

Building Text Analysis Tools in the Humanities and Social Sciences

Aditi Muralidharan,
PhD Candidate
Computer Science Division, UC Berkeley

@silverasm, aditi@cs.berkeley.edu

with my advisor,
Marti A. Hearst, School of Information

Overview

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- Why the humanities and social sciences?

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- Designing a tool: WordSeer

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 - V1 -- The North American Slave Narratives

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 - Design implications from a model-based description
- Final design

The Challenge

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- Text is hard to navigate

Characterizing and interpreting society and culture.

Themes, people, events, characters, and the language use
around them

Goal:

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Support a “real” humanities or social science analysis

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(Using computational linguistics and information visualization
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Approach:

Goal:

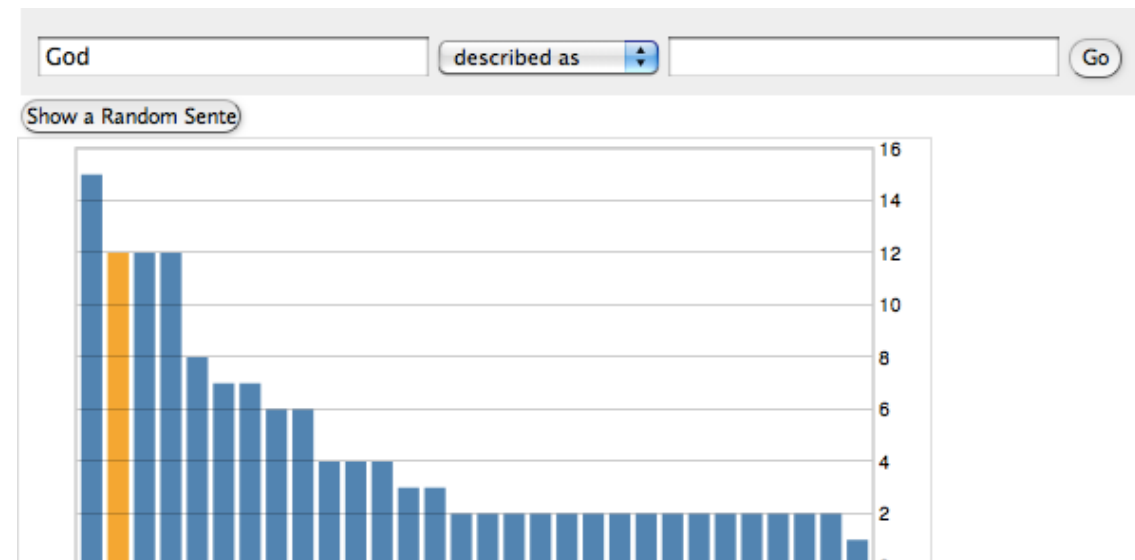
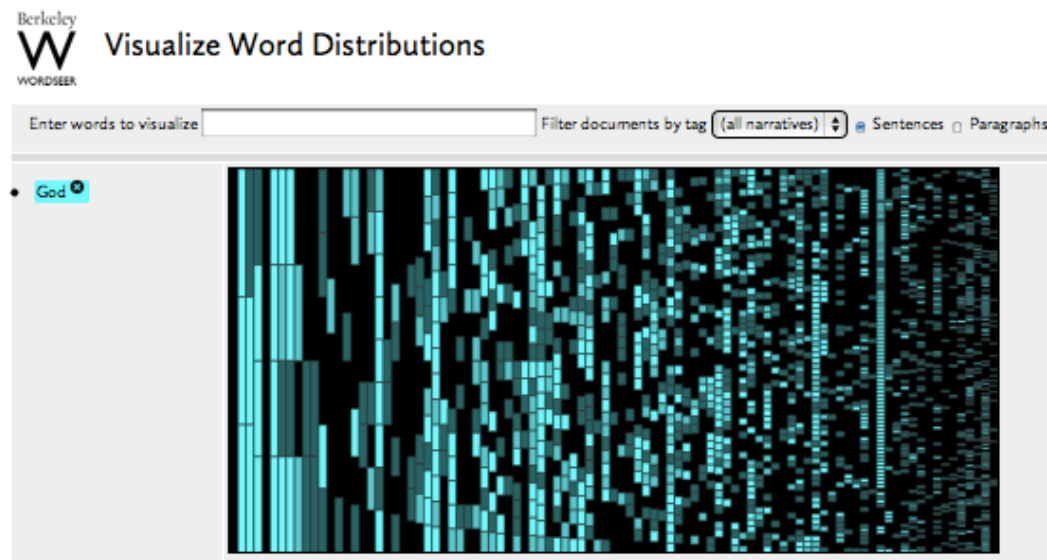
Support a “real” humanities or social science analysis

(Using computational linguistics and information visualization
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Approach:

Start with case studies and iterate

WordSeer (version 1)



The North American Pre-civil-war Slave Narratives

The North American Slave Narratives

The North American Slave Narratives

- Stories of the lives of former slaves

The North American Slave Narratives

- Stories of the lives of former slaves
- Published by white abolitionist sponsors

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Do the north american slave narratives
all conform to the same stereotypes?

A “Master Plan” for the slave narratives

“... conventions so early and firmly established that one can imagine a sort of master outline drawn from the great narratives and guiding the lesser ones”

-- Olney, J. “I was born: Slave Narratives and their Status as Autobiography”, Callaloo, 1984

1. a first sentence beginning, "I was born . . . ," then specifying a place but not a date of birth;
2. a sketchy account of parentage, often involving a white father;
3. description of a cruel master, mistress, or overseer, details of first observed whipping and numerous subsequent whippings, with women very frequently the victims;
4. an account of one extraordinarily strong, hardworking slave—often "pure African"—who, because there is no reason for it, refuses to be whipped;
5. record of the barriers raised against slave literacy and the overwhelming difficulties encountered in learning to read and write;
6. description of a "Christian" slaveholder (often of one such dying in terror) and the accompanying claim that "Christian" slaveholders are invariably worse than those professing no religion;
7. description of the amounts and kinds of food and clothing given to slaves, the work required of them, the pattern of a day, a week, a year;

Our approach

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- Phase 1: Support searching for instances of conventions

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- Phase 1: Support searching for instances of conventions
- Phase 2: Support visualizing their occurrence in the collection

Searching for stereotypes

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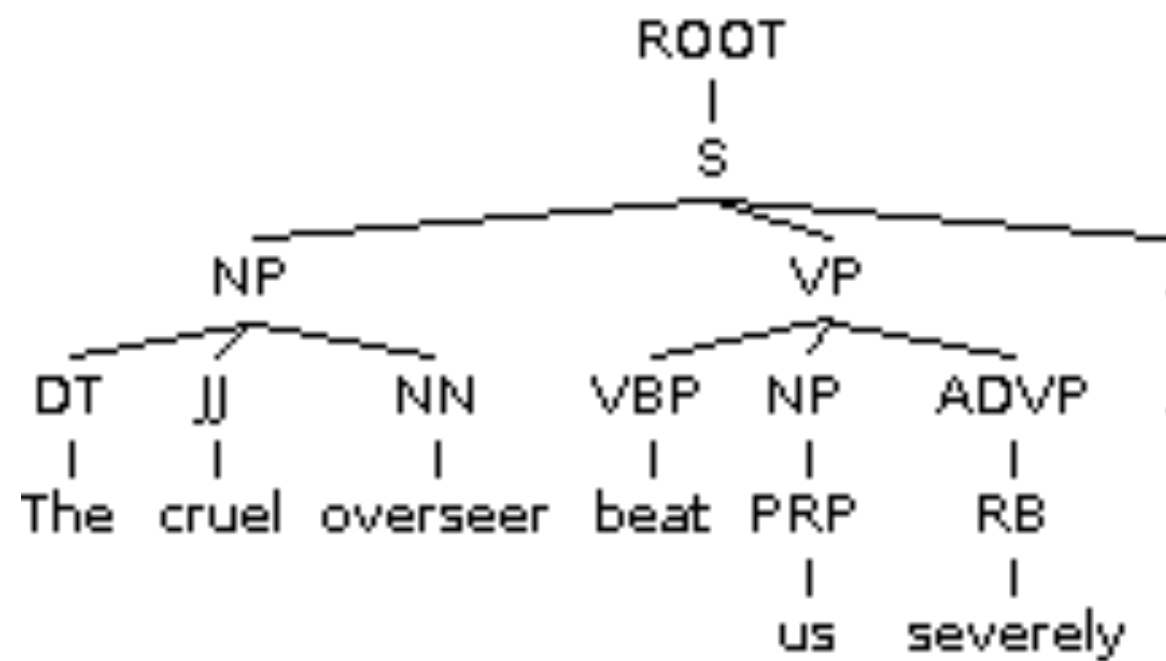
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 - ____? ____ ***described as*** cruel

Natural language processing

The cruel overseer beat us severely.

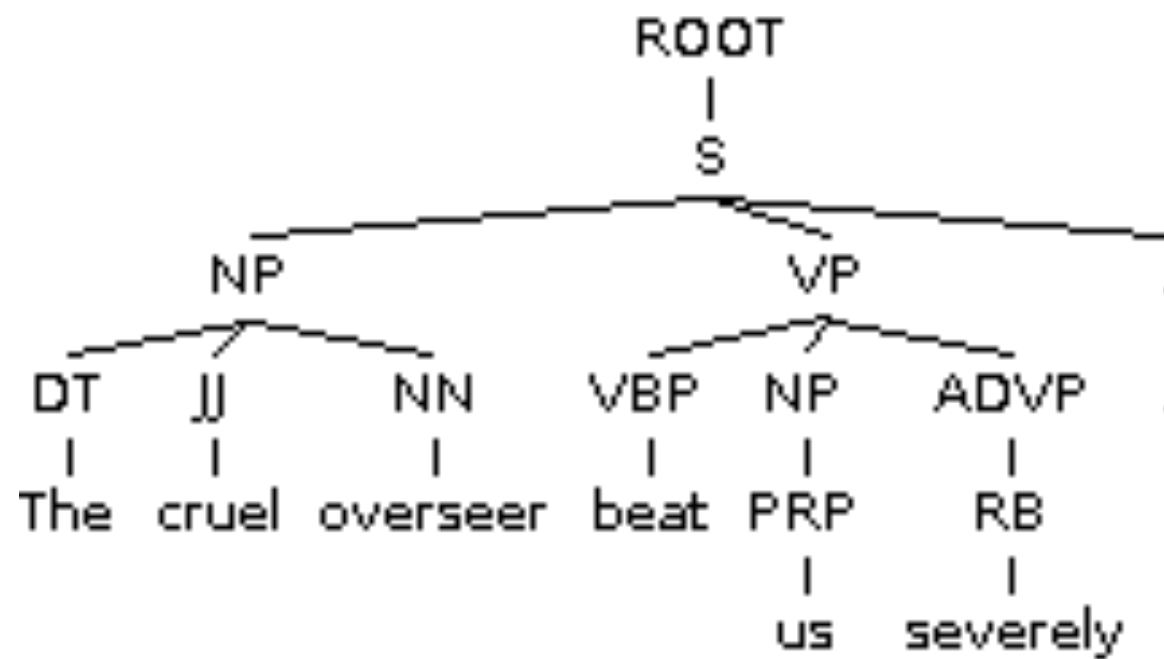
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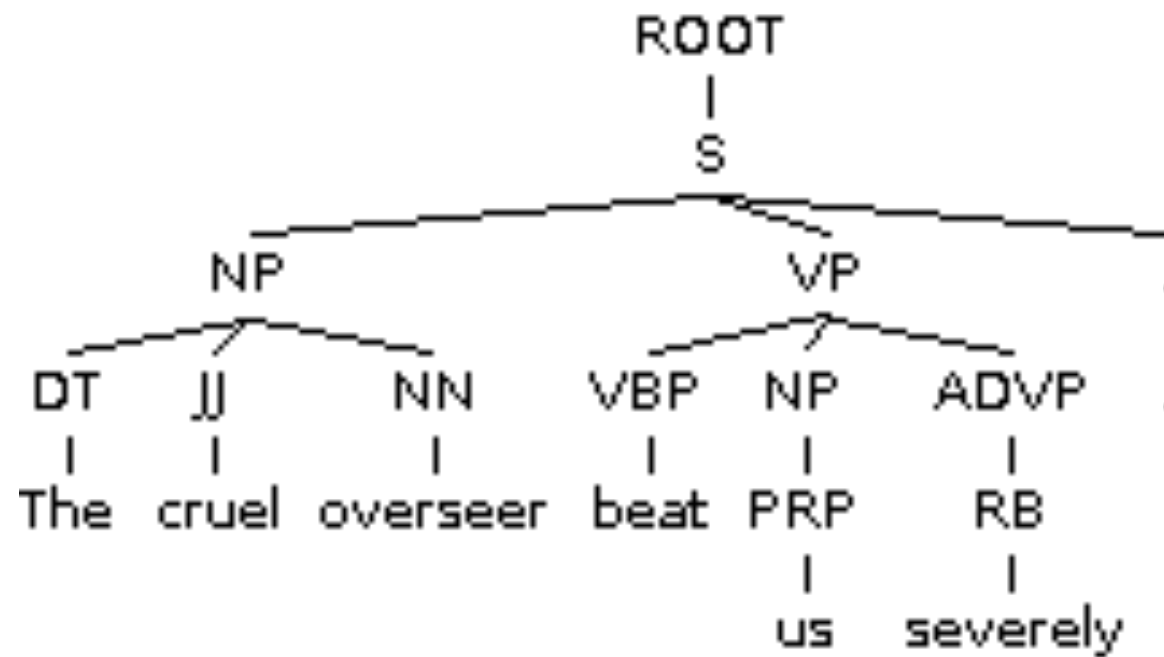


(automatically-extracted structure)

Natural language processing

The cruel overseer beat us severely.

subject



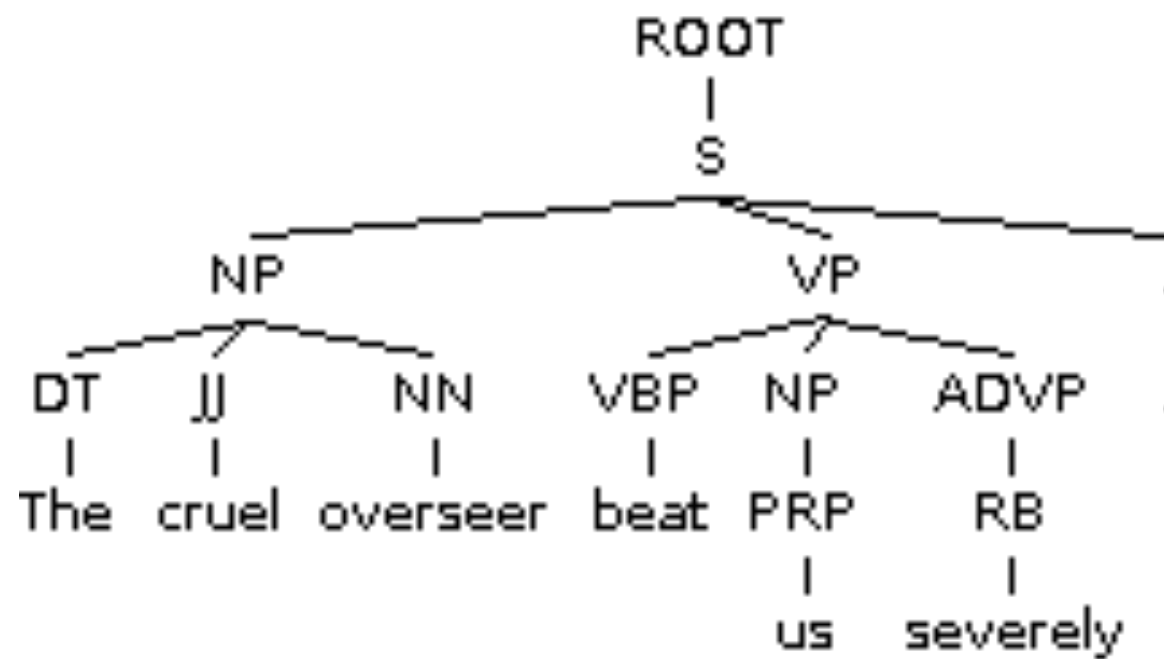
(automatically-extracted structure)

Natural language processing

The cruel overseer beat us severely.

subject

object



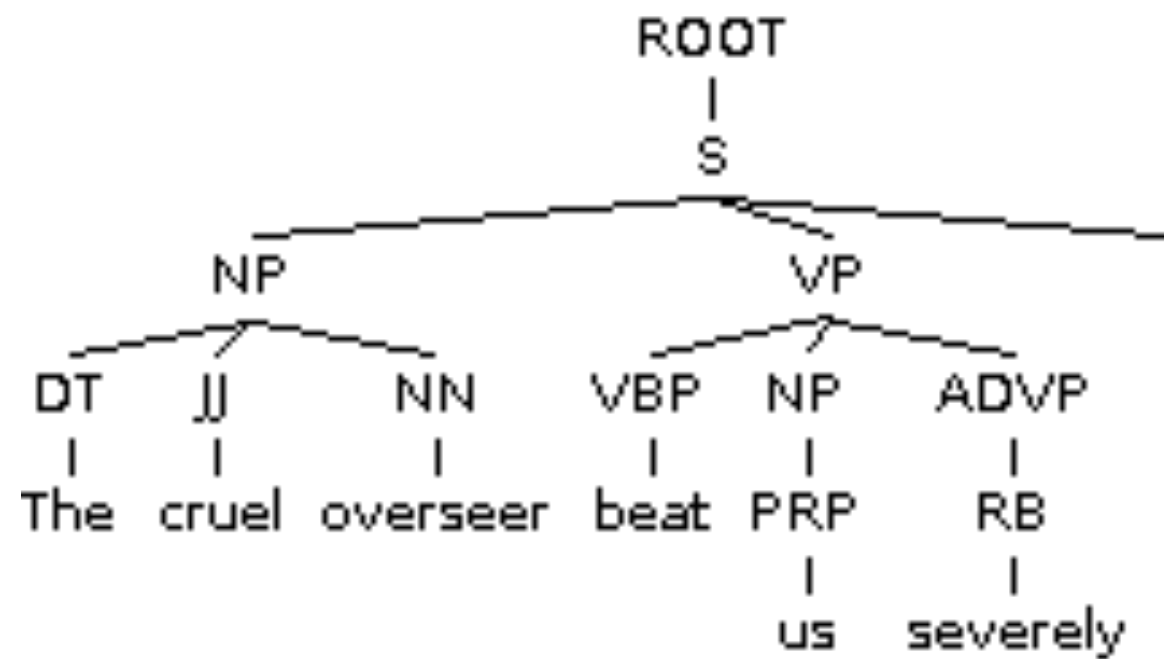
(automatically-extracted structure)

Natural language processing

The cruel overseer beat us severely.


modifier object

subject




(automatically-extracted structure)

Grammatical search

<input type="text"/>	(any relation to) 	<input type="text"/>
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Grammatical search

(any relation to) 

- search
- ✓ (any relation to)
- described as
- done by
- done to
- because
- and
- possessed by
- in order to
- with
- to
- from
- of
- on
- by
- in



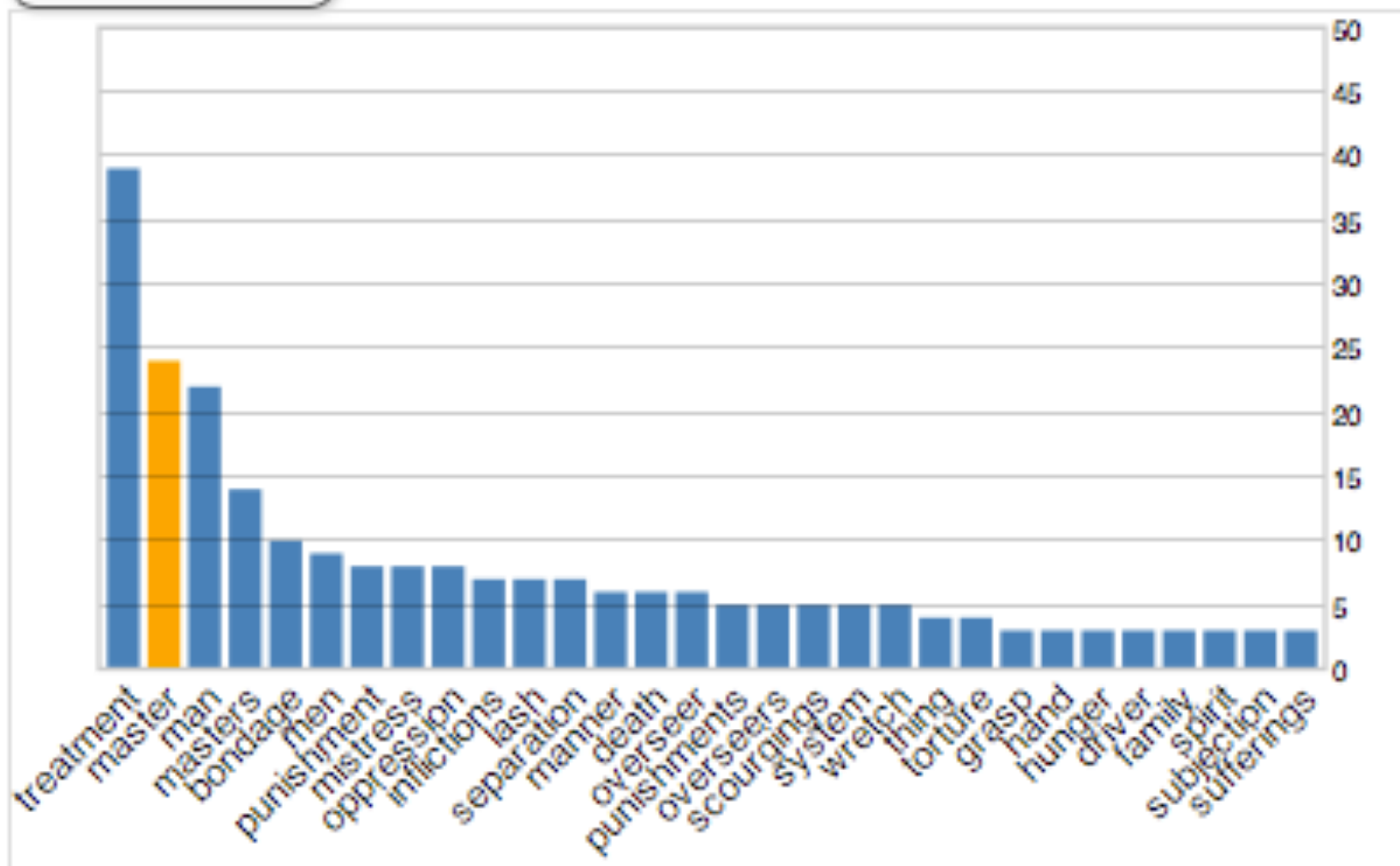
6 results

View	Sentence	Type	Title
	I was not under the direction of the cruel overseer , and consequently escaped his cruelty .	chapter	Narrative of Henry Watson, A Fug
	My master knew all the circumstances of the case which I have just related , but he never interfered , nor even reproved the cruel overseer for what he had done ; his motto was , Mr. Allen is always right , and so , right or wrong , whatever he did was law , and from his will there was no appeal .	main text	Narrative of the Life of Henry B
	One of Douglass masters was called Anthony , and though a cruel man himself , he had an overseer more cruel still .	section	Uncle Tom's Companions: Or, Facts Stran Supplement to Uncle Tom's Cabin: Being Sta Lives of Celebrated Fugitive
	I well remember how glad I felt at having got rid of such a cruel overseer .	section	Narrative of the Life of James Watkins, Forn Maryland, U. S.; Containing an Account o Slavery, Together with an Appeal on Behalf Such ♦Pieces of Property,♦ Still Held Und Eagle

described as

cruel
Go

Show a Random Sentence



24 results

View	Sentence	Type	Title	Author	Date	Publisher
	On my knees , with tears in my eyes , with terror in my countenance , and fervency in all my features , I implored Mr. Ballard to buy me , but he again refused , and I was taken back to my dreaded cruel master .	section	Uncle Tom's Companions: Or, Facts Stranger Than Fiction. A Supplement to Uncle Tom's Cabin: Being Startling Incidents in the Lives of Celebrated Fugitive Slaves.	Edwards, John Passmore, 1823-1911	1852	EDWARDS AND CO., 2, HORSESHOE COURT LUDGATE HILL.
	He said , that he had been bound to a very cruel master when he was a little boy , and having been treated very badly he wanted to get home to see his mother .	section	Uncle Tom's Companions: Or, Facts Stranger Than Fiction. A Supplement to Uncle Tom's Cabin: Being Startling Incidents in the Lives of	Edwards, John Passmore, 1823-1911	1852	EDWARDS AND CO., 2, HORSESHOE COURT LUDGATE HILL.

Part 2: visualizing stereotypes

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- Prevalence

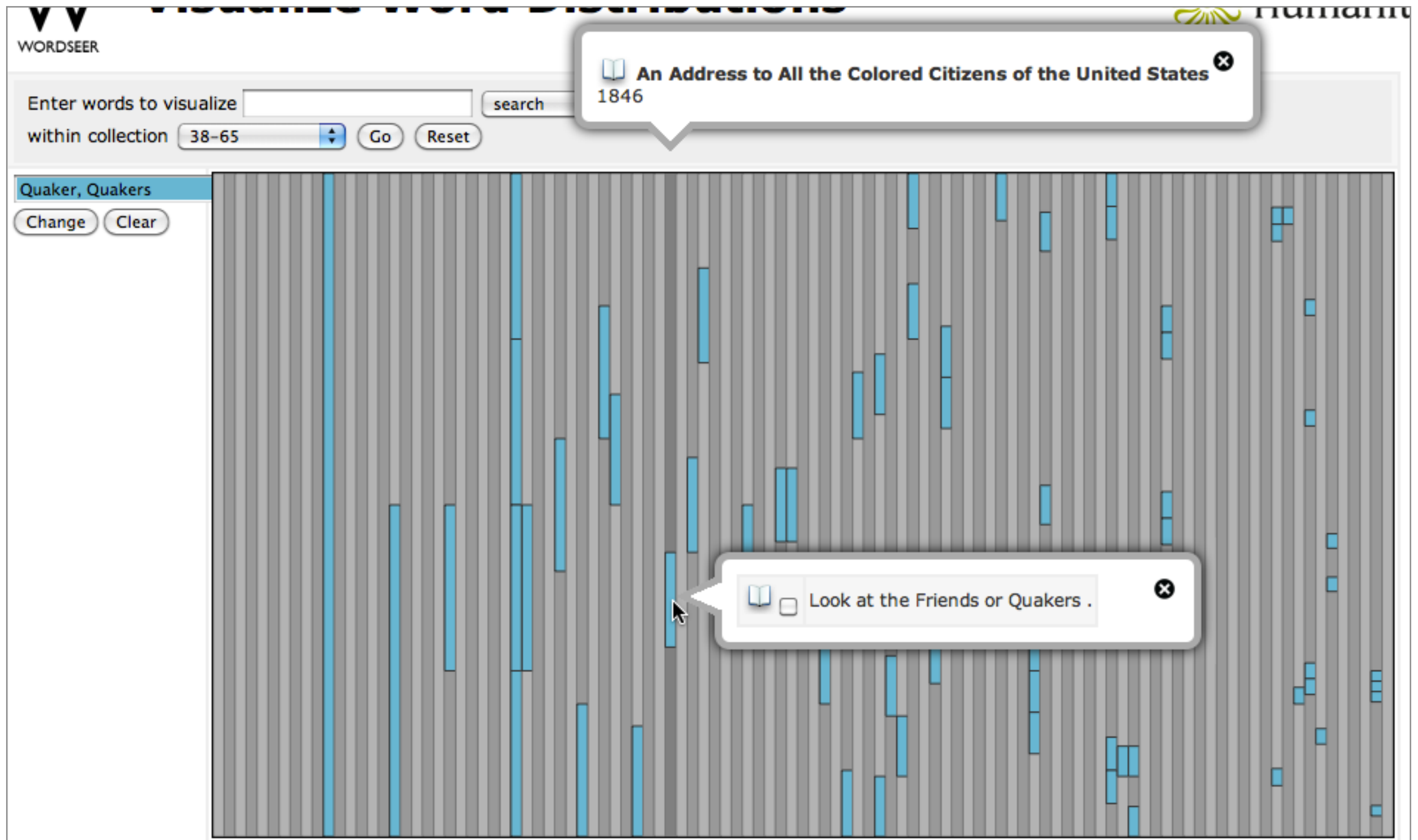
Part 2: visualizing stereotypes

- Prevalence
- Position of occurrence within a document

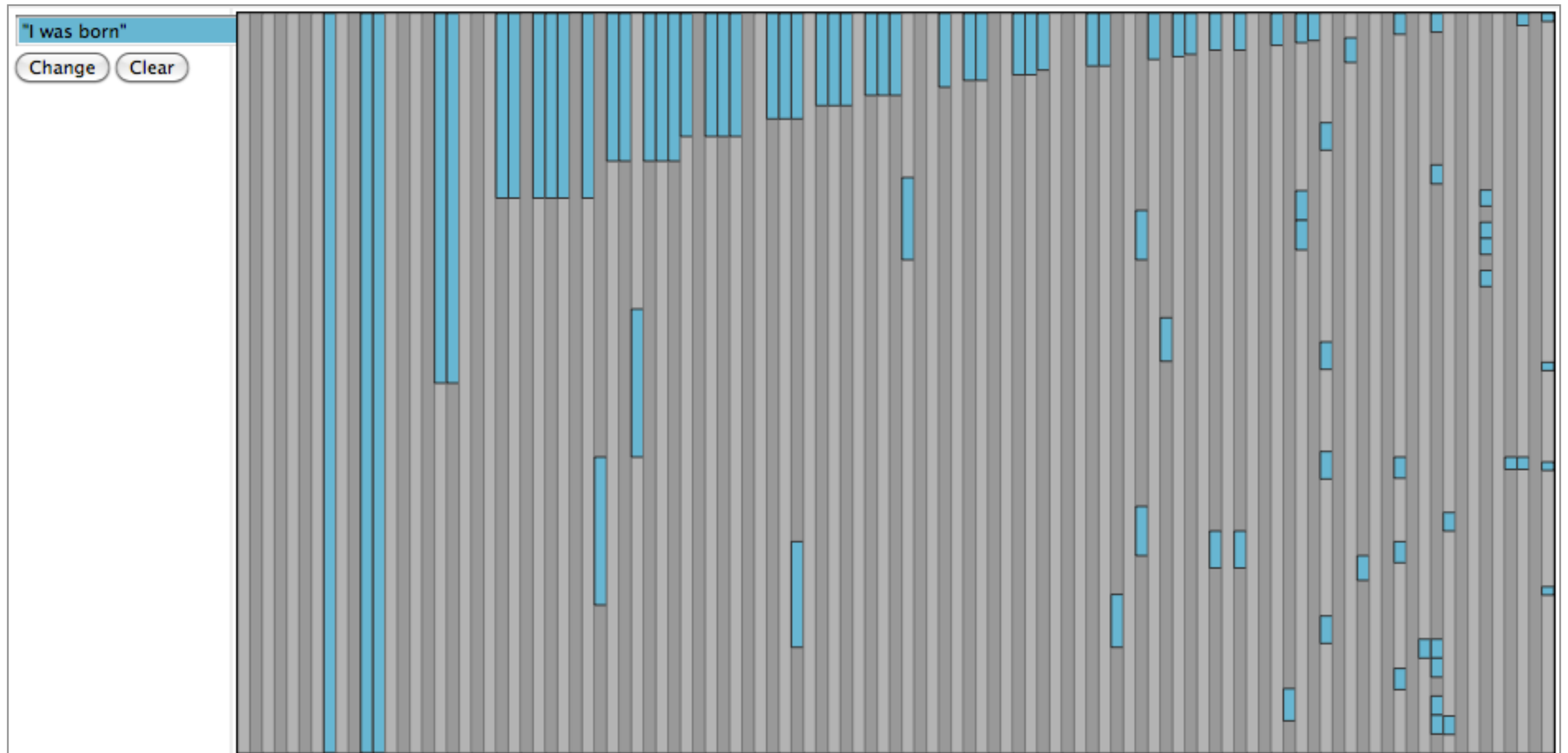
Part 2: visualizing stereotypes

- Prevalence
- Position of occurrence within a document
- Across the entire collection

Part 2: visualizing stereotypes



“I was born”



Results

Results

- Prevalent stereotypes
 - “I was born”
 - Separation from parents
 - Cruel treatment
 - Escape

Results

- Prevalent stereotypes
 - “I was born”
 - Separation from parents
 - Cruel treatment
 - Escape
- A ‘missed’ stereotype
 - Parents’ death

Problem

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- Vocabulary

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 - Same concept expressed with many different wordings
 - Needed to see synonyms, nearby words, suggestions on searches
- Comparison and curation
 - Couldn't isolate and compare results on sub-collections of document

Sensemaking

- A vague information need
- Iteratively refine it by
 - Searching
 - Reading
 - Analyzing
- Reach understanding

Sensemaking

- A vague information need

“Can you give a presentation next week on how wireless will affect our business?”

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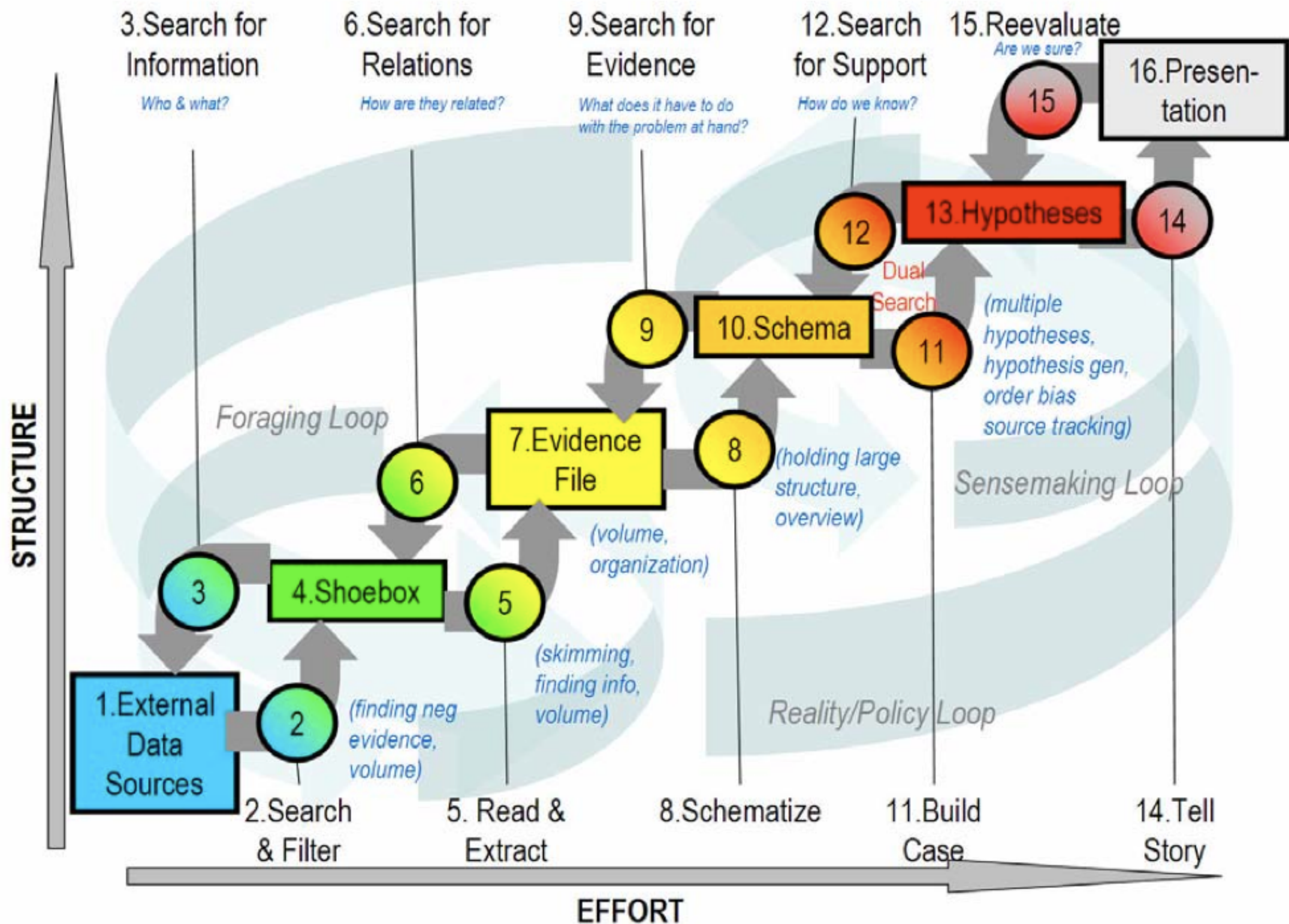
“I really need to get an updated cellphone--what has been happening with the current set of features, costs, plans and new gadgets?”

- Searching

- Reading

- Analyzing

- Reach understanding



Pirolli and Card 2005, Pirolli and Russell 2011

WordSeer (version 2)

Berkeley
W
WORDSEER

Visualize Word Distributions

Enter words to visualize

Filter documents by tag (all narratives) Sentences Paragraphs

God

God

Word Tree List Grammatical

Detail 50%

God

described as

Show a Random Sente

Chapter

my name is John Brown . how I came to take it , I will explain IN due time . when IN SLAVERY , I was called FED . why I was so named , I can not tell . I never knew myself by any other name , nor always by that ; for it is common for slaves to answer to any name , as it may suit the humor of the master . I do not know how old I am , But think I may be any age between thirty-five and forty . I fancy I must be about thirty-seven or eight ; as nearly as I can guess , I was raised on Betty MOORE 's estate , IN Southampton County , Virginia , about three miles from Jerusalem Court house and the little Nottoway river . my mother belonged to Betty MOORE . her name was Nancy ; But She was called Nanny . my father 's name was Joe . he was owned by a planter named Benford , who lived at Northampton , IN the same

Save you, fair queen!

