



Friedrich-Alexander-Universität  
Philosophische Fakultät und  
Fachbereich Theologie



UNIVERSITY OF  
BIRMINGHAM

DFG Deutsche  
Forschungsgemeinschaft



Arts and  
Humanities  
Research Council

living in some squalor; the other exhibitions were **IN** houses, old shops, small factory spaces, offices a  
might be described as 'wet' or 'dry' (W or D) and **IN** a humid temperate climate such as Britain experie  
e powerful message put across by the curriculum **IN** most schools is that knowledge can be divided into  
ot like the trouble we had half an hour ago, when **IN** fact there were three lines, sections of which there  
Opportunities for oral **READING** arise naturally **IN** the course of the day; for instance, in the activity o  
traditional hand-made **CONCORDANCES** **IN** several ways. One is that they will be much more  
ched Milan. 'How old were you when you arrived' **IN** Italy?' The American journalist broke into his thoug  
of Modern Art, keen in discerning what was good **IN THE** arts of many ages and styles. As for working  
who felt it necessary to take aside both captains **IN** the **21<sup>ST</sup>** minute and warn them about each tear  
mation has undergone several media revolutions **IN** the last **CENTURY**. In principle, now that opera  
to some extent the ownership of the biggest hits **IN** each year), the aggregate market share of the five  
focus from arts education in general, to one area **IN** particular, namely English lessons and the fictiona  
f the horse was, shall I say dreamed up, erm and **IN** fact we had one or two horses, Clydesdale horses  
faded woods. It was merely that he never wanted **IN** a tournament round to risk anything which might u

2

# Reading concordances with algorithms

CL 2025 Workshop | 29 June 2025

Reading Concordances in the 21<sup>st</sup> Century (RC21) project team

Nathan Dykes • Stephanie Evert • Michaela Mahlberg • Alexander Piperski

# Workshop overview

- I. Concordance reading
- II. Strategies for organising concordances
- III. Hands-on: traditional concordancers
- IV. Reading concordances with algorithms**
- V. Hands-on: FlexiConc
- VI. Summary / outlook: Jupyter notebooks

# Orientation

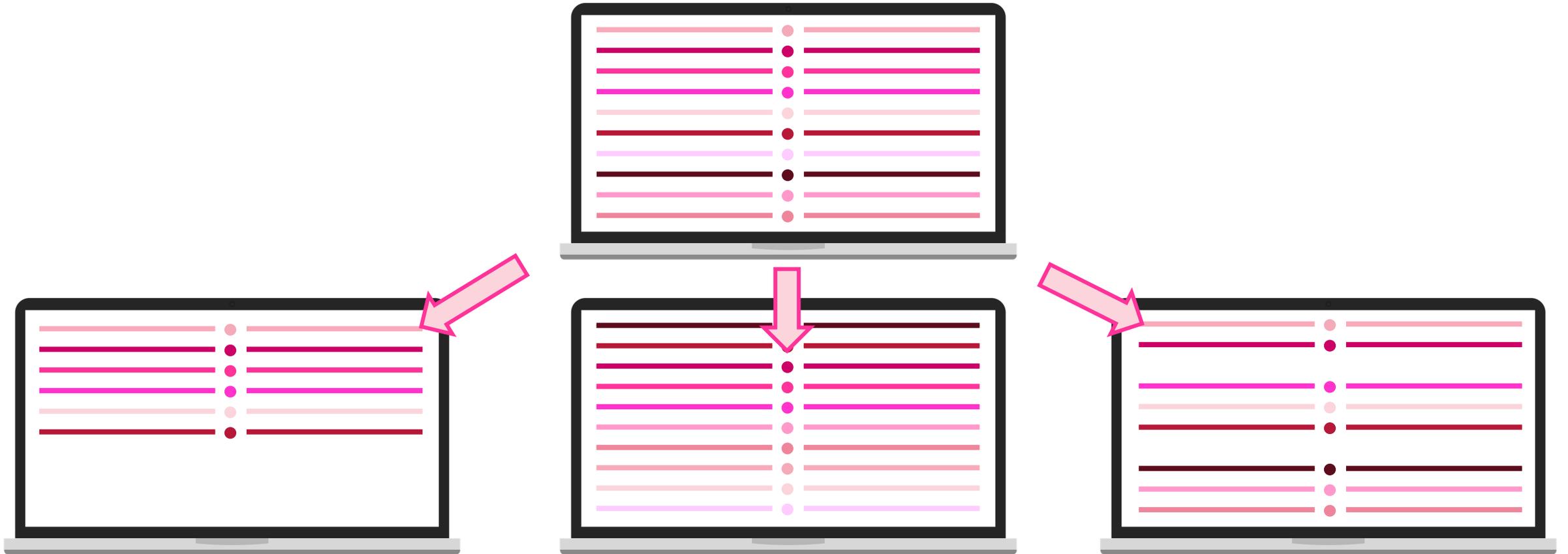
## What we have learned so far ...

- Reading concordances with the help of software tools
- How to identify recurrent patterns and interpret them
- Strategies for organising concordance lines

## What we're going to look at now ...

- What further algorithms could be useful?
- Which software tools do we need to apply these algorithms?
- How can we document the concordance reading process?

# Concordance reading strategies



Selecting

Ordering  
Sorting / Ranking

Grouping  
Partitioning / Clustering

# From strategies to algorithms

## 1. Selecting

- “zoom in” on a **subset** of the concordance lines
- either focus on specific pattern or discard unwanted lines

## 2. Ordering

- change **sequential ordering** of concordance lines in the display
- may want to combine multiple ordering criteria to break ties

## 3. Grouping

- form groups of related concordance lines
- requires **structured kwic display** in UI

# From strategies to algorithms

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- either focus on specific pattern or discard unwanted lines

## 2. Ordering

- a) **Sorting**: reorder lines based on pairwise comparison
- b) **Ranking**: reorder lines based on preference score
- combine multiple Sorting and Ranking algorithms to break ties

## 3. Grouping

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- a) **Partitioning**: groups based on common property
- b) **Clustering**: (nested) groups based on pairwise similarity
- requires structured kwic display in UI

# Combining algorithms

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- a) **Sorting**: reorder lines based on pairwise comparison
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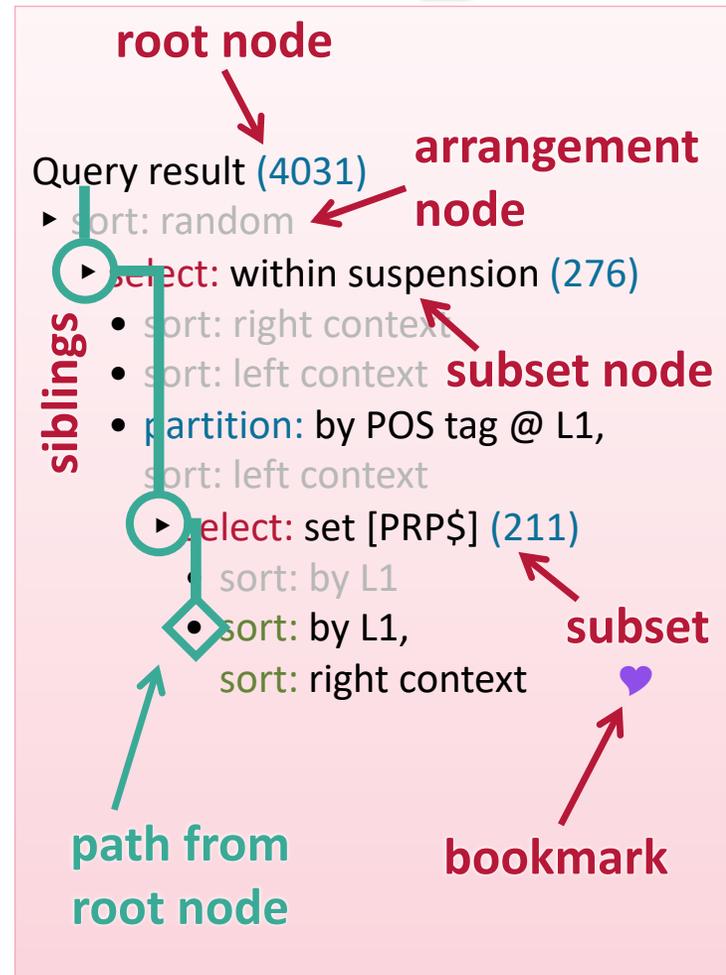
subset  
arrangement

