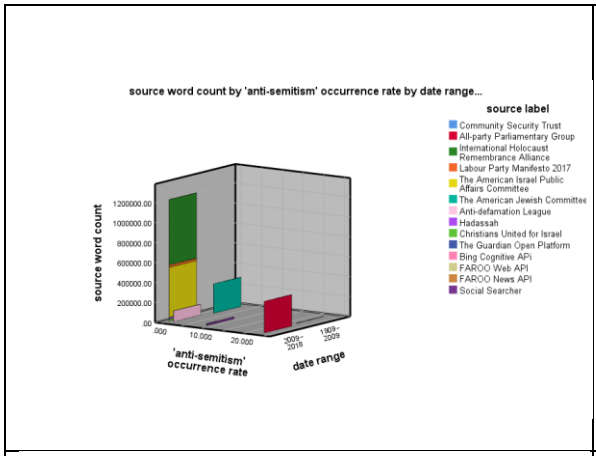
Litvinova, T. and Litvinova, O., A study of texts of an extremist forum "Kavkazchat" using Linguistic Inquiry and Word Count (LIWC).

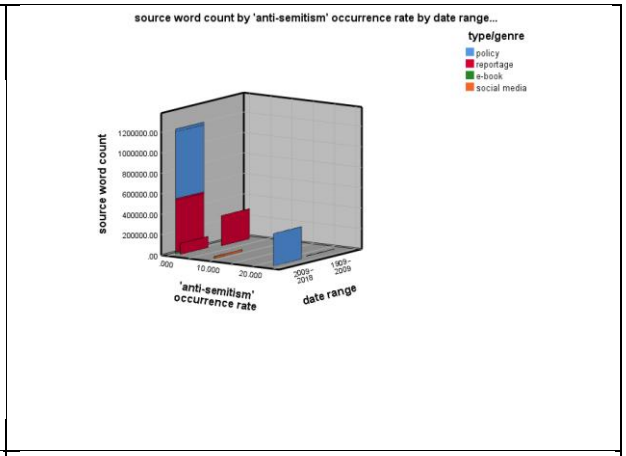
Appendix 1

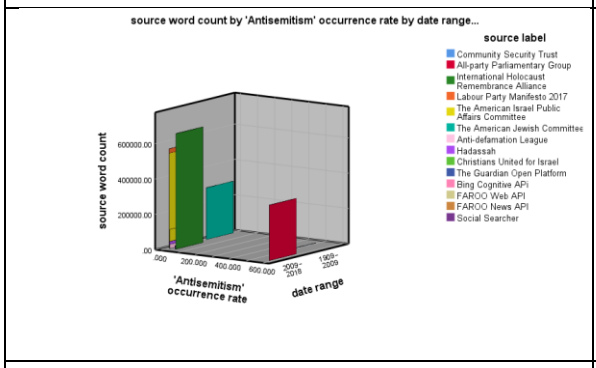
SOURCE	WEB ADDRESS	Brief description
Antisemitism Policy Trust	https://www.antisemitism.org.uk	
Community Security Trust	https://cst.org.uk/	
All-Party Parliamentary Group Against Antisemitism	https://www.antisemitism.org.uk/the-appg https://publications.parliament.uk/pa/cm/cmallparty/190619/antisemitism.htm	
International Holocaust Remembrance Alliance	https://www.holocaustremembrance.com/international-holocaust-remembrance-alliance https://www.holocaustremembrance.com/working-definition-antisemitism	
Labour Party Manifesto 2017	https://labour.org.uk/wp-content/uploads/2017/10/labour-manifesto-2017.pdf	
The American Israel Public Affairs Committee	https://www.aipac.org/	
The American Jewish Committee	https://www.ajc.org/	
Anti-Defamation League	https://www.adl.org/	
Hadassah	http://www.hadassah.org/	
Christians United for Israel	https://www.cufi.org/	
The Guardian Open Platform	https://open-platform.theguardian.com/	
Bing Cognitive API	https://azure.microsoft.com/en-gb/services/cognitive-services/bing-web-search-api/	
FAROO Web API	https://www.programmableweb.com/api/faroo	
FAROO News API	https://www.programmableweb.com/api/faroo	
SocialSearcher	https://www.social-searcher.com/	

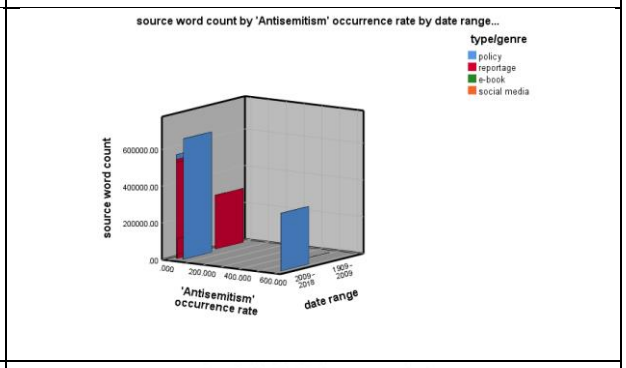
Appendix 2

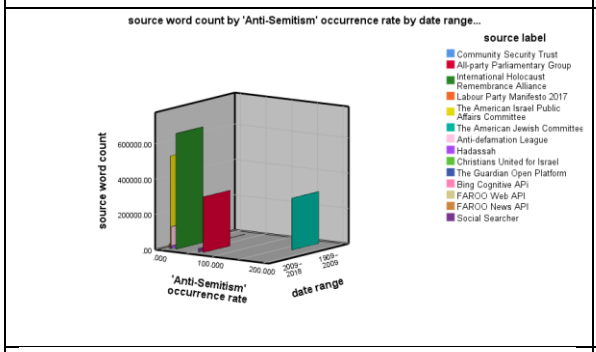
Graphs 1-16: multidimensional comparison of raw occurrences, by date range and source or genre type