Search

Heat-map visualization

Related words

Grammatical relationships

Related Words for 'fair'

Used in similar contexts

Nearby adjectives

Nearby verbs

Nearby nouns

sweet

virtuous

noble

thy

good

gentle

true

wise

happy

honest

being (119)

such (191)

more (167)

great (145)

sweet (143)

true (143)

own (124)

other (123)

good (347)

old (100)

noble (99)

lord (207)

(206)

(248)

(198)

(177)

(175)

(169)

(61)

(138)

(137)

Collections

plays

comedies

tragedies

histories

poems

temporal

post-1600

Merge Move Rename Delete New

Select all 16

View

	Title	Author	Date
<input type="checkbox"/>	The Second Part of King Henry the Fourth	William Shakespeare	1612
<input type="checkbox"/>	Antony and Cleopatra	William Shakespeare	1606
<input type="checkbox"/>	All's Well That Ends Well	William Shakespeare	1602
<input type="checkbox"/>	Coriolanus	William Shakespeare	1607
<input type="checkbox"/>	Cymbeline	William Shakespeare	1609
<input type="checkbox"/>	Hamlet, Prince of Denmark	William Shakespeare	1600
<input type="checkbox"/>	King Lear	William Shakespeare	1605

The complete works of Shakespeare

- 42 documents -- plays and sonnet collections
- XML versions obtained through the Internet Shakespeare Editions project

The Vocabulary Problem

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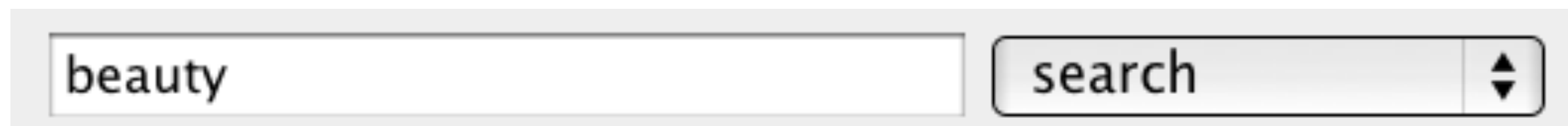
Which words embody the concept of female beauty?

The Vocabulary Problem

Which words embody the concept of female beauty?

The Vocabulary Problem

Which words embody the concept of female beauty?



A search bar interface. On the left is a text input field containing the word "beauty". To the right of the input field is a button labeled "search". The button has a small downward-pointing arrow icon on its right side.

261 results

261 results, 100 results per page, page 1 of 3

[View](#)

[Next](#)

Select all <input type="checkbox"/>	Sentence	Type	Title	Author	Date Publish
 <input type="checkbox"/>	But beauty , in that white intituled, From Venus'doves doth challenge that fair field: Then virtue claims from beauty beauty's red, Which virtue gave the golden age to gild Their silver cheeks, and called it then their shield;	quatrain	The Rape of Lucrece	William Shakespeare	1594
 <input type="checkbox"/>	That I may swear beauty doth beauty lack, If that she learn not of her eye to look: No face is fair that is not full so black.	lines	Love's Labour's Lost	William Shakespeare	1594
 <input type="checkbox"/>	She hath, and in that sparing makes huge waste, For beauty starved with her severity Cuts beauty off from all posterity.	lines	Romeo and Juliet	William Shakespeare	1594
 <input type="checkbox"/>	Your beauty was the cause of that effect; Your beauty , that did haunt me in my sleep To undertake the death of all the world, So I might live one hour in your sweet bosom.	lines	The Tragedy of King Richard the Third	William Shakespeare	1592
 <input type="checkbox"/>	Thus wisdom wishes to appear most bright When it doth tax itself; as these black masks Proclaim an enshield beauty ten times louder Than beauty could, displayed.	lines	Measure for Measure	William Shakespeare	1604
 <input type="checkbox"/>	Beauty no pencil, beauty's truth to lay;	stanza	Sonnets	William Shakespeare	1609
 <input type="checkbox"/>	Ay, truly; for the power of beauty will sooner transform honesty from what it is to a bawd than the force of honesty can translate beauty into his likeness: this was sometime a paradox, but now the time gives it proof.	lines	Hamlet, Prince of Denmark	William Shakespeare	1600
 <input type="checkbox"/>	Seeds spring from seeds and beauty breedeth beauty ; Thou wast begot; to get it is thy duty.	couplet	Venus and Adonis	William Shakespeare	1592
 <input type="checkbox"/>	Beauty's effect with beauty were bereft,	stanza	Sonnets	William Shakespeare	1609
 <input type="checkbox"/>	When at Collatium this false lord arrived, Well was he welcomed by the Roman dame, Within whose face beauty and virtue strived Which of them both should underprop her fame: When virtue bragged, beauty would blush for shame;	quatrain	The Rape of Lucrece	William Shakespeare	1594

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View Next

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- Search
- Heat-map visualization
- Related words
- Grammatical relationships

View

Next

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Related Words for 'beauty'

Used in similar contexts

virtue
truth
wit
father
love
heaven
soul
wisdom
fortune
mind

Nearby adjectives

fair (88)
good (95)
more (76)
sweet (74)
such (70)
true (51)
own (49)
other (46)
great (41)
old (40)

Nearby verbs

being (45)
love (42)
speak (37)
look (30)
die (30)
made (29)
done (29)
live (28)
love (27)
keep (27)

Nearby nouns

heart (78)
man (75)
eyes (101)
time (67)
art (58)
death (58)
eye (55)
face (54)
hand (52)
father (50)

261 results, 100 results per page, page 1 of 3

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Select
all ☐

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Search

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Type Title Author Date Publisher Play
Related Words for 'beauty' x

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quatrain	The Rape of Lucrece	William Shakespeare	1594

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<input type="checkbox"/>	Beauty no pencil, beauty 's truth to lay;
<input type="checkbox"/>	Ay, truly; for the power of beauty will sooner transform honesty from what it is to a bawd than the force of honesty can translate beauty into his likeness: this was sometime a paradox, but now the time gives it proof.
<input type="checkbox"/>	Seeds spring from seeds and beauty breedeth beauty ; Thou wast begot; to get it is thy duty.
<input type="checkbox"/>	Beauty 's effect with beauty were bereft,
<input type="checkbox"/>	When at Collatium this false lord arrived, Well was he welcomed by the Roman dame, Within whose face beauty and virtue strived Which of them both should underprop her fame: When virtue bragged, beauty would blush for shame;

Search

Heat-map visualization

Related words

Grammatical relationships

Type Title Author Date Publisher Play
Related Words for 'beauty' x

Used in similar contexts

virtue
truth
wit
father
love
heaven
soul
wisdom
fortune
mind

Nearby verbs

being (45)
love (42)
speak (37)
look (30)
die (30)
made (29)
done (29)
live (28)
love (27)
keep (27)

Nearby adjectives

fair (88)
good (95)
more (76)
sweet (74)
such (70)
true (51)
own (49)
other (46)
great (41)
old (40)

Nearby nouns

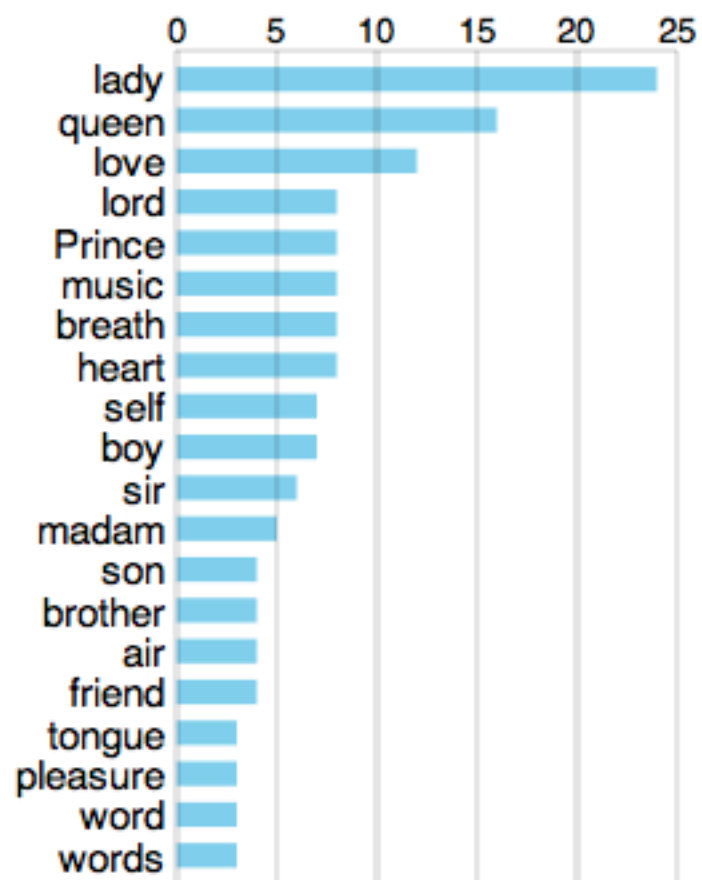
heart (78)
man (75)
eyes (101)
time (67)
art (58)
death (58)
eye (55)
face (54)
hand (52)
father (50)

stanza	Sonnets	William Shakespeare	1609
quatrain	The Rape of Lucrece	William Shakespeare	1594

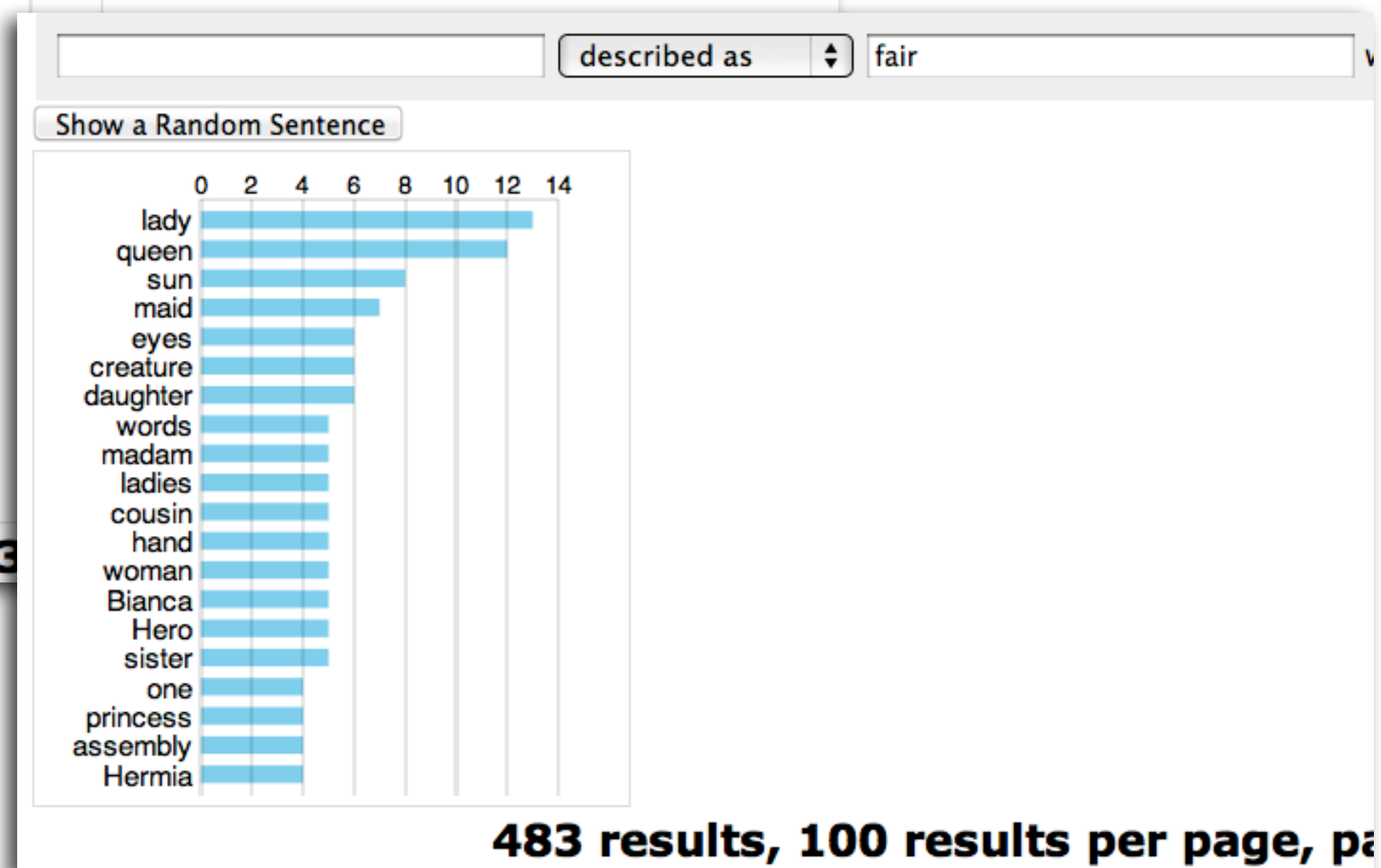
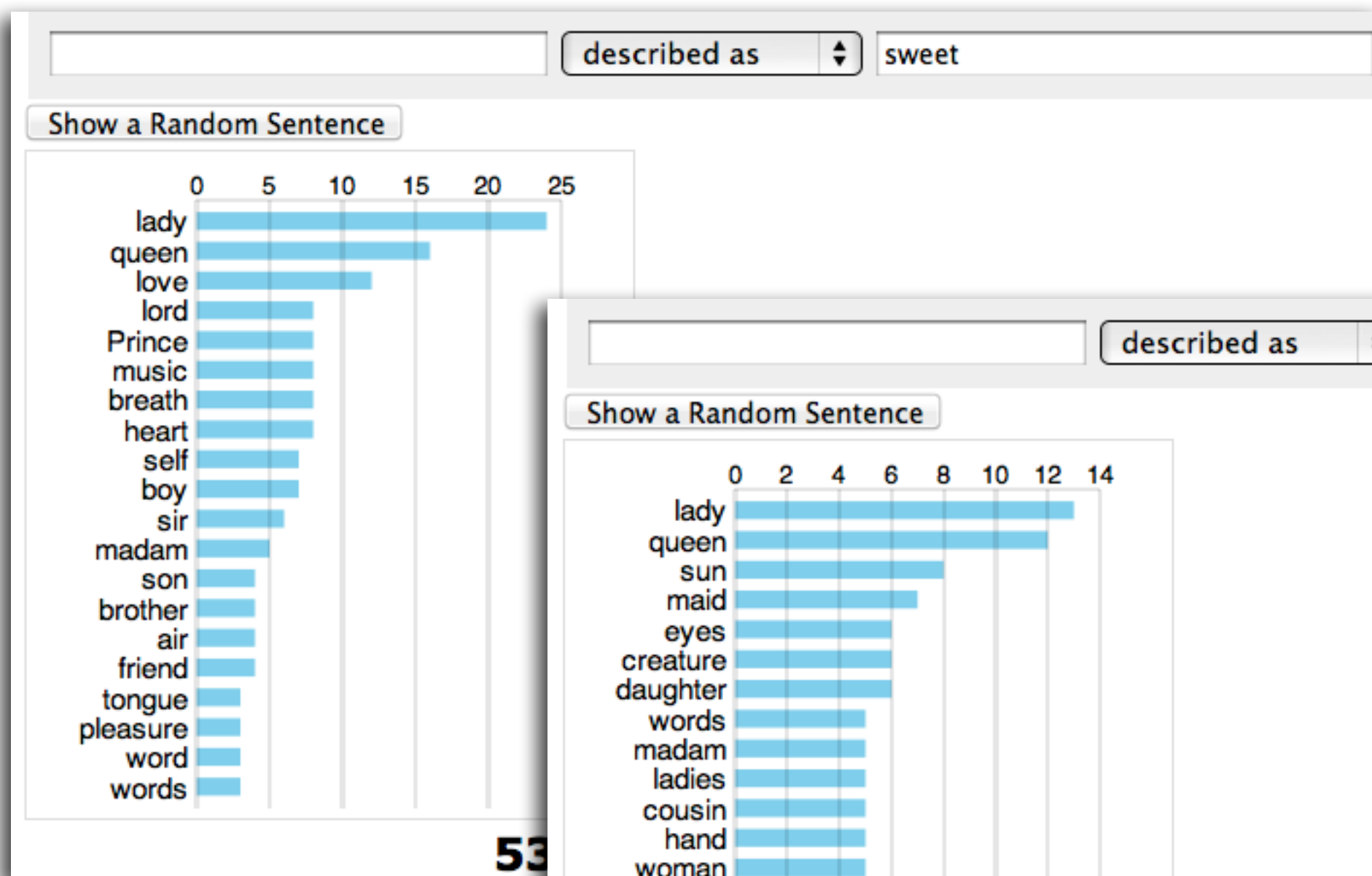
described as

sweet

Show a Random Sentence



533 results, 100 results per page, p
















Collection and Comparison

Collection and Comparison

Does the treatment of love vary between the comedies and tragedies?

<input type="checkbox"/>		The Third Part of King Henry the Sixth	1738
<input type="checkbox"/>		The First Part of King Henry the Sixth	1475
<input type="checkbox"/>		The Tragedy of King Richard the Third	2140
<input type="checkbox"/>		Venus and Adonis	505
<input checked="" type="checkbox"/>		The Taming of the Shrew	1661
<input type="checkbox"/>		Titus Andronicus	1335
<input checked="" type="checkbox"/>		Love's Labour's Lost	1804
<input type="checkbox"/>		The Rape of Lucrece	768
<input type="checkbox"/>		Romeo and Juliet	1976
<input checked="" type="checkbox"/>		Two Gentlemen of Verona	1476
<input checked="" type="checkbox"/>		A Midsummer Night's Dream	1194
<input type="checkbox"/>		The Tragedy of King Richard the Second	1269






<input type="checkbox"/>	 The Second Part of King Henry the Sixth	1778
<input type="checkbox"/>	 The Third Part of King Henry the Sixth	
<input type="checkbox"/>	 The First Part of King Henry the Sixth	
<input type="checkbox"/>	 The Tragedy of King Lear	
<input type="checkbox"/>	 Venus and Adonis	
<input checked="" type="checkbox"/>	 The Taming of the Shrew	
<input type="checkbox"/>	 Titus Andronicus	
<input checked="" type="checkbox"/>	 Love's Labour's Lost	
<input type="checkbox"/>	 The Rape of Lucrece	
<input type="checkbox"/>	 Romeo and Juliet	
<input checked="" type="checkbox"/>	 Two Gentlemen of Verona	
<input checked="" type="checkbox"/>	 A Midsummer Night's Dream	1194
<input type="checkbox"/>	 The Tragedy of King Richard the Second	1269

Add items to a collection

Select collection comedies

Selected Documents

- ☒ *Love's Labour's Lost* (1594), William Shakespeare
- ☒ *A Midsummer Night's Dream* (1595), William Shakespeare
- ☒ *The Taming of the Shrew* (1593), William Shakespeare
- ☒ *Two Gentlemen of Verona* (1594), William Shakespeare

<input type="checkbox"/>		Venus and Adonis	505	1592	William Shakespeare
<input checked="" type="checkbox"/>		The Taming of the Shrew	1661	1593	William Shakespeare
<input type="checkbox"/>		Titus Andronicus	1335	1593	William Shakespeare
<input checked="" type="checkbox"/>		Love's Labour's Lost	1804	1594	William Shakespeare
<input type="checkbox"/>		The Rape of Lucrece	768	1594	William Shakespeare

Collections



Add Items

plays

comedies

tragedies

histories

poems

temporal

hamlet

Merge

Move

Rename

Delete

New

Documents

Select all 16		View	Title	Author	Date
<input type="checkbox"/>	<input type="checkbox"/>				
<input type="checkbox"/>			<i>All's Well That Ends Well</i>	William Shakespeare	1602
<input type="checkbox"/>			<i>As You Like It</i>	William Shakespeare	1599
<input type="checkbox"/>			<i>The Comedy of Errors</i>	William Shakespeare	1589
<input type="checkbox"/>			<i>Cymbeline</i>	William Shakespeare	1609
<input type="checkbox"/>			<i>Love's Labour's Lost</i>	William Shakespeare	1594
<input type="checkbox"/>			<i>Much Ado About Nothing</i>	William Shakespeare	1598

Collection and Comparison

Step 2. Compare word usage

Collection and Comparison

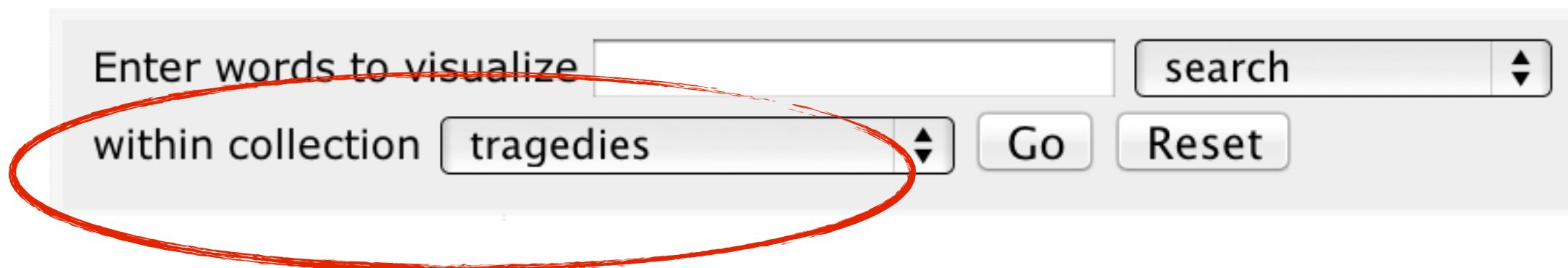
Step 2. Compare word usage

Enter words to visualize


within collection


Collection and Comparison

Step 2. Compare word usage



Enter words to visualize

within collection tragedies 



comedies



tragedies



Collections

Collections

comedies



tragedies



Collections

Collections

comedies



tragedies

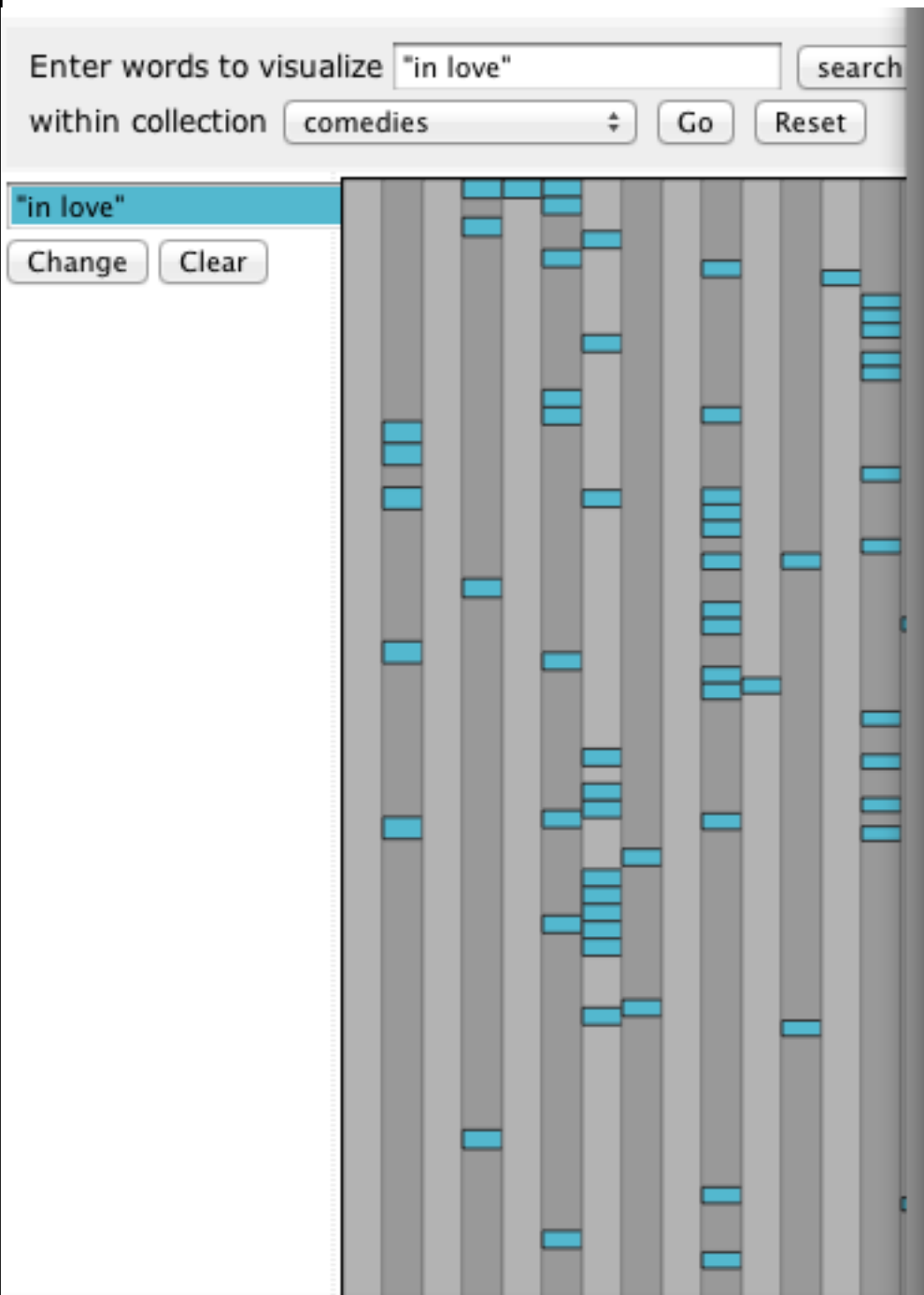


Collections

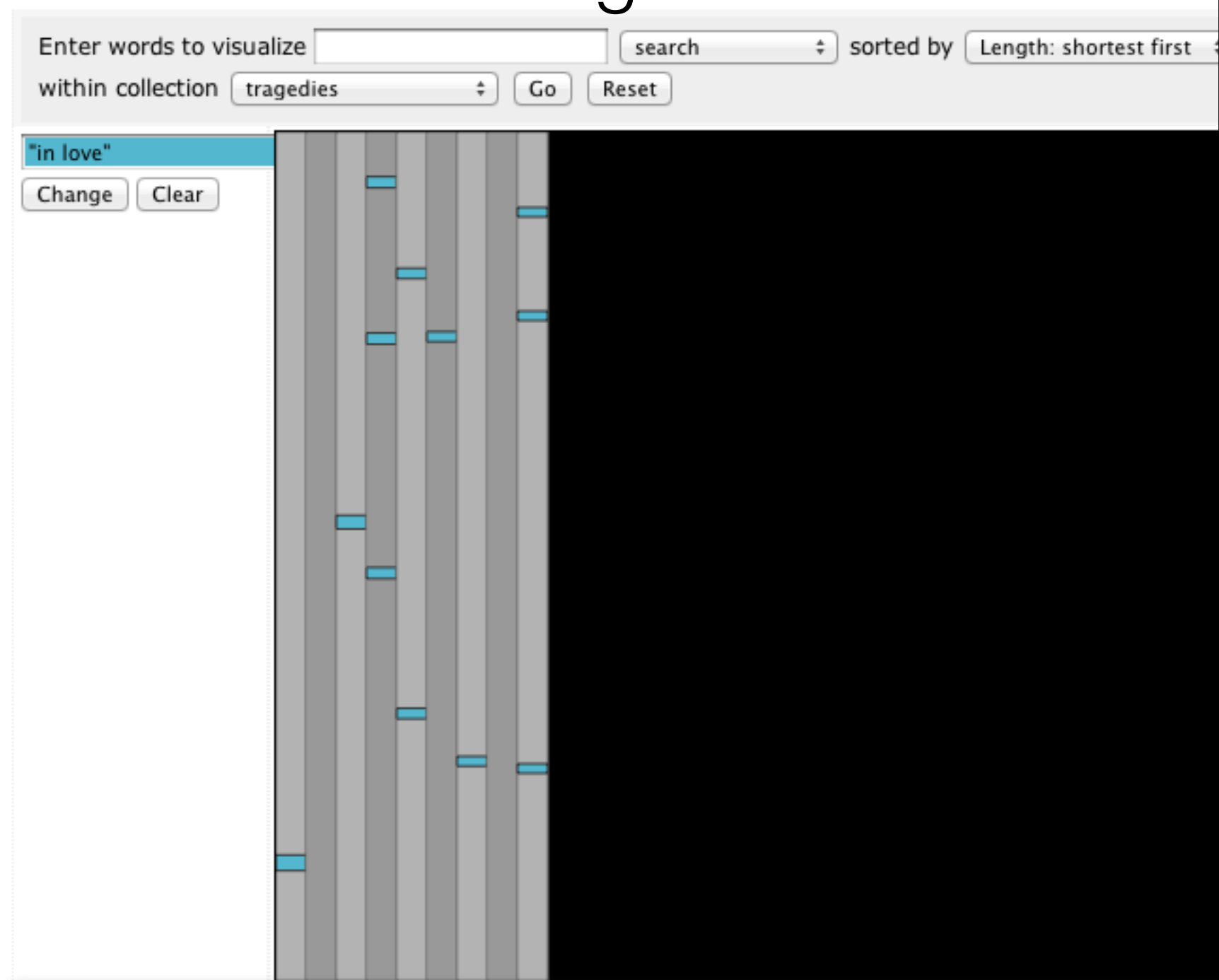
Collections

“in love”

comedies

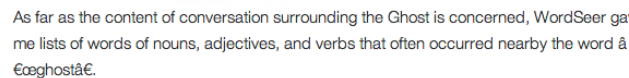


tragedies



But would it actually work?

2.
Pden
Fis
Lae
Hae
Lae
all.

[illegible]

to more.
alone
ple waxes,
soul
a you now,
mirch
fear,
his own.

why?

desire, will

depends
ate, → country
amscribed
y
he loves you,

rather
thaL
stain
open

why
are
you
still
here?

If she unmark her beauty
"Virtue itself scapes not calumnious strokes"
"The canker galls the infants of the spring"
Too oft before their buttons be disclosed,
And in the morn and liquid dew of youth
Contagious blastments are most imminent.
Be wary then; best safety lies in fear.
Youth to itself rebels though none else near.

OPHELIA I shall th'effect of this good lesson keep
As watchman to my heart. But, good my brother
Do not, as some ungracious pastors do,
Show me the steep and thorny way to heaven
While, a puffed and reckless libertine,
Himself the primrose path of dalliance treads,
And recks not his own rede.

LAERTES Oh, fear me not.
I may too long

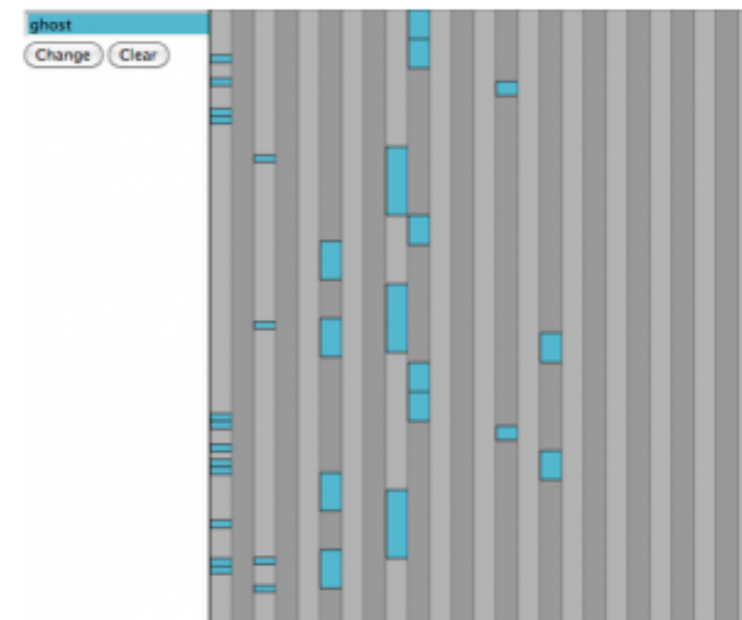
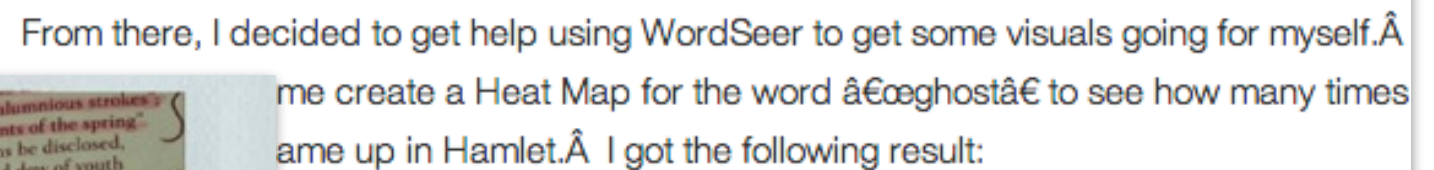
Enter POLONIUS → interrupting

But here my father comes.
A double blessing is a double grace;
Occasion smiles upon a second leave.

POLONIUS Yet here, Laertes? Aboard, aboard,
The wind sits in the shoulder of your sail,
And you are stayed for. There—my blessing wit
And these few precepts in thy memory
Look thou character. Give thy thoughts no tongue,
Nor any unproportioned thought his act.
Be thou familiar, but by no means vulgar.

14. shot. (1) range; (2) gunfire
15. 17, 18. Quotation marks indicate proverbial language or wise
16. chariot: most cautious; prodigal: extravagant and reckless
17. verusado: show; morn: symbol of chastity
18. calumnious: slanderous
19. canker . . . spring: cankerworm destroys
20. let him be disclosed

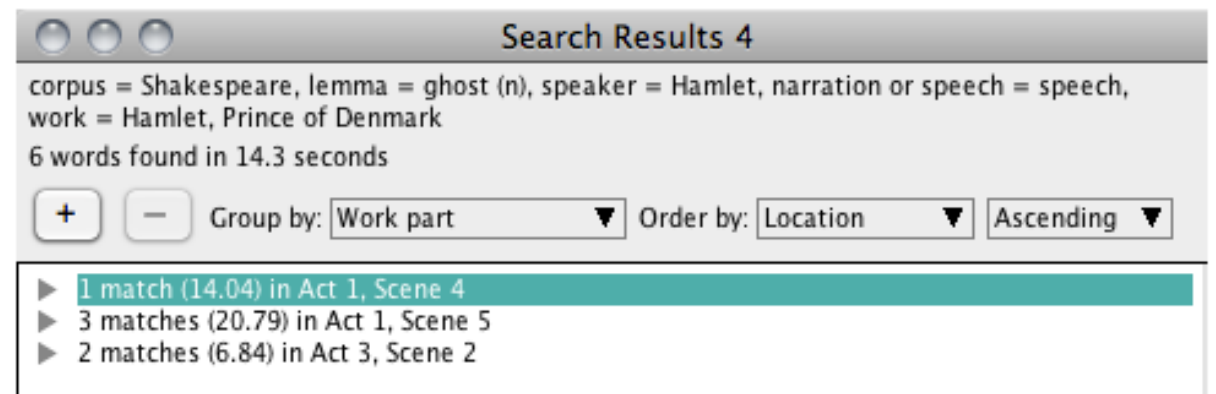
notes: i.e., body grows
implies that the country



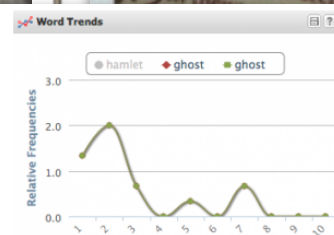
wordseer.berkeley.edu 33

Hamlet in the Humanities Lab

English 203 :: Winter 2012 :: University of Calgary

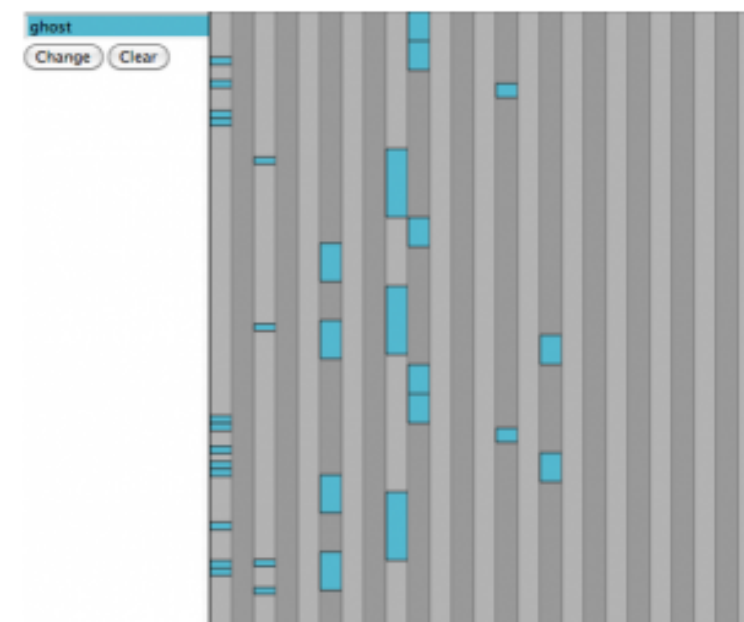


From there, I decided to get help using WordSeer to get some visuals going for myself.Â me create a Heat Map for the word “ghost” to see how many times ame up in Hamlet.Â I got the following result:



As far as the content of conversation surrounding the Ghost is concerned, WordSeer gave me lists of words of nouns, adjectives, and verbs that often occurred nearby the word “ghost”.

Related Words for 'ghost'	
Used in similar contexts	Nearby adjectives
corpse (17)	dead (17)
chase (16)	such (16)
boot (13)	more (13)
melancholy (12)	good (12)
image (12)	poor (12)
lament (10)	sweet (10)
supernatural (8)	heavy (8)
comparison (7)	young (7)
direction (7)	full (7)
where (7)	other (7)
Nearby verbs	Nearby nouns
speak (15)	art (15)
look (14)	blood (14)
lord (13)	heart (13)
done (10)	heaven (10)
hear (8)	man (8)
follow (8)	life (8)
seen (8)	death (8)
made (8)	king (8)
being (8)	night (8)
live (8)	earth (8)



Case Study 2: Hamlet in the Humanities Lab

<http://engl203.ucalgaryblogs.ca/>

Hamlet in the Humanities Lab, Spring 2012, University of Calgary

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- 24 undergraduate English majors

Hamlet in the Humanities Lab, Spring 2012, University of Calgary

- 24 undergraduate English majors
- 12 weeks

Hamlet in the Humanities Lab, Spring 2012, University of Calgary

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- Used 5 text analysis tools to analyze Shakespeare's Hamlet

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- Weekly blog posts about their experiences

Hamlet in the Humanities Lab, Spring 2012, University of Calgary

- 24 undergraduate English majors
- 12 weeks
- Used 5 text analysis tools to analyze Shakespeare's Hamlet
- Weekly blog posts about their experiences
- 180 posts

The other tools

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- **Voyant Tools** Multiple different visualizations of an input text

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- **Tapor Tools** (now subsumed by Voyant Tools)

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- **Voyant Tools** Multiple different visualizations of an input text
- **Tapor Tools** (now subsumed by Voyant Tools)
- **WordHoard** detailed Shakespeare metadata, gives word counts and lists of most frequent words.
- **MONK** A text classification & comparison toolkit. Divide text into sets, and run various classification and comparisons algorithms.