# The analysis tree



Our model of concordance reading: **analysis tree**

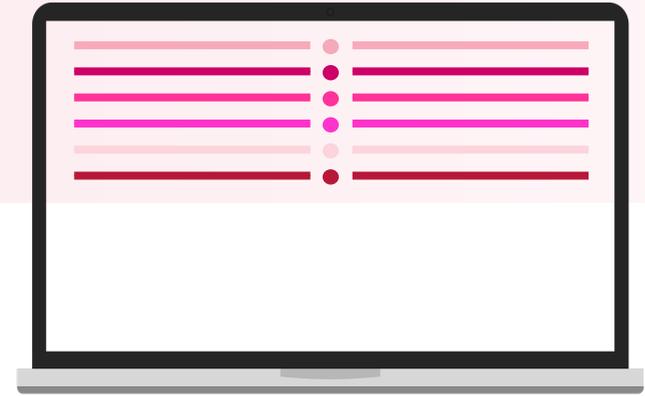
- **Selecting** creates branches that “zoom in” on a subset of lines → **subset node**
  - investigate different patterns with each branch
  - history of operations → hierarchical tree structure
- **Ordering** and **Grouping** algorithms change how this subset is displayed → **arrangement node**
  - different arrangements are siblings in the tree
  - default arrangement: original corpus order
- Each node corresponds to a **concordance view**



# Combining algorithms

- Subset operations can be combined sequentially or nested
  - consecutively narrow down on smaller subsets
- Arrangement operations form alternative views of a subset
  - consequence: can't “stack” multiple arrangements
  - combine sequence of **Ordering** algorithms as tie-breakers
  - multiple **Grouping** algorithms cannot (or should not) be combined
- Arrangement node =  $\leq 1$  **Grouping** + sequence of **Ordering** algo's
  - **Grouping** determines main structure, **Ordering** applies within groups

# Strategy 1: Selecting



**Selecting** = add **Boolean variable** to lines

- keep concordance line if value is True
- exclude selected lines by logical negation of variable (all algorithms)

## Examples

- selection based on metadata categories or numerical ranges
- select random subset (reproducible, stratified, ...)
- KWIC filter (lines containing certain words, lemmas, POS tags, ...)
- manual selection of individual concordance lines

# Strategy 2: Sorting [Ordering]



**Sorting** = add **integer variable** with sort keys

- pairwise comparison of lines ( $A < B$ ,  $A = B$ ,  $A > B$ )
- resulting sort order  $\rightarrow$  integers as **surrogate keys** ( $A < B$ ,  $A = B$ ,  $A > B$ )
- ties ( $A = B$ ) can be broken by additional **Sorting** or **Ranking** algorithms

## Examples

- sort alphabetically by left or right context
- sort by POS tag of first (L1) or second (L2) token before node
- sort by numerical (e.g. year) or categorical (e.g. author) metadata
- random shuffling (reproducible)



# Strategy 3: Ranking [Ordering]



**Ranking** = add **floating-point variable** to lines

- values = preference score assigned to each line
- decreasing order: lines with highest scores shown at top
- ties can occur e.g. if scores happen to be integer values

## Examples

- rank by readability, GDEX algorithm, or fit to selected CEFR level
- rank by frequency of the node string
- rank by similarity to query (for fuzzy search)
- rank by number of significant collocates of the node in context, or by number of user-specified keywords (KWIC grouper)

# Strategy 4: Partitioning [Grouping]



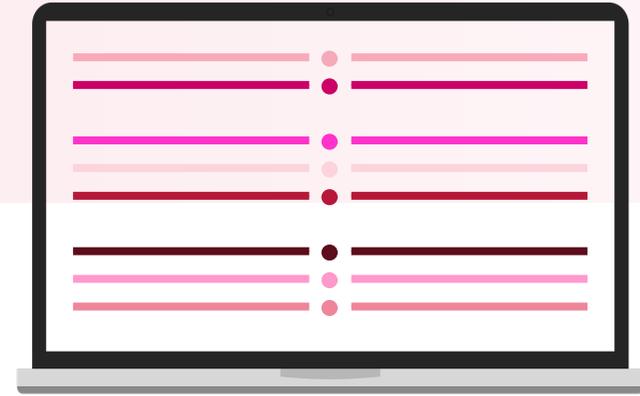
**Partitioning** = add **partition No** to each line

- each line assigned to exactly one partition, based on a property of the concordance line (not on comparisons)
- also provide ordered list of partitions with display labels, etc.

## Examples

- frequency breakdown of node strings
- partition by POS tag of first (L1) or second (L2) token before node
- partition by categorical metadata (variety, genre, speaker info, ...)
- partition by lemma trigram R1+R2+R3 (similar to KWIC patterns)

# Strategy 5: Clustering [Grouping]



**Clustering** = add **ordered tree** over lines

- based on pairwise similarities of concordance lines
- hierarchical clustering → deep tree, flat clustering → single-level tree
- tree describes both nesting and preference order of clusters