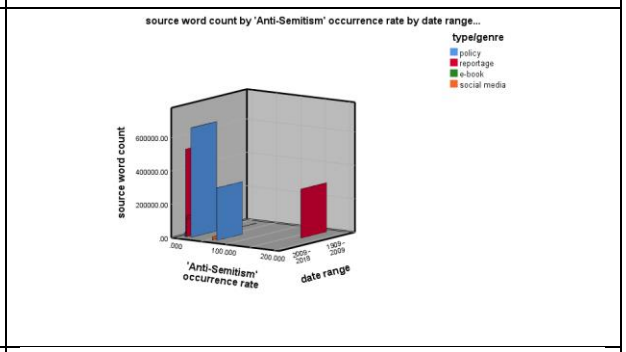


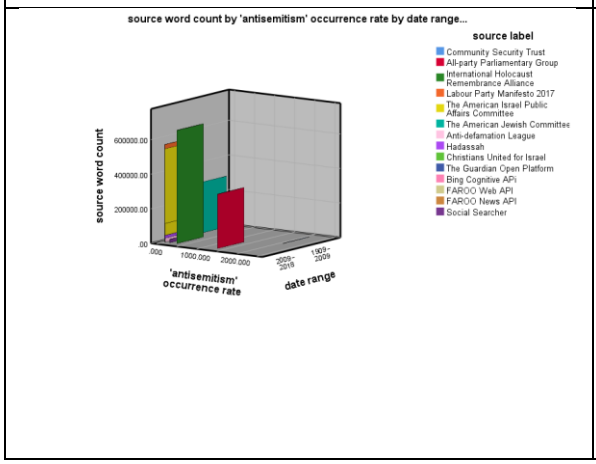


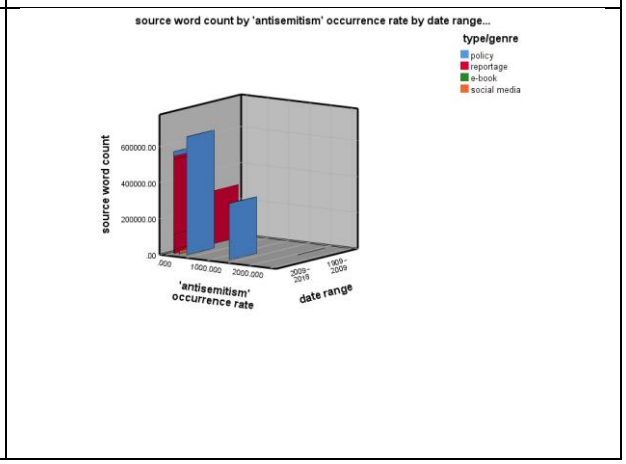


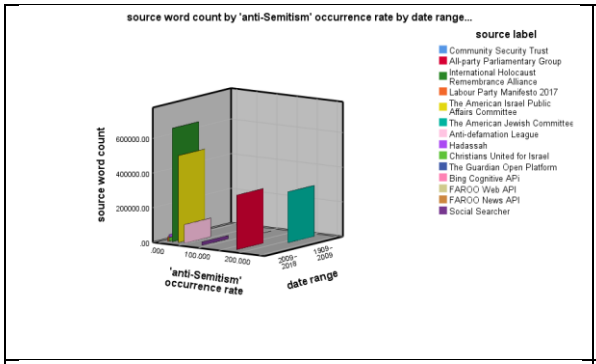











source word count by 'anti-Semitism' occurrence rate by date range...
source label
Community Security Trust
All-party Parliamentary Group
International Holocaust Remembrance Alliance
Labour Party Manifesto 2017
The American Israel Public Affairs Committee
The American Jewish Committee
Anti-defamation League
Hadassah
Christians United for Israel
The Guardian Open Platform
Bing Cognitive APi
FAROO Web API
FAROO News API
Social Searcher
source word count
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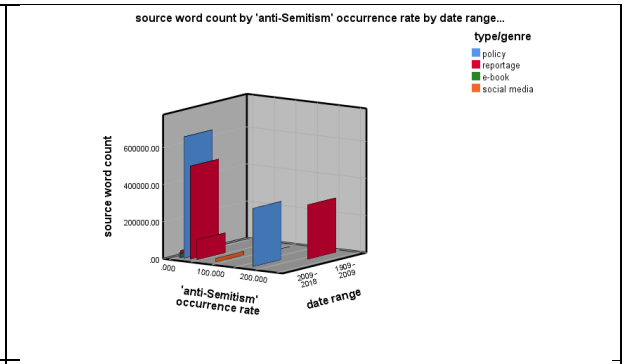
.000
100.000
200.000
'anti-Semitism' occurrence rate
2009-2018
1909-2009
date range