How do different characters express doubt?

How much of the action relies on Horatio's presence?

Why do Hamlet and Ophelia relate to their mother so differently?

Analysis units were too rigid

Needed overviews

Needed to collect interesting items

Tools felt disconnected

Problem: Analysis units were too rigid

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"I looked up Act 2, separated it into Scenes 1 and 2, and looked for common words that connect to themes that are seen throughout." -- hayleydunmire 3/16/12

Problem: Analysis units were too rigid

"I looked up Act 2, separated it into Scenes 1 and 2, and looked for common words that connect to themes that are seen throughout." -- hayleydunmire 3/16/12

"I start by looking at the speaking frequency of each character, to then go and list out their common words."
— kira 3/26/12

Problem: Needed overviews

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“Laertes' use of words is similar to that of Claudius; his speech is very action related, mainly in regards to revenge” — kira 4/24/12

Problem: Needed overviews

“‘Laertes' use of words is similar to that of Claudius; his speech is very action related, mainly in regards to revenge” — kira 4/24/12

“‘I was surprised particularly by the comparative frequencies of the word `father'. In Act 1 it is mentioned 9 times by Hamlet, but in Act 5 in is only mentioned by him once.” — stephanievandewark 3/16/12

Problem: Needed to collect interesting terms

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“This is my second step into the process, looking up
`soul', `heaven' and `devil' or any words of the like.” --
teresastapor 3/27/12

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“This is my second step into the process, looking up
`soul', `heaven' and `devil' or any words of the like.” --
teresastapor 3/27/12

“By slowly typing in each word in search bar that was a
part of the body, my Phase Two group was able to
make the theme of our presentation based on senses
(eyes, hearing, and speaking/ tongue).” --
CarlyFerguson 4/24/12

Problem: Tools felt disconnected

Problem: Tools felt disconnected

“Classification only allows you to use one workset at a time which I find very frustrating because I have to write down my findings then switch over to the other workset, do the same thing then manually compare the two together.” -- hayleydunmire 3/2/12

Problem: Tools felt disconnected

"Classification only allows you to use one workset at a time which I find very frustrating because I have to write down my findings then switch over to the other workset, do the same thing then manually compare the two together." -- hayleydunmire 3/2/12

"I scan the text and look for words that seem to pop out or seem to be an underlying trend and then search those but the fact that I can't use related words almost defeats the purpose of that." -- daynaaasen7 3/21/12

comedies



tragedies



Collections

Collections

comedies



tragedies



Collections

Collections

comedies



tragedies

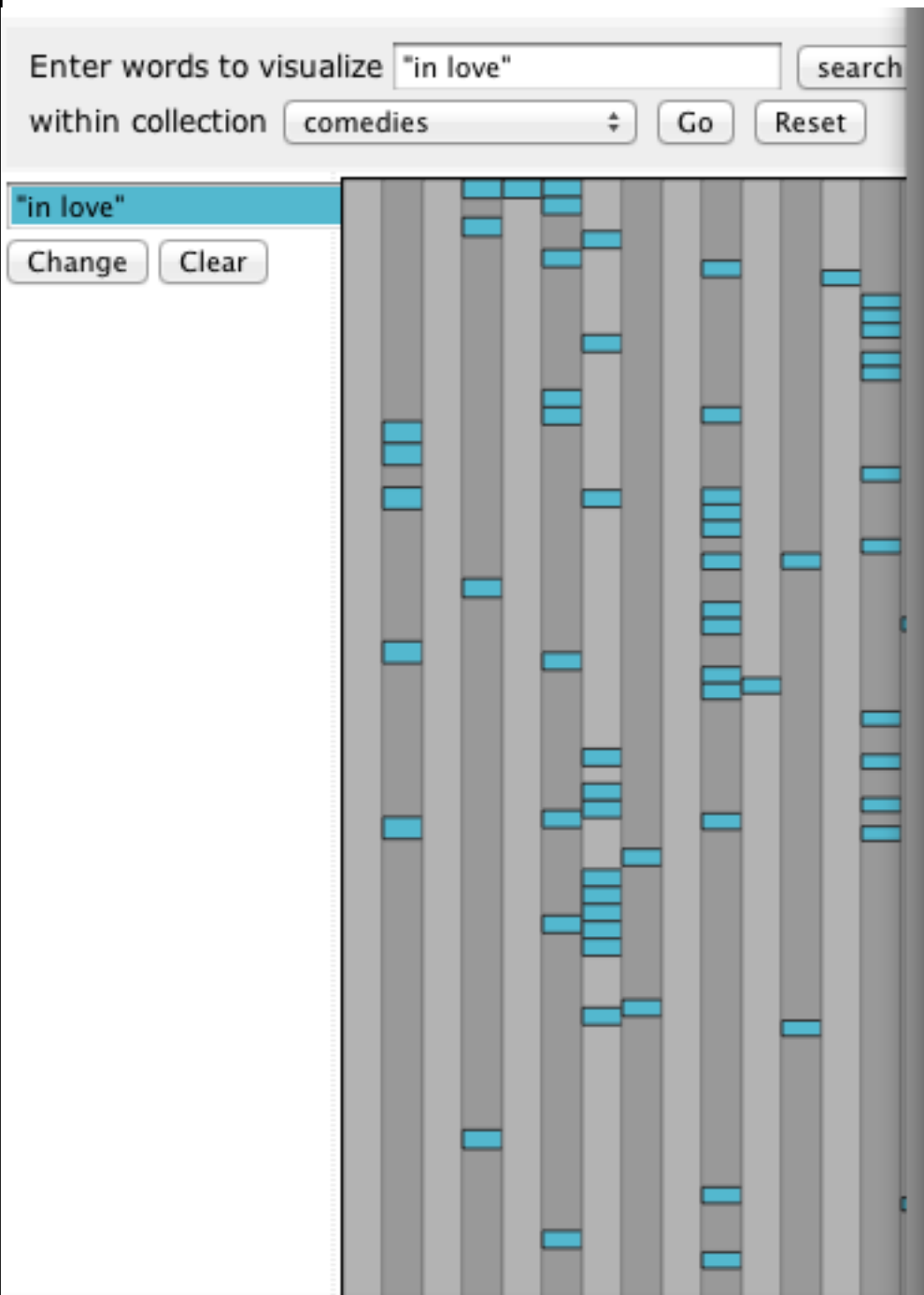


Collections

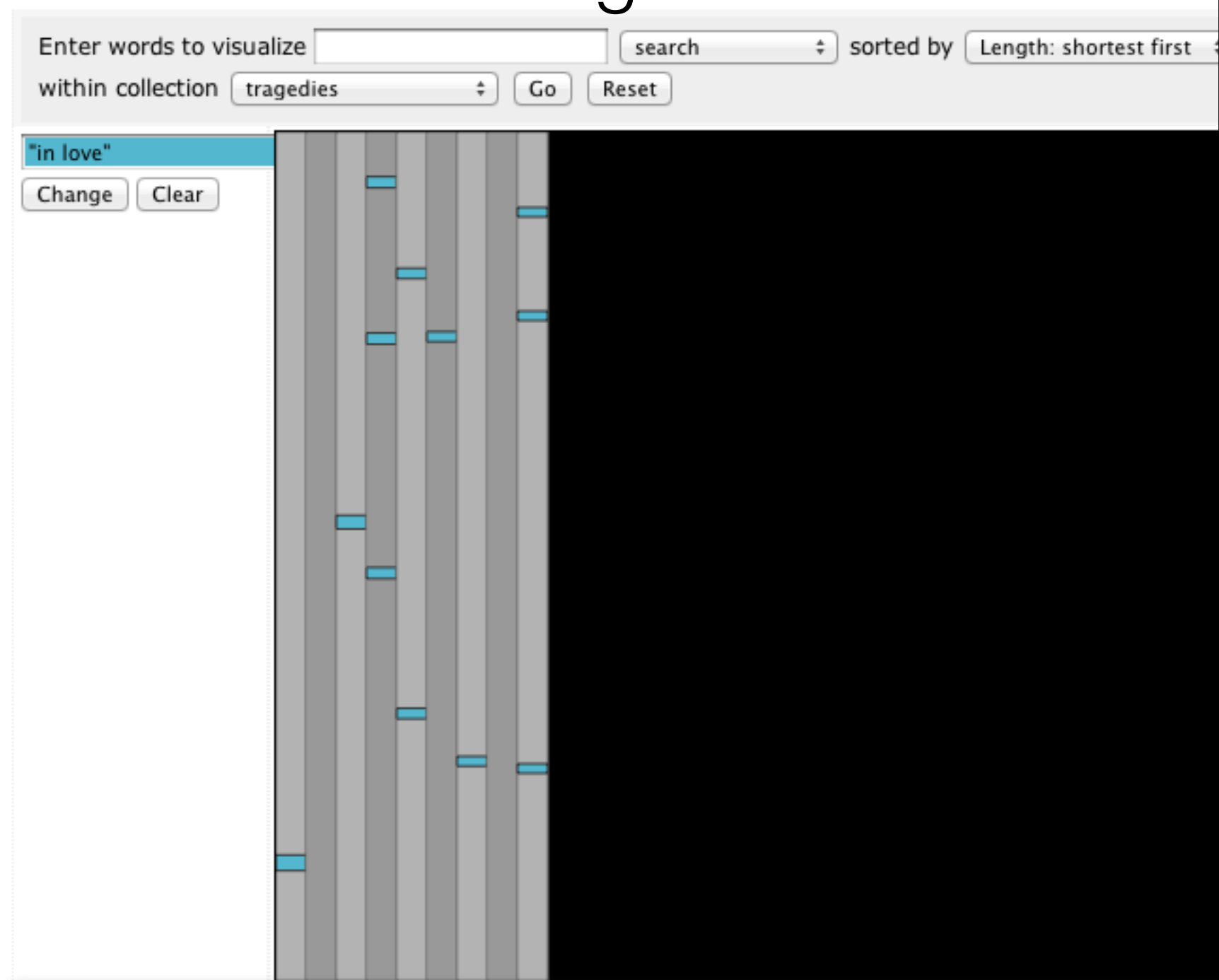
Collections

“in love”

comedies

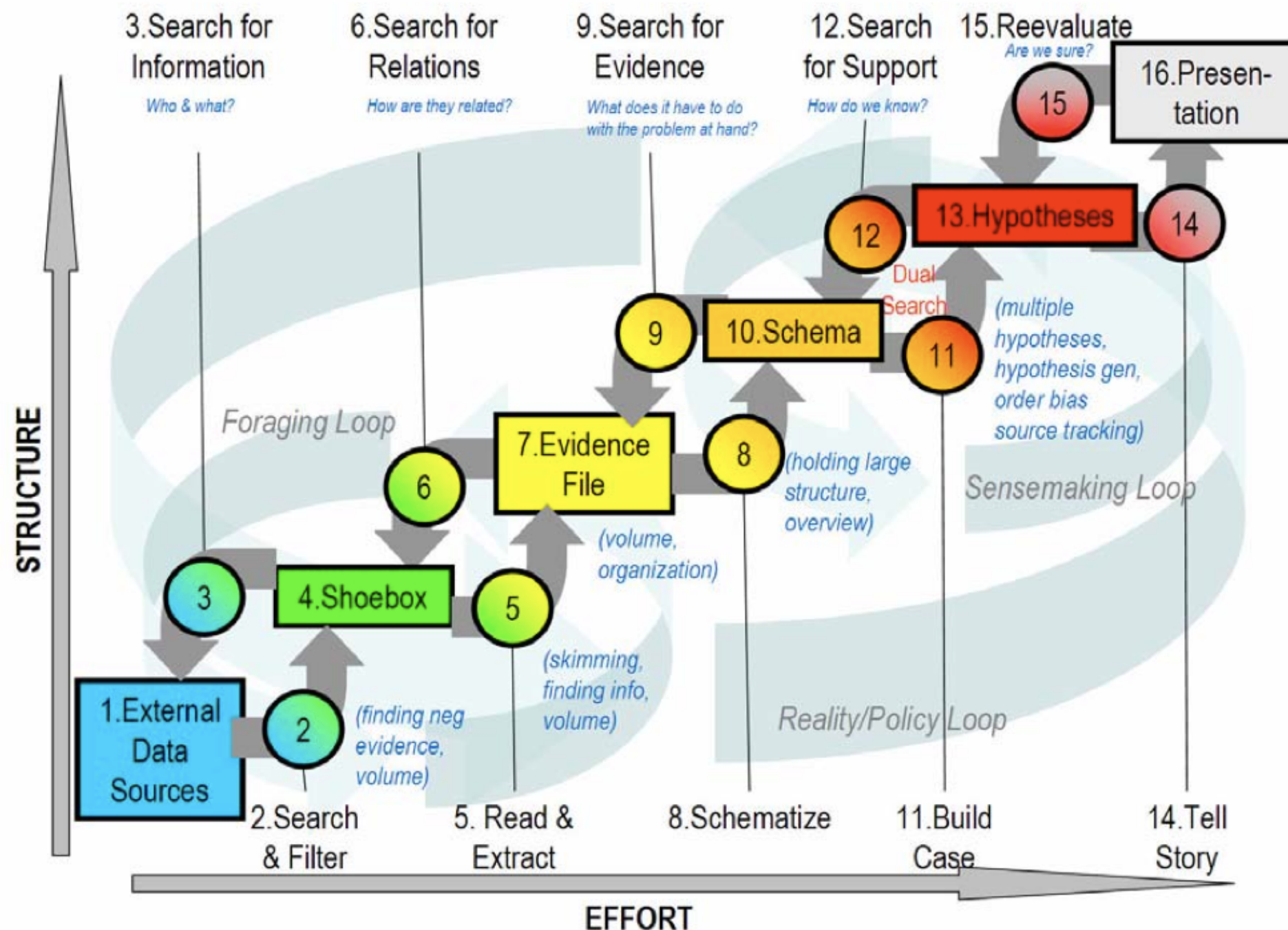


tragedies



But we had a model!

But we had a model!



Pirolli and Card 2005, Pirolli and Russell 2011

We need a *more detailed* model *for the humanities
and social sciences*

Interviews

- 12 English and History PhD Student at Berkeley
- 45 minutes
- Open-ended, retrospective

Questions

Questions

- What are the different steps you follow?

Questions

- What are the different steps you follow?
- What actions do you take?

Questions

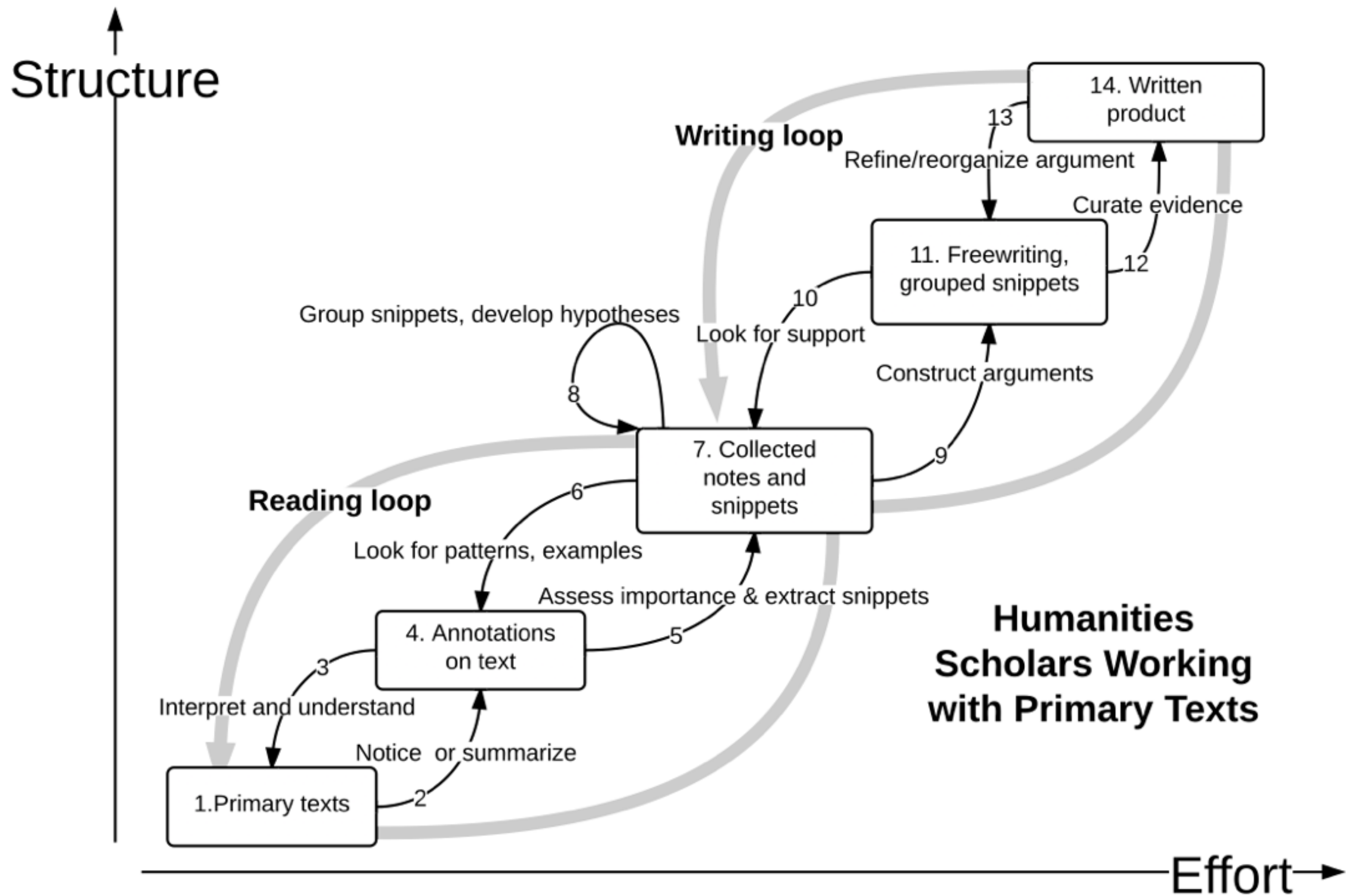
- What are the different steps you follow?
- What actions do you take?
- Are there categories of actions?

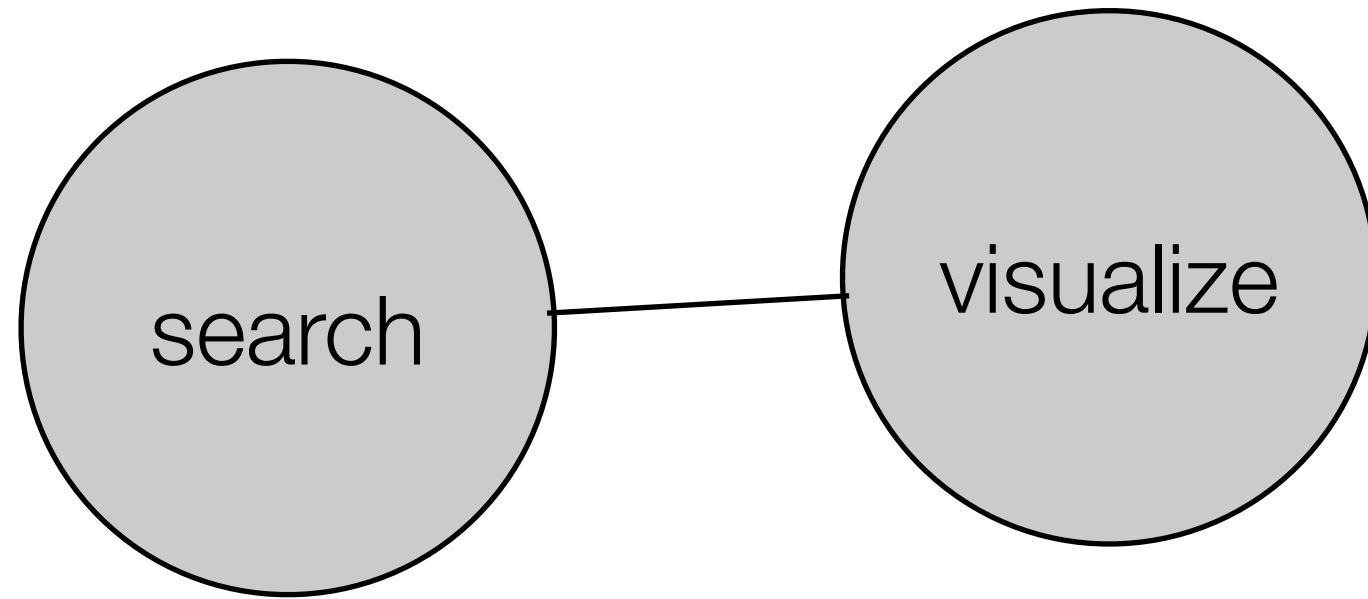
Questions

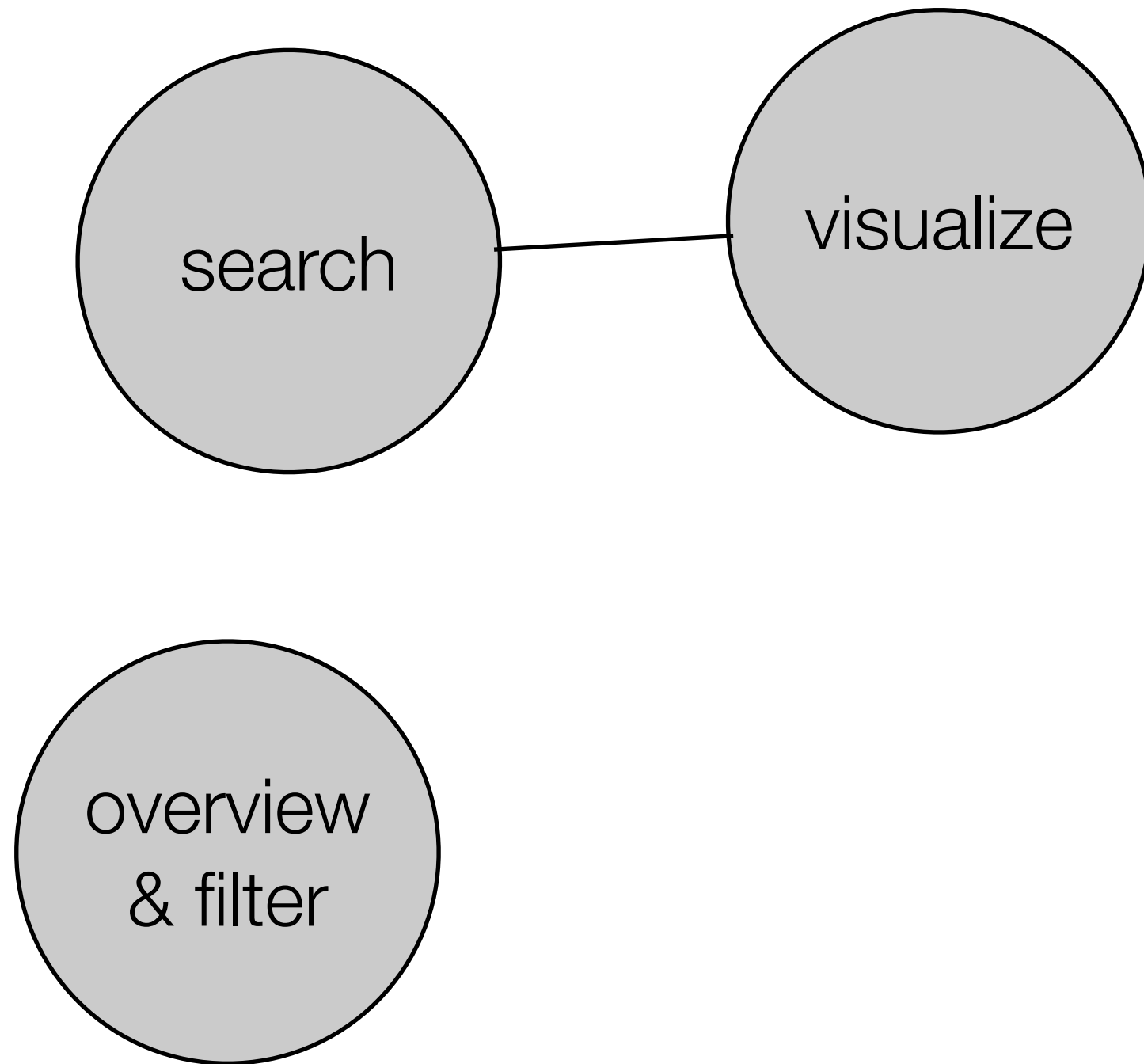
- What are the different steps you follow?
- What actions do you take?
- Are there categories of actions?
- Are there common sequences of actions?

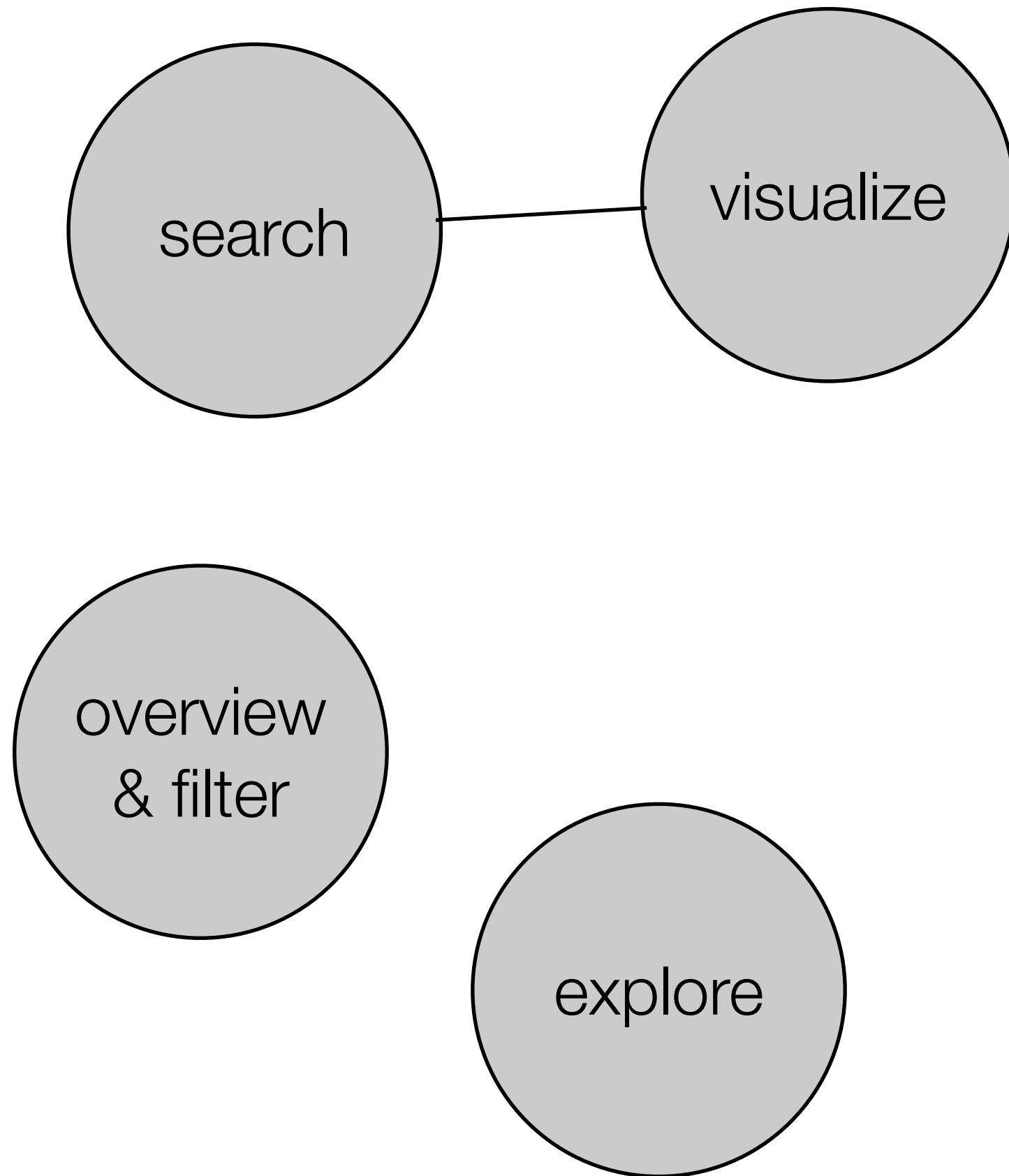
Questions

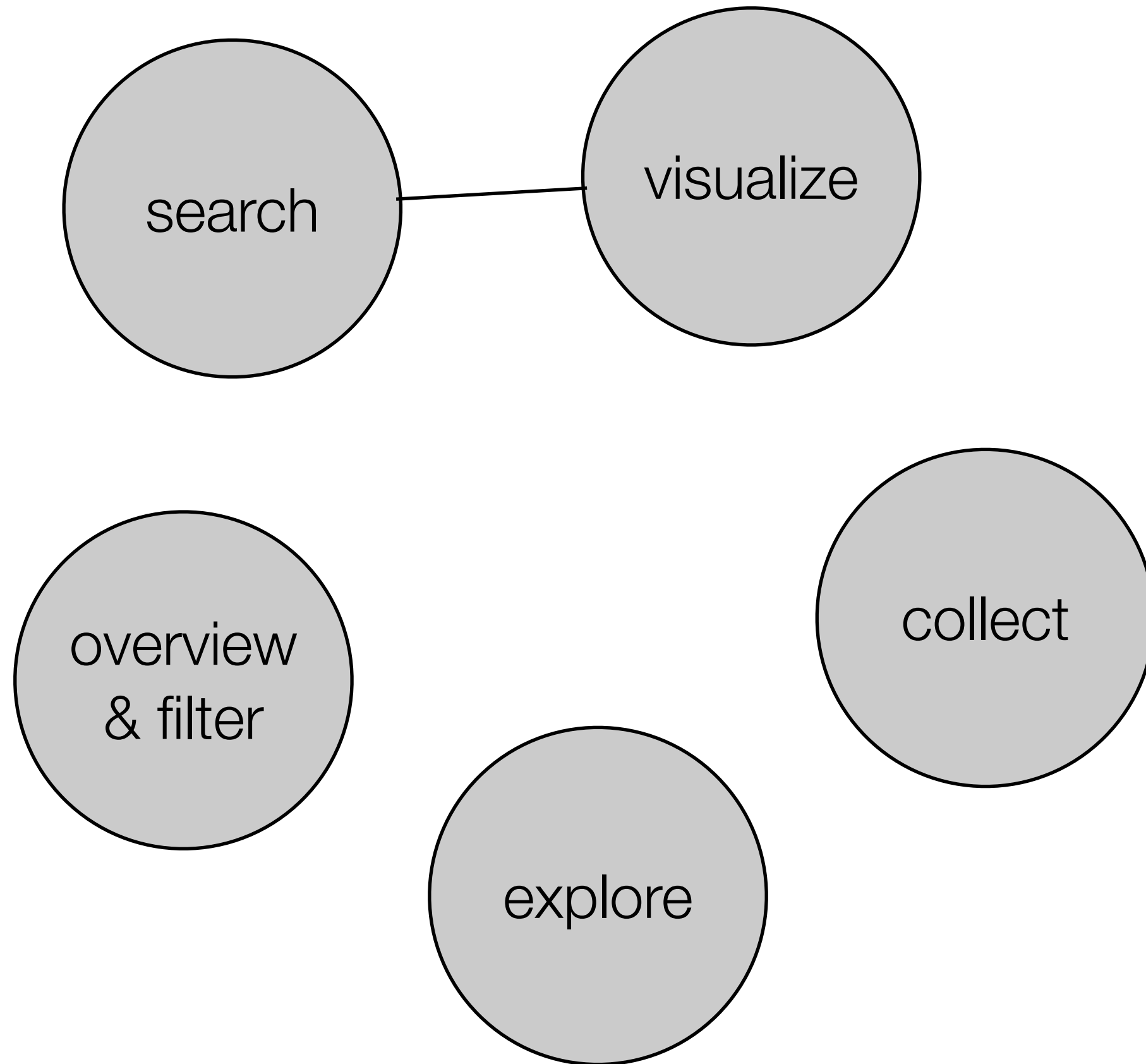
- What are the different steps you follow?
- What actions do you take?
- Are there categories of actions?
- Are there common sequences of actions?
- What are the things you think about and manipulate?

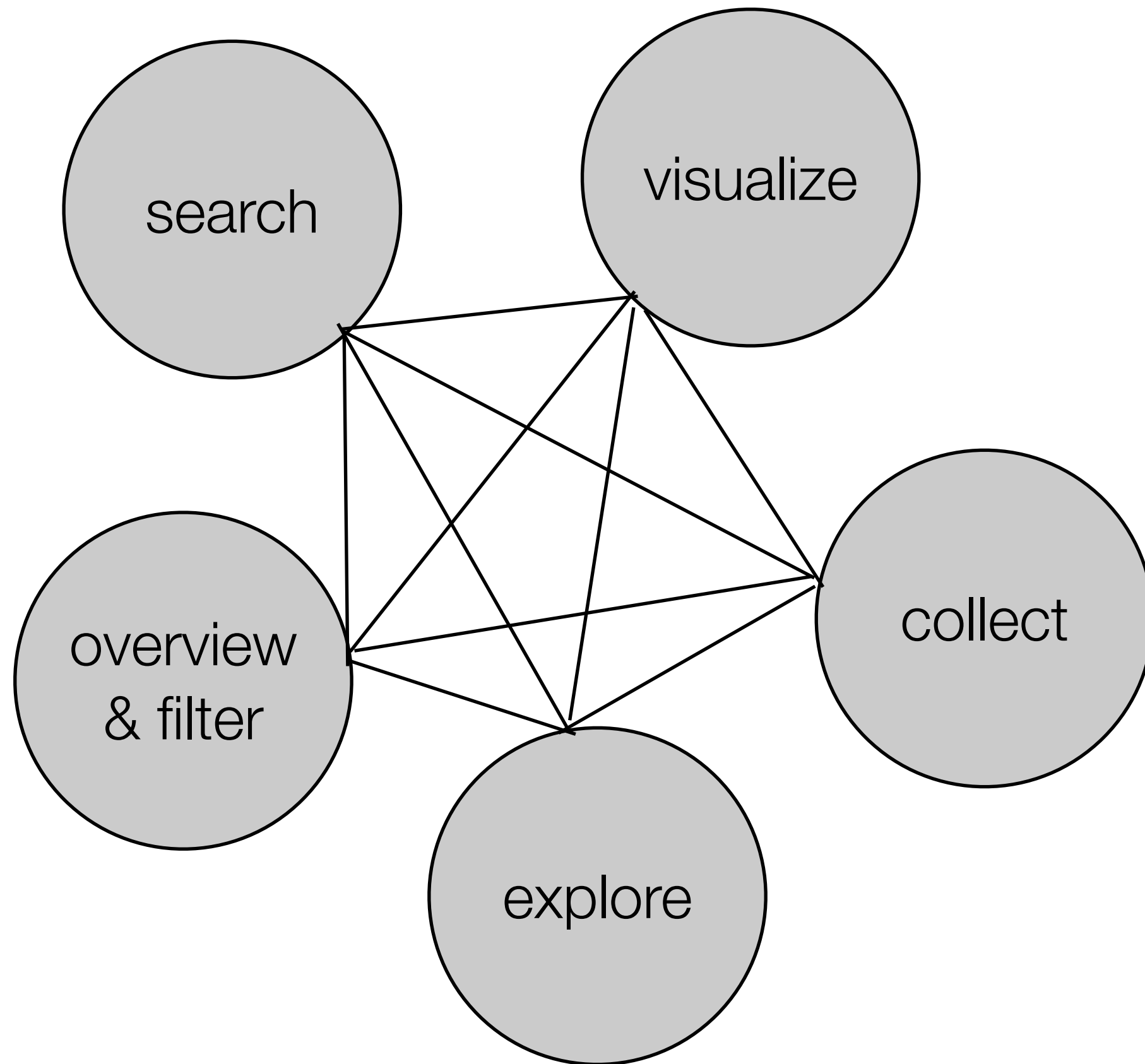












“Beautiful” in Shakespeare

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What words are
used to describe
female beauty?