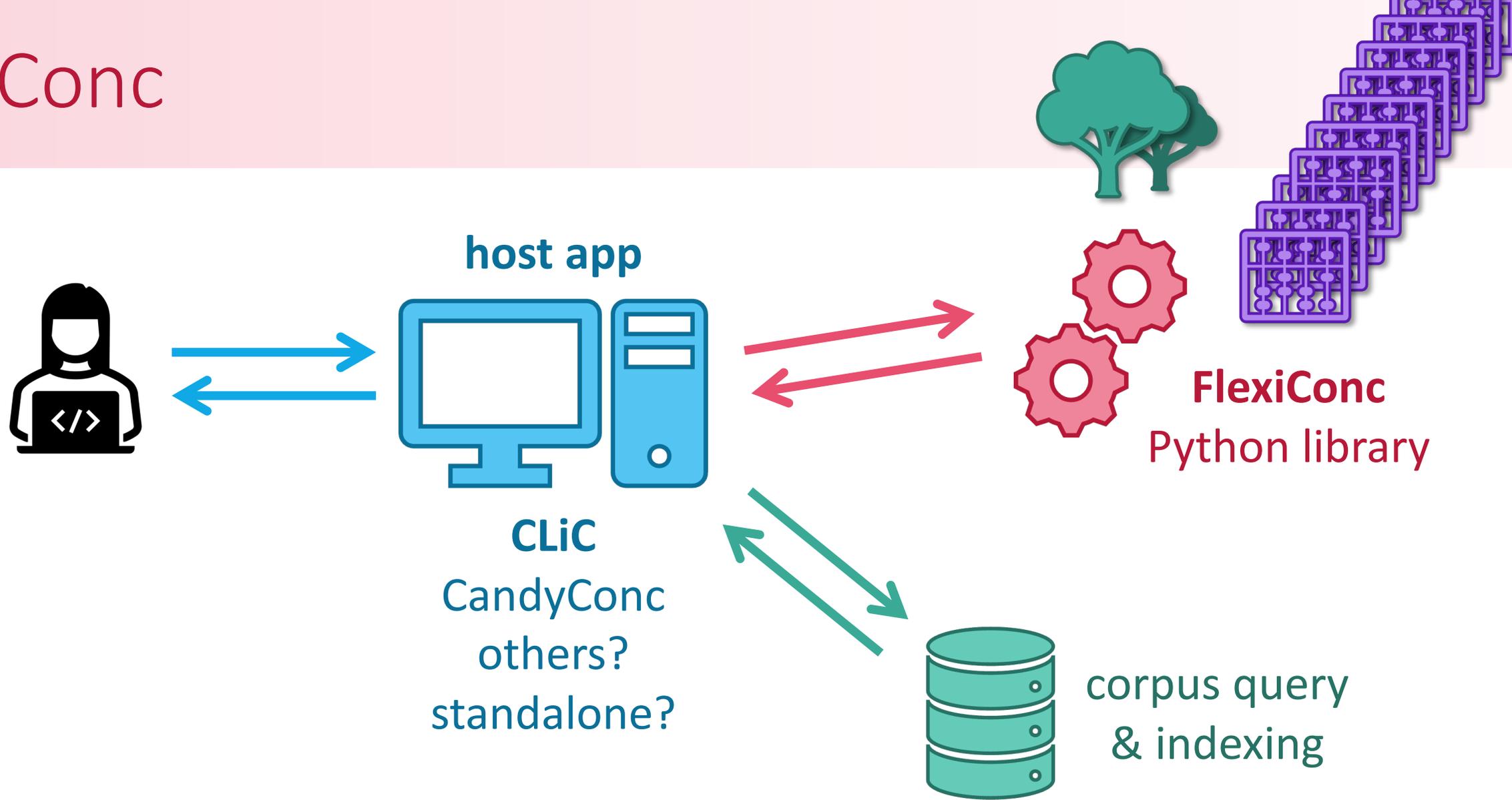
## Examples

- clustering based on lexical similarity (shared words), semantic similarity (sentence/word embeddings), or syntactic similarity
- clustering based on multiple metadata features → similarity score
- all clusterings: either flat or hierarchical, with different algorithms
- context tree (on POS tags, lemmas, semantic tags, ...)

# Research documentation

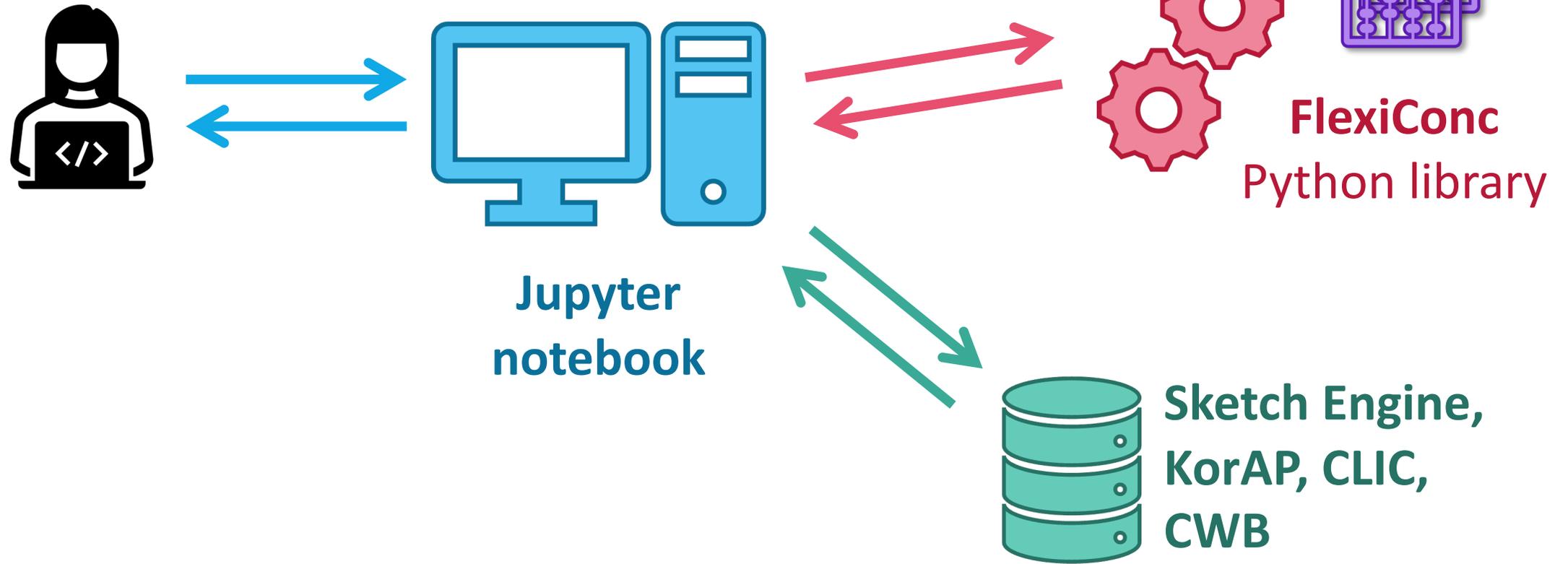
- Analysis tree as **research documentation**
  - concordance view uniquely determined by path from root node
  - bookmarked nodes = basis for interpretation & discussion
- Exact **reproduction** with identical concordance data
  - readers can reproduce published results completely
  - but also explore further concordance views
- **Save / load** analysis tree → continue concordance reading later
- Analysis tree as **template** for concordance organisation
  - “replay” tree on a new concordance (possibly from different corpus)
  - interactive manual selection has to be omitted (→ not meaningful)

# FlexiConc



<https://pypi.org/project/FlexiConc/>

# FlexiConc



<https://pypi.org/project/FlexiConc/>

# References

- Anthony, L. (2022). What can corpus software do? In O’Keeffe, A. and McCarthy, M. J., editors, *The Routledge Handbook of Corpus Linguistics*, chapter 9. Routledge, London, 2nd edition
- Wattenberg, M. and Viégas, F. B. (2008). The word tree, an interactive visual concordance. *IEEE Transactions on Visualization and Computer Graphics*, 14(6):1221–1228.

# Appendix

Corpus

DNOV-CWB

Analysis Tree

Query

"eyes" %c

Partition / Cluster ▼



Make selection ▼

♥ Bookmark

Welcome to

CandyConc

images do not represent actual gameplay

Corpus DNOV-CWB

root node

Analysis Tree

Query result (4031)