source word count by 'anti-Semitism' occurrence rate by date range...
type/genre
policy
reportage
e-book
social media
source word count
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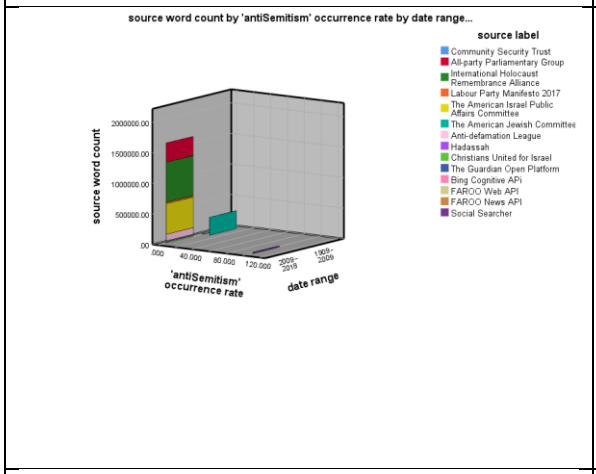
400000.00
200000.00
.00
.000
100.000
200.000
'anti-Semitism' occurrence rate
2009-2018
1909-2009
date range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International Holocaust Remembrance Alliance
Labour Party Manifesto 2017
The American Israel Public Affairs Committee
The American Jewish Committee
Anti-defamation League
Hadassah
Christians United for Israel
The Guardian Open Platform
Bing Cognitive APi
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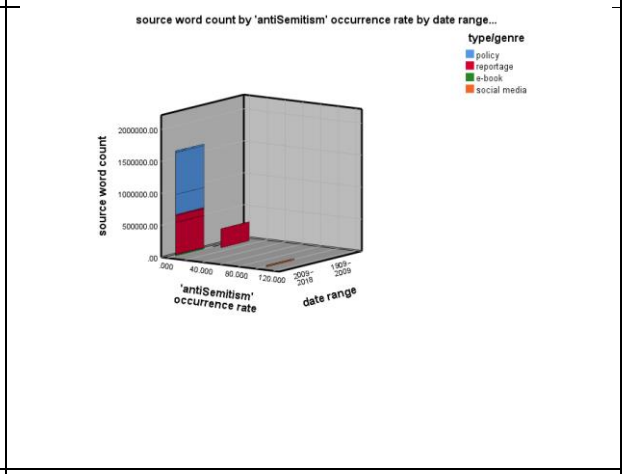
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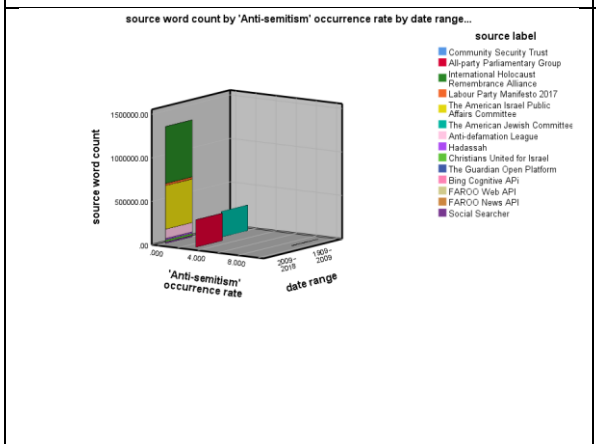
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Labour Party Manifesto 2017
The American Israel Public Affairs Committee
The American Jewish Committee
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Hadassah
Christians United for Israel
The Guardian Open Platform
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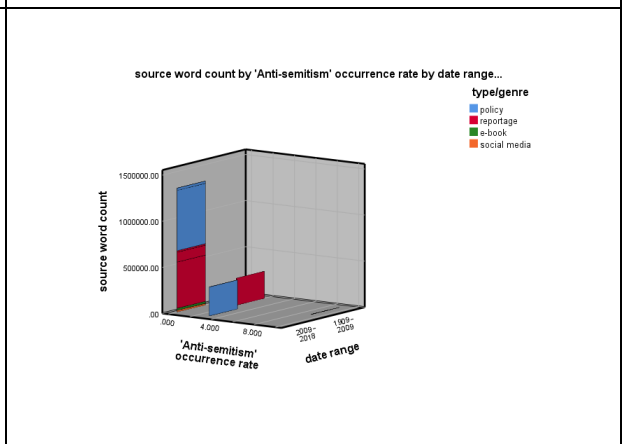
date range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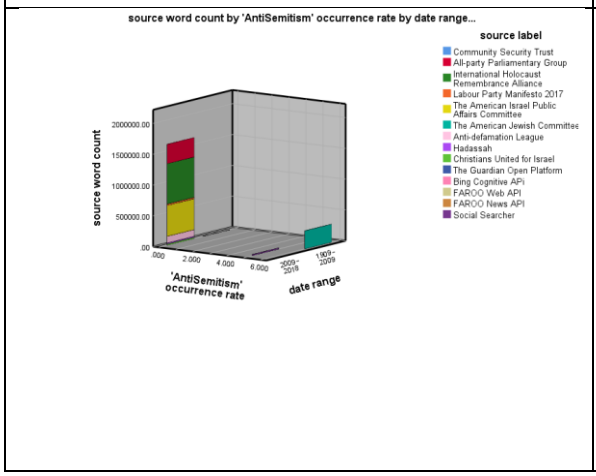
'Anti-semitism' occurrence rate
2009-2018
1909-2009
date range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The American Jewish Committee
Anti-defamation League
Hadassah
Christians United for Israel
The Guardian Open Platform
Bing Cognitive APi
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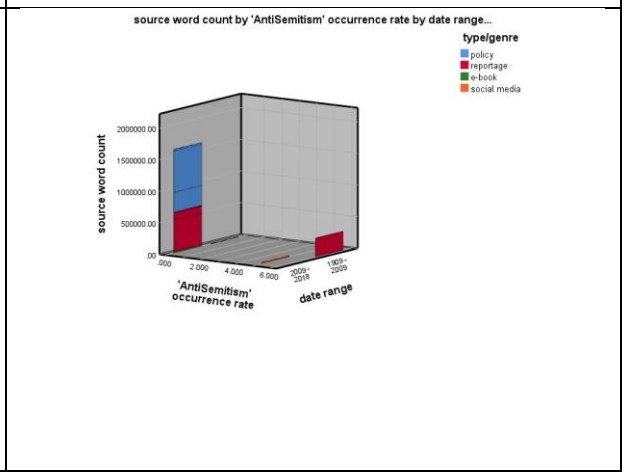
'AntiSemitism' occurrence rate
2009-2018
1909-2009
date range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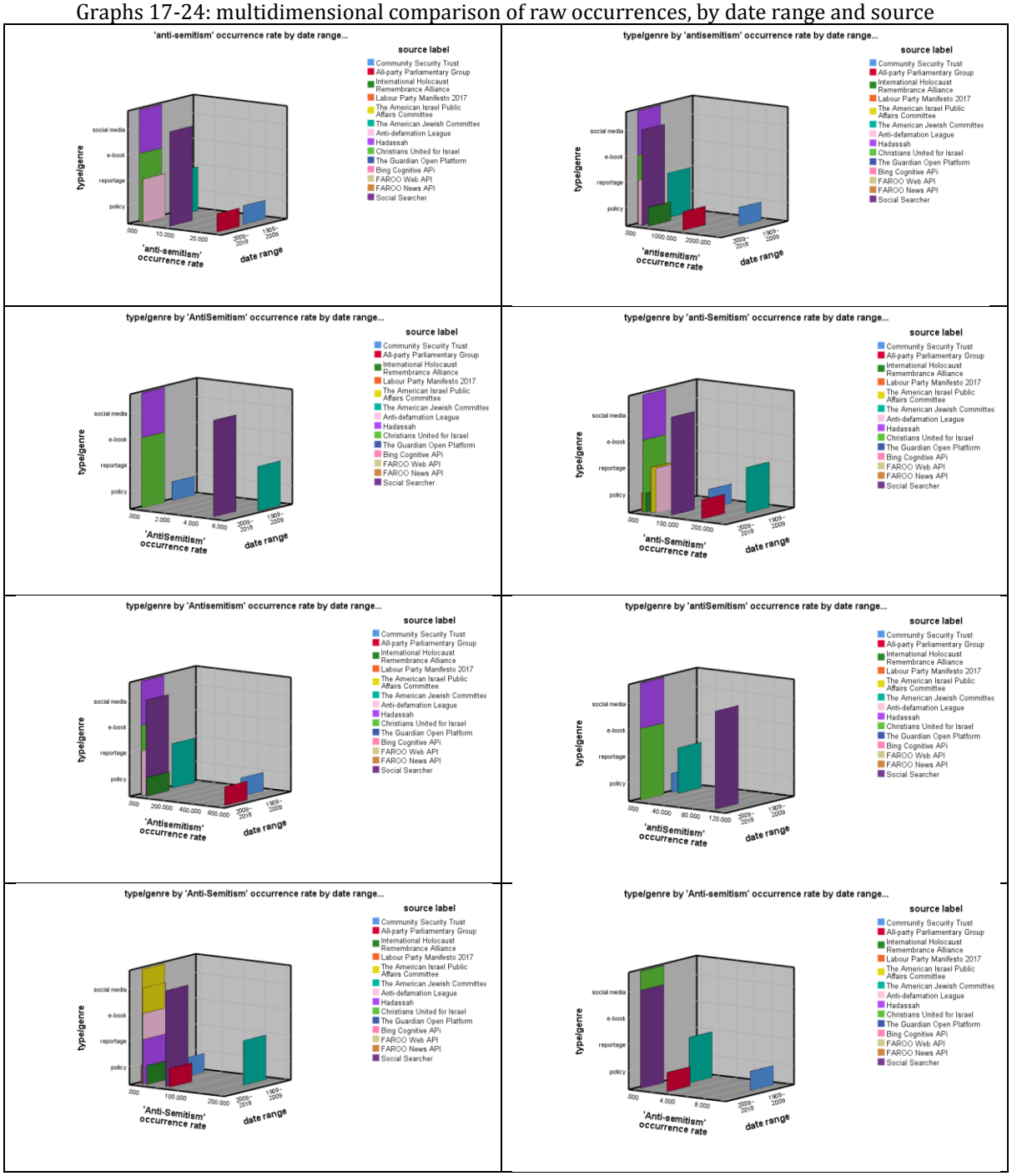
'AntiSemitism' occurrence rate
2009-2018
1909-2009
date range