“Beautiful” in Shakespeare

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Items of Interest

$S1 = \{\text{beauty}\}$

“Beautiful” in Shakespeare

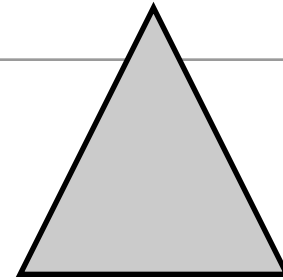
What words are
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Items of Interest

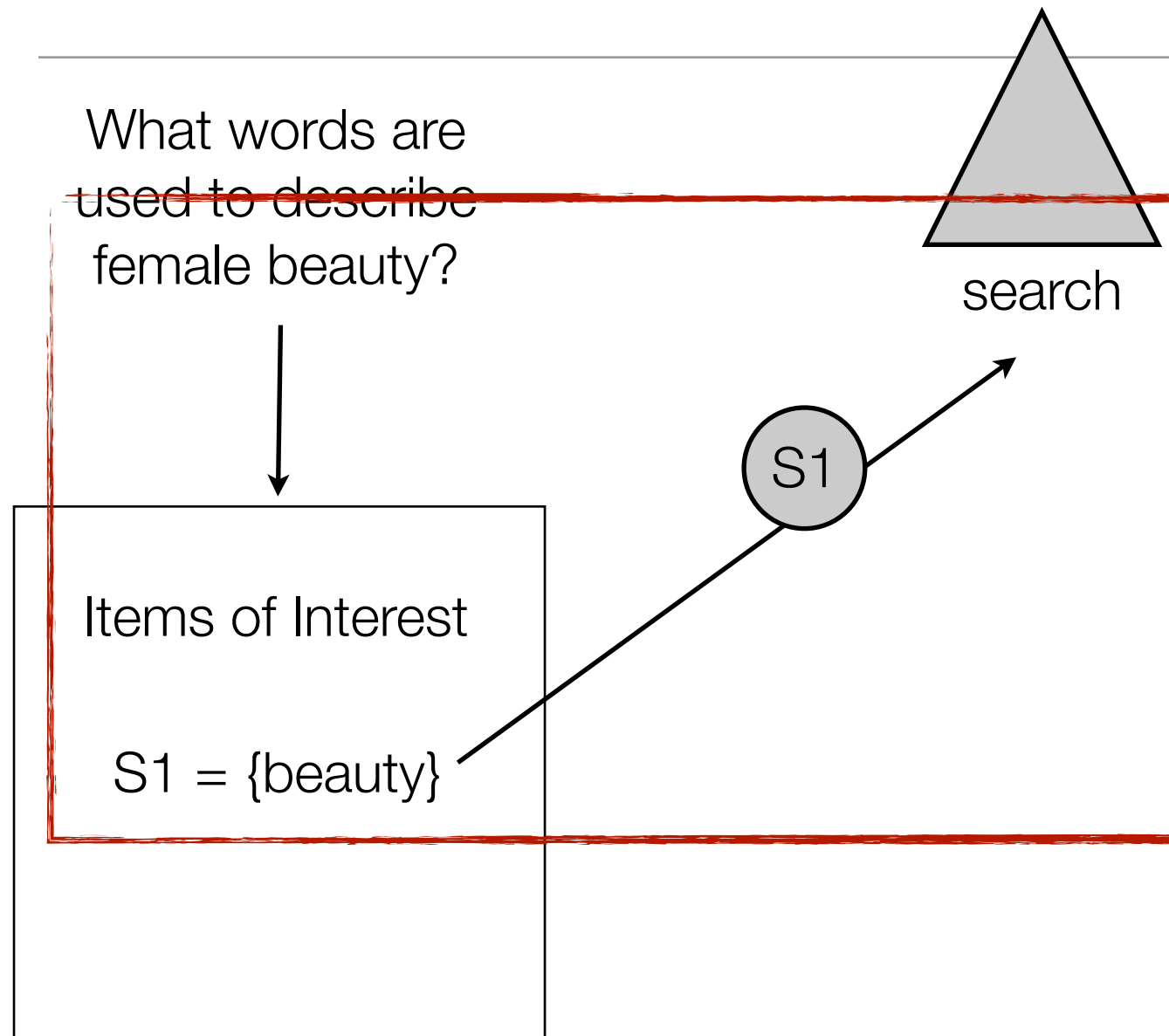
$S1 = \{\text{beauty}\}$

S1

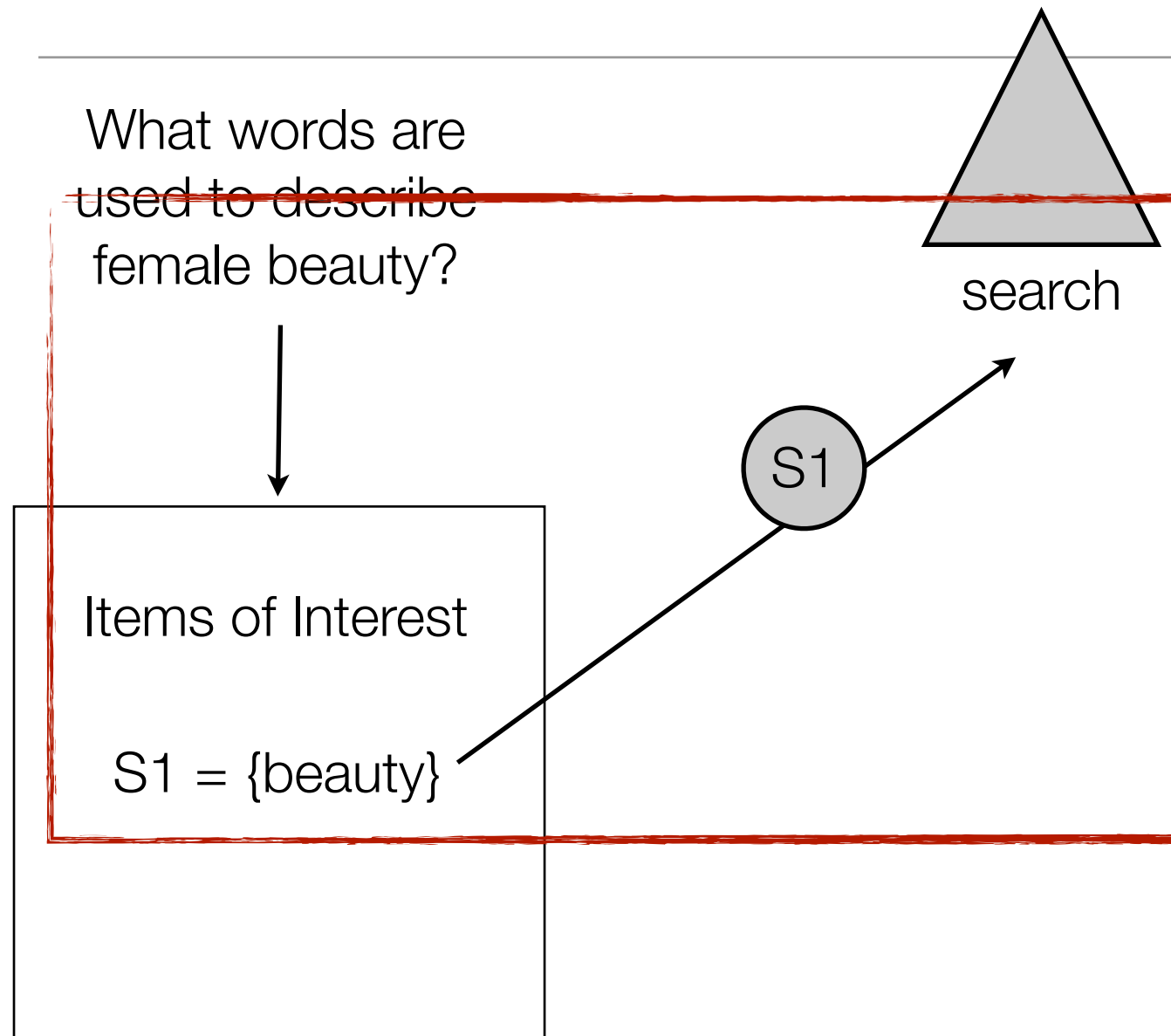


search

“Beautiful” in Shakespeare



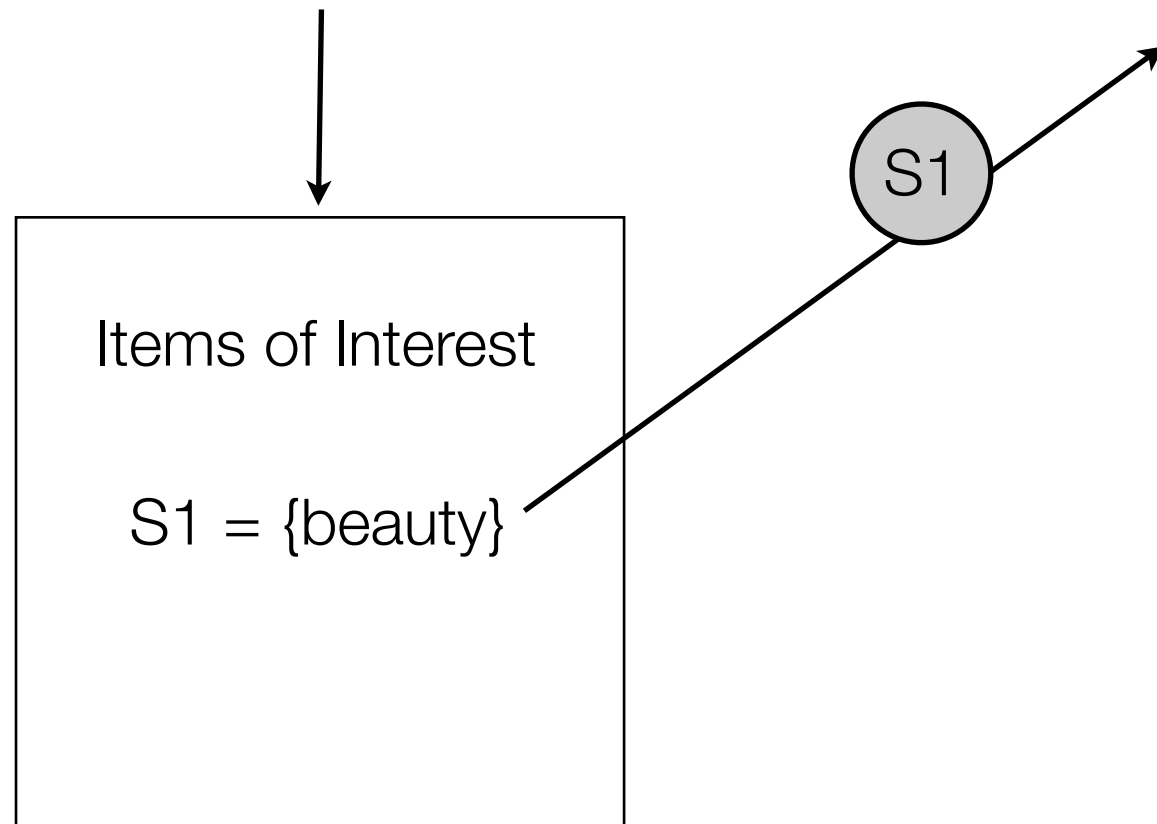
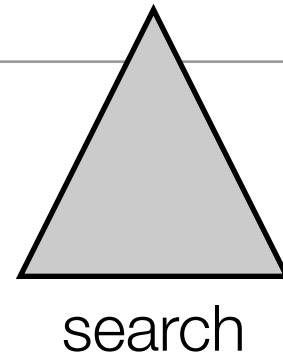
“Beautiful” in Shakespeare



Identify items of interest and analyze
them

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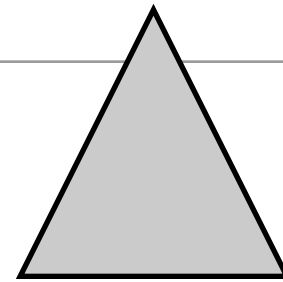
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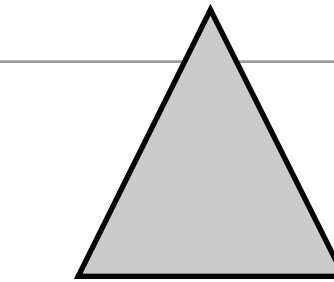
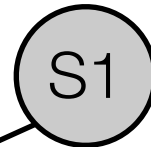


Items of Interest

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search

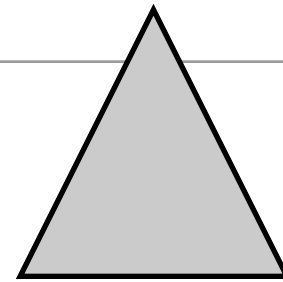
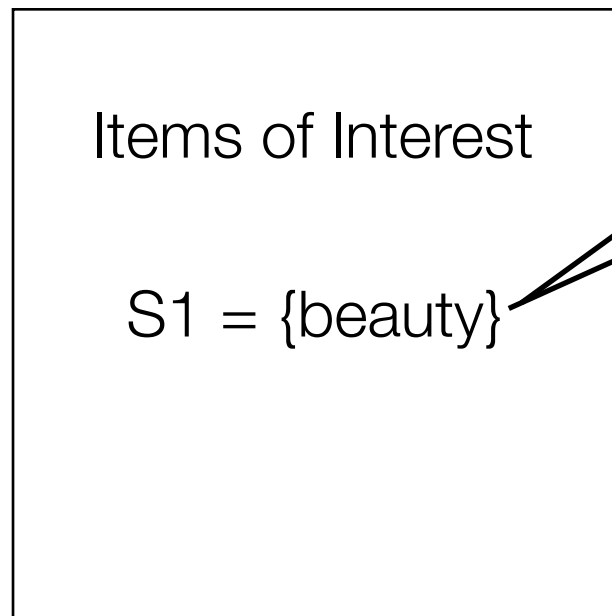


related words

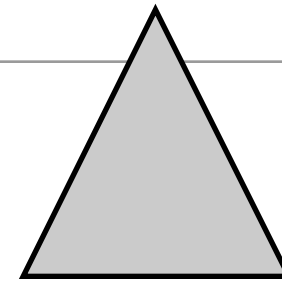
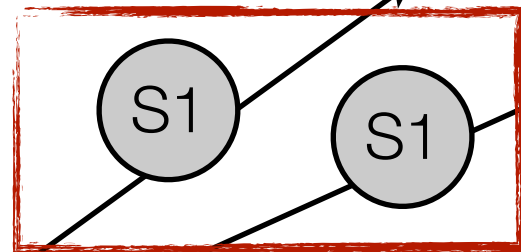
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search

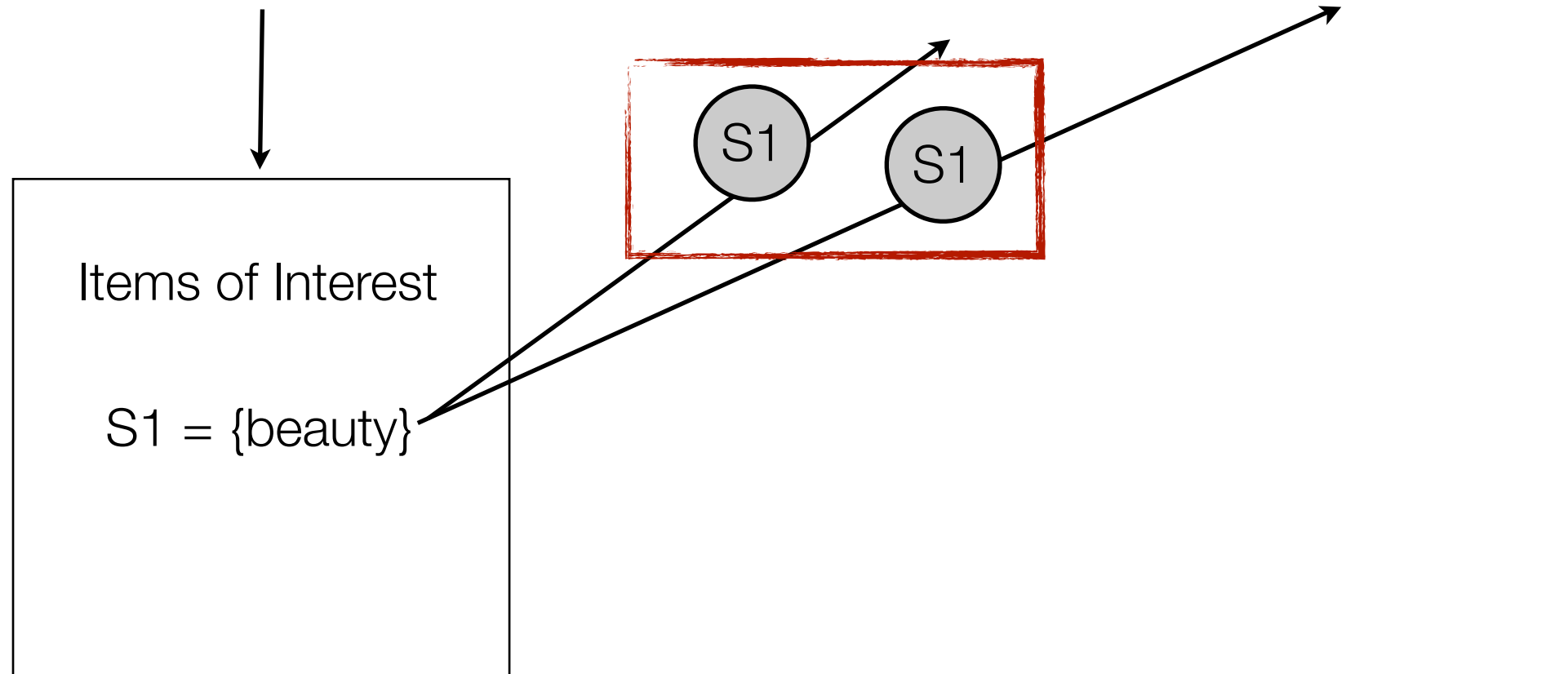


related words

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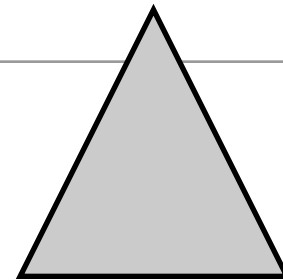
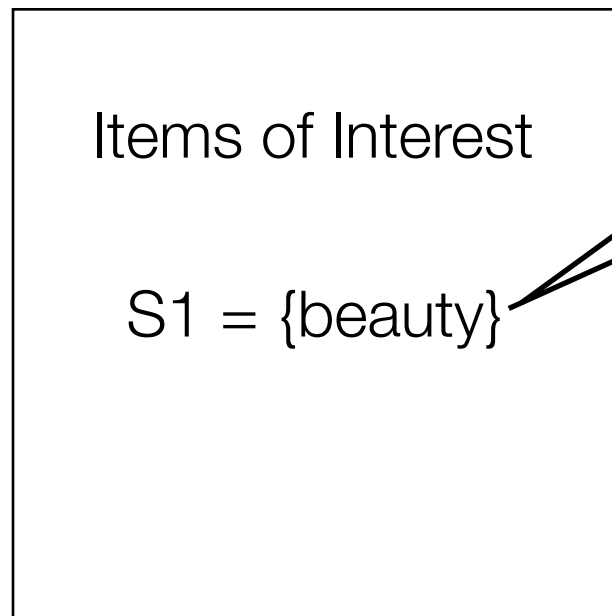


Identify items of interest and analyze
them

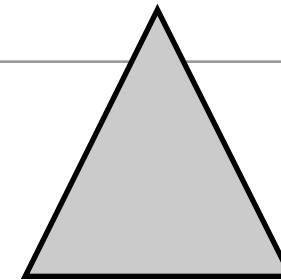
Look at different views of the same items --
search, exploration, visualization

“Beautiful” in Shakespeare

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search



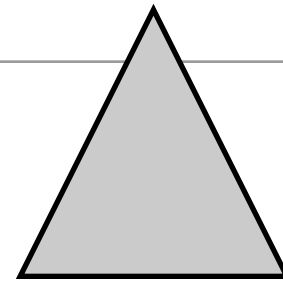
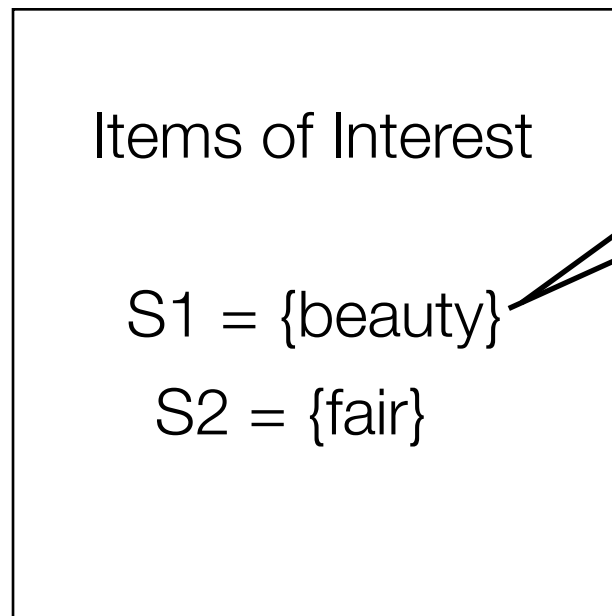
related words

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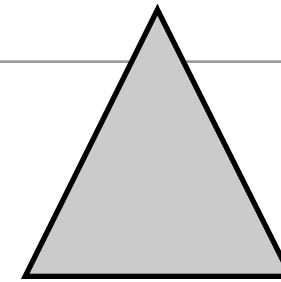
Look at different views of the same items --
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“Beautiful” in Shakespeare

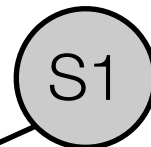
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related words



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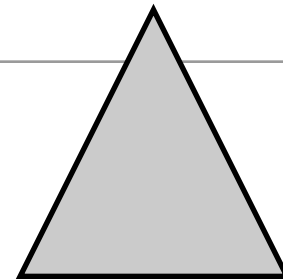


Items of Interest

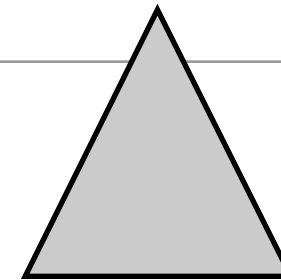
S1 = {beauty}

S2 = {fair}

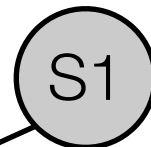
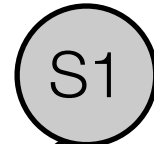
S3 = {sweet}



search



related words

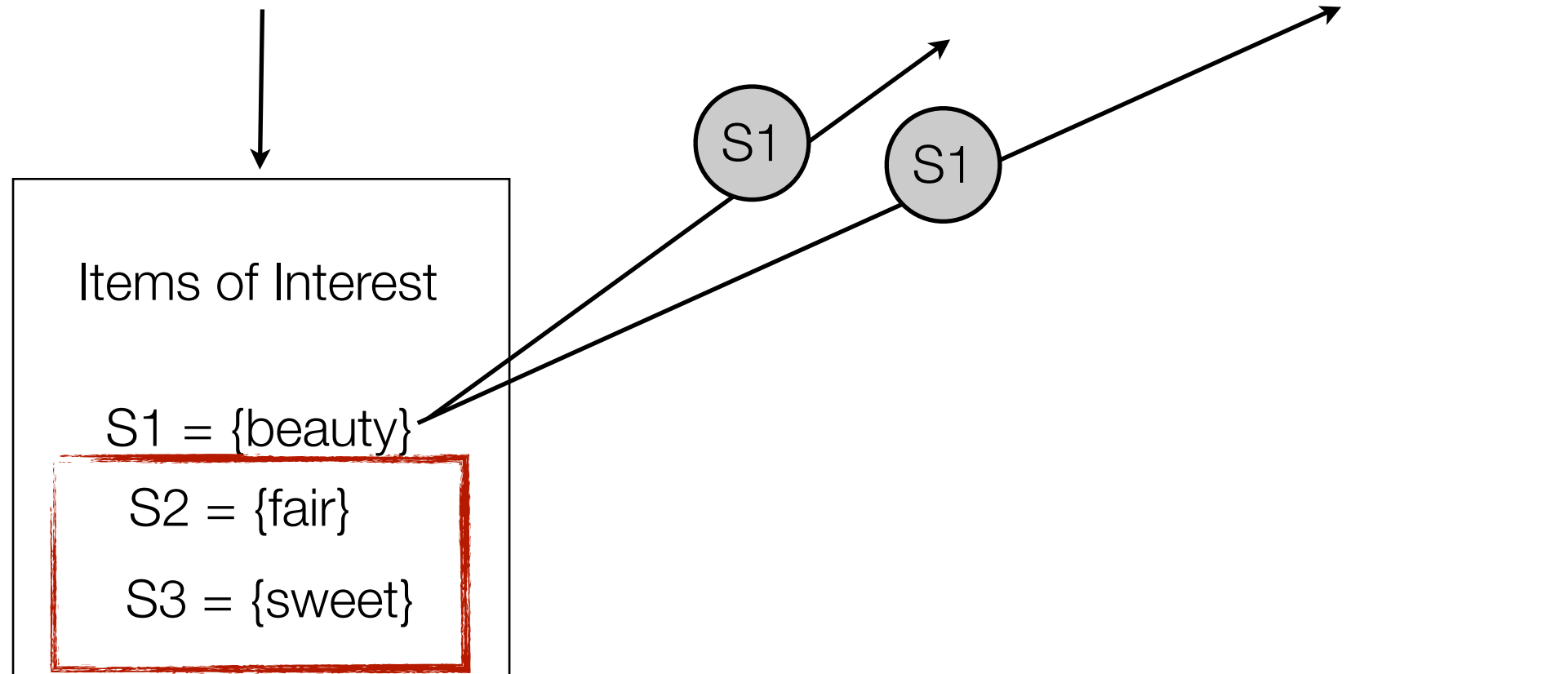


Identify items of interest and analyze
them

Look at different views of the same items --
search, exploration, visualization

“Beautiful” in Shakespeare

What words are
used to describe
female beauty?

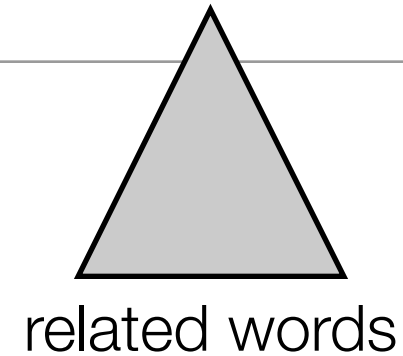
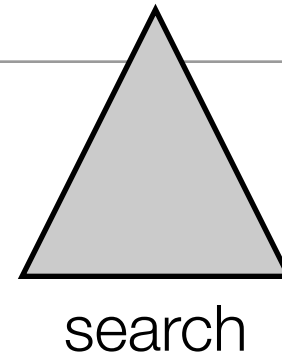
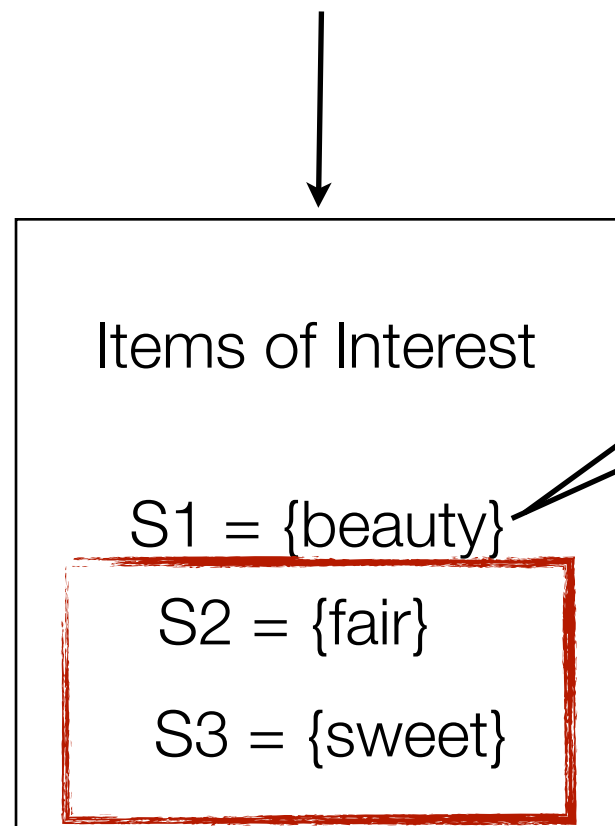


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“Beautiful” in Shakespeare

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S1

S1

Identify items of interest and analyze
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Update a set of interesting items while
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Look at different views of the same items --
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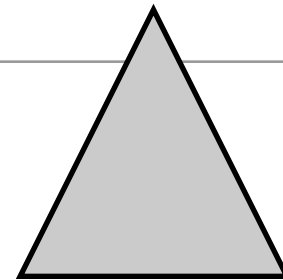


Items of Interest

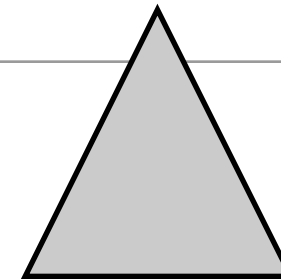
S1 = {beauty}

S2 = {fair}

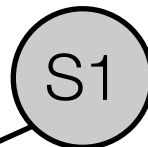
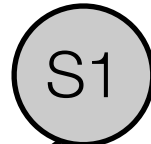
S3 = {sweet}



search



related words



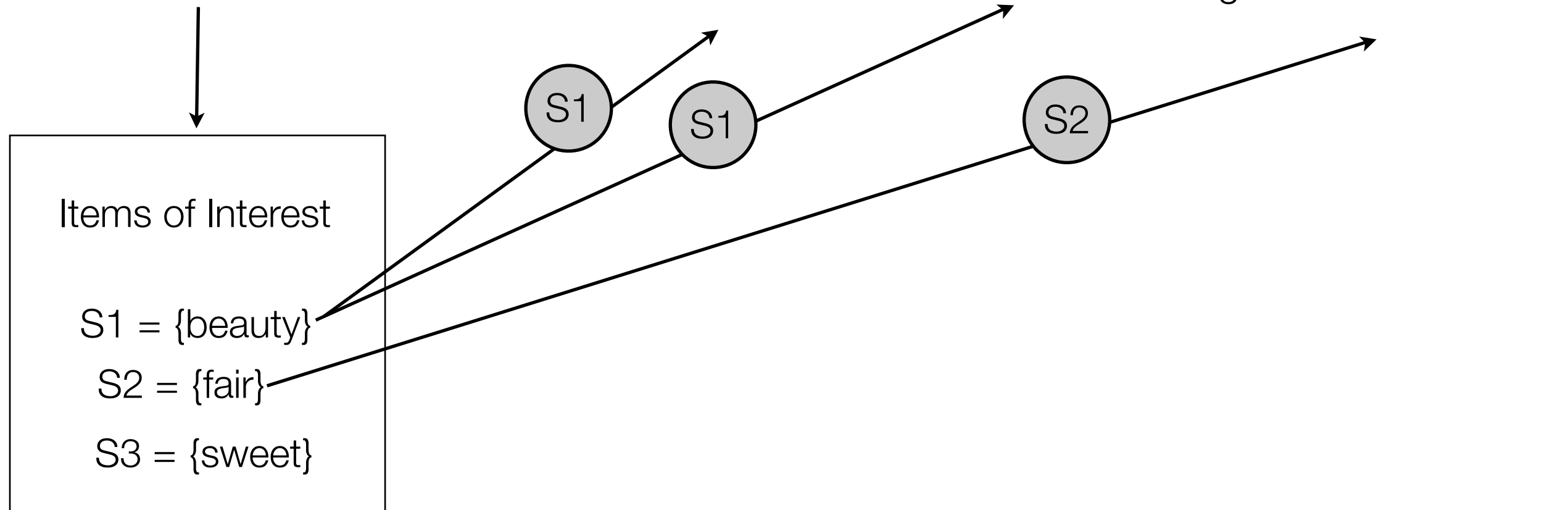
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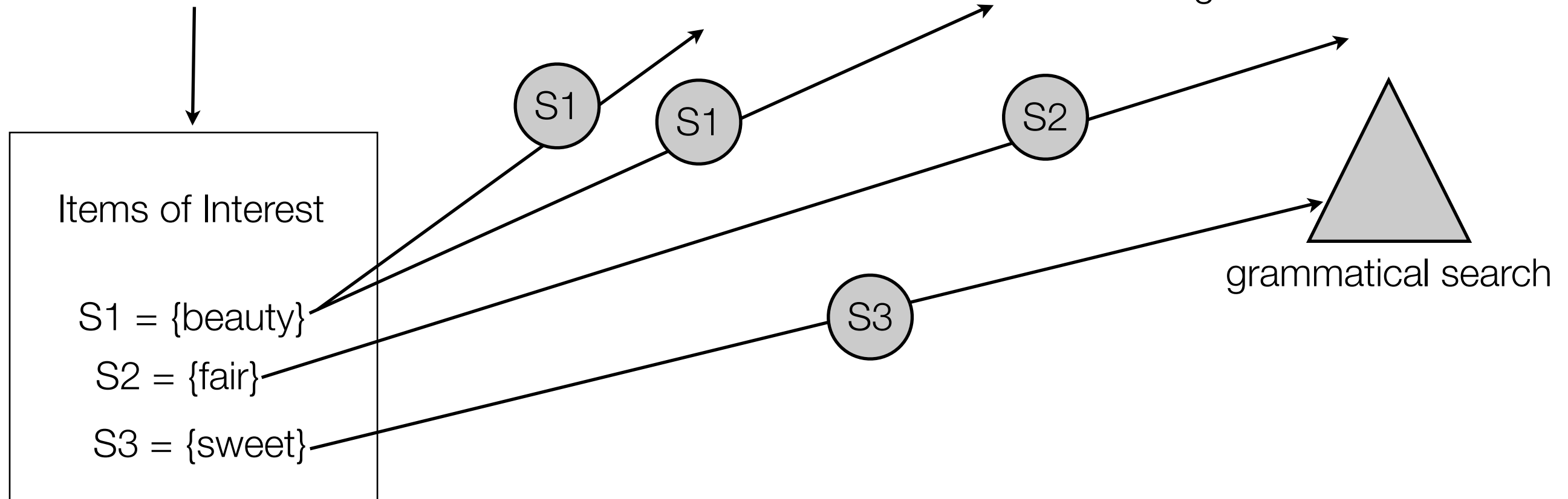
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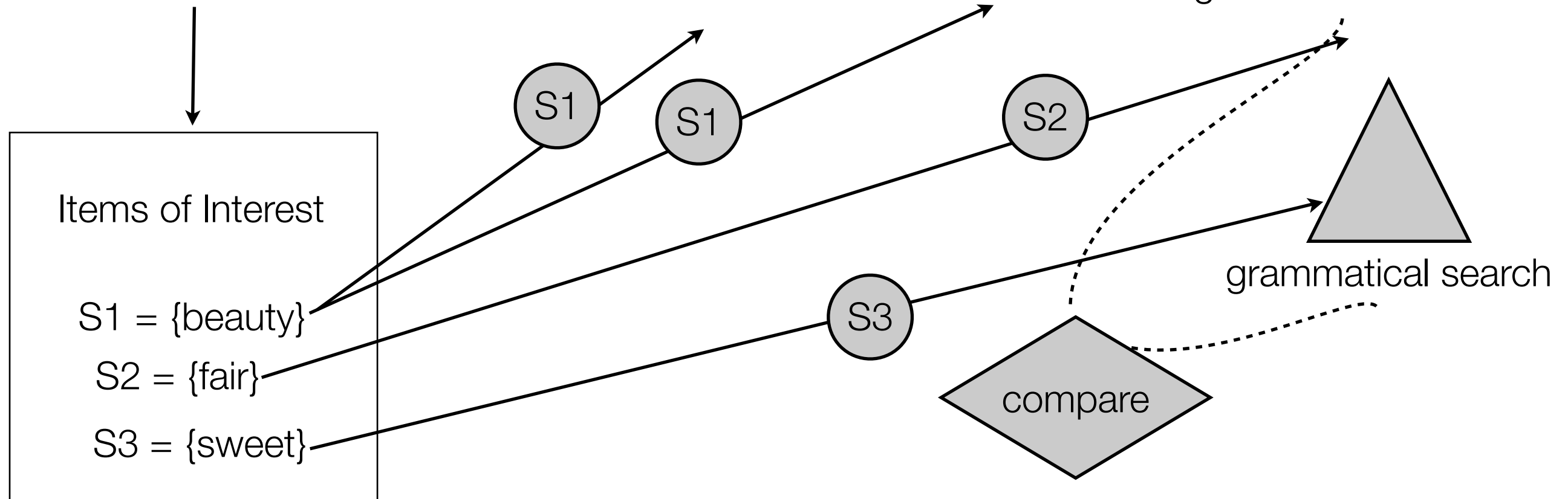
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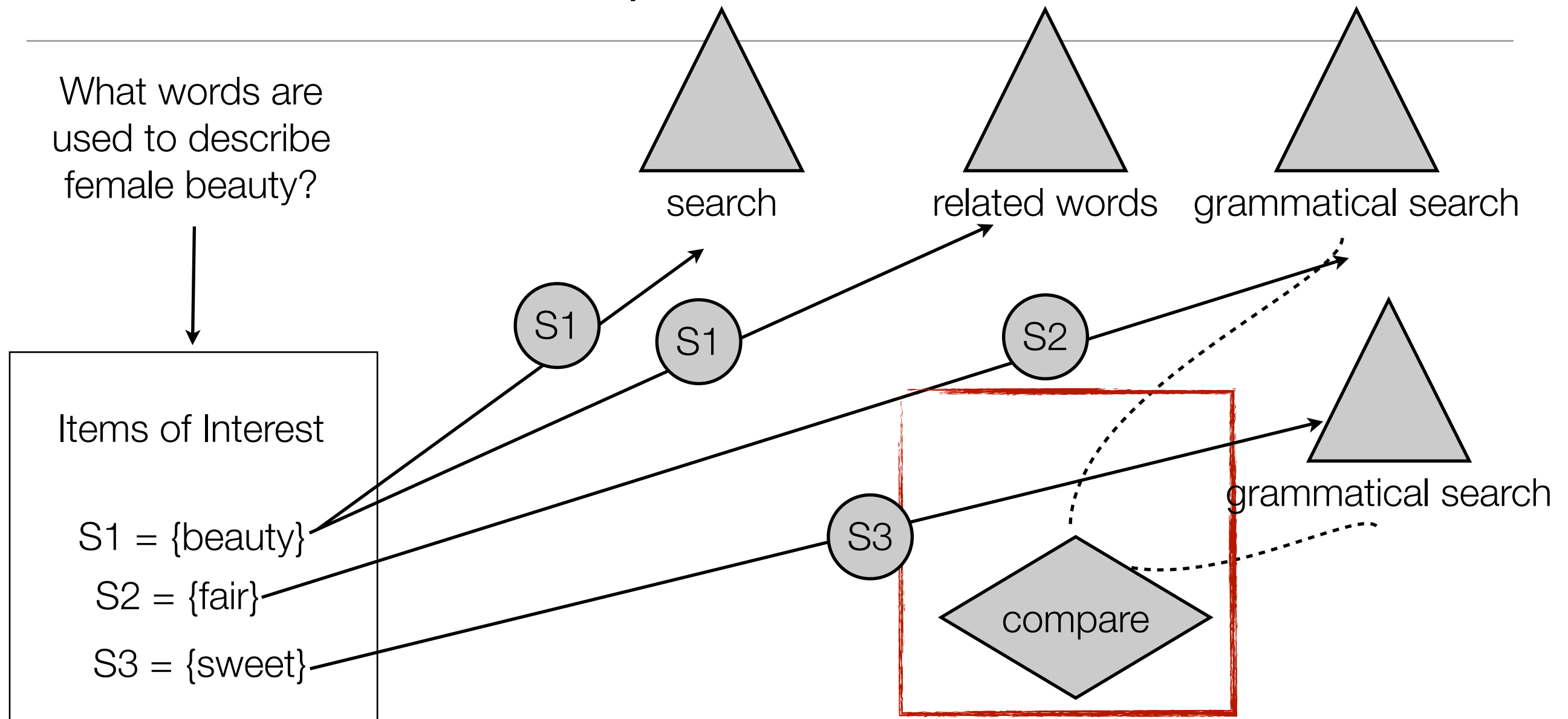
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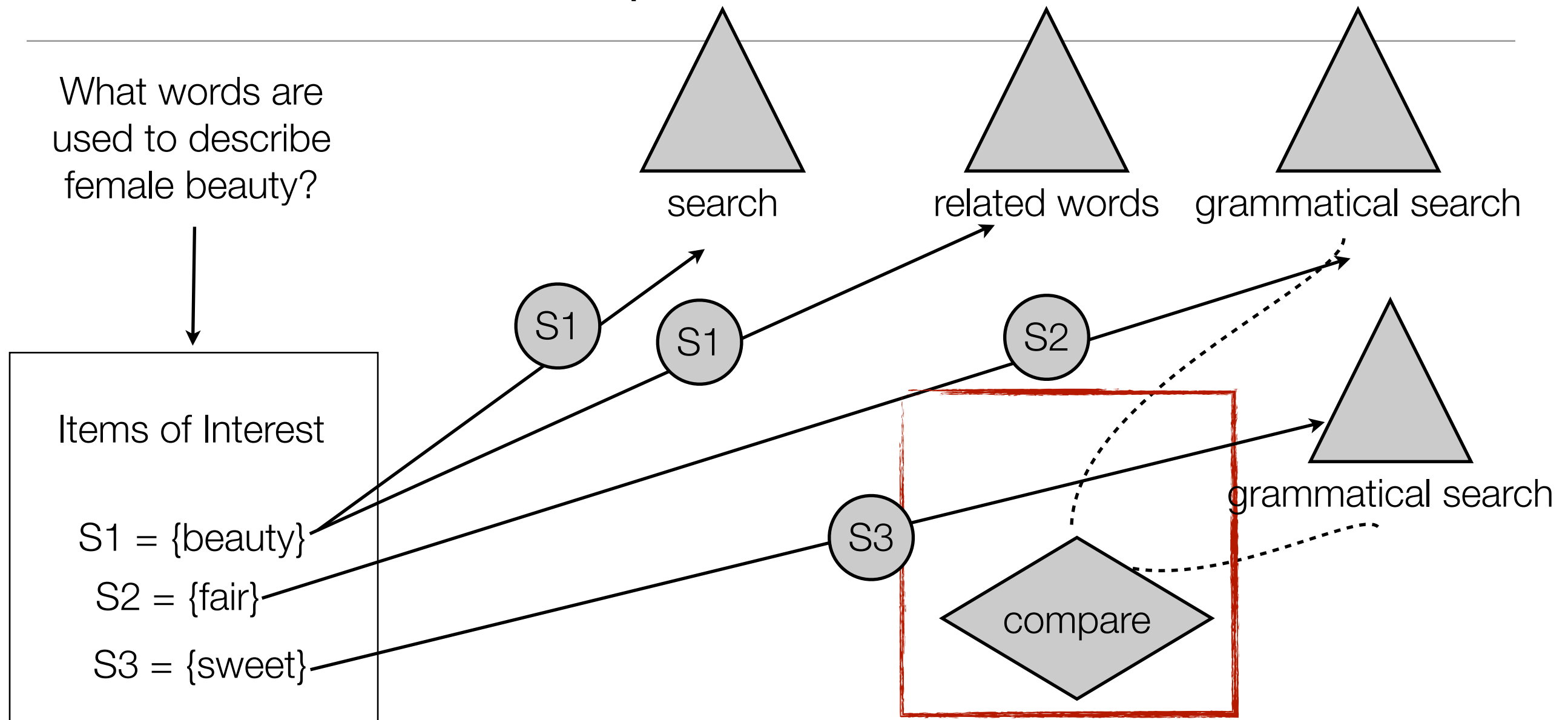
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Identify items of interest and analyze
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Update a set of interesting items while
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Look at different views of the same items --
search, exploration, visualization

Compare two or more different views

Love in the comedies and tragedies

Love in the comedies and tragedies

Is the concept of love
treated the same way in the
comedies and the
tragedies?