Query "eyes" %c

Partition / Cluster ▼



Make selection ▼

Bookmark

1	<a href="#">BH 1</a>	ing on the gunwales of barges and small boats . Fog in the	<a href="#">eyes</a>	and throats of ancient Greenwich pensioners , wheezing by
2	<a href="#">BH 3</a>	m very cheerful , but I can not quite help their coming to my	<a href="#">eyes</a>	. There ! I have wiped them away now and can go on again
3	<a href="#">BH 3</a>	of the coach , brushed one of his large furry cuffs across my	<a href="#">eyes</a>	( but without hurting me ) , and showed me that it was wet .
4	<a href="#">BH 3</a>	e greatest astonishment . But I thought that he had pleasant	<a href="#">eyes</a>	, although he kept on muttering to himself in an angry man
5	<a href="#">BH 3</a>	osegay of geraniums and told me I had been the light of his	<a href="#">eyes</a>	-- indeed the old man said so!-- what a heart I had then ! Ar
6	<a href="#">BH 3</a>	out it than I ought to have been ; and when I had cooled my	<a href="#">eyes</a>	with lavender water , it was time to watch for London . I was
7	<a href="#">BH 3</a>	n a beautiful girl ! With such rich golden hair , such soft blue	<a href="#">eyes</a>	, and such a bright , innocent , trusting face ! " Miss Ada ⌈ ,
8	<a href="#">BH 3</a>	ut it ; and the fire , which had left off roaring , winked its red	<a href="#">eyes</a>	at us -- as Richard said -- like a drowsy old Chancery lion .
9	<a href="#">BH 3</a>	fore it was quite said and whispered . His lordship , with his	<a href="#">eyes</a>	upon his papers , listened , nodded twice or thrice , turned c
10	<a href="#">BH 4</a>	Mr. Kenge , standing with his back to the fire and casting his	<a href="#">eyes</a>	over the dusty hearth - rug as if it were Mrs. Jellyby 's biogr
11	<a href="#">BH 4</a>	inutive , plump woman of from forty to fifty , with handsome	<a href="#">eyes</a>	, though they had a curious habit of seeming to look a long
12	<a href="#">BH 4</a>	thing , " Go along , you naughty Peepy ! " and fixed her fine	<a href="#">eyes</a>	on Africa again . However , as she at once proceeded with
13	<a href="#">BH 4</a>	ing him to me ? " Shaking her golden hair , Ada turned her	<a href="#">eyes</a>	upon me with such laughing wonder that I was full of wond
14	<a href="#">BH 4</a>	died , she remembered how the tears would come into her	<a href="#">eyes</a>	when she spoke of him and of the noble generosity of his c
15	<a href="#">BH 4</a>	was painfully awake and vainly tried to lose myself , with my	<a href="#">eyes</a>	closed , among the scenes of the day . At length , by slow c
16	<a href="#">BH 4</a>	nd day was feebly struggling with the fog when I opened my	<a href="#">eyes</a>	to encounter those of a dirty - faced little spectre fixed upon
17	<a href="#">BH 5</a>	Richard , answering what he saw in Ada 's compassionate	<a href="#">eyes</a>	, took the opportunity of laying some money , softly and unc
18	<a href="#">BH 6</a>	of themselves , would have made a pretty large town in my	<a href="#">eyes</a>	; and at last we got into a real country road again , with win
19	<a href="#">BH 6</a>	ning sudden in his manner and a pleasant expression in his	<a href="#">eyes</a>	images do not represent actual gameplay on
20	<a href="#">BH 6</a>	, glancing at Richard and Ada , who entreated me with their	<a href="#">eyes</a>	to speak] , " that perhaps she was a little unmindful of her h

Corpus DNOV-CWB

Query "eyes" %c

Partition / Cluster ▾

Sort random ✕ ⊕

Make selection ▾

Bookmark

151	<a href="#">MC</a> 39	you my word , as if he had been Mark Tapley . I opened my	<a href="#">eyes</a>	, I can tell you , when he did so ; but I could not fancy I had
152	<a href="#">DS</a> 29	idence of many years is destroyed in an instant , when my	<a href="#">eyes</a>	are opened all at once , and when I find you revealed in yo
153	<a href="#">BH</a> 55	hitened wall , leans her honest forehead upon it , wipes her	<a href="#">eyes</a>	with her serviceable grey cloak , and quite enjoys herself lik
154	<a href="#">DS</a> 50	iness that lies to lightly there ! Ay , look down on the closed	<a href="#">eyes</a>	, Walter , with a proudly tender gaze ; for in all the wide wid
155	<a href="#">OT</a> 17	mpulses of passion or feeling , which , presented before the	<a href="#">eyes</a>	of mere spectators , are at once condemned as outrageous
156	<a href="#">DS</a> 33	g her head after resting it for a moment on both hands , her	<a href="#">eyes</a>	met those of Harriet . In a moment , Harriet was at the door
157	<a href="#">BH</a> 23	aid Mrs. Jellyby , still opening her letters , casting her bright	<a href="#">eyes</a>	smilingly over them , and sorting them as she spoke] , " tha
158	<a href="#">LD</a> 9	ad had no sight for the tears now standing in the colourless	<a href="#">eyes</a>	; though he had had no hearing for the sob that checked the
159	<a href="#">TTC</a> 21	man spoke when they entered the wine - shop , though the	<a href="#">eyes</a>	of every man there were turned upon them . " Good day , g
160	<a href="#">OMF</a> 22	ere , he now directed a scowling look into Fledgeby 's small	<a href="#">eyes</a>	for the effect of the opposite treatment . Satisfied by what h
161	<a href="#">OT</a> 14	s home four times a - year , that it brought the tears into her	<a href="#">eyes</a>	to talk about them . When the old lady had expatiated , a lo
162	<a href="#">HT</a> 13	s Rachael . Seen across the dim candle with his moistened	<a href="#">eyes</a>	, she looked as if she had a glory shining round her head . I
163	<a href="#">OMF</a> 16	Old Betty was proud , and said it with a sparkle in her bright	<a href="#">eyes</a>	. ' Yes , but there are some little comforts that you would n't
164	<a href="#">DS</a> 51	t Mr Pitt , upon the bookcase , represents it . That there are	<a href="#">eyes</a>	in its own map , hanging on the wall . ' An unusually cold sp
165	<a href="#">BH</a> 28	e hand with which she has caught it , and standing with her	<a href="#">eyes</a>	fixed on the fire , puts it about and about between her own
166	<a href="#">PP</a> 54	here was enough of the cannibal in the young gentleman 's	<a href="#">eyes</a>	to render the compliment a double one . ' Dear me , Joseph
167	<a href="#">GE</a> 17	ening that she had curiously thoughtful and attentive eyes ;	<a href="#">eyes</a>	that were very pretty and very good . It came of my lifting up
168	<a href="#">LD</a> 5	d to you to suspect-- ' At the word Suspect , she turned her	<a href="#">eyes</a>	momentarily upon her son , with a dark frown . She then su
169	<a href="#">DC</a> 16	ting themselves - that they seemed to twinkle instead of his	<a href="#">eyes</a>	quite
170	<a href="#">DS</a> 10	d a most excellent man , Sir [, ' pursued Walter , raising his	<a href="#">eyes</a>	with a look of entreaty in the Captain 's behalf] , ' was so gc

root node

Analysis Tree

Query result (4031)