Appendix 3

Graphs 17-24: multidimensional comparison of raw occurrences, by date range and source



Appendix 4

Pairwise interactions between WMatrix4 collocates common to more than one list, inclusive of supplementary data

	V2 614	**V3** 126	**V4** 1593	**V5** 207	**V6** 27	**V7** 7	**V8** 4
V1 21	5	4	7	5	0	1	0
V2 614		60	316	59	10	4	3
V3 126			65	36	4	2	1
V4 1593				124	16	4	3
V5 207					10	1	1
V6 27						0	0
V7 7							0

Collocate(s)	**count(s)**	**variant(s)**
Antisemitism	5	V1, V3, V4, V5, V7
Europe	5	V2, V3, V4, V5, V6
Germany	5	V2, V3, V4, V5, V8
Anti	4	V2, V3, V4, V5
European	4	V2, V3, V4, V6
France	4	V2, V3, V4, V5
Holocaust	4	V2, V3, V4, V5
Islamophobia	4	V2, V4, V5, V6
Jewish	4	V2, V3, V4, V6
Jews	4	V2, V3, V4, V6
Labour	4	V2, V3, V4, V5
Line	4	V2, V4, V5, V6
Nazi	4	V2, V3, V4, V5
Religion	4	V1, V2, V3, V5
Research	4	V2, V3, V4, V7
Share	4	V2, V3, V4, V5
States	4	V2, V3, V4, V5
The	4	V2, V3, V4, V5
Timeline	4	V2, V3, V4, V5
UK	4	V2, V3, V4, V5
United	4	V2, V3, V4, V5
against	4	V2, V4, V5, V6
antisemitism	4	V1, V2, V3, V5
country	4	V2, V4, V5, V6
https	4	V1, V2, V3, V4
modern	4	V2, V3, V4, V5
rise	4	V2, V3, V4, V5
row	4	V2, V3, V4, V5
today	4	V2, V3, V4, V5
used	4	V2, V3, V4, V5
America	3	V2, V3, V5