Love in the comedies and tragedies

Is the concept of love
treated the same way in the
comedies and the
tragedies?



Items of Interest

$S1 = \{\text{love}\}$

$S2 = [\text{comedies}]$

$S3 = [\text{tragedies}]$

Love in the comedies and tragedies

Is the concept of love
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comedies and the
tragedies?



Items of Interest

$S1 = \{\text{love}\}$

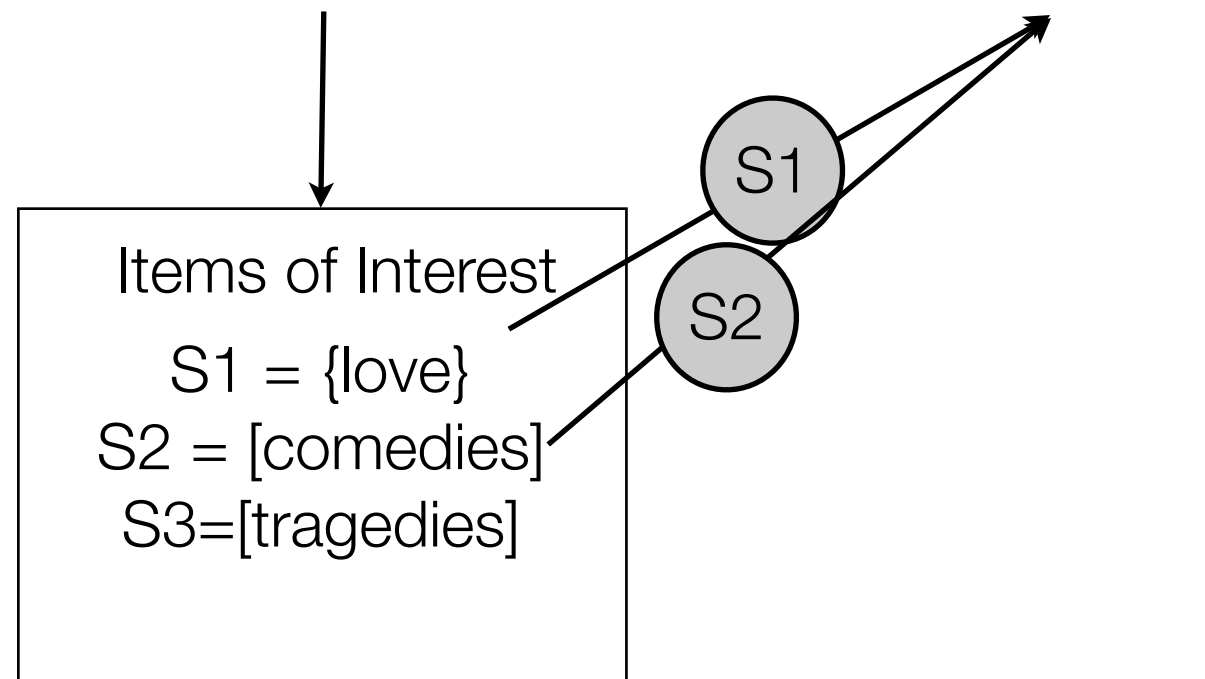
$S2 = [\text{comedies}]$

$S3 = [\text{tragedies}]$

Identify items of interest and analyze
them

Love in the comedies and tragedies

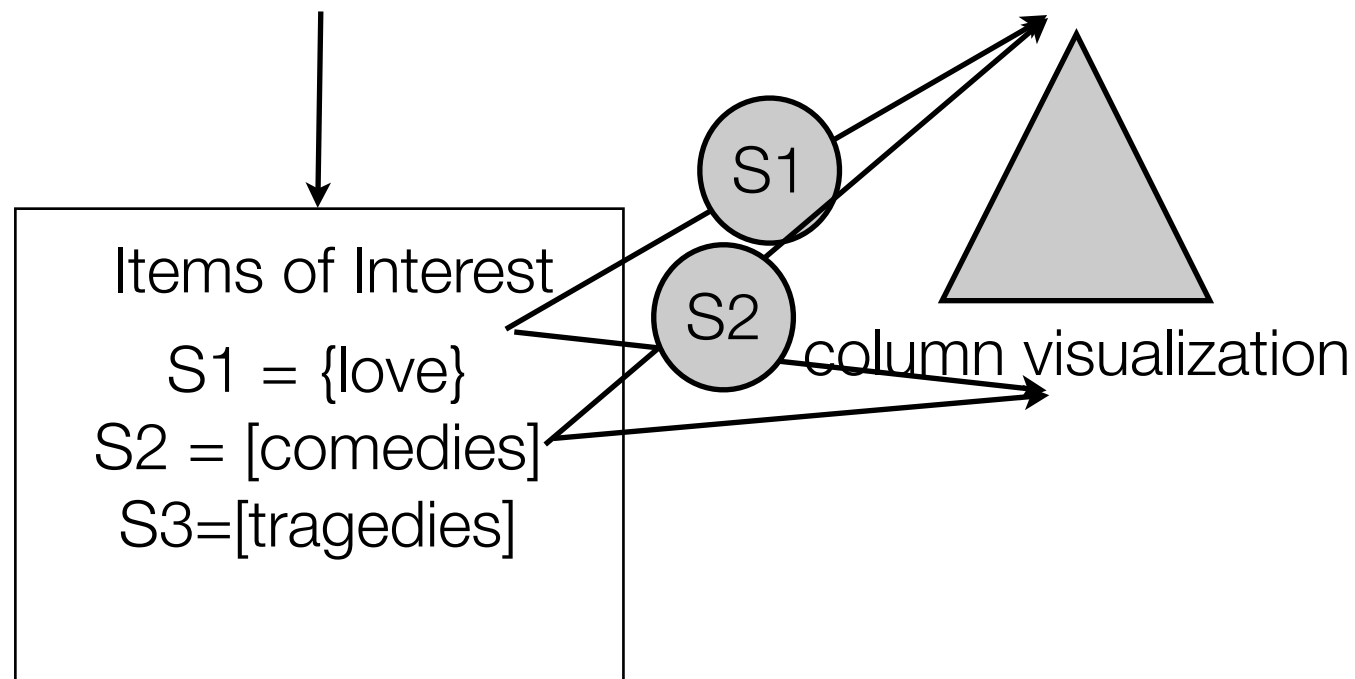
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Identify items of interest and analyze
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Love in the comedies and tragedies

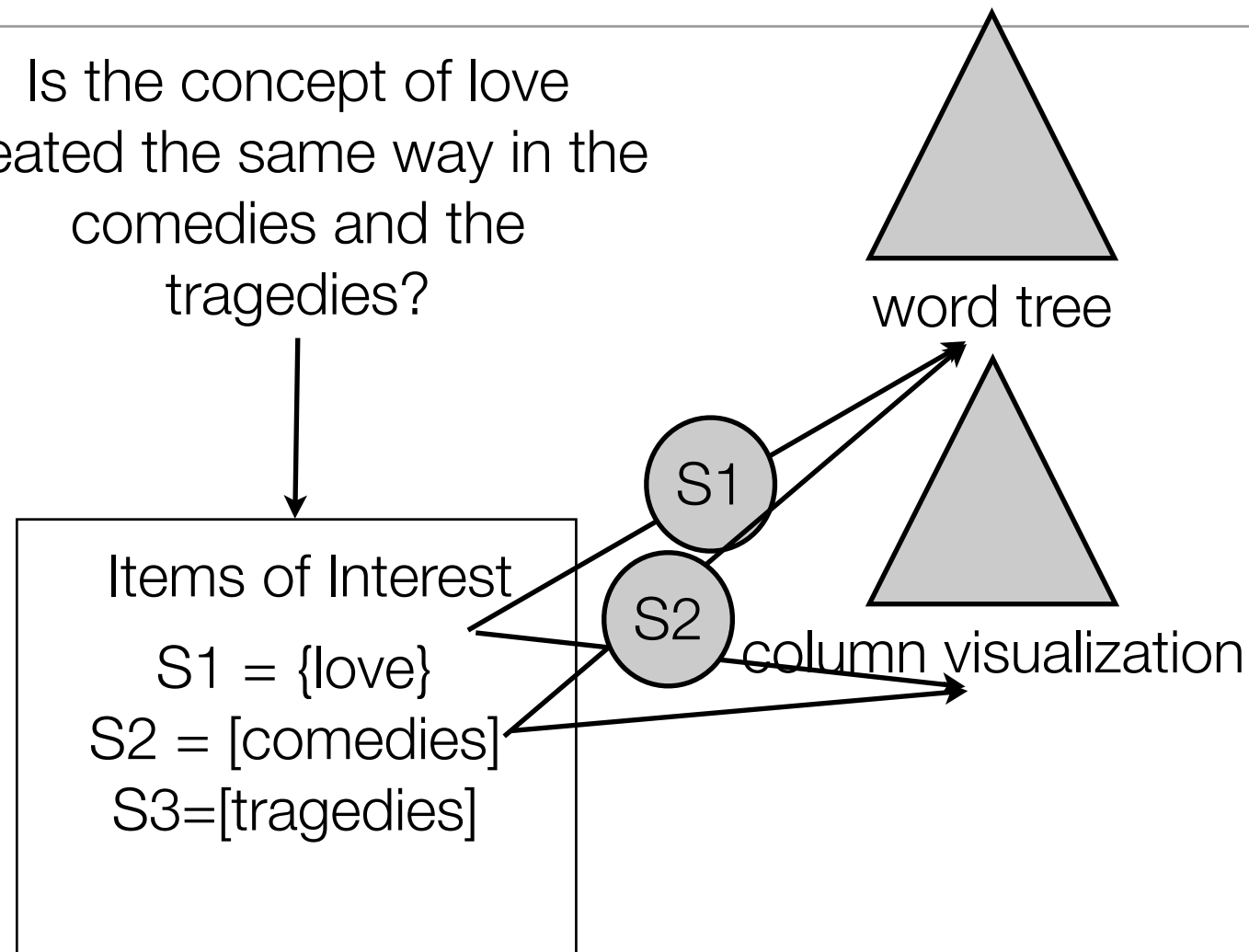
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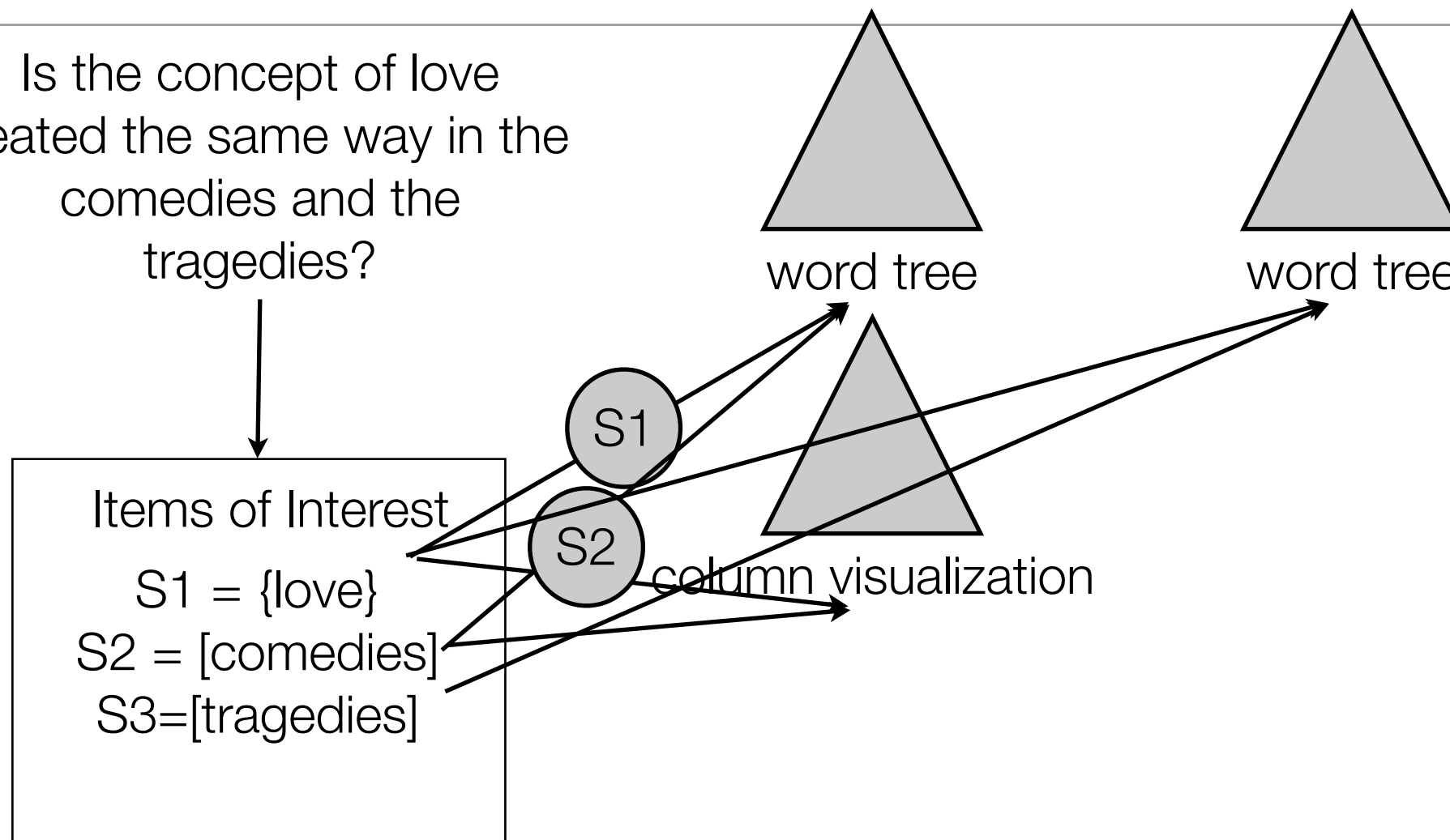


Identify items of interest and analyze
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Look at different views of the same items --
search, exploration, visualization

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Is the concept of love
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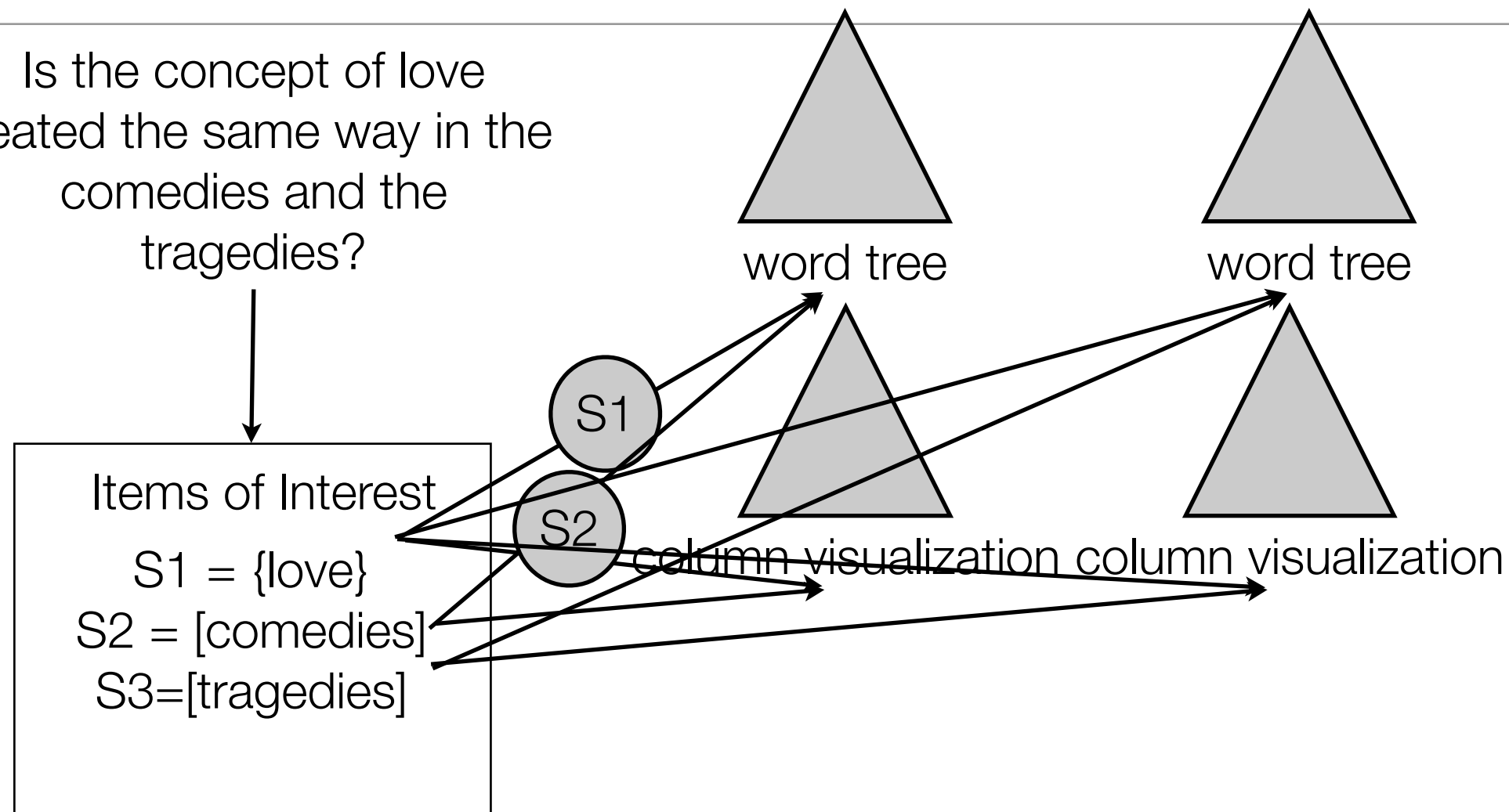


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Look at different views of the same items --
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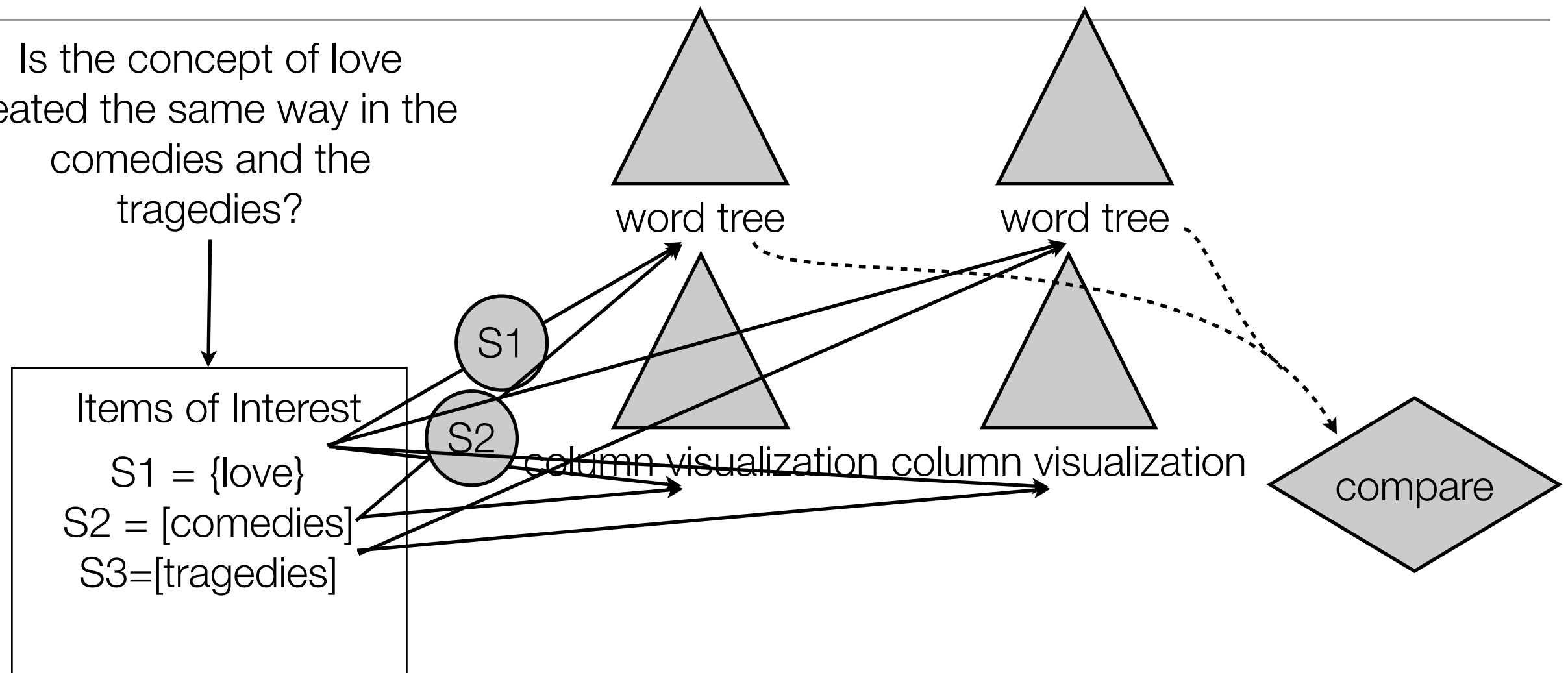


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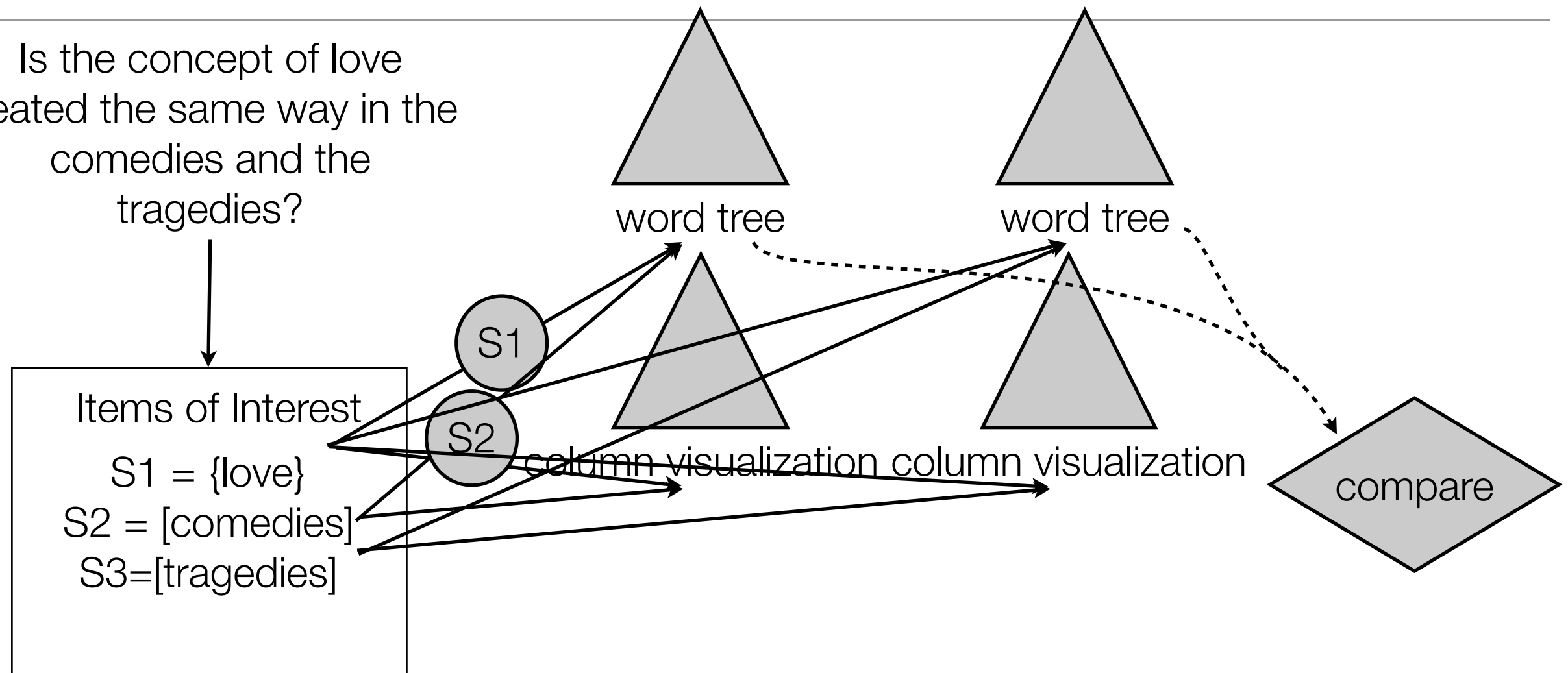


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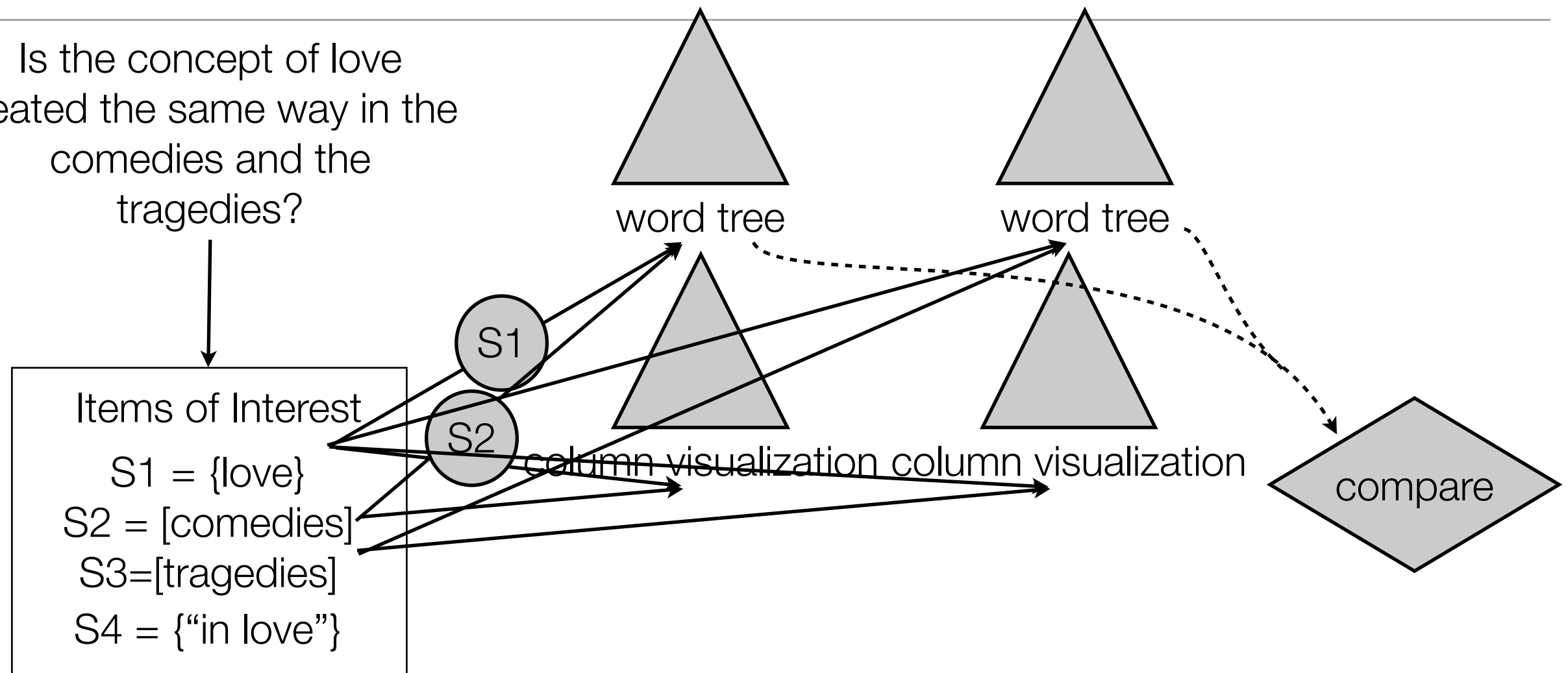
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Look at different views of the same items --
search, exploration, visualization

Compare two or more different views

Love in the comedies and tragedies

Is the concept of love
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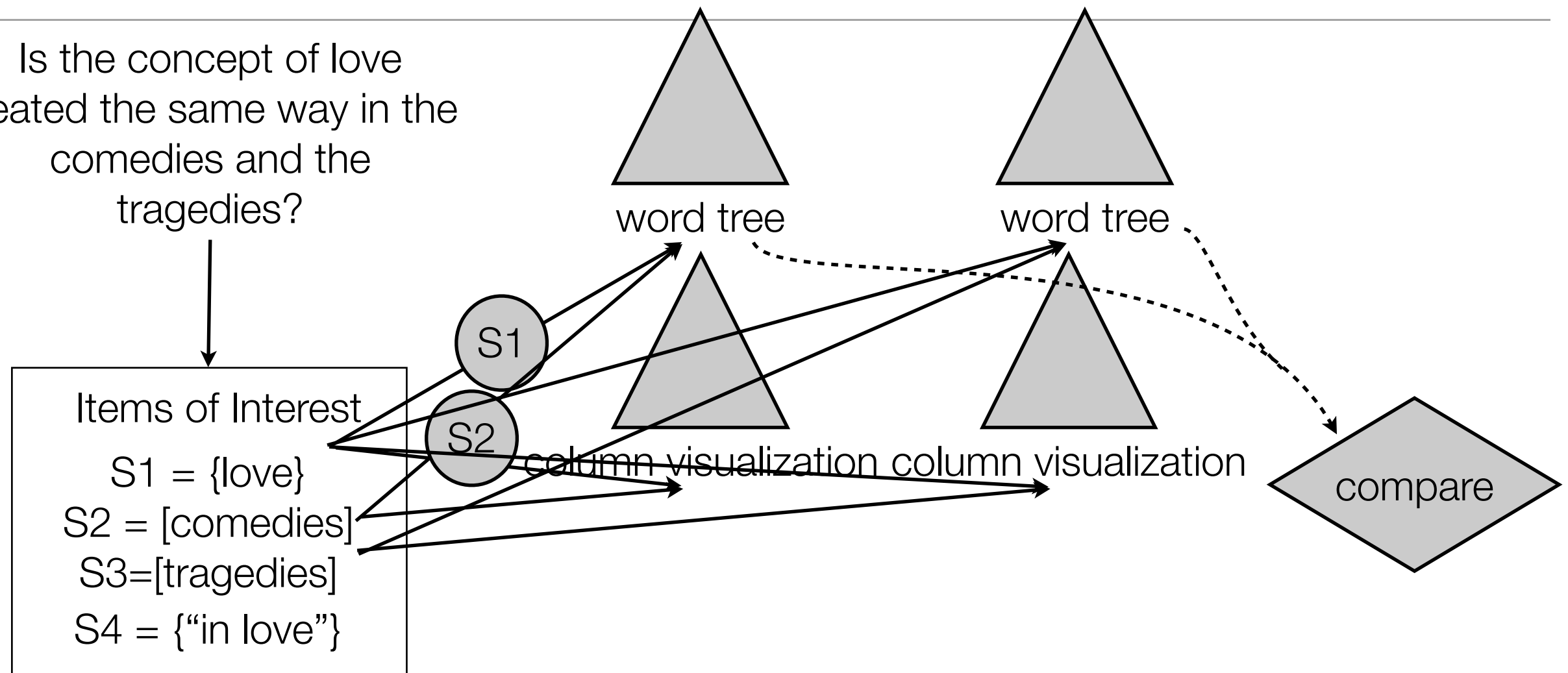
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Identify items of interest and analyze
them

Update a set of interesting items while
looking at a view

Look at different views of the same items --
search, exploration, visualization

Compare two or more different views

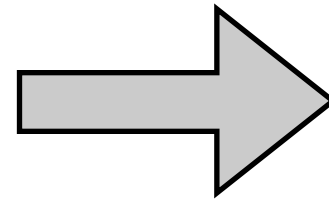
Design Implications

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Identify items of interest and analyze
them

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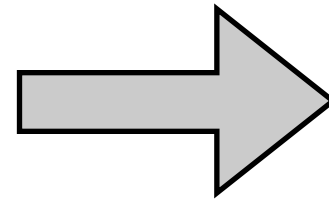


combine searches and filters in many different ways

a sense of the contents of any sub-collection

Design Implications

Identify items of interest and analyze them



combine searches and filters in many different ways

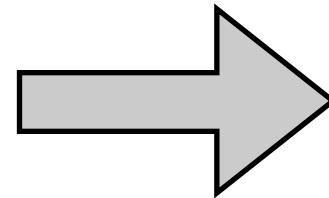
Compare two or more different views

a sense of the contents of any sub-collection

Look at different views of the same items--
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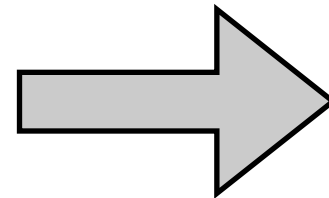
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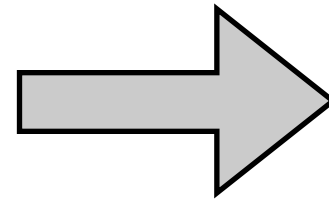
a sense of the contents of any sub-collection