arrangement node

• sort: random

images do not represent actual gameplay

Corpus DNOV-CWB

Query "eyes" %c

Partition / Cluster ▼

Sort random ⊗ ⊕

Make selection ▼

Bookmark

1	<a href="#">LD</a> 16	stopping for a moment with a good - humoured laugh in his	<a href="#">eyes</a>	, and laying his closed right hand , with its peculiar suppleness
2	<a href="#">BR</a> 37	, I have slept so soundly [ , ' said Lord George , rubbing his	<a href="#">eyes</a>	and looking round the room ] , ' that I do n't remember quite
3	<a href="#">DS</a> 47	when you give Mrs Dombey to understand [ ' --the light in his	<a href="#">eyes</a>	fell upon her as he separated his words each from each , w
4	<a href="#">DS</a> 61	sh sorry [ , ' said Cousin Feenix , lifting his wristbands to his	<a href="#">eyes</a>	in the simplest manner possible , and without the least conc
5	<a href="#">OT</a> 37	ppose , a married man [ , ' replied Mr. Bumble , shading his	<a href="#">eyes</a>	with his hand , and surveying the stranger , from head to fo
6	<a href="#">NN</a> 22	e place . ' ' Well , when I was there [ , ' resumed Smike ; his	<a href="#">eyes</a>	sparkling at the prospect of displaying his abilities ] ; ' I coul
7	<a href="#">DS</a> 40	sh a nature now, '--he [ fancied he saw tears glistening in her	<a href="#">eyes</a>	, and he thought , complacently , that he had forced them fr
8	<a href="#">BH</a> 4	Mr. Kenge , standing with his back to the fire and casting his	<a href="#">eyes</a>	over the dusty hearth - rug as if it were Mrs. Jellyby 's biogr
9	<a href="#">DS</a> 17	oked pleasant . ' You see [ , ' began the Captain , rolling his	<a href="#">eyes</a>	slowly round the little room , and taking in as much of it as f
10	<a href="#">OMF</a> 3	Eugene , leaning back , folding his arms , smoking with his	<a href="#">eyes</a>	shut , and speaking slightly through his nose ] , ' of Energy .
11	<a href="#">DC</a> 39	I do n't think , Trotwood [ , ' returned Agnes , raising her soft	<a href="#">eyes</a>	to mine ] , ' I would consider that . Perhaps it would be bette
12	<a href="#">BH</a> 9	ray and regarding me , as I again strangely felt , though my	<a href="#">eyes</a>	were not directed to him , with his late intent look ] , " I am a
13	<a href="#">BH</a> 23	aid Mrs. Jellyby , still opening her letters , casting her bright	<a href="#">eyes</a>	smilingly over them , and sorting them as she spoke ] , " tha
14	<a href="#">DS</a> 10	d a most excellent man , Sir [ , ' pursued Walter , raising his	<a href="#">eyes</a>	with a look of entreaty in the Captain 's behalf ] , ' was so gc
15	<a href="#">DS</a> 20	r . Notwithstanding which , Ma'am [ , ' he added , raising his	<a href="#">eyes</a>	from his plate , and casting them across Princess 's Place ,
16	<a href="#">BH</a> 26	wo n't sit down like a Christian [ , " says Mr. George with his	<a href="#">eyes</a>	musingly fixed on Judy ] , " I ca n't comprehend . " " She ke
17	<a href="#">OMF</a> 38	ollecting [ , ' said Mrs Boffin , with her work abandoned , her	<a href="#">eyes</a>	upon the fire , and her chin upon her hand ] , ' do you recoll
18	<a href="#">DS</a> 22	onder [ , ' said Biler , blubbering outright , and smearing his	<a href="#">eyes</a>	with his coat - cuff ] , ' that I have n't been and drowned my
19	<a href="#">OMF</a> 25	into tears . ' I think , R.W. [ , ' cried Mrs Wilfer , lifting up her	<a href="#">eyes</a>	it wo
20	<a href="#">DS</a> 46	uttered the old woman , watching her daughter with her red	<a href="#">eyes</a>	; ' so easy and so trim a - horseback , while we are in the m

root node

Analysis Tree

Query result (4031)

arrangement node

▶ sort: random

• select: within suspension (276)

subset node

images do not represent actual gameplay

Corpus DNOV-CWB

Query "eyes" %c

Partition / Cluster ▼

Sort by right context ✕ ⊕

Make selection ▼

Bookmark

101	<a href="#">LD</a> 14	le Dorrit began , sitting before the pale fire , and raising her	<a href="#">eyes</a>	again to the face which in its harmonious look of interest , e
102	<a href="#">NN</a> 31	. ' Oh [ ! ' said Newman , throwing some intelligence into his	<a href="#">eyes</a>	all at once , and dropping them on his master ] , ' I thought
103	<a href="#">BH</a> 47	orge [ , " says Allan , following the direction of the trooper ' s	<a href="#">eyes</a>	along the entry ] , " have not been much acquainted , as yo
104	<a href="#">OMF</a> 25	into tears . ' I think , R.W. [ , ' cried Mrs Wilfer , lifting up her	<a href="#">eyes</a>	and apostrophising the air ] , ' that if you were present , it w
105	<a href="#">TTC</a> 44	gement that may be [ , " said Miss Pross , striving to dry her	<a href="#">eyes</a>	and compose herself ] , " I have no doubt it is best that Mrs.
106	<a href="#">GE</a> 39	ng , Pip [ , " said he , after again drawing his sleeve over his	<a href="#">eyes</a>	and forehead , as the click came in his throat which I well r
107	<a href="#">BH</a> 14	, my dear . I suppose [ , " said Mr. Turveydrop , shutting his	<a href="#">eyes</a>	and lifting up his shoulders with modest consciousness ] , "
108	<a href="#">HT</a> 23	Yonder , among the trees [ , ' he added , having lifted up his	<a href="#">eyes</a>	and looked about ; for he had watched her closely until nov
109	<a href="#">BR</a> 37	, I have slept so soundly [ , ' said Lord George , rubbing his	<a href="#">eyes</a>	and looking round the room ] , ' that I do n't remember quite
110	<a href="#">OCS</a> 6	the first is dead , sweet Nell [ , ' said Quilp , wrinkling up his	<a href="#">eyes</a>	and luring her towards him with his bent forefinger ] , ' to be
111	<a href="#">OMF</a> 61	ching her cheek , with a grave smile , as she cast down her	<a href="#">eyes</a>	and pouted again ] ; ' look at me . I want to speak to you . ' "
112	<a href="#">MC</a> 9	dergone in consequence [ , ' cried Mrs Todgers , raising her	<a href="#">eyes</a>	and shaking her head ] , ' no one would believe ! ' ' Just like
113	<a href="#">BH</a> 15	go out ? " " As often as I can [ , " said Charley , opening her	<a href="#">eyes</a>	and smiling ] , " because of earning sixpences and shillings
114	<a href="#">LD</a> 70	e best , my own [ , ' she answered , laughing with glistening	<a href="#">eyes</a>	and standing on tiptoe to kiss him ] , ' if you will only humou
115	<a href="#">DS</a> 31	e stooping of his neck , which the revelations making by his	<a href="#">eyes</a>	and teeth proclaim to be a lie ] , ' I am proud to see that my
116	<a href="#">MC</a> 50	e time now drawing on [ , ' said the old man , hurriedly -- his	<a href="#">eyes</a>	and whole face brightening as he spoke--'will] make amenc
117	<a href="#">DS</a> 20	ng his head at the unconscious Miss Tox , while his starting	<a href="#">eyes</a>	appeared to make a leap towards her ] , ' you might do that
118	<a href="#">BH</a> 58	st I could do . " " You find me [ , " says Sir Leicester , whose	<a href="#">eyes</a>	are much attracted towards him ] , " far from well , George F
119	<a href="#">BH</a> 41	he returns without looking up from the ground on which her	<a href="#">eyes</a>	
120	<a href="#">LD</a> 48	sence of mind . ' Pray [ , ' asked Lord Decimus , casting his	<a href="#">eyes</a>	

root node

Analysis Tree

Query result (4031)

arrangement node

▶ sort: random

▶ select: within suspension (276)

• sort: right context

subset node

images do not represent actual gameplay

Corpus DNOV-CWB

Query "eyes" %c

Partition / Cluster ▼

Sort by left context ✕ ⊕

Make selection ▼

Bookmark

root node

Analysis Tree

Query result (4031)

arrangement node

▶ sort: random

▶ select: within suspension (276)