Antisemitisma	3	V2, V4, V5
Britain	3	V2, V3, V4
COORDINATION	3	V2, V4, V5
Center	3	V2, V3, V4
Christian	3	V2, V4, V8
Contemporary	3	V2, V3, V4
Contents	3	V2, V3, V4
Corbyn	3	V2, V4, V5
Countering	3	V2, V4, V5
English	3	V2, V4, V5
Facebook	3	V2, V4, V5
Forum	3	V2, V4, V5
Great	3	V2, V3, V4
History	3	V2, V3, V4
Inquiry	3	V2, V3, V4
Institute	3	V2, V4, V7
Jeremy	3	V2, V4, V5
Kingdom	3	V2, V3, V4
Middle	3	V2, V3, V4
Pakistan	3	V2, V3, V4
Party	3	V2, V4, V5
Persecution	3	V2, V3, V4
Posted	3	V2, V3, V4
References	3	V2, V4, V5
Semitism	3	V3, V4, V5
South	3	V2, V3, V4
Wiktionary	3	V2, V4, V5
Xenophobia	3	V2, V3, V4
Zoroastrianism	3	V1, V2, V5
alive	3	V3, V4, V5
all	3	V2, V4, V5
anti	3	V2, V4, V5
around	3	V2, V3, V4
become	3	V3, V4, V5
calendar	3	V2, V4, V5
campus	3	V2, V4, V5
can	3	V2, V4, V5
charges	3	V2, V4, V5
criticism	3	V2, V4, V5
date	3	V2, V4, V5
definition	3	V2, V4, V5
directed	3	V2, V4, V5
four	3	V3, V4, V5
getting	3	V3, V4, V5
ideology	3	V2, V4, V7
increased	3	V2, V4, V6
its	3	V2, V4, V5
look	3	V2, V4, V5
medieval	3	V3, V4, V5
new	3	V2, V4, V6
party	3	V2, V4, V5
political	3	V2, V4, V5
portal	3	V1, V2, V5
problem	3	V3, V4, V5
public	3	V2, V4, V5
racism	3	V4, V5, V6
recent	3	V2, V3, V4
related	3	V2, V3, V4
rising	3	V2, V3, V4
serious	3	V2, V4, V5
trying	3	V4, V5, V6
will	3	V2, V4, V5
world	3	V2, V3, V4
worse	3	V3, V4, V5
A	2	V2, V4
ADOPTED	2	V4, V5

About	2	V2, V3
Academic	2	V2, V4
According	2	V2, V4
Addressing	2	V2, V4
Africa	2	V2, V4
Against	2	V2, V4
Alevism	2	V2, V4
Although	2	V2, V4
American	2	V2, V4
Anthony	2	V4, V5
Antisemitismus	2	V2, V4
Arab	2	V2, V4
Archive	2	V2, V4
Beliefs	2	V2, V8
Berkeley	2	V2, V3
Berlin	2	V2, V4
British	2	V2, V4
COMBAT	2	V2, V4
COMBATING	2	V2, V4
COMBATTING	2	V2, V4
CST	2	V4, V5
Campaign	2	V2, V4
Canada	2	V2, V4
Category	2	V2, V4
Christianity	2	V2, V4
Cities	2	V2, V4
Coalition	2	V2, V4
Codes	2	V2, V4
Committee	2	V2, V4
Conference	2	V2, V4
Core	2	V2, V3
Criticism	2	V2, V4
Current	2	V2, V4
Declaration	2	V2, V4
Defining	2	V2, V4
Definition	2	V2, V4
Dictionary	2	V2, V5
Digital	2	V2, V4
Discount	2	V2, V4
Discrimination	2	V2, V4
Displaced	2	V2, V4
EMANCIPATION	2	V2, V4
ENSURE	2	V2, V4
EU	2	V4, V8
EUMC	2	V2, V4
East	2	V2, V3
Economic	2	V4, V5
Education	2	V2, V7
England	2	V4, V5
Face	2	V2, V3
Football	2	V2, V4
Foundation	2	V2, V4
French	2	V2, V4
From	2	V2, V4
Further	2	V2, V4
German	2	V2, V4
Government	2	V2, V4
Government's	2	V2, V4
Group	2	V2, V4
Guide	2	V2, V4
Hadith	2	V2, V4
Harap	2	V4, V5
Hidden	2	V2, V4
How	2	V2, V4
Hungary	2	V2, V4
IMPORTANCE	2	V2, V4

IMPORTANT	2	V4, V5
INITIATIVE	2	V2, V4
In	2	V2, V4
Inquiries	2	V2, V4
International	2	V2, V4
Into	2	V2, V4
Iran	2	V2, V4
Iraqi	2	V2, V4
Islam	2	V2, V4
Islamic	2	V2, V4
Israel	2	V2, V4
It	2	V4, V5
JPR	2	V2, V4
Japan	2	V2, V4
Japanese	2	V2, V4
John	2	V2, V4
Judaism	2	V2, V4
LEGEND	2	V4, V5
London	2	V2, V4
Louis	2	V4, V5
Main	2	V2, V4
Manifestations	2	V2, V4
Martin	2	V2, V4
Modern	2	V2, V4
More	2	V2, V4
Most	2	V3, V4
Muslim	2	V2, V4
Nation	2	V2, V4
Nationalsozialismus	2	V2, V4
New	2	V2, V4
Norway	2	V2, V4
Nov	2	V2, V4
Orientalism	2	V2, V4
PATRONS	2	V2, V4
PRECISE	2	V2, V4
PRIZE	2	V2, V4
PROGRESS	2	V2, V4
PROMOTE	2	V2, V4
PROMOTING	2	V2, V4
PROTECT	2	V4, V5
Papers	2	V2, V3
Parliamentary	2	V2, V4
Part	2	V2, V4
Pears	2	V2, V4
Pittsburgh	2	V2, V4
Podcast	2	V2, V3
Poland	2	V2, V3
Police	2	V4, V5
Policy	2	V2, V4
Politics	2	V2, V4
Posen	2	V2, V3
Qur'an	2	V2, V4
RECOMMENDED	2	V2, V4
Race	2	V2, V4
Racial	2	V2, V4
Racism	2	V2, V3
Reference	2	V2, V4
Reflections	2	V2, V4
Related	2	V2, V4
Relations	2	V2, V4
Religious	2	V2, V4
Report	2	V2, V4
Reports	2	V2, V3
Resources	2	V2, V5
Rhetorical	2	V2, V4
Rights	2	V2, V4