Look at different views of the same items--
search, exploration, visualization

see and use multiple tools at once

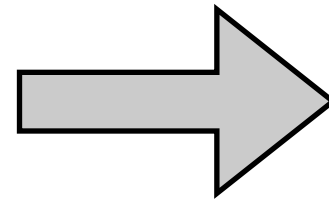
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Identify items of interest and analyze them



combine searches and filters in many different ways

Compare two or more different views



a sense of the contents of any sub-collection

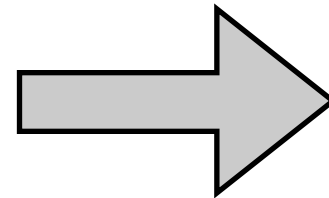
Look at different views of the same items--
search, exploration, visualization

see and use multiple tools at once

Update a set of interesting items while
looking at a view

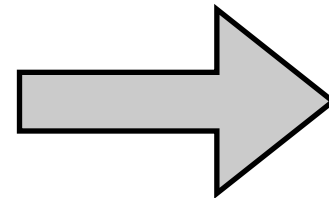
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Identify items of interest and analyze them



combine searches and filters in many different ways

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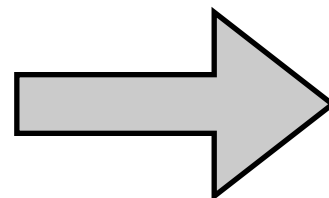


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Look at different views of the same items--
search, exploration, visualization

see and use multiple tools at once

Update a set of interesting items while looking at a view

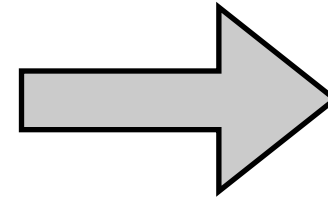


collect and update interesting items, especially “from” views

use collected items as query parameters

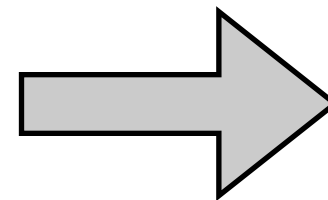
WordSeer 3

Identify items of interest and analyze them



combine searches and filters in many different ways

Compare two or more different views

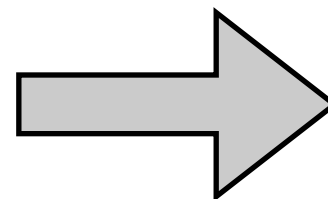


a sense of the contents of any sub-collection

Look at different views of the same items-- search, exploration, visualization

see and use multiple tools at once

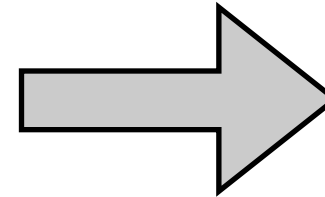
Update a set of interesting items while looking at a view



collect and update interesting items, especially “from” views

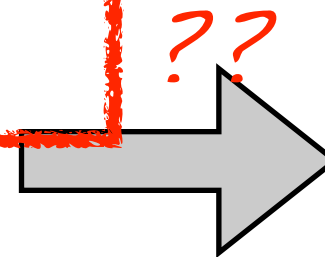
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Identify items of interest and analyze them



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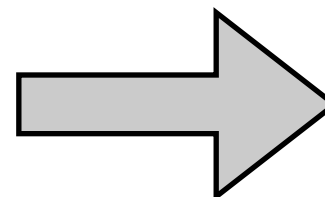


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Update a set of interesting items while looking at a view



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English 203 Posts

Frequent Words

PHRASES

digital humanities (494) act 3 (112) digital tools (80)
act 4 (67) act 1 (52) read text (47) search word (47)
english 203 (42) fifth act (38) word frequencies (34)
list words (33) act v (32) blog posts (31) tool help (31)
group members (30) word tree (29) using digital (24)
words used (24) act hamlet (24) act 3.4 (23)

NOUNS

word (950) text (511) tool (426) result (338) act (304)
play (273) analysis (272) group (259) phase (192) time (309)
scene (187) blog (185) shakespeare (182) post (181)
way (174) tapor (159) character (252) program (140)
monk (135) something (133)

VERBS

use (468) see (197) find (321) look (215) get (109)
analyze (167) go (101) know (99) make (95) read (95)
help (91) work (149) compare (83) decide (83)
seem (74) try (73) understand (70) take (69) come (69)

ADJECTIVES

digital (368) other (343) new (189) more (185) able (184)
such (182) first (170) different (149) own (146) good (138)

Metadata

AUTHOR

kassidybridgeman (7) stephanievandewark (9) kelseyljudd (6)
Carly Ferguson (6) richelleatkin (7) nicolericher (7) allison (6)
april (7) madelynbrakke (7) mattgigg (6) daynaaasen7 (6)
hayleydunmire (6) katebowers (6) kira (6) teresastapor (6)
rarubyalsharaf (7) danethibeault4 (6) nehssa22 (6)
hannahlacoursiere (5) amybroddy (6)

TAG

Phase 3 (24) Uncategorized (31) D: Voyeur (38) B: Tapor (35)
3: Act III (26) E: Monk (29) A: WordHoard (29) 2: Act II (17)
C: WordSeer (31) 1: Act I (18) 4: Act IV (17) 5: Act V (17)
Texts (3) Administration (17) Musings (3)

TIME



Act II (1)

Endless Context: the Future of the Digital Humanities Ringing in the Digital World (1)

Exploring the Traditional (1) One last thing... (1)

English 203 as a Macro-system for Measuring the Impact of Digital Humanities (1)

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English 203 as a Macro-system for Measuring the Impact of Digital Humanities (1)

All Documents
Word Trees

comp
any match
with stemming: ☒ Word Tree
in new tab
Go

Engl

Frequen

PHRASES

digital humanities (494)
act 1 (52)
read text (47)

title: Monk Workbench: Either the most simple or the most complicated tool in the Digital Humanities. (1)

compare (278)

computer (192)

comparison (124)

completely (72)

compare the (53)

compared (50)

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comparison to (46)

compare to (37)

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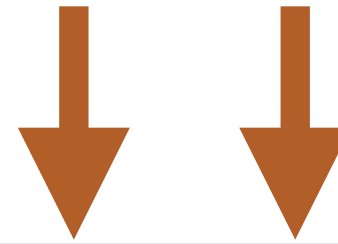
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allison (6)

overviews of the slice's content and metadata

All Documents Word Trees compare any match with stemming: Word Tree in new tab Go test

CO-OCCURRING TERMS FILTERS SETS Word Tree

to switch between different visualizations

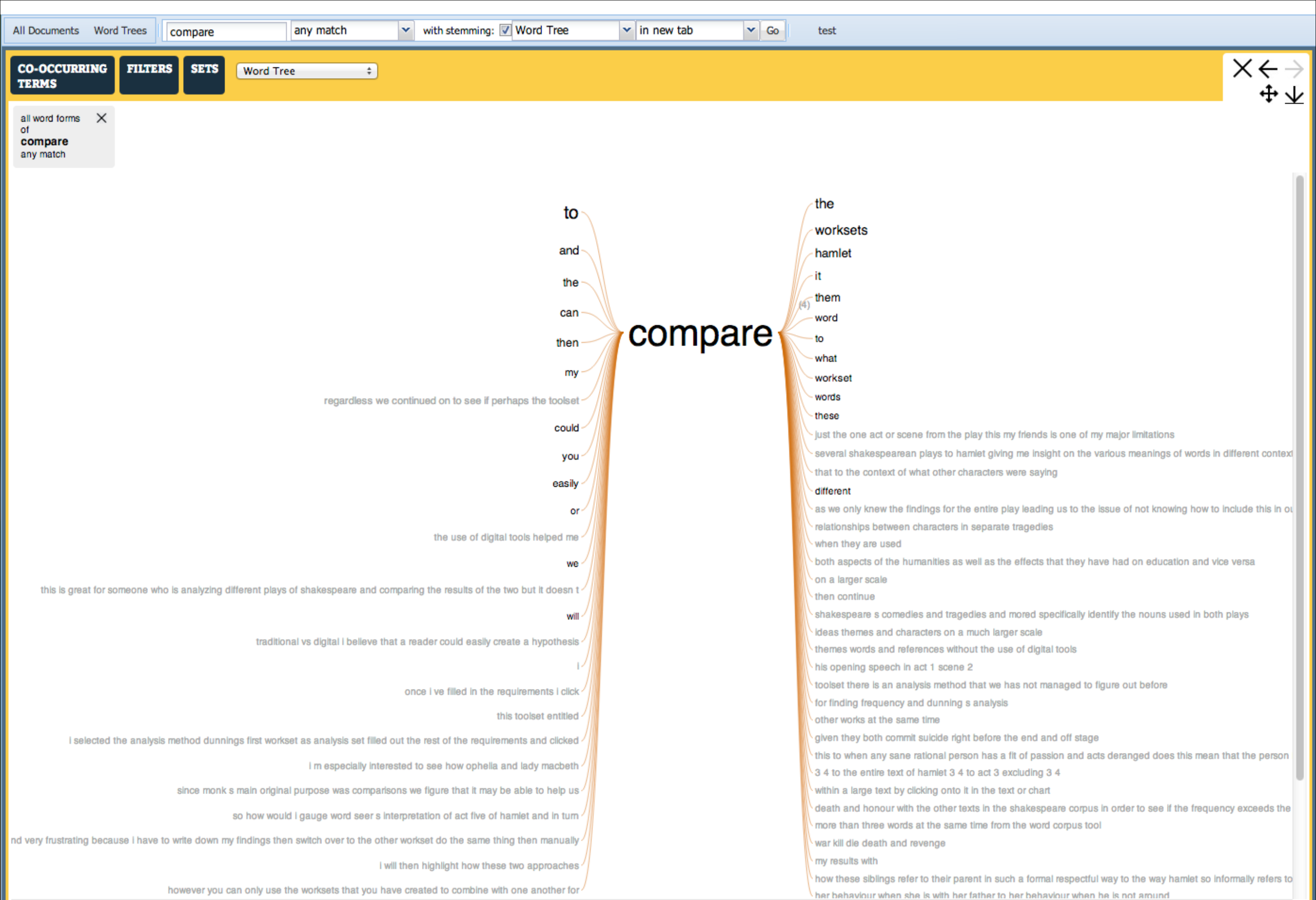
close, back & forward, move, and save

all word forms of compare any match

breadcrumbs defining the current slice

the visualization





all word forms of **compare** any match

NOUNS

Group by stem

Distinctive first

WORD	SENTS	DOCS
hamlet	54	40
word	65	48
act	34	28
shakespeare	23	21
workset	28	16
character	26	23
scene	23	18
play	35	31
tragedy	13	12
text	14	13
monk	14	11
analysis	16	15
order	10	7
frequency	17	12
comparison	9	8
tool	19	15
use	9	8
gertrude	9	9
toolset	6	5

VERBS

Group by stem

Distinctive first

WORD	SENTS	DOCS
compare	177	125
use	51	46
make	11	9
see	13	13
find	20	18
provide	7	5
get	6	6
create	9	8
want	10	9
learn	5	5
seem	8	8
analyze	6	6
look	13	11
speak	7	7
determine	4	3
take	5	5
show	8	7
try	5	5
come	4	4

ADJECTIVES

Group by stem

Distinctive first

WORD	SENTS	DOCS
other	38	32
able	16	13
useful	10	9
same	11	8
different	11	10
such	11	10
larger	5	4
whole	5	5
separate	4	4
more	9	9
shakespearean	4	2
major	4	4
specific	6	6
great	5	3
entire	5	5
most	5	5
traditional	5	3
modern	3	3
better	4	4

PHRASES

Stop words

length 2

Distinctive first

PHRASE	SENTS	DOCS
compare hamlet	9	8
compare worksets	11	7
act 3	11	9
shakespeare tragedies	6	6
able compare	5	5
play compare	5	5
tool compare	5	5
word frequencies	5	5
hamlet compared	4	4
compared words	4	4
words hamlet	4	4
create workset	5	4
shakespeare plays	5	4
scene act	4	4
compared hamlet	3	3
comparing 3.4	3	2
compare words	3	3
use compare	4	3

traditional vs digital i believe that a reader could easily create a hypothesis

once i've filled in the requirements i click

this toolset entitled

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toolset there is an analysis method that we has not managed to figure out before

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other works at the same time

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more than three words at the same time from the word corpus tool

war kill die death and revenge

my results with

how these siblings refer to their parent in such a formal respectful way to the way hamlet so informally refers to

her behaviour when she is with her father to her behaviour when he is not around

all word forms of compare any match

NOUNS

Group by stem Distinctive first

WORD	SENTS	DOCS
hamlet	54	40
word	65	48
	28	
	21	
	16	
	23	
	18	
	31	
	12	
	13	
	11	
	15	
	7	
frequency	17	12
comparison	9	8
tool	19	15
use	9	8
gertrude	9	9
toolset	6	5

- Add to set
- Filter for this word
- Search for this word
- See co-occurring words
- See similar words

VERBS

Group by stem Distinctive first

WORD	SENTS	DOCS
compare	177	125
use	51	46
make	11	9
see	13	13
find	20	18
provide	7	5
get	6	6
create	9	8
want	10	9
learn	5	5
seem	8	8
analyze	6	6
look	13	11
speak	7	7
determine	4	3
take	5	5
show	8	7
try	5	5
come	4	4

ADJECTIVES

Group by stem Distinctive first

WORD	SENTS	DOCS
other	38	32
able	16	13
useful	10	9
same	11	8
different	11	10
such	11	10
larger	5	4
whole	5	5
separate	4	4
more	9	9
shakespearean	4	2
major	4	4
specific	6	6
great	5	3
entire	5	5
most	5	5
traditional	5	3
modern	3	3
better	4	4

PHRASES

Stop words length 2 Distinctive first

PHRASE	SENTS	DOCS
compare hamlet	9	8
compare worksets	11	7
act 3	11	9
shakespeare tragedies	6	6
able compare	5	5
play compare	5	5
tool compare	5	5
word frequencies	5	5
hamlet compared	4	4
compared words	4	4
words hamlet	4	4
create workset	5	4
shakespeare plays	5	4
scene act	4	4
compared hamlet	3	3
comparing 3.4	3	2
compare words	3	3
use compare	4	3

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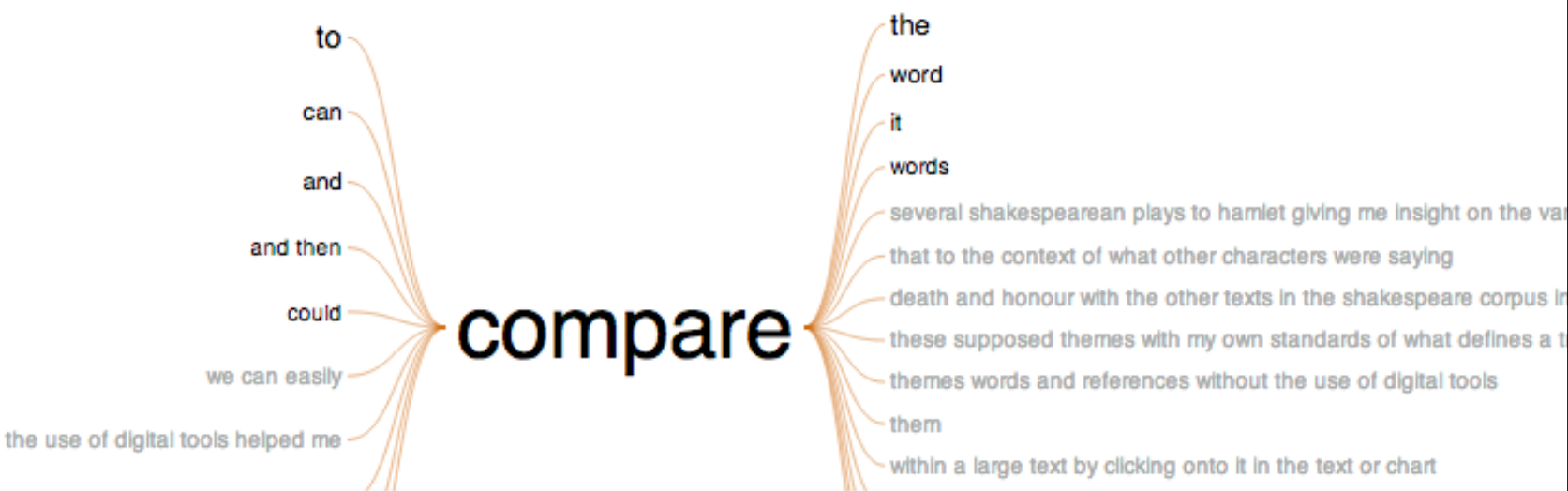
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all word forms of
compare
any match

word

any match



NOUNS

Group by stem ☒ Distinctive first ☒

WORD	SENTS	DOCS
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seer	4	3
lot	4	4
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text	10	9
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workset	3	2

VERBS

Group by stem ☒ Distinctive first ☒

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know	4	3
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appear	2	2
give	2	2
create	2	2
provide	2	2

ADJECTIVES

Group by stem ☒ Distinctive first ☒

WORD	SENTS	DOCS
other	19	17
such	6	5
same	4	4
most	3	3
useful	3	3
more	4	4
specific	3	3
fifth	2	2
shakespearean	2	1
cool	2	2
unique	2	2
frequent	2	2
own	3	3
different	3	3
close	2	2
visual	2	2
certain	2	2
previous	2	2
great	2	2

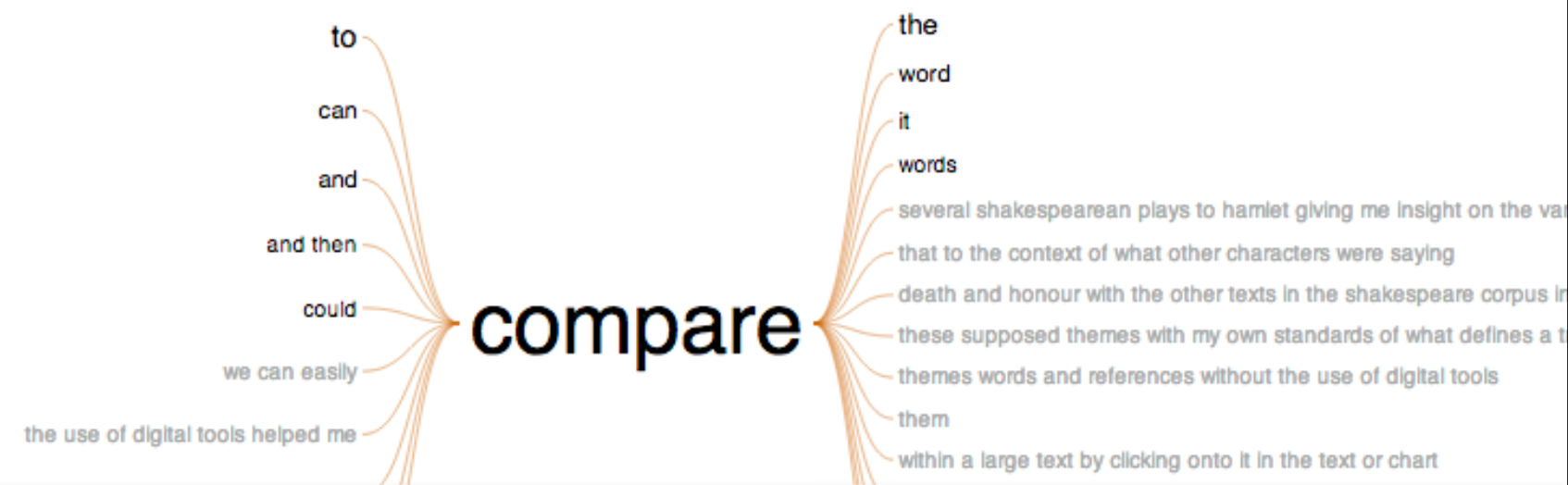
PHRASES

Stop words ☐ length 2 Distinctive first ☒

PHRASE	SENTS	DOCS
word frequencies	5	5
compared words	4	4
words hamlet	4	4
compare words	3	3
shakespeare plays	3	3
words used	3	3
comparing words	2	2
compare	2	1
shakespearean	2	2
characters	2	2
shakespeare	2	2
say compare	2	2
scene compared	2	2
compare three	2	2
compared word	2	2
take find	2	2
find compare	2	2
words between	2	2
word compare	2	2

all word forms of **compare** any match

word any match



NOUNS

Group by stem ☒ Distinctive first ☒

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PHRASES

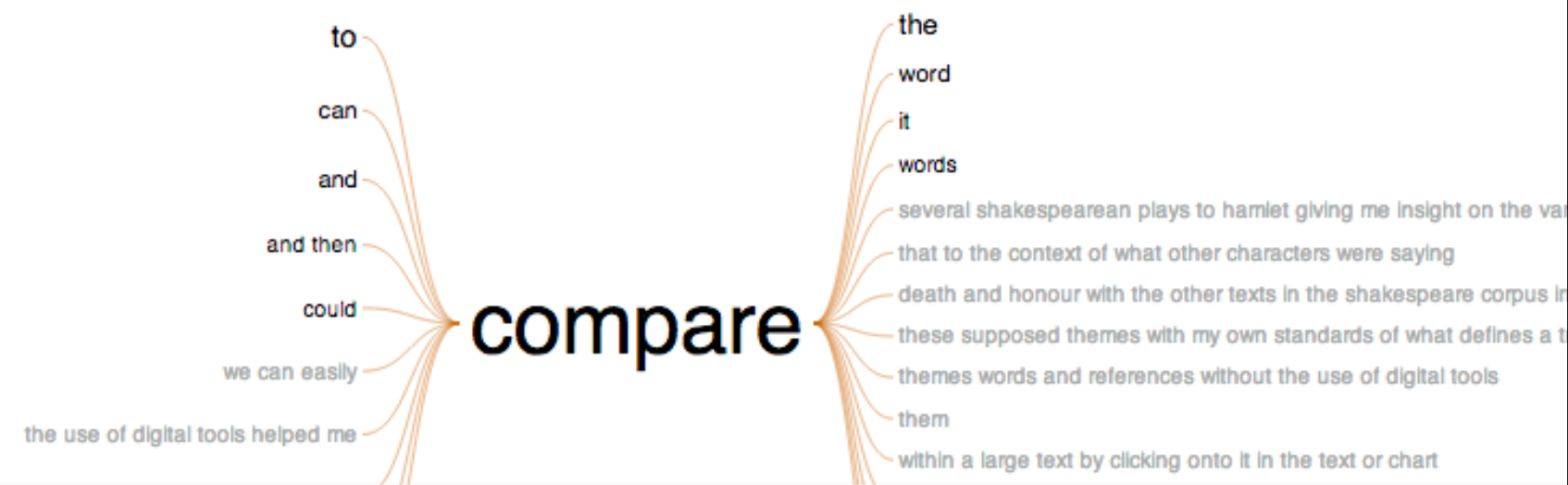
Stop words ☐ length 2 Distinctive first ☒

PHRASE	SENTS	DOCS
word frequencies	5	4
compared words	4	4
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compare words	3	3
shakespeare plays	3	3
words used	3	3
comparing words	2	2
compare	2	1
shakespearean	2	1
characters	2	2
shakespeare	2	2
say compare	2	2
scene compared	2	2
compare three	2	2
compared word	2	2
take find	2	2
find compare	2	2
words between	2	2
word compare	2	2

all word forms of
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NOUNS

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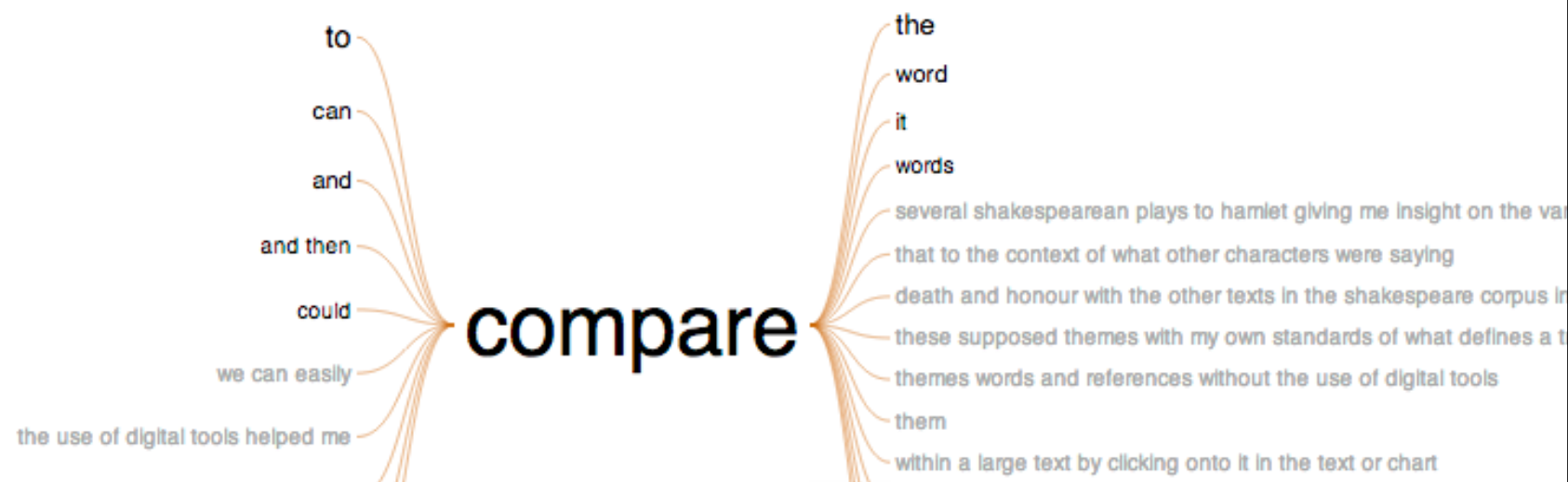
PHRASES

Stop words ☐ length 2 Distinctive first ☒

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word frequencies	5	4
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words hamlet	4	4
compare words	3	3
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all word forms of
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NOUNS ⬇

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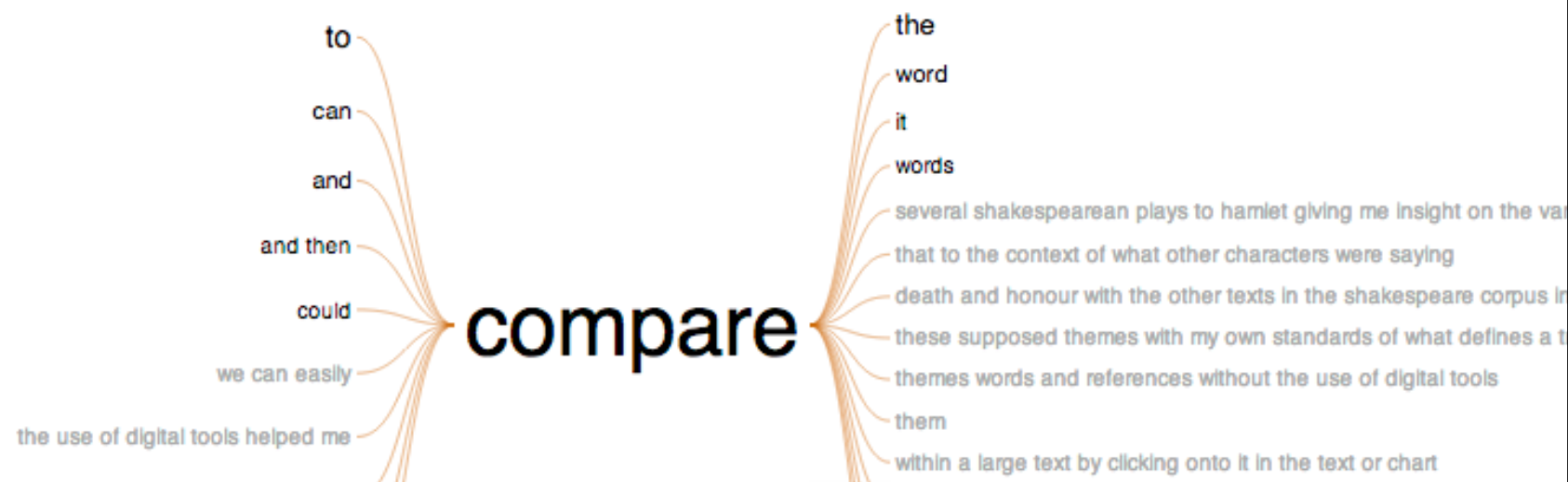
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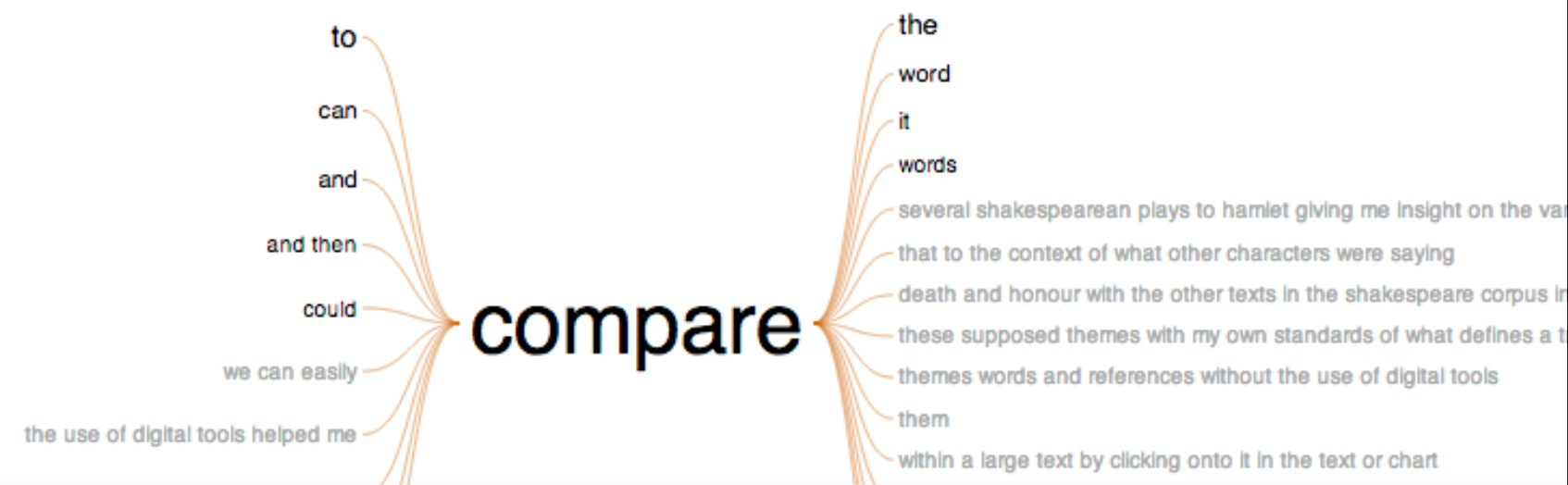
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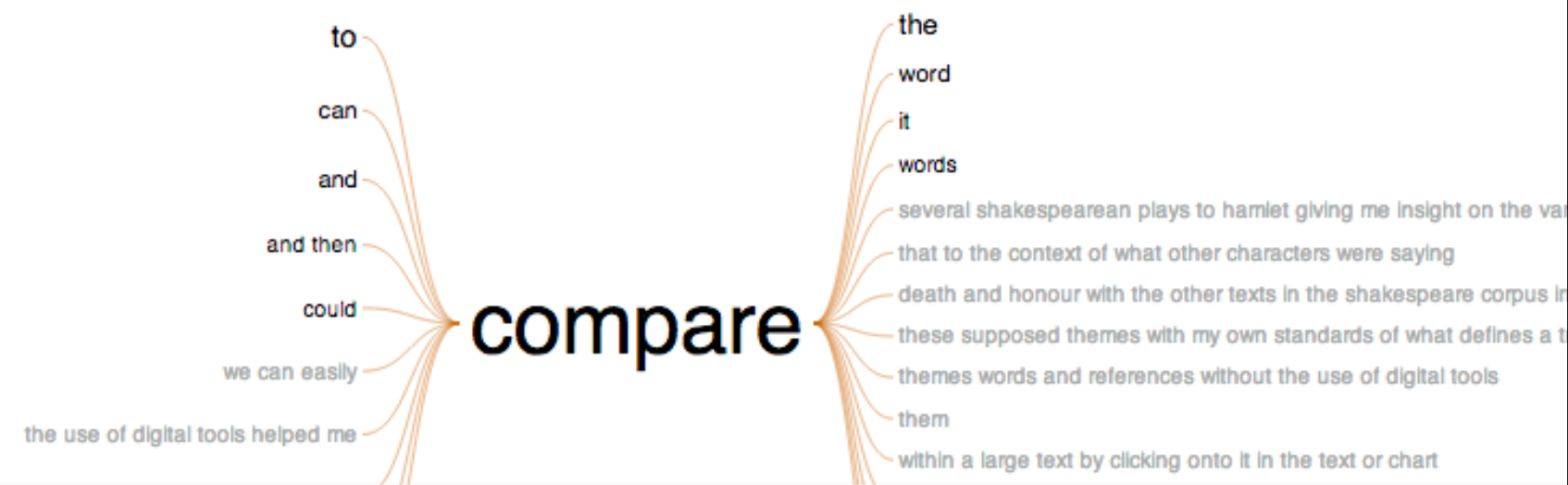
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shakespeare	2	2
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compared word	2	2
take find	2	2
find compare	2	2
words between	2	2
word compare	2	2



all word forms of **compare** any match



All Documents
Word Trees

☐ with stemming:

CO-OCCURRING TERMS
FILTERS
SETS
Word Tree

all word forms of **compare** any match

+ Author (21)

CATEGORY	SENTENCES	DOCUMENTS
april	19	5
hayleydunmire	15	4
katebowers	14	5
rarubyalsharaf	13	7
kelseyijudd	13	5
nehsa22	12	4
hannahlacoursiere	12	5
Carly Ferguson	11	5

+ Tag (12)

CATEGORY	SENTENCES	DOCUMENTS
E: Monk	67	21
Uncategorized	46	18
D: Voyeur	32	15
Phase 3	30	17
3: Act III	27	12
A: WordHoard	27	14
C: WordSeer	22	13
2: Act II	10	8

this is great for s

- Title (82)

CATEGORY	SENTENCES	DOCUMENTS
MONK's 'pranks' too broad		

to
and
the
can
then
my
see if perhaps the toolset
could
you
easily
or
of digital tools helped me
we
s of the two but it doesn't
will
easily create a hypothesis
I
once i've filled in the requirements i click
this toolset entitled
i selected the analysis method dunnings first workset as analysis set filled out the rest of the requirements and clicked
i'm especially interested to see how ophelia and lady macbeth
since monk's main original purpose was comparisons we figure that it may be able to help us
so how would i gauge word seer's interpretation of act five of hamlet and in turn
and very frustrating because i have to write down my findings then switch over to the other workset do the same thing then manually
i will then highlight how these two approaches
however you can only use the worksets that you have created to combine with one another for

compare

the
worksets
hamlet
it
(4) them
word
to
what
workset
words
these
just the one act or scene from the play this my friends is one of my major limitations
several shakespearean plays to hamlet giving me insight on the various meanings of words in different contexts
that to the context of what other characters were saying
different
as we only knew the findings for the entire play leading us to the issue of not knowing how to include this in our
relationships between characters in separate tragedies
when they are used
both aspects of the humanities as well as the effects that they have had on education and vice versa
on a larger scale
then continue
shakespeare's comedies and tragedies and more specifically identify the nouns used in both plays
ideas themes and characters on a much larger scale
themes words and references without the use of digital tools
his opening speech in act 1 scene 2
toolset there is an analysis method that we have not managed to figure out before
for finding frequency and dunnings's analysis
other works at the same time
given they both commit suicide right before the end and off stage
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war kill die death and revenge
my results with
how these siblings refer to their parent in such a formal respectful way to the way hamlet so informally refers to
her behaviour when she is with her father to her behaviour when he is not around

wordseer.berkeley.edu 60

FILTERS

SETS

Word Tree

+ Author (21)

CATEGORY	SENTENCES ▼	DOCUMENTS
april	19	5
hayleydunmire	15	4
katebowers	14	5
rarubyalsharaf	13	7
kelseyjudd	13	5
nehsa22	12	4
hannahlacoursiere	12	5
Cash Ferguson	11	5

+ Tag (12)

CATEGORY	SENTENCES ▼	DOCUMENTS
E: Monk	67	21
Uncategorized	46	18
D: Voyeur	32	15
Phase 3	30	17
3: Act III	27	12
A: WordHoard	27	14
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Title (82)

CATEGORY SENTENCES ▼ DOCUMENTS

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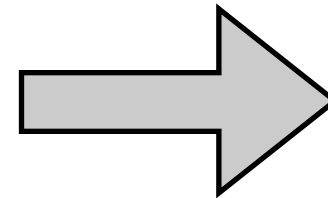
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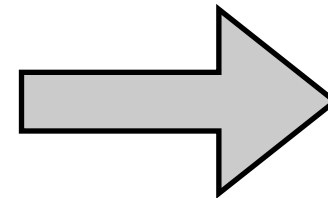
Design Implications

Identify items of interest and analyze them



user must be able to combine searches and filters in many different ways

Compare two or more different views

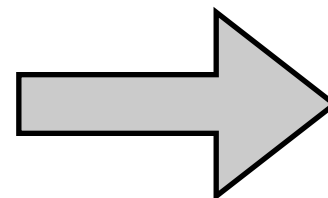


user must be able get a sense of the contents of any sub-collection

Look at different views of the same items--
search, exploration, visualization

user must be able to see and use multiple tools at once

Update a set of interesting items while looking at a view

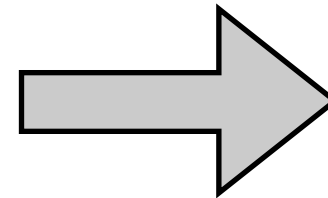


user must be able to collect and update interesting items, especially “from” views

user must be able to use collected items as query parameters

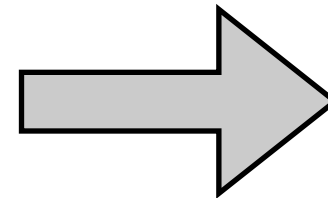
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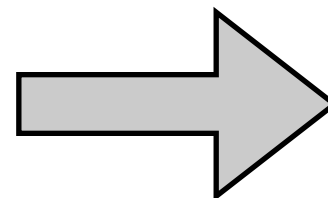