• sort: right context

• sort: left context

subset node

siblings

101	<a href="#">OMF</a> 59	es n't know anything about it [, ' with a sob , and wiping her <b>eyes</b>	, ' why , it wo n't matter to him . I see the service in the Pray
102	<a href="#">DC</a> 60	' of doing good ; and if I could spare my brother [, ' with her <b>eyes</b>	upon me] , ' perhaps the time could not . ' ' What I am , you
103	<a href="#">DS</a> 27	looking round . ' Shall I tell you [, ' she continued , with her <b>eyes</b>	fixed on her mother] , ' who already knows us thoroughly , a
104	<a href="#">OMF</a> 58	a wink . ' I must own [, ' returned the dressmaker , with her <b>eyes</b>	upon her work] , ' that we are not good friends at present . '
105	<a href="#">DC</a> 45	' said Mrs. Markleham , mechanically following her with her <b>eyes</b>	, ' to find a man at Doctor Strong 's time of life , with the stre
106	<a href="#">DS</a> 52	lth [, ' said the Grinder , glancing at Alice , who sat with her <b>eyes</b>	fixed , as it seemed to him , on the wall behind him , but in
107	<a href="#">OMF</a> 15	at then ? ' ' Why then [, ' said Mrs Boffin , speaking with her <b>eyes</b>	closed , and her left hand thoughtfully touching her brow] ,
108	<a href="#">LD</a> 14	g at him in a suppliant way , and gradually withdrawing her <b>eyes</b>	as he looked at her] , ' whether you would advise me what
109	<a href="#">DS</a> 23	brig as a lad is capable on . Wal'r [, ' said the Captain , his <b>eyes</b>	glistening with the praise of his young friend , and his hook
110	<a href="#">PP</a> 23	great advantage of this , Mr. Weller [, ' continued Job , his <b>eyes</b>	filling with tears as he spoke] , ' will be , that I shall be able
111	<a href="#">PP</a> 27	ose . ' Certainly , Sam , certainly [, ' said Mr. Pickwick , his <b>eyes</b>	glistening with delight at this manifestation of filial feeling or
112	<a href="#">MC</a> 50	time now drawing on [, ' said the old man , hurriedly -- his <b>eyes</b>	and whole face brightening as he spoke--'will] make amenc
113	<a href="#">MC</a> 19	limitation , there is positively NO limitation [' --opening his <b>eyes</b>	wide , and standing on tiptoe--'in] point of expense ! I have
114	<a href="#">NN</a> 22	e place . ' ' Well , when I was there [, ' resumed Smike ; his <b>eyes</b>	sparkling at the prospect of displaying his abilities] ; ' I coul
115	<a href="#">OCS</a> 3	said the dwarf , who with his hand stretched out above his <b>eyes</b>	had been surveying the young man attentively] , ' that shou
116	<a href="#">OMF</a> 42	l the Reverend Frank Milvey , brushing his hand across his <b>eyes</b>	, ' when it has that homely figure on it . Richer , I think , tha
117	<a href="#">BR</a> 76	ith , stopping in a narrow count to pass his hand across his <b>eyes</b>	, ' I could better afford to lose than Barnaby . We have alwa
118	<a href="#">BR</a> 36	he secretary , drawing his sleeve in a hasty way across his <b>eyes</b>	; ' and why should I regret your having heard them ? ' ' Gas
119	<a href="#">NN</a> 52	ink and cough very much , for he was no smoker ): and his <b>eyes</b>	
120	<a href="#">OMF</a> 39	roody silence , with his hands clasped behind him , and his <b>eyes</b>	

images do not represent actual gameplay

Corpus DNOV-CWB

Query "eyes" %c

Partition / Cluster partition by POS tag of token L1

Sort by left context

Make selection

Bookmark

No.	Query result	No. of occurrences	Percent
1	<a href="#">PRP\$</a>	211	76.45%
2	<a href="#">JJ</a>	37	13.41%
3	<a href="#">VBG</a>	9	3.26%
4	<a href="#">NN</a>	5	1.81%
5	<a href="#">DT</a>	4	1.45%
6	<a href="#">WP\$</a>	3	1.09%
7	<a href="#">IN</a>	2	0.72%
8	<a href="#">POS</a>	2	0.72%
9	<a href="#">VBN</a>	2	0.72%
10	<a href="#">CC</a>	1	0.36%

root node

Analysis Tree

Query result (4031) arrangement node

▸ sort: random

▸ select: within suspension (276)

- sort: right context
- sort: left context
- partition: by POS tag @ L1, sort: left context

subset node

siblings

Corpus DNOV-CWB

Query "eyes" %c

Partition / Cluster ▼

Sort by left context ✕ ⊕

Make selection ▼

Bookmark

1	<a href="#">OMF</a> 38	ollecting [, ' said Mrs Boffin , with her work abandoned , her	<a href="#">eyes</a>	upon the fire , and her chin upon her hand] , ' do you recoll
2	<a href="#">BH</a> 49	red thousand thanks , old fellow [, " says Mrs. Bagnet , her	<a href="#">eyes</a>	sparkling with pleasure and her hand stretched out to him]
3	<a href="#">BH</a> 22	brought into my head , master [, " returns the woman , her	<a href="#">eyes</a>	filling with tears] , " when I look down at the child lying so .
4	<a href="#">OT</a> 24	' she cried , jumping fiercely up : her face flushed , and her	<a href="#">eyes</a>	starting from her head--'I] robbed her , so I did ! She was n'
5	<a href="#">OMF</a> 42	netimes I have fancied , sir [, ' said Bella , turning away her	<a href="#">eyes]</a>	, ' that your great regard for Mrs Boffin is a very powerful m
6	<a href="#">DS</a> 18	l , if ever there was one [, ' said Mrs Chick , drying both her	<a href="#">eyes</a>	at once with great care on opposite corners of Miss Tox 's h
7	<a href="#">OT</a> 7	deed . ' Ah [!' said Mr. Bumble , when the lady brought her	<a href="#">eyes</a>	down to earth again] ; ' the only thing that can be done now
8	<a href="#">LD</a> 2	' ' Not [, ' said Pet , apologetically and embarrassed by her	<a href="#">eyes]</a>	, ' not , of course , that we are any company to you , or that
9	<a href="#">BH</a> 8	ng that her spectacles were made the less engaging by her	<a href="#">eyes</a>	being what Ada called] " choking eyes ⌈ , " meaning very pr
10	<a href="#">BH</a> 23	Miss Summerson [, " said Mrs. Jellyby , sweetly casting her	<a href="#">eyes</a>	for a moment on me and considering where to put the partic
11	<a href="#">PP</a> 22	tared wildly at her . ' Wretch [, ' said the lady , covering her	<a href="#">eyes</a>	with her hands] , ' what do you want here ? ' ' Nothing , ma'
12	<a href="#">HT</a> 9	not yours . ' ' Dear Miss Louisa [, ' said Sissy , covering her	<a href="#">eyes</a>	, and sobbing yet] ; ' I came home from the school that afte
13	<a href="#">OMF</a> 61	ching her cheek , with a grave smile , as she cast down her	<a href="#">eyes</a>	and pouted again] ; ' look at me . I want to speak to you . ' '
14	<a href="#">LD</a> 55	eneral . ' ' Mr Dorrit [, ' said Mrs General , casting down her	<a href="#">eyes</a>	as she rose with a bend] , ' must ever claim my homage an
15	<a href="#">DS</a> 58	. ' I need not remind you [, ' said Harriet , casting down her	<a href="#">eyes</a>	upon her black dress] , ' through what means our circumsta
16	<a href="#">OMF</a> 25	ith stately resignation as she shook her head and dried her	<a href="#">eyes]</a>	; ' we have at present no stipendiary girl to do so . We have
17	<a href="#">ED</a> 13	ue . ' If we knew yesterday [, ' said Rosa , as she dried her	<a href="#">eyes]</a>	, ' and we did know yesterday , and on many , many yester
18	<a href="#">DS</a> 2	always be a balm and comfort to me [, ' here she dried her	<a href="#">eyes]</a>	; ' it becomes necessary to provide a Nurse . ' ' Oh ! Ah ! ' s
19	<a href="#">TTC</a> 44	gement that may be [, " said Miss Pross , striving to dry her	<a href="#">eyes</a>	images do not represent actual gameplay Mrs.
20	<a href="#">DC</a> 51	a gleam of light upon me , Trot [, ' said my aunt , drying her	<a href="#">eyes]</a>	, ' when I formed the resolution of being godmother to your

root node

Analysis Tree

Query result (4031)

arrangement node

▶ sort: random

▶ select: within suspension (276)