SIGNIFICANT	2	V4, V5
SPECIAL	2	V2, V4
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Series	2	V2, V3
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Stab	2	V4, V5
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Study	2	V2, V4
Sufis	2	V2, V4
Sweden	2	V2, V4
Swedish	2	V2, V4
TOLERANCE	2	V2, V4
TRUST	2	V2, V4
Tackling	2	V2, V4
Test	2	V2, V4
Testament	2	V2, V4
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Violent	2	V3, V5
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believe	2	V4, V6
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century	2	V2, V4
challenge	2	V2, V4
charity	2	V2, V4
cited	2	V1, V4
comes	2	V4, V5
commits	2	V2, V4
complex	2	V4, V5
complexity	2	V2, V4
comprises	2	V4, V5
concept	2	V2, V4
conference	2	V2, V4
confront	2	V2, V4

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definitions	2	V2, V4
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discourse	2	V2, V5
doesn't	2	V3, V5
early	2	V2, V4
economic	2	V4, V5
edition	2	V2, V4
envoy	2	V2, V4
established	2	V2, V4
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existed	2	V3, V4
exists	2	V1, V4
experienced	2	V4, V5
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extremists	2	V2, V4
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features	2	V2, V4
feeling	2	V3, V4
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first	2	V4, V5
following	2	V3, V5
football	2	V2, V4
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forms	2	V4, V5
found	2	V4, V5
frequently	2	V2, V4
global	2	V2, V4
globalization	2	V2, V4
growing	2	V4, V5
harm	2	V2, V4
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highlight	2	V2, V4
history	2	V2, V4
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information	2	V2, V4
insult	2	V4, V5
issues	2	V2, V4
itself	2	V2, V4
justify	2	V2, V4
kinds	2	V4, V5
lead	2	V2, V4
learned	2	V2, V4
left	2	V2, V4

legislation	2	V5, V6
less	2	V2, V4
life	2	V3, V4
linked	2	V4, V5
links	2	V2, V4
makes	2	V3, V4
manifestations	2	V2, V4
manifests	2	V2, V4
measures	2	V4, V5
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particular	2	V4, V5
passed	2	V5, V6
people	2	V2, V4
perception	2	V2, V4
persisted	2	V1, V4
pervades	2	V3, V5
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play	2	V4, V5
policy	2	V2, V4
predates	2	V2, V4
prejudice	2	V2, V4
premise	2	V4, V5
prevalent	2	V2, V4
racial	2	V4, V5
reduce	2	V2, V4
reference	2	V2, V4
referred	2	V2, V4
religious	2	V2, V4
remain	2	V4, V5
remains	2	V2, V4
repeatedly	2	V2, V4
report	2	V2, V4
reported	2	V3, V4
resources	2	V2, V4
respondents	2	V4, V6
response	2	V4, V5
search	2	V2, V4
series	2	V2, V4
seriously	2	V4, V5
set	2	V2, V4
several	2	V4, V5
silence	2	V4, V5
situation	2	V2, V4
social	2	V4, V5
sources	2	V3, V4
spelled	2	V4, V5
stages	2	V2, V4
status	2	V2, V4
stop	2	V5, V6
students	2	V2, V4
study	2	V2, V4
subject	2	V2, V4
suggests	2	V2, V4
summarised	2	V2, V4

survey	2	V4, V6
tackle	2	V2, V4
tackling	2	V2, V4
takes	2	V2, V4
taskforce	2	V2, V4
test	2	V2, V4
threat	2	V2, V4
timely	2	V4, V5
topics	2	V2, V3
two	2	V1, V4
und	2	V2, V4
underlying	2	V4, V5
use	2	V2, V4
uses	2	V4, V5
very	2	V4, V5
watchdog	2	V3, V4
way	2	V2, V4
wherever	2	V4, V5
widespread	2	V2, V4
within	2	V4, V5
word	2	V2, V4
work	2	V2, V4

Appendix 5

Pairwise interactions between AntConc collocates common to more than one list, inclusive of supplementary data

	V1 (R) 12	**V2 (L)** 225	**V2 (R)** 260	**V3 (L)** 48	**V3 (R)** 70	**V4 (L)** 518	**V4 (R)** 509	**V5 (L)** 72	**V5 (R)** 88	**V6 (L)** 14	**V6 (R)** 9	**V7 (L)** 1	**V7 (R)** 1	**V8 (L)** 3	**V8 (R)** 3
V1 (L) 9	3	6	6	4	6	8	7	8	6	1	1	0	0	0	0
V1 (R) 12		10	9	6	9	12	12	8	12	0	3	0	0	0	0
V2 (L) 225			121	28	31	137	112	40	40	8	5	0	0	0	0
V2 (R) 260				25	41	132	160	32	53	8	5	0	0	0	2
V3 (L) 48					31	32	27	22	18	3	4	0	0	0	1
V3 (R) 70						39	39	22	32	3	4	0	0	0	1
V4 (L) 518							249	60	65	8	5	0	0	0	2
V4 (R) 509								47	77	6	7	0	0	0	2
V5 (L) 72									32	5	5	0	0	0	0
V5 (R) 88										6	5	0	0	0	0
V6 (L) 14											1	0	0	0	0