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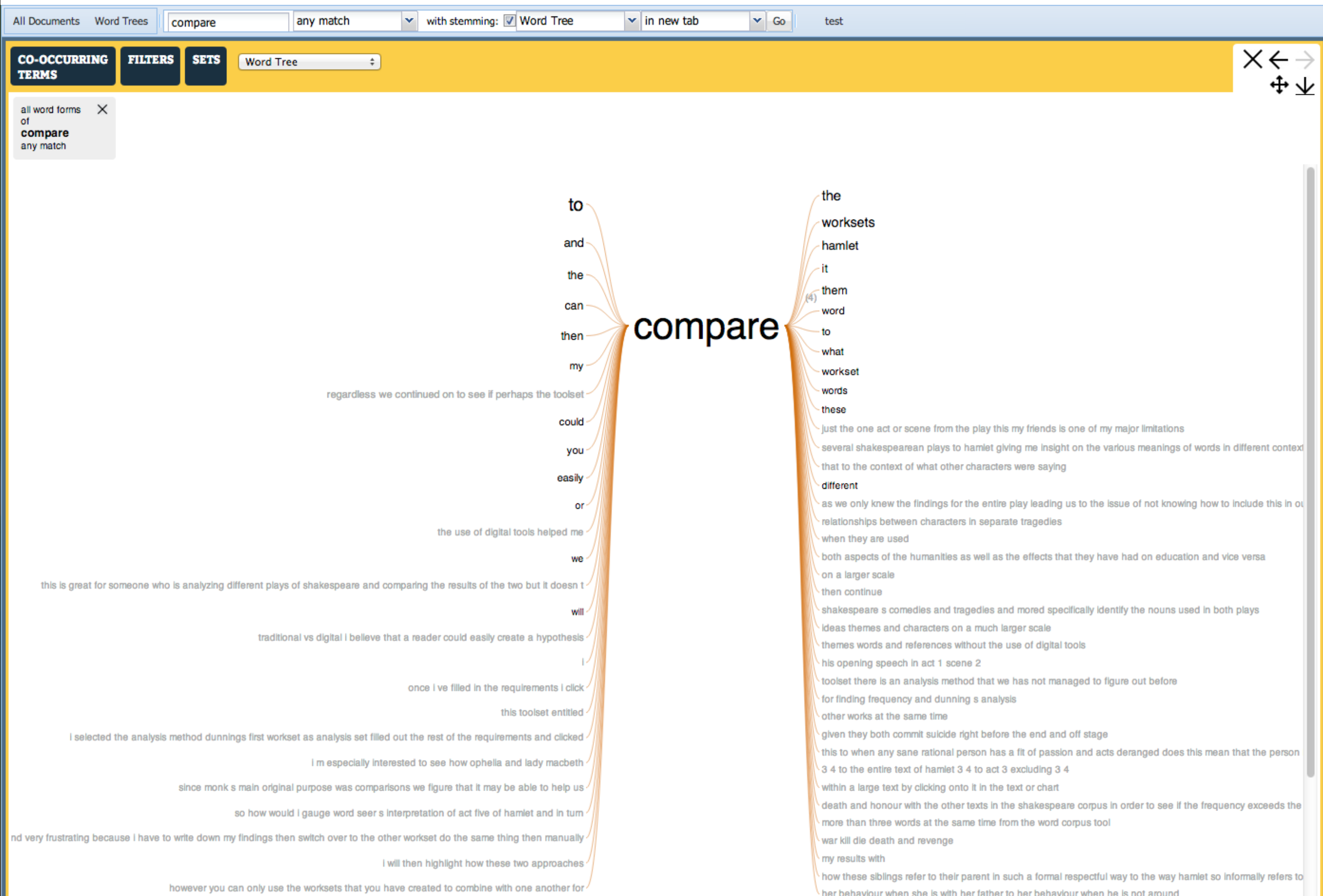
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SEARCH RESULTS (172)

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<input type="checkbox"/>	SENTENCE	AUTHOR	TITLE	TIME	TAG
<input type="checkbox"/>	Then I would want to compare her behaviour when she is with her father, to her behaviour when he is not around.	allison	New Perspective via the Integrated Force of Tradition and Digital Tools	2012-04-25	4: Act IV A: WordHoard Phase 3
<input type="checkbox"/>	By comparing these results, I can tell that Gertrude is neither more or less negative before or after Polonius dies, as is Hamlet.	allison	Battle with WordHoard? Challenge Accepted	2012-03-07	A: WordHoard
<input type="checkbox"/>	Hannah and I are both working on finding the most useful in context words each character speaks, and comparing them to characters in other Shakespeare tragedies.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act IV A: WordHoard
<input type="checkbox"/>	From here I will look up Claudius' most frequent action words and then compare the three characters to each other and to outside characters.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act IV A: WordHoard
<input type="checkbox"/>	I'm especially interested to see how Ophelia and Lady Macbeth compare , given they both 'commit suicide' right before the end and off stage.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act IV A: WordHoard
<input type="checkbox"/>	Also, I think comparing Laertes and Claudius' relationship to the one between Iago and Othello will also produce something of note.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act IV A: WordHoard
<input type="checkbox"/>	Once we have solid character traits and tendencies established, we will use Monk to compare these characters to ones in Macbeth and Othello just before the climaxes of those plays.	allison	Coming Together for the Sake of Madness	2012-03-21	4: Act IV A: WordHoard
<input type="checkbox"/>	By comparing Hamlet to outside plays by Shakespeare, we can see not only if this theme in Hamlet is found in other texts, but also, if it is, if the characters in those plays are expressly defined as mad themselves.	allison	Coming Together for the Sake of Madness	2012-03-21	4: Act IV A: WordHoard
<input type="checkbox"/>	I'm really hopeful about what my search can reveal- especially because the whole host of characters present will make the traits and tendencies of each character able to be compared to each other and more easily verified than if few were present.	allison	The Game is Afoot...	2012-03-16	4: Act IV A: WordHoard
<input type="checkbox"/>	The word 'sense' was used 7 times in this scene, compared to the word eyes that was used almost as often with six mentions.	amybroddy	Using the Find Collocates Tool in TAPoR	2012-03-07	B: Tapor Uncategorized
<input type="checkbox"/>	It would be a lot more useful to show the distribution of all of the commonly used words so that you can compare when they are used.	amybroddy	My experiences of what TAPoR can do, and what it can't	2012-03-02	B: Tapor
<input type="checkbox"/>	It is interesting when you compare how these siblings refer to their parent, in such a formal, respectful way, to the way Hamlet so informally refers to his mother as simply his mother.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I B: Tapor
<input type="checkbox"/>	The only difference in the way we used to analyze something, compared to how we analyze it now, is that we are making the research work for the time period we live in.	amybroddy	The Digital Humanities: What It Has to Offer	2012-04-25	1: Act I B: Tapor Phase 3
<input type="checkbox"/>	I am sure if you compared this act to a later one, you would not only be able to the change within the characters, but you will also see a difference in how the characters interact together.	amybroddy	Phase 2: The Beginning	2012-03-16	1: Act I B: Tapor
<input type="checkbox"/>	With a body of text, and a tool that compares one body of texts, to one or more other bodies of texts, it is extremely difficult to determine what to look for that could be significant.	april	MONK: Truly, 'more matter with less art!'	2012-03-07	Uncategorized E: Monk
<input type="checkbox"/>	Unfortunately, the way that worksets are defined, the closest I could get to this kind of analysis was Hamlet compared to all Shakespeare's tragedies, and 3.4 compared to the remainder of Act 3.	april	MONK: Truly, 'more matter with less art!'	2012-03-07	Uncategorized E: Monk
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SEARCH RESULTS (60)

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<input type="checkbox"/>	When I searched the other words, I noticed an interesting trend.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/>	The rest of the searches were easy, and I got the following results: When I look at these results, I notice two things.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/>	Did you notice, however, that almost every character makes an appearance somewhere in act 4.	allison	The Game is Afoot...	2012-03-16	4: Act I
<input type="checkbox"/>	The first thing I noticed immediately after separating their lines, is that it looked like Laertes was saying a lot more words and had longer lines than Ophelia did.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/>	With the List Words tool, I also noticed that the most frequent word that Ophelia uses is the word 'Lord'.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/>	This is honestly something that I never really noticed or thought of, and (I did not think that I would ever say this, but) I am really happy that TAPoR was able to enlighten me.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/>	This is something I honestly would have never noticed if I had not been able to use the tools that we were offered in this class, and it is information that I think is pretty important to the character of Ophelia.	amybroddy	The Digital Humanities: What It Has to Offer	2012-04-25	1: Act I
<input type="checkbox"/>	In comparing 3.4 to Hamlet as a whole, whether altering the analysis method, changing the minimum frequency, or switching from lemma to spelling in the feature drop menu, there were very little changes that could be noticed in the frequencies on the right hand side.	april	MONK's 'pranks...too broad to bear with'	2012-03-02	E: Mon
<input type="checkbox"/>	This is where I noticed a lot of character development.	ayesha	Act 4 Thoughts...	2012-03-18	4: Act I
<input type="checkbox"/>	First I noticed that Shakespeare makes references to body parts, for example 'go, go, you question with a wicked tongue' (3.4.10), or compares words to daggers, 'I will speak daggers to her but use none' (3.2.386).	Carly Ferguson	Final Post	2012-04-24	3: Act I
<input type="checkbox"/>	My group member who was studying Horatio found something with her tool, WordSeer, that she had never noticed while simply reading the text.	daynaaasen7	The Bridge Over Troubled (Digital Humanities) Waters	2012-04-25	A: Wor
<input type="checkbox"/>	I thought it was very odd how some of the common themes that are easily noted within Hamlet are not even noticed or picked up through the language.	hayleydunmire	Monk- A Fresh Start	2012-03-16	2: Act I
<input type="checkbox"/>	The primary use of Monk is that is a word counter, it locates words and notices the popularity with them and the concordance that occurs.	hayleydunmire	Monk... One Step Forward Two Steps Back	2012-03-06	E: Mon
<input type="checkbox"/>	In comparing the four most commonly occurring words in Act II, which are: Lord, Good, Shall, and Say; I have noticed that all though all four of these words appear together in places, the words: Shall and Say appear together the most often and that all four of them appear together in the fourth section of act II scene 1.	kassidybridgeman	New Group, New Act	2012-03-16	2: Act I
<input type="checkbox"/>	My Exploration and Doubts... One of the main things that I noticed when I began working extensively with these tools was that I was creating questions that I wanted the tools to answer.	katebowers	Technology vs. Literature: An Insight into the Digital Humanities	2012-04-25	Phase
<input type="checkbox"/>	The themes presented seem to be common enough to notice: there is				

all word forms
of
notice
any match

SEARCH RESULTS (60)

Add to group Remove from group

SENTENCE	AUTHOR	TITLE	TIME	TAG
<input type="checkbox"/> When I searched the other words, I noticed an interesting trend.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/> The rest of the searches were easy. I look at these results, I notice two th	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/> Did you notice, however, that almos appearance somewhere in act 4.	allison	The Game is Afoot...	2012-03-16	4: Act I
<input type="checkbox"/> The first thing I noticed immediately looked like Laertes was saying a lo than Ophelia did.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/> With the List Words tool, I also notice Ophelia uses is the word 'Lord'.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/> This is honestly something that I ne did not think that I would ever say th was able to enlighten me.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/> This is something I honestly would I able to use the tools that we were o information that I think is pretty impo	amybroddy	The Digital Humanities: What It Has to Offer	2012-04-25	1: Act I
<input type="checkbox"/> In comparing 3.4 to Hamlet as a wh method, changing the minimum frec spelling in the feature drop menu, there were very little changes that could be noticed in the frequencies on the right hand side.	april	MONK's 'pranks...too broad to bear with'	2012-03-02	E: Mon
<input type="checkbox"/> This is where I noticed a lot of character development.	ayesha	Act 4 Thoughts...	2012-03-18	4: Act I
<input type="checkbox"/> First I noticed that Shakespeare makes references to body parts, for example 'go, go, you question with a wicked tongue' (3.4.10), or compares words to daggers, 'I will speak daggers to her but use none' (3.2.386).	Carly Ferguson	Final Post	2012-04-24	3: Act I
<input type="checkbox"/> My group member who was studying Horatio found something with her tool, WordSeer, that she had never noticed while simply reading the text.	daynaaasen7	The Bridge Over Troubled (Digital Humanities) Waters	2012-04-25	A: Wor
<input type="checkbox"/> I thought it was very odd how some of the common themes that are easily noted within Hamlet are not even noticed or picked up through the language.	hayleydunmire	Monk- A Fresh Start	2012-03-16	2: Act I
<input type="checkbox"/> The primary use of Monk is that is a word counter, it locates words and notices the popularity with them and the concordance that occurs.	hayleydunmire	Monk... One Step Forward Two Steps Back	2012-03-06	E: Mon
<input type="checkbox"/> In comparing the four most commonly occurring words in Act II, which are: Lord, Good, Shall, and Say; I have noticed that all though all four of these words appear together in places, the words: Shall and Say appear together the most often and that all four of them appear together in the fourth section of act II scene 1.	kassidybridgeman	New Group, New Act	2012-03-16	2: Act I
<input type="checkbox"/> My Exploration and Doubts... One of the main things that I noticed when I began working extensively with these tools was that I was creating questions that I wanted the tools to answer.	katebowers	Technology vs. Literature: An Insight into the Digital Humanities	2012-04-25	Phase
<input type="checkbox"/> The themes presented seem to be common enough to notice: there is				

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SEARCH RESULTS (60)

Add to group Remove from group

SENTENCE	AUTHOR	TITLE	TIME	TAG
<input type="checkbox"/> When I searched the other words, I noticed an interesting trend.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/> The rest of the searches were easy, I look at these results, I notice two th	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/> Did you notice, however, that almost appearance somewhere in act 4.		The Game is Afoot...	2012-03-16	4: Act I
<input type="checkbox"/> The first thing I noticed immediately looked like Laertes was saying a lot than Ophelia did.		See sentences (3) th Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/> With the List Words tool, I also notice Ophelia uses is the word 'Lord'.		Add to set th Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/> This is honestly something that I ne did not think that I would ever say th was able to enlighten me.		Remove from set Using TAFON with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/> This is something I honestly would I able to use the tools that we were o information that I think is pretty impo In comparing 3.4 to Hamlet as a wh method, changing the minimum frec spelling in the feature drop menu, there were very little change could be noticed in the frequencies on the right hand side.		The Digital Humanities: What It Has to Offer	2012-04-25	1: Act I
<input type="checkbox"/> This is where I noticed a lot of character development.		MONK's 'pranks...toobroad to bear with'	2012-03-02	E: Mon
<input type="checkbox"/> First I noticed that Shakespeare makes references to body part example 'go, go, you question with a wicked tongue' (3.4.10), o compares words to daggers, 'I will speak daggers to her but use none' (3.2.386).		Act 4 Thoughts...	2012-03-18	4: Act I
<input type="checkbox"/> My group member who was studying Horatio found something with her tool, WordSeer, that she had never noticed while simply reading the text.	daynaaasen7	Final Post	2012-04-24	3: Act I
<input type="checkbox"/> I thought it was very odd how some of the common themes that are easily noted within Hamlet are not even noticed or picked up through the language.	hayleydunmire	The Bridge Over Troubled (Digital Humanities) Waters	2012-04-25	A: Wor
<input type="checkbox"/> The primary use of Monk is that is a word counter, it locates words and notices the popularity with them and the concordance that occurs.	hayleydunmire	Monk- A Fresh Start	2012-03-16	2: Act I
<input type="checkbox"/> In comparing the four most commonly occurring words in Act II, which are: Lord, Good, Shall, and Say; I have noticed that all though all four of these words appear together in places, the words: Shall and Say appear together the most often and that all four of them appear together in the fourth section of act II scene 1.	kassidybridgeman	Monk... One Step Forward Two Steps Back	2012-03-06	E: Mon
<input type="checkbox"/> My Exploration and Doubts... One of the main things that I noticed when I began working extensively with these tools was that I was creating questions that I wanted the tools to answer.	katebowers	New Group, New Act	2012-03-16	2: Act I
<input type="checkbox"/> The themes presented seem to be common enough to notice: there is		Technology vs. Literature: An Insight into the Digital Humanities	2012-04-25	Phase

all word forms
of
notice
any match

SEARCH RESULTS (60)

Add to group Remove from group

SENTENCE	AUTHOR	TITLE	TIME	TAG
<input type="checkbox"/> When I searched the other words, I noticed an interesting trend	noticed (32)	ction Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/> The rest of the searches were easy, I look at these results, I notice two th	done by (noticed, ____) 16	ction Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/> Did you notice, however, that almos appearance somewhere in act 4.	described as (noticed, ____) 9	ne Game is Afoot...	2012-03-16	4: Act I
<input type="checkbox"/> The first thing I noticed immediately looked like Laertes was saying a lo than Ophelia did.	passive auxiliary (noticed, ____) 10	sing TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/> With the List Words tool, I also notice Ophelia uses is the word 'Lord'.	negation (noticed, ____) 4	sing TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/> This is honestly something that I ne did not think that I would ever say th was able to enlighten me.	complementizer (noticed, ____) 3	sing TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/> This is something I honestly would I able to use the tools that we were o information that I think is pretty impo In comparing 3.4 to Hamlet as a wh method, changing the minimum frec spelling in the feature drop menu, there were very little change could be noticed in the frequencies on the right hand side.	prepositional modifier (noticed, ____) 7	ne Digital Humanities: What It Has to Offer	2012-04-25	1: Act I
<input type="checkbox"/> This is where I noticed a lot of character development.	done to (noticed, ____) 7	done to (noticed, details) 1		
<input type="checkbox"/> First I noticed that Shakespeare makes references to body part example 'go, go, you question with a wicked tongue' (3.4.10), o compares words to daggers, 'I will speak daggers to her but us (3.2.386).	clausal complement (noticed, ____) 8	done to (noticed, shortcomings) 1	2012-03-02	E: Mon
<input type="checkbox"/> My group member who was studying Horatio found something tool, WordSeer, that she had never noticed while simply readin I thought it was very odd how some of the common themes that easily noted within Hamlet are not even noticed or picked up th language.	conjunction (noticed, ____) 3	done to (noticed, this) 1	2012-03-18	4: Act I
<input type="checkbox"/> The primary use of Monk is that is a word counter, it locates wo notices the popularity with them, and the concordance that occur In comparing the four most commonly occurring words in Act II, are: Lord, Good, Shall, and Say; I have noticed that all though these words appear together in places, the words: Shall and S together the most often and that all four of them appear togethe fourth section of act II scene 1.	adverbial clause modifier (noticed, ____) 2	done to (noticed, thing) 1	2012-04-24	3: Act I
<input type="checkbox"/> My Exploration and Doubts... One of the main things that I notice began working extensively with these tools was that I was crea questions that I wanted the tools to answer.	(noticed, ____) 2	done to (noticed, trend) 1		
<input type="checkbox"/> The themes presented seem to be common enough to notice: t	prepositional clause modifier (noticed, ____) 2	done to (noticed, number) 1	2012-04-25	A: Wor
	relative (noticed, ____) 1	done to (noticed, lot) 1	2012-03-16	2: Act I
	parataxis (____, noticed) 1		2012-03-06	E: Mon
	relative clause modifier (____, noticed) 2			
	conjunction (____, noticed) 3			
	clausal complement (____, noticed) 4			

all word forms
of
notice
any match

SEARCH RESULTS (60)

Add to group Remove from group

<input type="checkbox"/>	SENTENCE	AUTHOR	TITLE	TIME	TAG
<input type="checkbox"/>	When I searched the other words, I noticed an interesting trend.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/>	The rest of the searches were easy, I look at these results, I notice two th	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/>	Did you notice , however, that almos appearance somewhere in act 4.	allison	The Game is Afoot...	2012-03-16	4: Act I
<input type="checkbox"/>	The first thing I noticed immediately looked like Laertes was saying a lo than Ophelia did.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/>	With the List Words tool, I also notic Ophelia uses is the word 'Lord'.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/>	This is honestly something that I ne did not think that I would ever say th was able to enlighten me.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
<input type="checkbox"/>	This is something I honestly would I able to use the tools that we were o information that I think is pretty impo	amybroddy	The Digital Humanities: What It Has to Offer	2012-04-25	1: Act I
<input type="checkbox"/>	In comparing 3.4 to Hamlet as a wh method, changing the minimum frec spelling in the feature drop menu, there were very little changes that could be noticed in the frequencies on the right hand side.	april	MONK's 'pranks...too broad to bear with'	2012-03-02	E: Mon
<input type="checkbox"/>	This is where I noticed a lot of character development.	ayesha	Act 4 Thoughts...	2012-03-18	4: Act I
<input type="checkbox"/>	First I noticed that Shakespeare makes references to body parts, for example 'go, go, you question with a wicked tongue' (3.4.10), or compares words to daggers, 'I will speak daggers to her but use none' (3.2.386).	Carly Ferguson	Final Post	2012-04-24	3: Act I
<input type="checkbox"/>	My group member who was studying Horatio found something with her tool, WordSeer, that she had never noticed while simply reading the text.	daynaaasen7	The Bridge Over Troubled (Digital Humanities) Waters	2012-04-25	A: Wor
<input type="checkbox"/>	I thought it was very odd how some of the common themes that are easily noted within Hamlet are not even noticed or picked up through the language.	hayleydunmire	Monk- A Fresh Start	2012-03-16	2: Act I
<input type="checkbox"/>	The primary use of Monk is that is a word counter, it locates words and notices the popularity with them and the concordance that occurs.	hayleydunmire	Monk... One Step Forward Two Steps Back	2012-03-06	E: Mon
<input type="checkbox"/>	In comparing the four most commonly occurring words in Act II, which are: Lord, Good, Shall, and Say; I have noticed that all though all four of these words appear together in places, the words: Shall and Say appear together the most often and that all four of them appear together in the fourth section of act II scene 1.	kassidybridgeman	New Group, New Act	2012-03-16	2: Act I
<input type="checkbox"/>	My Exploration and Doubts... One of the main things that I noticed when I began working extensively with these tools was that I was creating questions that I wanted the tools to answer.	katebowers	Technology vs. Literature: An Insight into the Digital Humanities	2012-04-25	Phase
<input type="checkbox"/>	The themes presented seem to be common enough to notice : there is				

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SEARCH RESULTS (60)

Add to group

Remove from group

SENTENCE	AUTHOR	TITLE	TIME	TAG
<input type="checkbox"/> When I searched the other words, I noticed an interesting trend.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/> The rest of the searches were easy, noticed its: When	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/> I look at these noticed appearance				
<input type="checkbox"/> Did you noticed the first thing				
<input type="checkbox"/> looked like L than Ophelia				
<input type="checkbox"/> With the List				
<input type="checkbox"/> Ophelia use:				
<input type="checkbox"/> This is honest				
<input type="checkbox"/> did not think				
<input type="checkbox"/> was able to e				
<input type="checkbox"/> This is some				
<input type="checkbox"/> able to use t				
<input type="checkbox"/> information t				
<input type="checkbox"/> In comparing				
<input type="checkbox"/> method, cha				
<input type="checkbox"/> spelling in th				
<input type="checkbox"/> could be not				
<input type="checkbox"/> This is where				
<input type="checkbox"/> First I noticed				
<input type="checkbox"/> example 'go,				
<input type="checkbox"/> compares w				
<input type="checkbox"/> (3.2.386).				
<input type="checkbox"/> My group me				
<input type="checkbox"/> tool, WordSe				
<input type="checkbox"/> I thought it w				
<input type="checkbox"/> easily noted				
<input type="checkbox"/> language.				
<input type="checkbox"/> The primary				
<input type="checkbox"/> notices the popularity with them and the concordance that occurs.	nayleydunmire	monk... One Step Forward Two Steps Back	2012-03-06	E: Mon
<input type="checkbox"/> In comparing the four most commonly occurring words in Act II, which are: Lord, Good, Shall, and Say; I have noticed that all though all four of these words appear together in places, the words: Shall and Say appear together the most often and that all four of them appear together in the fourth section of act II scene 1.	kassidybridgeman	New Group, New Act	2012-03-16	2: Act II
<input type="checkbox"/> My Exploration and Doubts... One of the main things that I noticed when I began working extensively with these tools was that I was creating questions that I wanted the tools to answer.	katebowers	Technology vs. Literature: An Insight into the Digital Humanities	2012-04-25	Phase
<input type="checkbox"/> The themes presented seem to be common enough to notice : there is				

WORDS THAT CO-OCCUR WITH 'NOTICED'

NOUNS

NOUNS	SENTENCES
hamlet	8
words	8
word	4
tool	4
something	4
voyeur	3
shakespeare	3
thing	3
references	3
ophelia	3
tools	3
text	3
scene	2
frequency	2
act	2
times	2
lot	2
body	2
nortrude	2

VERBS

VERBS	SENTENCES
using	4
use	3
think	3
thought	3
say	2
reading	2
used	2
comparing	2
answer	2
picked	2
returned	1
speak	1
creating	1
look	1
opposed	1
erases	1
kill	1
stripped	1
hagan	1

ADJECTIVES

ADJECTIVES	SENTENCES
important	4
first	3
comedic	2
other	2
such	2
tragic	2
interesting	2
able	2
many	2
little	1
only	1
easy	1
fourth	1
happy	1
right	1
most	1
young	1
sensory	1
faw	1

PHRASES

PHRASES	SENTENCES
thing noticed	3
column representing	2
've noticed	2
also noticed	2
noticed shakespeare	2
even noticed	2
search word	1
themes easily	1
bigger things going	1
list words	1
words act	1
word ophelia	1
throughout hamlet	1
references hamlet	1
able use	1
tools tapor	1
minimum frequency	1
classification hamlet	1
question wicked	1

all word forms
of
notice
any match



SEARCH RESULTS (60)

Add to group Remove from group

SENTENCE	AUTHOR	TITLE	TIME	TAG
<input type="checkbox"/> When I searched the other words, I noticed an interesting trend.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/> The rest of the searches were easy, noticed its: When	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/> I look at these				
<input type="checkbox"/> Did you notice appearance				
<input type="checkbox"/> The first thing				
<input type="checkbox"/> looked like L				
<input type="checkbox"/> than Ophelia				
<input type="checkbox"/> With the List				
<input type="checkbox"/> Ophelia use				
<input type="checkbox"/> This is hone				
<input type="checkbox"/> did not think				
<input type="checkbox"/> was able to e				
<input type="checkbox"/> This is some				
<input type="checkbox"/> able to use t				
<input type="checkbox"/> information t				
<input type="checkbox"/> In comparing				
<input type="checkbox"/> method, cha				
<input type="checkbox"/> spelling in th				
<input type="checkbox"/> could be not				
<input type="checkbox"/> This is where				
<input type="checkbox"/> First I noticed				
<input type="checkbox"/> example 'go				
<input type="checkbox"/> compares w				
<input type="checkbox"/> (3.2.386).				
<input type="checkbox"/> My group me				
<input type="checkbox"/> tool, WordSe				
<input type="checkbox"/> I thought it w				
<input type="checkbox"/> easily noted				
<input type="checkbox"/> language.				
<input type="checkbox"/> The primary				
<input type="checkbox"/> notices the popularity with them and the concordance that occurs.	nayleydunmire	Monk... One Step Forward Two Steps Back	2012-03-06	E: Mon
<input type="checkbox"/> In comparing the four most commonly occurring words in Act II, which are: Lord, Good, Shall, and Say; I have noticed that all though all four of these words appear together in places, the words: Shall and Say appear together the most often and that all four of them appear together in the fourth section of act II scene 1.	kassidybridgeman	New Group, New Act	2012-03-16	2: Act II
<input type="checkbox"/> My Exploration and Doubts... One of the main things that I noticed when I began working extensively with these tools was that I was creating questions that I wanted the tools to answer.	katebowers	Technology vs. Literature: An Insight into the Digital Humanities	2012-04-25	Phase
<input type="checkbox"/> The themes presented seem to be common enough to notice : there is				

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word	4
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something	4
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thing	3
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ophelia	3
tools	3
text	3
scene	2
frequency	2
act	2
times	2
lot	2
body	2
nortrude	2

VERBS

VERBS	SENTENCES
using	4
use	3
think	3
thought	3
say	2
reading	2
used	2
comparing	2
answer	2
picked	2
returned	1
speak	1
creating	1
look	1
opposed	1
erases	1
kill	1
stripped	1
hagan	1

ADJECTIVES

ADJECTIVES	SENTENCES
Important	4
easy	1
fourth	1
happy	1
right	1
most	1
young	1
sensory	1
few	1

PHRASES

PHRASES	SENTENCES
thing noticed	3
column representing	2
've noticed	2
also noticed	2
noticed shakespeare	2
even noticed	2
search word	1
themes easily	1
bigger things going	1
list words	1
words act	1
word ophelia	1
throughout hamlet	1
references hamlet	1
able use	1
tools tapor	1
minimum frequency	1
classification hamlet	1
question wicked	1

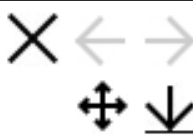
Add to set

See co-occurrences

Search for this word

See co-occurring words

See similar words



all word forms
of
notice
any match

+important
+noticed
any match

SEARCH RESULTS (60)

Add to group Remove from group

SENTENCE	AUTHOR	TITLE	TIME	TAG
<input type="checkbox"/> When I searched the other words, I noticed an interesting trend. The rest of the searches were easy, and I got the following results: When I look at these results, I notice two things. Did you notice , however, that almost every character makes an appearance somewhere in act 4. The first thing I noticed immediately after separating their lines, is that it looked like Laertes was saying a lot more words and had longer lines than Ophelia.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act IV A: WordHoard
<input type="checkbox"/> With the List Words tool, I also noticed that the most frequent word that Ophelia uses is the 'Lord'. This is honestly something that I have never really noticed or thought about (I did not think that I would ever say this, but) I am really happy that TAPoR was able to enlighten me.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act IV A: WordHoard
<input type="checkbox"/> This is something I honestly would have never noticed if I had not been able to use the tools that we were offered in this class, and it is information that I think is pretty important to the character of Ophelia.	allison	The Game is Afoot...	2012-03-16	4: Act IV A: WordHoard
<input type="checkbox"/> In comparing 3.4 to Hamlet as a whole, whether altering the analysis method, changing the minimum frequency, or switching from lemma to spelling in the feature drop menu, there were very little changes that could be noticed in the frequencies on the right hand side.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I B: Tapor

WORDS THAT CO-OCCUR WITH 'NOTICED'

NOUNS

NOUNS	SENTENCES
hamlet	8
words	8
word	4
tool	4
something	4
voyeur	3
shakespeare	3
thing	3
references	3
ophelia	3
tools	3
text	3
scene	2
frequency	2
times	2
act	2
lot	2
body	2
portrude	2

VERBS

VERBS	SENTENCES
using	4
use	3
think	3
thought	3
say	2
reading	2
used	2
comparing	2
picked	2
answer	2
returned	1
creating	1
speak	1
look	1
opposed	1
erases	1
uses	1
provided	1
kill	1

ADJECTIVES

ADJECTIVES	SENTENCES
important	4
first	3
comedic	2
other	2
such	2
tragic	2
interesting	2
able	2
many	2
little	1
only	1
easy	1
fourth	1
right	1
happy	1
most	1
young	1
few	1
sensory	1

PHRASES

PHRASES	SENTENCES
thing noticed	3
column representing	2
've noticed	2
also noticed	2
noticed shakespeare	2
even noticed	2
search word	1
themes easily	1
bigger things going	1
list words	1
words act	1
word ophelia	1
throughout hamlet	1
references hamlet	1
able use	1
tools tapor	1
minimum frequency	1
classification hamlet	1
question wicked	1

<input type="checkbox"/> This is where I noticed a lot of character development.	ayesha	Act 4 Thoughts...	2012-03-18	WordSeer Uncategorized
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all word forms of notice any match

SEARCH RESULTS (60)

Add to group Remove from group

SENTENCE	AUTHOR	TITLE	TIME	TAG
<input type="checkbox"/> When I searched the other words, I noticed an interesting trend.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
<input type="checkbox"/> The rest of the searches were easy, I look at these results, I notice two th	allison	Action Words in Relation to Relationships	2012-03-26	4: Act I
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<input type="checkbox"/> The first thing I noticed immediately looked like Laertes was saying a lo than Ophelia did.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
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<input type="checkbox"/> In comparing 3.4 to Hamlet as a wh method, changing the minimum frec spelling in the feature drop menu, there were very little changes th could be noticed in the frequencies on the right hand side.			2012-03-02	E: Mon
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<input type="checkbox"/> My group member who was studying Horatio found something wit tool, WordSeer, that she had never noticed while simply reading th		Over Troubled (Digital Humanities) Waters	2012-04-25	A: Wor
<input type="checkbox"/> I thought it was very odd how some of the common themes that are easily noted within Hamlet are not even noticed or picked up throu language.		sh Start	2012-03-16	2: Act I
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<input type="checkbox"/> My Exploration and Doubts... One of the main things that I noticed when I began working extensively with these tools was that I was creating questions that I wanted the tools to answer.	katebowers	Technology vs. Literature: An Insight into the Digital Humanities	2012-04-25	Phase
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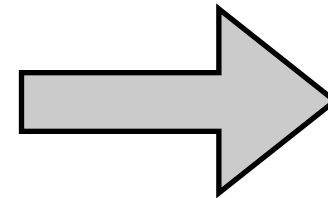
- Sentence
- Phrases
- Add to set
- Remove from set
- Filter for this word
- Search for this word
- See co-occurring words
- See similar words

WORDS THAT OCCUR IN SIMILAR CONTEXTS TO NOTICE

- discover navigate lag pass
- future question interlace
- manage answer pick feel
- recognize think read

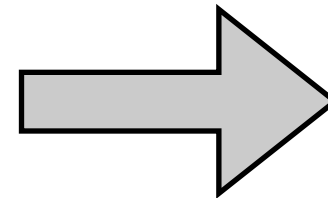
Design Implications

Identify items of interest and analyze them



user must be able to combine searches and filters in many different ways

Compare two or more different views

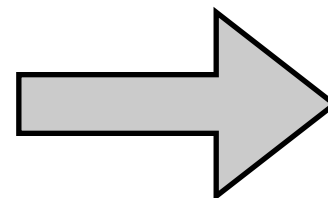


user must be able get a sense of the contents of any sub-collection

Look at different views of the same items--
search, exploration, visualization

user must be able to see and use multiple tools at once

Update a set of interesting items while looking at a view

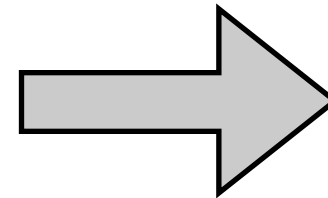


user must be able to collect and update interesting items, especially “from” views

user must be able to use collected items as query parameters

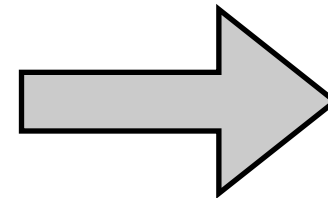
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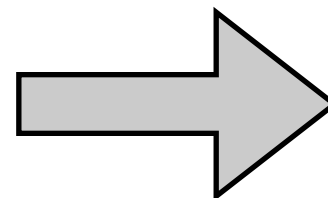


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all word forms of notice any match

SEARCH RESULTS (60)

Add to group Remove from group

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<input type="checkbox"/>	With the List Words tool, I also noticed that the most frequent word that Ophelia uses is the word 'Lord'.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
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<input type="checkbox"/>	This is where I noticed a lot of character developi freq First I noticed that Shakespeare makes referenc example 'go, go, you question with a wicked tondeve compares words to daggers, 'I will speak daggeefere (3.2.386).	a	MONK's 'prar ghts...	2012-03-18	4: Act I
<input type="checkbox"/>	My group member who was studying Horatio foia d tool, WordSeer, that she had never noticed whil I thought it was very odd how some of the commoni trfemes that are easily noted within Hamlet are not even noticed or picked up through the language.	Ferguson	Act 4 Though	2012-04-24	3: Act I
<input type="checkbox"/>	The primary use of Monk is that is a word counter, it locates words and notices the popularity with them and the concordance that occurs.		Final Post	2012-04-25	A: Wor
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<input type="checkbox"/>	My Exploration and Doubts... One of the main things that I noticed when I began working extensively with these tools was that I was creating questions that I wanted the tools to answer.	hayleydunmire	Monk- A Fresh Start	2012-03-06	E: Mon
<input type="checkbox"/>	The themes presented seem to be common enough to notice: there is	kassidybridgeman	Monk... One Step Forward Two Steps Back	2012-03-16	2: Act I
<input type="checkbox"/>		katebowers	New Group, New Act	2012-04-25	Phase

all word forms
of
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<input type="checkbox"/> With the List Words Ophelia uses is these	amybroddy	Usiing TAPoR with Laertes and Ophelia	2012-03-21	1: Act I
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<input type="checkbox"/> In comparing 3.4 to method, changing t spelling in the featu could be noticed in	noticed, notice	DNK's 'pranks...too broad to bear with'	2012-03-02	E: Mon
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<input type="checkbox"/> My Exploration and Doubts... One of the main things that I noticed when I began working extensively with these tools was that I was creating questions that I wanted the tools to answer.	kassidybridgeman	New Group, New Act	2012-03-16	2: Act I
<input type="checkbox"/> The themes presented seem to be common enough to notice: there is	katebowers	Technology vs. Literature: An Insight into the Digital Humanities	2012-04-25	Phase

WORDS THAT OCCUR
IN SIMILAR CONTEXTS
TO NOTICE

discover navigate lag pass

Add to set

New set

Search for this word

{noticing things} (2)

noticed, notice

See co-occurring words

See similar words

all word forms
of
notice
any match

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<input type="checkbox"/>	This is where I noticed a lot of character development.	ayesha	Act 4 Thoughts...	2012-03-18	4: Act I
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all word forms
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<input type="checkbox"/>	The themes presented seem to be common enough to notice : there is				

{NOTICING THINGS}

Edit Delete this set

realize

noticed

notice

realized

discover

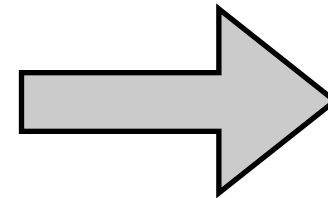
discovered

recognize

recognized

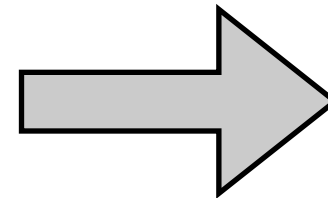
Design Implications

Identify items of interest and analyze them



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Compare two or more different views

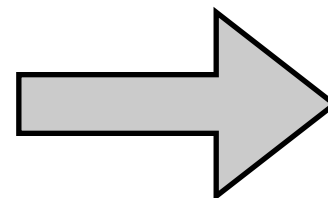


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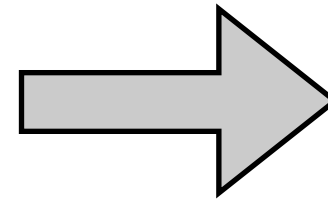


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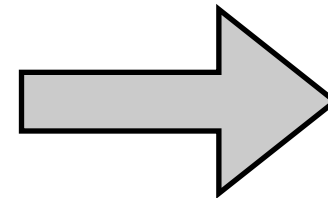
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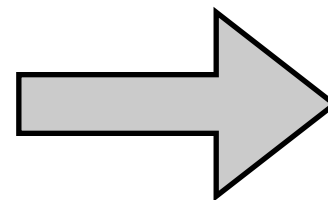


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CO-OCCURRING TERMS

FILTER

all word forms of compare any match

SEARCH RESULTS

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☐ SENTENCE

- ☐ Then I would want to compare to her behaviour when I
- ☐ By comparing these results less negative before or Hannah and I are both
- ☐ words each character says, Shakespeare tragedies.
- ☐ From here I will look up Claudius' most frequent action words and then compare the three characters to each other and to outside characters. I'm especially interested to see how Ophelia and Lady Macbeth
- ☐ compare, given they both 'commit suicide' right before the end and off stage.
- ☐ Also, I think comparing Laertes and Claudius' relationship to the one between Iago and Othello will also produce something of note. Once we have solid character traits and tendencies established, we will
- ☐ use Monk to compare these characters to ones in Macbeth and Othello just before the climaxes of those plays.
- ☐ By comparing Hamlet to outside plays by Shakespeare, we can see not only if this theme in Hamlet is found in other texts, but also, if it is, if the characters in those plays are expressly defined as mad themselves. I'm really hopeful about what my search can reveal- especially because the whole host of characters present will make the traits and tendencies of each character able to be compared to each other and more easily verified than if few were present.
- ☐ The word 'sense' was used 7 times in this scene, compared to the word eyes that was used almost as often with six mentions.
- ☐ It would be a lot more useful to show the distribution of all of the commonly used words so that you can compare when they are used. It is interesting when you compare how these siblings refer to their
- ☐ parent, in such a formal, respectful way, to the way Hamlet so informally refers to his mother as simply his mother.
- ☐ The only difference in the way we used to analyze something, compared to how we analyze it now, is that we are making the research work for the time period we live in.