- sort: right context
- sort: left context

subset node

- partition: by POS tag @ L1, sort: left context

▶ select: set [PRP\$] (211)

subset

siblings

Corpus DNOV-CWB

Query "eyes" %c

Partition / Cluster ▼

Sort by L1 ⊗ ⊕

Make selection ▼

Bookmark

1	<a href="#">OMF</a> 38	ollecting [, ' said Mrs Boffin , with her work abandoned , her	<a href="#">eyes</a>	upon the fire , and her chin upon her hand] , ' do you recoll
2	<a href="#">BH</a> 49	red thousand thanks , old fellow [, " says Mrs. Bagnet , her	<a href="#">eyes</a>	sparkling with pleasure and her hand stretched out to him]
3	<a href="#">BH</a> 22	brought into my head , master [, " returns the woman , her	<a href="#">eyes</a>	filling with tears] , " when I look down at the child lying so .
4	<a href="#">OT</a> 24	' she cried , jumping fiercely up : her face flushed , and her	<a href="#">eyes</a>	starting from her head--'I] robbed her , so I did ! She was n'
5	<a href="#">OMF</a> 42	netimes I have fancied , sir [, ' said Bella , turning away her	<a href="#">eyes]</a>	, ' that your great regard for Mrs Boffin is a very powerful m
6	<a href="#">DS</a> 18	l , if ever there was one [, ' said Mrs Chick , drying both her	<a href="#">eyes</a>	at once with great care on opposite corners of Miss Tox 's h
7	<a href="#">OT</a> 7	deed . ' Ah [!' said Mr. Bumble , when the lady brought her	<a href="#">eyes</a>	down to earth again] ; ' the only thing that can be done now
8	<a href="#">LD</a> 2	' ' Not [, ' said Pet , apologetically and embarrassed by her	<a href="#">eyes]</a>	, ' not , of course , that we are any company to you , or that
9	<a href="#">BH</a> 8	ng that her spectacles were made the less engaging by her	<a href="#">eyes</a>	being what Ada called] " choking eyes ρ , " meaning very pr
10	<a href="#">BH</a> 23	Miss Summerson [, " said Mrs. Jellyby , sweetly casting her	<a href="#">eyes</a>	for a moment on me and considering where to put the parti
11	<a href="#">PP</a> 22	tared wildly at her . ' Wretch [, ' said the lady , covering her	<a href="#">eyes</a>	with her hands] , ' what do you want here ? ' ' Nothing , ma'
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13	<a href="#">OMF</a> 61	ching her cheek , with a grave smile , as she cast down her	<a href="#">eyes</a>	and pouted again] ; ' look at me . I want to speak to you . ' '
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15	<a href="#">DS</a> 58	. ' I need not remind you [, ' said Harriet , casting down her	<a href="#">eyes</a>	upon her black dress] , ' through what means our circumsta
16	<a href="#">OMF</a> 25	ith stately resignation as she shook her head and dried her	<a href="#">eyes]</a>	; ' we have at present no stipendiary girl to do so . We have
17	<a href="#">ED</a> 13	ue . ' If we knew yesterday [, ' said Rosa , as she dried her	<a href="#">eyes]</a>	, ' and we did know yesterday , and on many , many yester
18	<a href="#">DS</a> 2	always be a balm and comfort to me [, ' here she dried her	<a href="#">eyes]</a>	; ' it becomes necessary to provide a Nurse . ' ' Oh ! Ah ! ' s
19	<a href="#">TTC</a> 44	gement that may be [, " said Miss Pross , striving to dry her	<a href="#">eyes</a>	images do not represent actual gameplay Mrs.
20	<a href="#">DC</a> 51	a gleam of light upon me , Trot [, ' said my aunt , drying her	<a href="#">eyes]</a>	, ' when I formed the resolution of being godmother to your

root node

Analysis Tree

Query result (4031)

arrangement node

▶ sort: random

▶ select: within suspension (276)

siblings

• sort: right context

• sort: left context

• partition: by POS tag @ L1, sort: left context

subset node

▶ select: set [PRP\$] (211)

• sort: by L1

subset

Corpus DNOV-CWB

Query "eyes" %c

Partition / Cluster ▼

Sort by L1 ✕ Sort by right context ✕ ⊕

Make selection ▼

Bookmark

1	<a href="#">BH</a> 30	ith us . " Well , my dear Esther [ , " she returned , drying her	<a href="#">eyes</a> ]	, " I must do the best I can and trust to my dear Prince neve
2	<a href="#">HT</a> 4	circus [ , ' muttered Louisa , haughtily , without lifting up her	<a href="#">eyes</a> ]	, ' and father caught us . ' ' And , Mrs. Gradgrind [ , ' said he
3	<a href="#">ED</a> 13	rue . ' If we knew yesterday [ , ' said Rosa , as she dried her	<a href="#">eyes</a> ]	, ' and we did know yesterday , and on many , many yester
4	<a href="#">NN</a> 49	gives me great pain [ , ' continued Mrs Nickleby , drying her	<a href="#">eyes</a> ]	, ' great pain ; but do n't hurt a hair of his head , I beg . On r
5	<a href="#">DS</a> 3	my Mama [ , ' returned the child , with tears springing to her	<a href="#">eyes</a> ]	, ' in any frock . ' ' But people put on black , to remember pe
6	<a href="#">NN</a> 34	culty . And even this [ , ' said Madame Mantalini , wiping her	<a href="#">eyes</a> ]	, ' is not the worst . He took some papers of value out of my
7	<a href="#">NN</a> 37	her . I think I see him now [ ! ' said Mrs Nickleby , wiping her	<a href="#">eyes</a> ]	, ' looking at me while I was talking to him about his affairs ,
8	<a href="#">LD</a> 2	' ' Not [ , ' said Pet , apologetically and embarrassed by her	<a href="#">eyes</a> ]	, ' not , of course , that we are any company to you , or that
9	<a href="#">HT</a> 32	: this . ' " Deed , I am loath [ , ' returned Rachael , drying her	<a href="#">eyes</a> ]	, ' that any here should see me like this ; but I wo n't be see
10	<a href="#">LD</a> 41	ha -- on this or any other occasion [ , ' Mrs General shut her	<a href="#">eyes</a> ]	, ' that I -- ha hum -- am not pleased with you . You make M
11	<a href="#">BR</a> 51	ately , Varden [ , ' said his wife , with her handkerchief to her	<a href="#">eyes</a> ]	, ' that in case any more disturbances should happen -- whi
12	<a href="#">OMF</a> 28	n vain to sustain it ; for the look dropped as it lighted on her	<a href="#">eyes</a> ]	, ' that it might be so superfluous as to be almost impertiner
13	<a href="#">OMF</a> 42	netimes I have fancied , sir [ , ' said Bella , turning away her	<a href="#">eyes</a> ]	, ' that your great regard for Mrs Boffin is a very powerful m
14	<a href="#">DC</a> 48	gently trying to remove the handkerchief she pressed to her	<a href="#">eyes</a> ]	, ' this is not only very ridiculous of you , but very wrong . In
15	<a href="#">DC</a> 45	' said Mrs. Markleham , mechanically following her with her	<a href="#">eyes</a> ]	, ' to find a man at Doctor Strong 's time of life , with the stre
16	<a href="#">MC</a> 40	d kindly . ' Which shows [ , ' said Mrs Gamp , casting up her	<a href="#">eyes</a> ]	, ' what a little way you 've travelled into this wale of life , my
17	<a href="#">OCS</a> 41	d . ' Oh Kit [ ! ' said his mother , with her handkerchief to her	<a href="#">eyes</a> ]	, ' what have you done ! I never can go there again -- never
18	<a href="#">LD</a> 14	th all the earnestness of her soul looking steadily out of her	<a href="#">eyes</a> ]	, ' what I am going to ask you not to do ? ' ' I think I can .
19	<a href="#">DC</a> 51	a gleam of light upon me , Trot [ , ' said my aunt , drying her	<a href="#">eyes</a> ]	our
20	<a href="#">OMF</a> 59	es n't know anything about it [ , ' with a sob , and wiping her	<a href="#">eyes</a> ]	, ' why , it wo n't matter to him . I see the service in the Pray

root node

Analysis Tree

Query result (4031) arrangement node

- ▶ sort: random
- ▶ select: within suspension (276)
  - sort: right context
  - sort: left context
  - partition: by POS tag @ L1, sort: left context
    - ▶ select: set [PRP\$] (211)
      - sort: by L1
      - sort: by L1, sort: right context