V6 (R) 9	0	0	0	0
V7 (L) 1		0	0	0
V7 (R) 1			0	0
V8 (L) 3				0

Collocate(s)	count(s)	variant(s)
In	11	V1 (L), V1 (R), V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R), V6 (R)
and	10	V1 (R), V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R), V6 (R)
anti	10	V1 (L), V1 (R), V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
Europe	9	V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R), V6 (R)
is	9	V1 (R), V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
new	9	V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R), V6 (L)
of	9	V1 (L), V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
on	9	V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R), V6 (L)
the	9	V1 (R), V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
to	9	V1 (L), V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
as	8	V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
for	8	V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
has	8	V1 (R), V2 (R), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R), V6 (R)
holocaust	8	V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
line	8	V2 (L), V2 (R), V4 (L), V4 (R), V5 (L), V5 (R), V6 (L), V6 (R)
modern	8	V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
racism	8	V1 (L), V2 (L), V2 (R), V4 (L), V4 (R), V5 (L), V5 (R), V6 (L)
a	7	V2 (L), V2 (R), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
at	7	V1 (R), V2 (L), V2 (R), V3 (R), V4 (L), V4 (R), V5 (R)
by	7	V2 (L), V2 (R), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
history	7	V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L)
it	7	V1 (R), V2 (L), V2 (R), V3 (R), V4 (L), V4 (R), V5 (R)
or	7	V1 (L), V1 (R), V2 (L), V4 (L), V4 (R), V5 (L), V5 (R)
semitism	7	V1 (R), V2 (L), V3 (L), V4 (L), V4 (R), V5 (L), V5 (R)

that	7	V2 (L), V2 (R), V4 (L), V4 (R), V5 (L), V5 (R), V6 (L)
united	7	V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (R)
Germany	6	V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V8 (R)
Jewish	6	V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V6 (L)
Zionism	6	V2 (L), V2 (R), V4 (L), V4 (R), V5 (L), V5 (R)
against	6	V2 (L), V2 (R), V3 (L), V4 (L), V4 (R), V5 (L)
also	6	V2 (L), V2 (R), V4 (L), V4 (R), V5 (L), V5 (R)
from	6	V2 (L), V2 (R), V3 (R), V4 (L), V4 (R), V5 (R)
https	6	V1 (R), V2 (R), V3 (R), V4 (L), V4 (R), V5 (R)
into	6	V2 (L), V2 (R), V3 (L), V4 (L), V4 (R), V5 (L)
islamophobia	6	V2 (L), V2 (R), V4 (L), V4 (R), V5 (R), V6 (L)
labour	6	V2 (L), V2 (R), V4 (L), V4 (R), V5 (L), V5 (R)
not	6	V2 (L), V2 (R), V3 (R), V4 (L), V4 (R), V5 (R)
report	6	V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R)
rise	6	V1 (L), V2 (R), V3 (R), V4 (L), V4 (R), V5 (L)
what	6	V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
which	6	V2 (L), V2 (R), V3 (R), V4 (L), V4 (R), V5 (R)
with	6	V2 (L), V2 (R), V4 (L), V4 (R), V5 (L), V5 (R)
European	5	V2 (L), V2 (R), V3 (R), V4 (L), V4 (R)
all	5	V2 (L), V2 (R), V4 (L), V4 (R), V5 (R)
an	5	V2 (L), V2 (R), V4 (L), V4 (R), V5 (R)
been	5	V2 (L), V2 (R), V4 (L), V4 (R), V5 (R)
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hatred	5	V2 (L), V2 (R), V3 (L), V4 (L), V4 (R)
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its	5	V2 (L), V2 (R), V4 (L), V4 (R), V5 (R)
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uk	5	V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
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Christian	4	V2 (L), V3 (L), V4 (L), V4 (R)
Christianity	4	V2 (L), V2 (R), V4 (L), V4 (R)
Israel	4	V2 (L), V2 (R), V4 (L), V4 (R)
Judaism	4	V2 (L), V2 (R), V4 (L), V4 (R)
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current	4	V2 (L), V2 (R), V4 (L), V4 (R)
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group	4	V2 (L), V2 (R), V4 (L), V4 (R)
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Jeremy	3	V2 (R), V4 (L), V4 (R)
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recent	2	V4 (L), V4 (R)
reflections	2	V2 (L), V4 (L)
related	2	V4 (L), V4 (R)
reports	2	V4 (L), V4 (R)
role	2	V4 (L), V4 (R)
same	2	V4 (L), V4 (R)
school	2	V2 (L), V4 (L)
schools	2	V2 (R), V5 (R)
security	2	V4 (L), V4 (R)
see	2	V2 (L), V4 (R)
series	2	V2 (L), V4 (L)
serious	2	V4 (L), V4 (R)
set	2	V2 (R), V4 (R)
share	2	V4 (R), V5 (R)
should	2	V2 (R), V4 (R)
since	2	V2 (R), V4 (R)
so	2	V2 (R), V4 (R)
social	2	V4 (L), V4 (R)
sources	2	V2 (L), V4 (L)
speak	2	V4 (L), V4 (R)
speech	2	V2 (R), V4 (L)
spelled	2	V2 (R), V4 (L)
spring	2	V2 (L), V2 (R)
study	2	V2 (L), V4 (L)
summary	2	V2 (R), V4 (R)
surge	2	V4 (L), V5 (L)
taken	2	V4 (L), V4 (R)
term	2	V4 (L), V5 (L)
terms	2	V4 (L), V4 (R)
terrorism	2	V4 (L), V4 (R)
testament	2	V2 (L), V4 (L)
than	2	V4 (L), V4 (R)
theories	2	V4 (L), V4 (R)
through	2	V2 (R), V4 (R)
time	2	V4 (L), V4 (R)
topics	2	V2 (L), V2 (R)
toward	2	V2 (R), V4 (R)
towards	2	V4 (L), V4 (R)
translation	2	V5 (L), V5 (R)
types	2	V4 (L), V4 (R)
university	2	V2 (R), V4 (R)
us	2	V2 (R), V4 (L)
using	2	V4 (L), V4 (R)
very	2	V2 (R), V4 (R)
via	2	V2 (R), V3 (R)
victims	2	V4 (L), V4 (R)
virtual	2	V3 (L), V3 (R)
were	2	V4 (L), V4 (R)
when	2	V4 (L), V4 (R)
where	2	V4 (L), V4 (R)
while	2	V4 (L), V4 (R)
who	2	V4 (L), V4 (R)
wiki	2	V2 (L), V4 (L)
within	2	V2 (R), V4 (R)
without	2	V4 (L), V4 (R)
worse	2	V3 (R), V5 (R)
wp	2	V2 (R), V4 (R)
yad	2	V2 (L), V2 (R)

years	2	V4 (L), V4 (R)