subset node

subset

siblings

images do not represent actual gameplay

Corpus DNOV-CWB

Query "eyes" %c

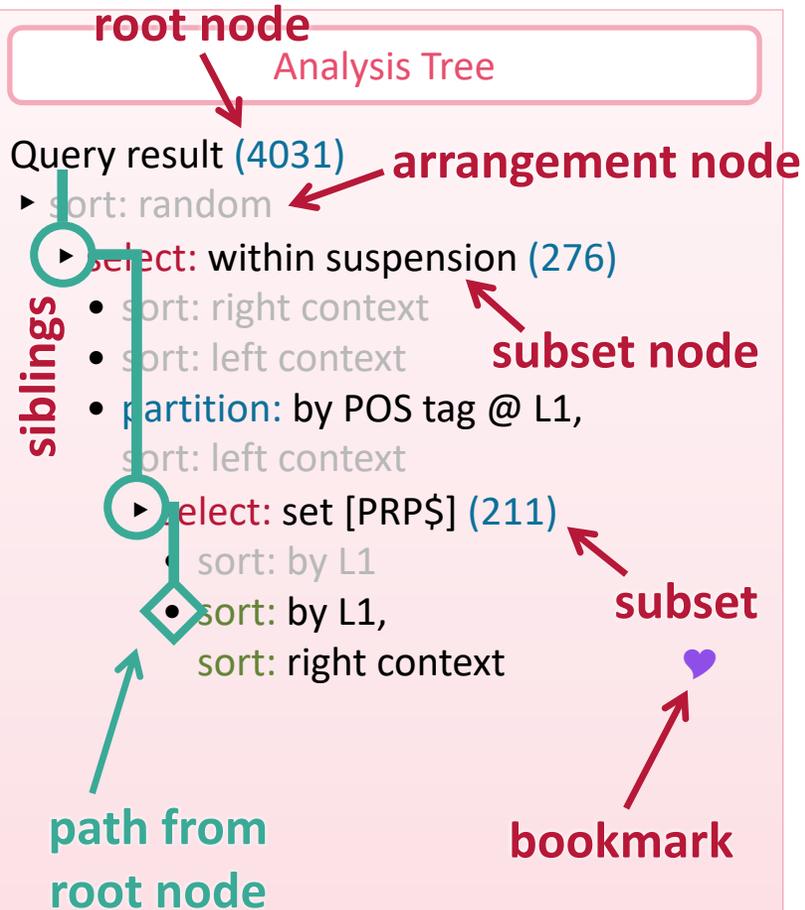
Partition / Cluster ▾

Sort by L1 ✕ Sort by right context ✕ ⊕

Make selection ▾

Bookmark

1	<a href="#">BH</a> 30	ith us . " Well , my dear Esther [ , " she returned , drying her	<a href="#">eyes</a> ]	, " I must do the best I can and trust to my dear Prince neve
2	<a href="#">HT</a> 4	circus [ , ' muttered Louisa , haughtily , without lifting up her	<a href="#">eyes</a> ]	, ' and father caught us . ' ' And , Mrs. Gradgrind [ , ' said he
3	<a href="#">ED</a> 13	rue . ' If we knew yesterday [ , ' said Rosa , as she dried her	<a href="#">eyes</a> ]	, ' and we did know yesterday , and on many , many yester
4	<a href="#">NN</a> 49	gives me great pain [ , ' continued Mrs Nickleby , drying her	<a href="#">eyes</a> ]	, ' great pain ; but do n't hurt a hair of his head , I beg . On r
5	<a href="#">DS</a> 3	my Mama [ , ' returned the child , with tears springing to her	<a href="#">eyes</a> ]	, ' in any frock . ' ' But people put on black , to remember pe
6	<a href="#">NN</a> 34	culty . And even this [ , ' said Madame Mantalini , wiping her	<a href="#">eyes</a> ]	, ' is not the worst . He took some papers of value out of my
7	<a href="#">NN</a> 37	her . I think I see him now [ ! ' said Mrs Nickleby , wiping her	<a href="#">eyes</a> ]	, ' looking at me while I was talking to him about his affairs ,
8	<a href="#">LD</a> 2	' ' Not [ , ' said Pet , apologetically and embarrassed by her	<a href="#">eyes</a> ]	, ' not , of course , that we are any company to you , or that
9	<a href="#">HT</a> 32	this . ' " Deed , I am loath [ , ' returned Rachael , drying her	<a href="#">eyes</a> ]	, ' that any here should see me like this ; but I wo n't be see
10	<a href="#">LD</a> 41	ha -- on this or any other occasion [ , ' Mrs General shut her	<a href="#">eyes</a> ]	, ' that I -- ha hum -- am not pleased with you . You make M
11	<a href="#">BR</a> 51	ately , Varden [ , ' said his wife , with her handkerchief to her	<a href="#">eyes</a> ]	, ' that in case any more disturbances should happen -- whi
12	<a href="#">OMF</a> 28	n vain to sustain it ; for the look dropped as it lighted on her	<a href="#">eyes</a> ]	, ' that it might be so superfluous as to be almost impertiner
13	<a href="#">OMF</a> 42	netimes I have fancied , sir [ , ' said Bella , turning away her	<a href="#">eyes</a> ]	, ' that your great regard for Mrs Boffin is a very powerful m
14	<a href="#">DC</a> 48	gently trying to remove the handkerchief she pressed to her	<a href="#">eyes</a> ]	, ' this is not only very ridiculous of you , but very wrong . In
15	<a href="#">DC</a> 45	' said Mrs. Markleham , mechanically following her with her	<a href="#">eyes</a> ]	, ' to find a man at Doctor Strong 's time of life , with the stre
16	<a href="#">MC</a> 40	d kindly . ' Which shows [ , ' said Mrs Gamp , casting up her	<a href="#">eyes</a> ]	, ' what a little way you 've travelled into this wale of life , my
17	<a href="#">OCS</a> 41	d . ' Oh Kit [ ! ' said his mother , with her handkerchief to her	<a href="#">eyes</a> ]	, ' what have you done ! I never can go there again -- never
18	<a href="#">LD</a> 14	th all the earnestness of her soul looking steadily out of her	<a href="#">eyes</a> ]	, ' what I am going to ask you not to do ? ' ' I think I can .
19	<a href="#">DC</a> 51	a gleam of light upon me , Trot [ , ' said my aunt , drying her	<a href="#">eyes</a> ]	
20	<a href="#">OMF</a> 59	es n't know anything about it [ , ' with a sob , and wiping her	<a href="#">eyes</a> ]	



images do not represent actual gameplay

Corpus DNOV-CWB

Query "eyes" %c

Partition / Cluster ▾

Sort by L1 ✕ Sort by right context ✕ ⊕

Make selection ▾

Bookmark

1	<a href="#">BH</a> 30	ith us . " Well , my dear Esther [ , " she returned , drying her <a href="#">eyes</a> ] , " I must do the best I can and trust to my dear Prince neve
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15	<a href="#">DC</a> 45	' said Mrs. Markleham , mechanically following her with her <a href="#">eyes</a> ] , ' to find a man at Doctor Strong 's time of life , with the stre
16	<a href="#">MC</a> 40	d kindly . ' Which shows [ , ' said Mrs Gamp , casting up her <a href="#">eyes</a> ] , ' what a little way you 've travelled into this wale of life , my
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root node

Analysis Tree

Query result (4031)

arrangement node

▶ sort: random

▶ select: within suspension (276)

• sort: right context

• sort: left context

• partition: by POS tag @ L1,

sort: left context

▶ select: set [PRP\$] (211)

sort: by L1

• sort: by L1,

sort: right context

subset node

subset

bookmark

siblings

path from root node

images do not represent actual gameplay