Appendix 6

Pairwise interactions between negatively-oriented WMatrix4 collocates common to more than one list, inclusive of supplementary data

	V2 57	**V3** 21	**V4** 225	**V5** 31	**V6** 4	**V7** 1
V1 5	1	2	1	2	0	1
V2 57		9	30	10	2	0
V3 21			10	11	0	1
V4 225				20	3	1
V5 31					3	1
V6 4						0

Collocate(s)	**count(s)**	**variant(s)**
Antisemitism	5	V1, V3, V4, V5, V7
Anti	4	V2, V3, V4, V5
Holocaust	4	V2, V3, V4, V5
Islamophobia	4	V2, V4, V5, V6
Nazi	4	V2, V3, V4, V5
against	4	V2, V4, V5, V6
antisemitism	4	V1, V2, V3, V5
row	4	V2, V3, V4, V5
Countering	3	V2, V4, V5
Persecution	3	V2, V3, V4
Xenophobia	3	V2, V3, V4
anti	3	V2, V4, V5
criticism	3	V2, V4, V5
problem	3	V3, V4, V5
racism	3	V4, V5, V6
rising	3	V2, V3, V4
worse	3	V3, V4, V5
Against	2	V2, V4
Antisemitisma	2	V2, V4
Antisemitismus	2	V2, V4
Criticism	2	V2, V4
Discrimination	2	V2, V4
Displaced	2	V2, V4
Racism	2	V2, V3
Stab	2	V4, V5
Violent	2	V3, V5
argued	2	V4, V5
challenge	2	V2, V4
confront	2	V2, V4
countering	2	V2, V4
crime	2	V4, V5
crisis	2	V2, V4
defamation	2	V4, V5
doesn't	2	V3, V5
exclusion	2	V4, V5
extremists	2	V2, V4

fight	2	V2, V4
harm	2	V2, V4
hate	2	V4, V5
hostility	2	V2, V4
insult	2	V4, V5
issues	2	V2, V4
non	2	V2, V4
pervades	2	V3, V5
prejudice	2	V2, V4
threat	2	V2, V4

Appendix 7

Pairwise interactions between negatively-oriented AntConc collocates common to more than one list, inclusive of supplementary data

	V1 (R) 1	**V2 (L)** 14	**V2 (R)** 19	**V3 (L)** 5	**V3 (R)** 7	**V4 (L)** 65	**V4 (R)** 50	**V5 (L)** 12	**V5 (R)** 11	**V6 (L)** 2	**V7 (L)** 1	**V8 (R)** 1
V1 (L) 2	1	2	2	1	1	2	2	2	1	1	0	0
V1 (R) 1		1	1	1	1	1	1	1	0	0	0	0
V2 (L) 14			7	2	4	9	5	5	4	2	0	0
V2 (R) 19				4	4	12	14	4	6	2	0	0
V3 (L) 5					2	5	5	4	1	0	0	0
V3 (R) 7						3	3	2	4	0	0	0
V4 (L) 65							24	11	4	2	0	0
V4 (R) 50								6	7	2	0	0
V5 (L) 12									2	1	0	0
V5 (R) 11										2	0	0
V6 (L) 2											0	0
V7 (L) 1												0

Collocate(s)	**count(s)**	**variant(s)**
anti	9	V1 (L), V1 (R), V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L)
holocaust	8	V2 (L), V2 (R), V3 (L), V3 (R), V4 (L), V4 (R), V5 (L), V5 (R)
racism	8	V1 (L), V2 (L), V2 (R), V4 (L), V4 (R), V5 (L), V5 (R), V6 (L)
islamophobia	6	V2 (L), V2 (R), V4 (L), V4 (R), V5 (R), V6 (L)
against	5	V2 (R), V3 (L), V4 (L), V4 (R), V5 (L)
Nazi	4	V3 (L), V4 (L), V4 (R), V5 (L)
antisemitism	4	V2 (L), V2 (R), V3 (R), V5 (R)
hate	4	V2 (R), V4 (L), V4 (R), V5 (R)
hatred	4	V2 (R), V3 (L), V4 (L), V4 (R)

not	4	V2 (L), V2 (R), V3 (R), V4 (L)
crisis	3	V2 (L), V2 (R), V4 (R)
discrimination	3	V2 (R), V4 (L), V4 (R)
fight	3	V2 (L), V4 (L), V5 (L)
hostility	3	V2 (R), V4 (R), V5 (R)
issues	3	V2 (R), V4 (L), V4 (R)
no	3	V2 (R), V4 (L), V4 (R)
rising	3	V2 (L), V4 (L), V5 (L)
row	3	V3 (R), V4 (R), V5 (R)
xenophobia	3	V2 (R), V4 (L), V4 (R)
accusations	2	V4 (L), V5 (L)
accused	2	V4 (L), V5 (L)
allegations	2	V4 (L), V5 (L)
anti-Semitic	2	V4 (L), V4 (R)
bad	2	V4 (L), V4 (R)
concerns	2	V4 (L), V4 (R)
confront	2	V2 (L), V4 (L)
conspiracy	2	V4 (L), V4 (R)
controversy	2	V4 (L), V4 (R)
countering	2	V2 (L), V4 (L)
crime	2	V4 (L), V4 (R)
defamation	2	V4 (R), V5 (R)
exploiting	2	V4 (L), V4 (R)
fails	2	V2 (R), V4 (R)
fighting	2	V4 (L), V5 (L)
issue	2	V4 (L), V4 (R)
prejudice	2	V4 (L), V4 (R)
problem	2	V4 (R), V5 (L)
terrorism	2	V4 (L), V4 (R)
victims	2	V4 (L), V4 (R)
without	2	V4 (L), V4 (R)
worse	2	V3 (R), V5 (R)