{noticing things} (205)

title: Another day, another new discovery (1)

title: To have or not to have cheesy blog titles ; that is the question (1)

title: To be or not to be Insane? (1)

title: This is Not About Conformity (1)

title: Technology vs. Literature: An Insight into the Digital Humanities (1)

IR	TITLE	TIME	TAG
n	New Perspective via the Integrated Force of Tradition and Digital Tools	2012-04-25	A: Wo
n	Battle with WordHoard? Challenge Accepted	2012-03-07	A: Wo
n	Action Words in Relation to Relationships	2012-03-26	4: Act
allison	Action Words in Relation to Relationships	2012-03-26	4: Act
allison	Action Words in Relation to Relationships	2012-03-26	4: Act
allison	Action Words in Relation to Relationships	2012-03-26	4: Act
allison	Coming Together for the Sake of Madness	2012-03-21	4: Act
allison	Coming Together for the Sake of Madness	2012-03-21	4: Act
allison	The Game is Afoot...	2012-03-16	4: Act
amybroddy	Using the Find Collocates Tool in TAPoR	2012-03-07	B: Tap
amybroddy	My experiences of what TAPoR can do, and what it can't	2012-03-02	B: Tap
amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act
amybroddy	The Digital Humanities: What It Has to Offer	2012-04-25	1: Act

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TERMS

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all word forms of
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- ☐ It is interesting when you compare how these siblings refer to their parent, in such a formal, respectful way, to the way Hamlet so informally refers to his mother as simply his mother.
- ☐ The only difference in the way we used to analyze something, compared to how we analyze it now, is that we are making the research work for the time period we live in.

{noticing things} (205)

title: Another day, another new discovery (1)

title: To have or not to have cheesy blog titles ; that is the question (1)

title: To be or not to be Insane? (1)

title: This is Not About Conformity (1)

title: Technology vs. Literature: An Insight into the Digital Humanities (1)

IR	TITLE	TIME	TAG
n	New Perspective via the Integrated Force of Tradition and Digital Tools	2012-04-25	A: Wo
n	Battle with WordHoard? Challenge Accepted	2012-03-07	A: Wo
n	Action Words in Relation to Relationships	2012-03-26	4: Act
allison	Action Words in Relation to Relationships	2012-03-26	4: Act
allison	Action Words in Relation to Relationships	2012-03-26	4: Act
allison	Action Words in Relation to Relationships	2012-03-26	4: Act
allison	Coming Together for the Sake of Madness	2012-03-21	4: Act
allison	Coming Together for the Sake of Madness	2012-03-21	4: Act
allison	The Game is Afoot...	2012-03-16	4: Act
amybroddy	Using the Find Collocates Tool in TAPoR	2012-03-07	B: Tap
amybroddy	My experiences of what TAPoR can do, and what it can't	2012-03-02	B: Tap
amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act
amybroddy	The Digital Humanities: What It Has to Offer	2012-04-25	1: Act

all word forms of **compare**
any match

SEARCH RESULTS (172)

Add to group
Remove from group

SENTENCE	AUTHOR	TITLE	TIME	TAG
<input type="checkbox"/> Then I would want to compare her behaviour when she is with her father, to her behaviour when he is not around.	allison	New Perspective via the Integrated Force of Tradition and Digital Tools	2012-04-25	4: Act IV A:
<input type="checkbox"/> By comparing these results, I can tell that Gertrude is neither more or less negative before or after Polonius dies, as is Hamlet.	allison	Battle with WordHoard? Challenge Accepted	2012-03-07	A: WordHo
<input type="checkbox"/> Hannah and I are both working on finding the most useful in context words each character speaks, and comparing them to characters in other Shakespeare tragedies.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act IV A:
<input type="checkbox"/> From here I will look up Claudius' most frequent action words and then compare the three characters to each other and to outside characters.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act IV A:
<input type="checkbox"/> I'm especially interested to see how Ophelia and Lady Macbeth compare , given they both 'commit suicide' right before the end and off stage.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act IV A:
<input type="checkbox"/> Also, I think comparing Laertes and Claudius' relationship to the one between Iago and Othello will also produce something of note.	allison	Action Words in Relation to Relationships	2012-03-26	4: Act IV A:
<input type="checkbox"/> Once we have solid character traits and tendencies established, we will use Monk to compare these characters to ones in Macbeth and Othello just before the climaxes of those plays.	allison	Coming Together for the Sake of Madness	2012-03-21	4: Act IV A:
<input type="checkbox"/> By comparing Hamlet to outside plays by Shakespeare, we can see not only if this theme in Hamlet is found in other texts, but also, if it is, if the characters in those plays are expressly defined as mad themselves.	allison	Coming Together for the Sake of Madness	2012-03-21	4: Act IV A:
<input type="checkbox"/> I'm really hopeful about what my search can reveal- especially because the whole host of characters present will make the traits and tendencies of each character able to be compared to each other and more easily verified than if few were present.	allison	The Game is Afoot...	2012-03-16	4: Act IV A:
<input type="checkbox"/> The word 'sense' was used 7 times in this scene, compared to the word eyes that was used almost as often with six mentions.	amybroddy	Using the Find Collocates Tool in TAPoR	2012-03-07	B: Tapor Un
<input type="checkbox"/> It would be a lot more useful to show the distribution of all of the commonly used words so that you can compare when they are used.	amybroddy	My experiences of what TAPoR can do, and what it can't	2012-03-02	B: Tapor
<input type="checkbox"/> It is interesting when you compare how these siblings refer to their parent, in such a formal, respectful way, to the way Hamlet so informally refers to his mother as simply his mother.	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I B: T
<input type="checkbox"/> The only difference in the way we used to analyze something, compared to how we analyze it now, is that we are making the research work for the time period we live in.	amybroddy	The Digital Humanities: What It Has to Offer	2012-04-25	1: Act I B: T
<input type="checkbox"/> I am sure if you compared this act to a later one, you would not only be able to the change within the characters, but you will also see a difference in how the characters interact together.	amybroddy	Phase 2: The Beginning	2012-03-16	1: Act I B: T
<input type="checkbox"/> With a body of text, and a tool that compares one body of texts, to one or more other bodies of texts, it is extremely difficult to determine what to	april	MONK: Truly, 'more matter with less art!'	2012-03-07	Uncategori

SEARCH RESULTS (17)

SENTENCE

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New Set

SET	ITEMS	SENTENCES	DOCUMENTS
{noticing things}	8	8/205	7/96

+ DOCUMENT SETS

allison	The Game is Afoot...	2012-03-16	4: Act IV A: T
amybroddy	Using the Find Collocates Tool in TAPoR	2012-03-07	B: Tapor Un
amybroddy	My experiences of what TAPoR can do, and what it can't	2012-03-02	B: Tapor
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SEARCH RESULTS (17)

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WORD/PHRASE SETS

New Set

SET	ITEMS	SENTENCES	DOCUMENTS
{noticing things}	8	8/205	7/96

Filter

View

Rename

New Subset

Delete

+ SENTENCE SETS

+ DOCUMENT SETS

			TIME	TAG
		pective via the Integrated Force of Tradition and Digital Tools	2012-04-25	4: Act IV A:
		th WordHoard? Challenge Accepted	2012-03-07	A: WordHo
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		ords in Relation t to Relationships	2012-03-26	4: Act IV A:
		ords in Relation t to Relationships	2012-03-26	4: Act IV A:
		Together for the Sake of Madness	2012-03-21	4: Act IV A:
		Together for the Sake of Madness	2012-03-21	4: Act IV A:
	allison	The Game is Afoot...	2012-03-16	4: Act IV A:
	amybroddy	Using the Find Collocates Tool in TAPoR	2012-03-07	B: Tapor Un
	amybroddy	My experiences of what TAPoR can do, and what it can't	2012-03-02	B: Tapor
	amybroddy	Using TAPoR with Laertes and Ophelia	2012-03-21	1: Act I B: T
	amybroddy	The Digital Humanities: What It Has to Offer	2012-04-25	1: Act I B: T
	amybroddy	Phase 2: The Beginning	2012-03-16	1: Act I B: T
	april	MONK: Truly, 'more matter with less art!'	2012-03-07	Uncategori

All Documents Word Trees with stemming: ☒ Sentences in new

CO-OCCURRING TERMS **FILTERS** **SETS**

all word forms of **compare** any match

SEARCH RESULTS (17)

Add to group Remove from group

☐ SENTENCE

☐ Then I would want to **compare** to her behaviour when he is

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WORD/PHRASE SETS

New Set

SET	ITEMS	SENTENCES	DOCUMENTS
{ noticing things }	8	8/205	7/96

- Filter
- View
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- Delete

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- Rename
- New Subset
- Delete

+ SENTENCE SETS

+ DOCUMENT SETS

all word forms of compareany match

{noticing things} phrase_set

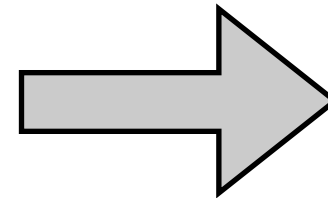
SEARCH RESULTS (8)

Add to groupRemove from group

SENTENCE	AUTHOR	TITLE	TIME	TAG
<input type="checkbox"/> In comparing 3.4 to Hamlet as a whole, whether altering the analysis method, changing the minimum frequency, or switching from lemma to spelling in the feature drop menu, there were very little changes that could be noticed in the frequencies on the right hand side.	april	MONK's 'pranks...too broad to bear with'	2012-03-02	E: Monk
<input type="checkbox"/> By comparing it to a wide array of different texts, I was able to discover that Hamlet, like other texts such as Othello, are anomalous to the tragic genre of Shakespeare's texts.	april	Concluding on My Introductory Experience in the Digital Humanities	2012-04-24	Phase 3 Un
<input type="checkbox"/> First I noticed that Shakespeare makes references to body parts, for example 'go, go, you question with a wicked tongue' (3.4.10), or compares words to daggers, 'I will speak daggers to her but use none' (3.2.386).	Carly Ferguson	Final Post	2012-04-24	3: Act III D: V
<input type="checkbox"/> Copy and pasted honesty and fair side by side to compare It was not until I looked further into Hamlet's word choices, that I realized how often Hamlet used honest and fair.	Carly Ferguson	I had an epiphany :)	2012-03-21	3: Act III D: V
<input type="checkbox"/> In comparing the four most commonly occurring words in Act II, which are: Lord, Good, Shall, and Say; I have noticed that all though all four of these words appear together in places, the words: Shall and Say appear together the most often and that all four of them appear together in the fourth section of act II scene 1.	kassidybridgeman	New Group, New Act	2012-03-16	2: Act II D: V
<input type="checkbox"/> Within an hour we had discovered all the ins and outs of the program's most useful components which I will try to explain: 'Define Worksets' for finding concordances in lemmas or spelling, and ' Compare ' for finding frequency and Dunning's analysis.	kelseyljudd	Monk Workbench: Either the most simple or the most complicated tool in the Digital Humanities.	2012-03-02	3: Act III E: M
<input type="checkbox"/> Either due to out lack of experience or to something we cannot quite figure out in the program there does not seem to be all that much more to it beyond 'Define' and ' Compare ,'... The define feature is fairly straight forward once you realize one main point: it does not seem to keep an actual record of your 'worksets.'	kelseyljudd	Monk Workbench: Either the most simple or the most complicated tool in the Digital Humanities.	2012-03-02	3: Act III E: M
<input type="checkbox"/> When you notice the repetition among certain terms and how they interlace you can then start asking deeper questions like I did by comparing the original and modern texts.	rarubyalsharaf	Putting aside preconceived notions and discovering something useful	2012-03-07	D: Voyeur

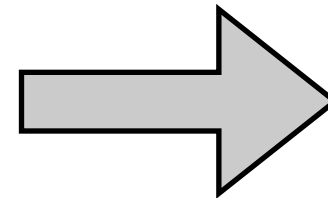
Design Implications

Identify items of interest and analyze them



user must be able to combine searches and filters in many different ways

Compare two or more different views

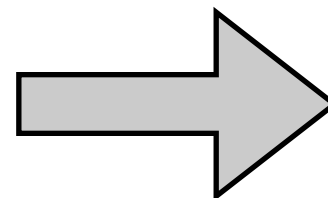


user must be able get a sense of the contents of any sub-collection

Look at different views of the same items--
search, exploration, visualization

user must be able to see and use multiple tools at once

Update a set of interesting items while looking at a view

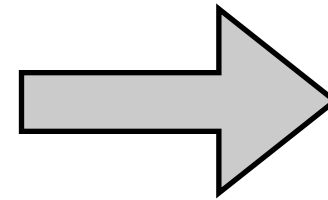


user must be able to collect and update interesting items, especially “from” views

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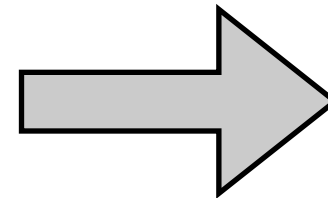
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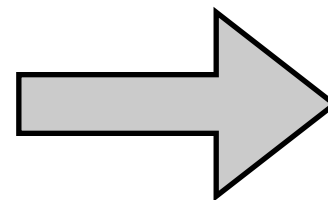


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<input type="checkbox"/>	By comparing it to a wide array of different texts, I was able to discover that Hamlet, like other texts such as Othello, are anomalous to the tragic genre of Shakespeare's texts.	april	Concludin
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<input type="checkbox"/>	In comparing the four most commonly occurring words in Act II, which are: Lord, Good, Shall, and Say; I have noticed that all though all four of these words appear together in places, the words: Shall and Say appear together the most often and that all four of them appear together in the fourth section of act II scene 1.	kassidybridgeman	New Grou
<input type="checkbox"/>	Within an hour we had discovered all the ins and outs of the program's most useful components which I will try to explain: 'Define Worksets' for finding concordances in lemmas or spelling, and ' Compare ' for finding frequency and Dunning's analysis.	kelseyljudd	Monk Wo the Digita
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all word forms of
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SEARCH RESULTS (172)

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Remove from group

de by side comparison

	AUTHOR	TITLE	TIME	TAG
<input type="checkbox"/> So if you are someone who likes to compare words, characters, and themes with more of a visual component then you can customize the page to fit with your choice of visual tools.	rarubyalsharaf	Voyeur: My initial thoughts and responses in Phase 1	2012-03-01	D: Voyeur
<input type="checkbox"/> Words are easy to find and compare within a large text by clicking onto it in the text or chart.	rarubyalsharaf	Voyeur: My initial thoughts and responses in Phase 1	2012-03-01	D: Voyeur
<input checked="" type="checkbox"/> For example, my group and I compared the words 'good' and 'evil'.	rarubyalsharaf	Voyeur: My initial thoughts and responses in Phase 1	2012-03-01	D: Voyeur
<input checked="" type="checkbox"/> I compared the two words, mad and madness with Hamlet and Gertrude, and I was surprised to find out that Hamlet uses mad/madness a total of five times, while Gertrude uses it once.	Carly Ferguson	My experience with Voyeur..	2012-03-02	D: Voyeur
<input type="checkbox"/> It would be a lot more useful to show the distribution of all of the commonly used words so that you can compare when they are used.	amybroddy	My experiences of what TAPoR can do, and what it can't	2012-03-02	B: Tapor
<input type="checkbox"/> The 'bags of words' (called worksets from here), are compared with other kinds of bags in order to provide a frequency comparison with other texts.	april	MONK's 'pranks...too broad to bear with'	2012-03-02	E: Monk
<input type="checkbox"/> It is also able to compare the frequency of any of these three between two worksets through the use of toolsets.	april	MONK's 'pranks...too broad to bear with'	2012-03-02	E: Monk
<input type="checkbox"/> Regardless, we continued on to see if perhaps the toolset 'compare worksets' would provide us more insight into the significance of frequencies in Dunnings as opposed to concordance of just an isolated text.	april	MONK's 'pranks...too broad to bear with'	2012-03-02	E: Monk
<input type="checkbox"/> So, upon saving our worksets, we entered into the tool and before starting to even use the tool, we were already faced with another problem: what could we compare Hamlet 3.4 for with in order to obtain useful results?	april	MONK's 'pranks...too broad to bear with'	2012-03-02	E: Monk
<input checked="" type="checkbox"/> Because MONK is a comparison tool, we determined the best ways in which we could establish the significance of Hamlet 3.4 to Hamlet in general, was to compare 3.4 to the entire text of Hamlet 3.4 to Act 3 (excluding 3.4).	april	MONK's 'pranks...too broad to bear with'	2012-03-02	E: Monk

Contributions

- WordSeer — a text analysis system for humanities and social sciences
- Developed through 2 rounds of case studies
- A descriptive model of the text analysis processes of humanities scholars
- Design guidelines for future systems
 - (Validated with three case studies)

Final Case Studies

3 Final Case Studies

- Literary scholar analyzed U.S. - China relations over the past 30 years, through 5,000 *New York Times* Editorials
- Writing instructor analyzed language use in 'literacy autobiography' assignments written by students
- Historians examined ~500 works of 19th Century American fiction to verify increasingly secular connotations for words relating to belief.

U.S.-China Relations

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- “The rise of China” taken for granted — wanted some hard quantitative evidence.

U.S.-China Relations

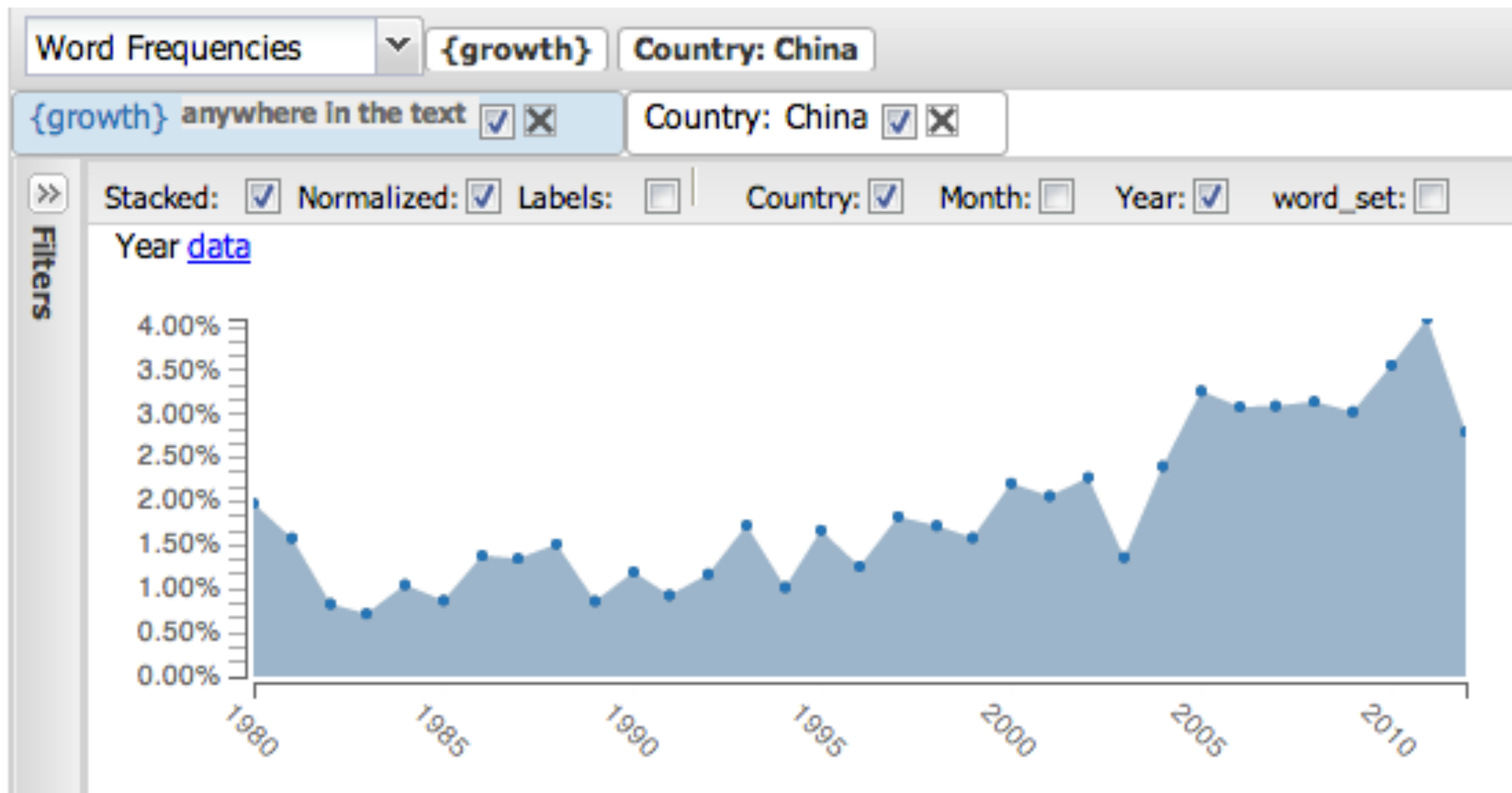
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- Quantify changes in the tone of descriptions of China

U.S.-China Relations

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- Quantify changes in the tone of descriptions of China
- Quantify changes in the tone of U.S.-China relations.

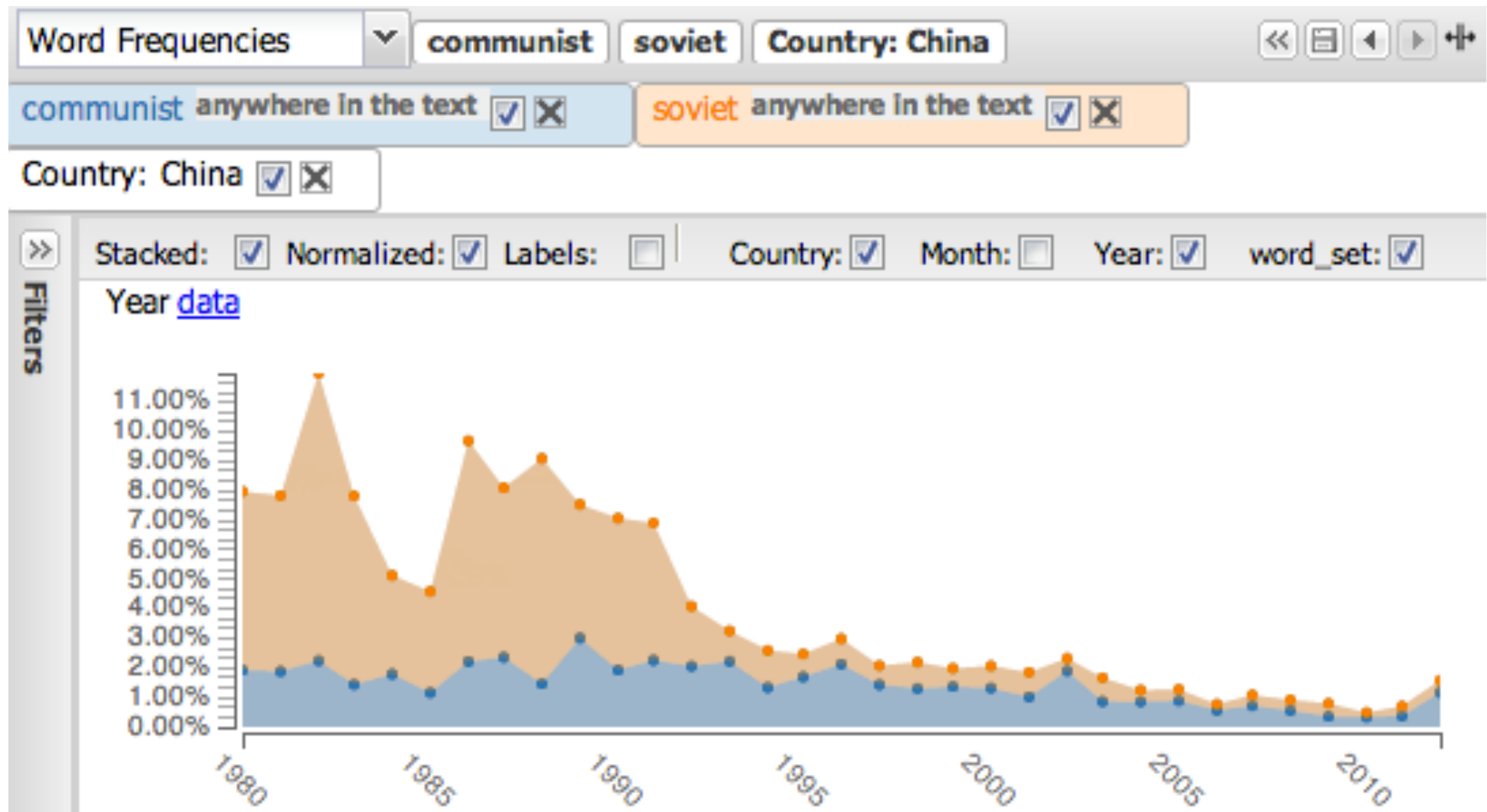
U.S.-China Relations

- Confirmed the 'growth' of China into an economic superpower



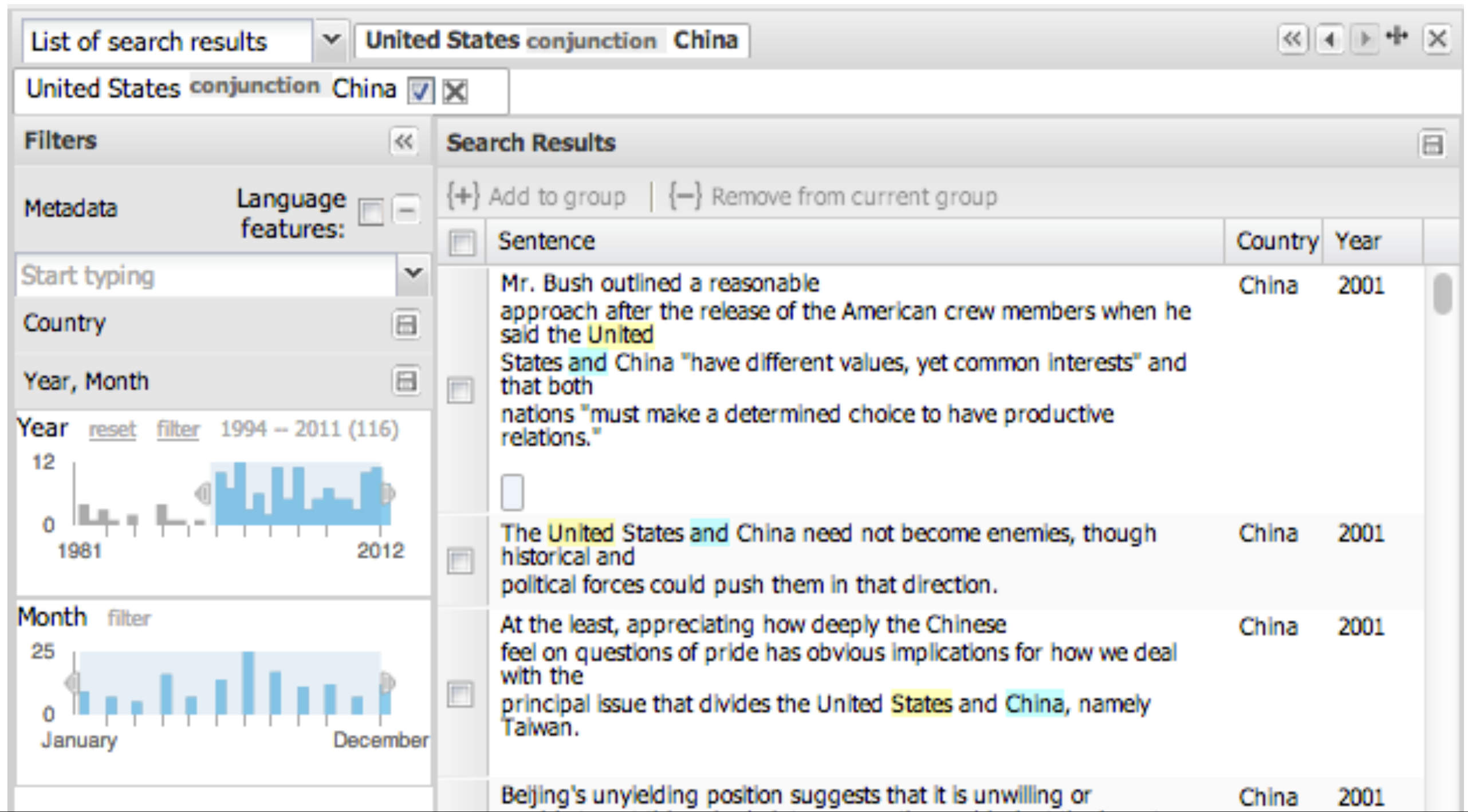
U.S.-China Relations

- Discussion turns away from communism



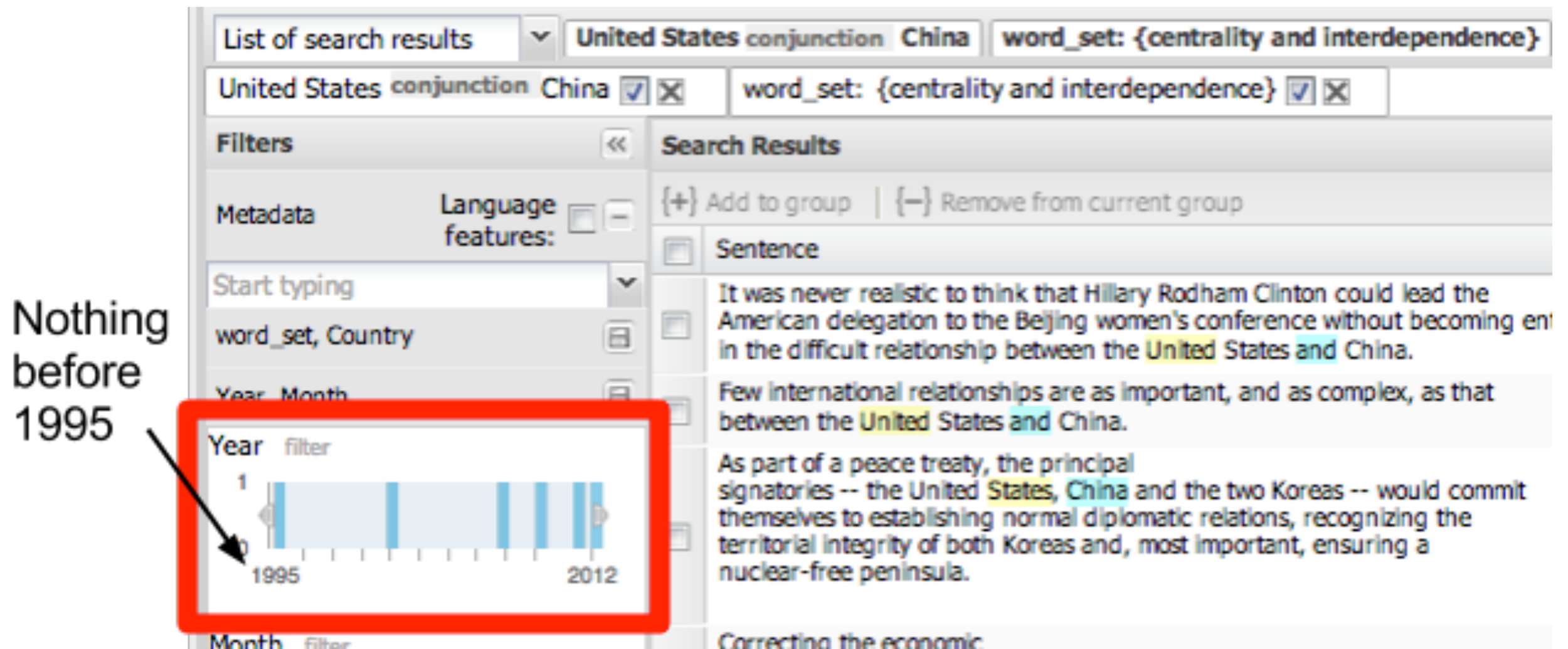
U.S.-China Relations

- Increasing relations with the united states



U.S.-China Relations

- Changing relations with the U.S.



Literacy Autobiographies

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- 200 essays written by students at 4 different colleges

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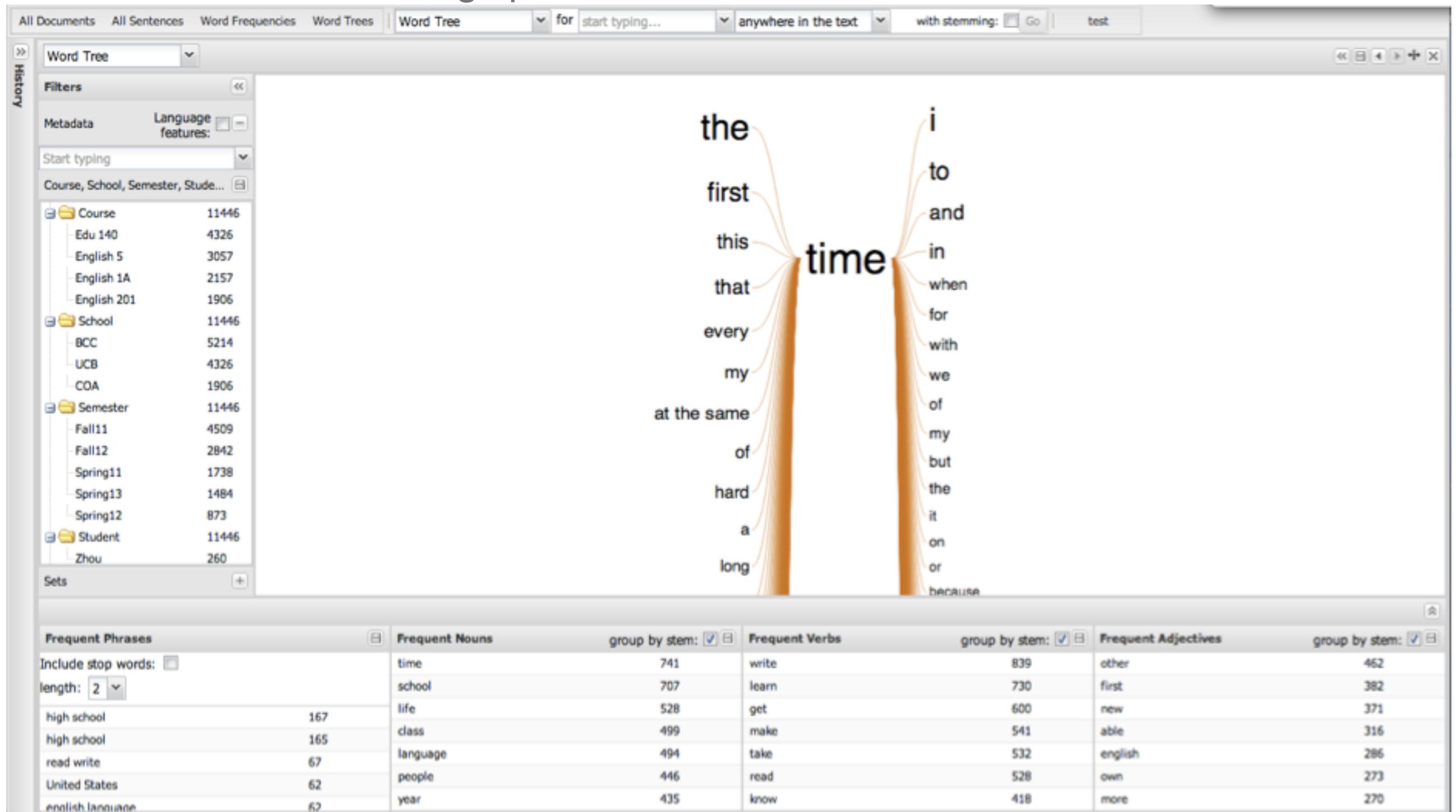
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- Students described their past experiences with literacy, and learning to read and write
- Courses were taught at different levels
- Scholar was very familiar with the assignments, had graded them before
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- Intuitively: writing style improved with higher-level students — proof?


Literacy Autobiographies

- Focus on remembering specific incidents

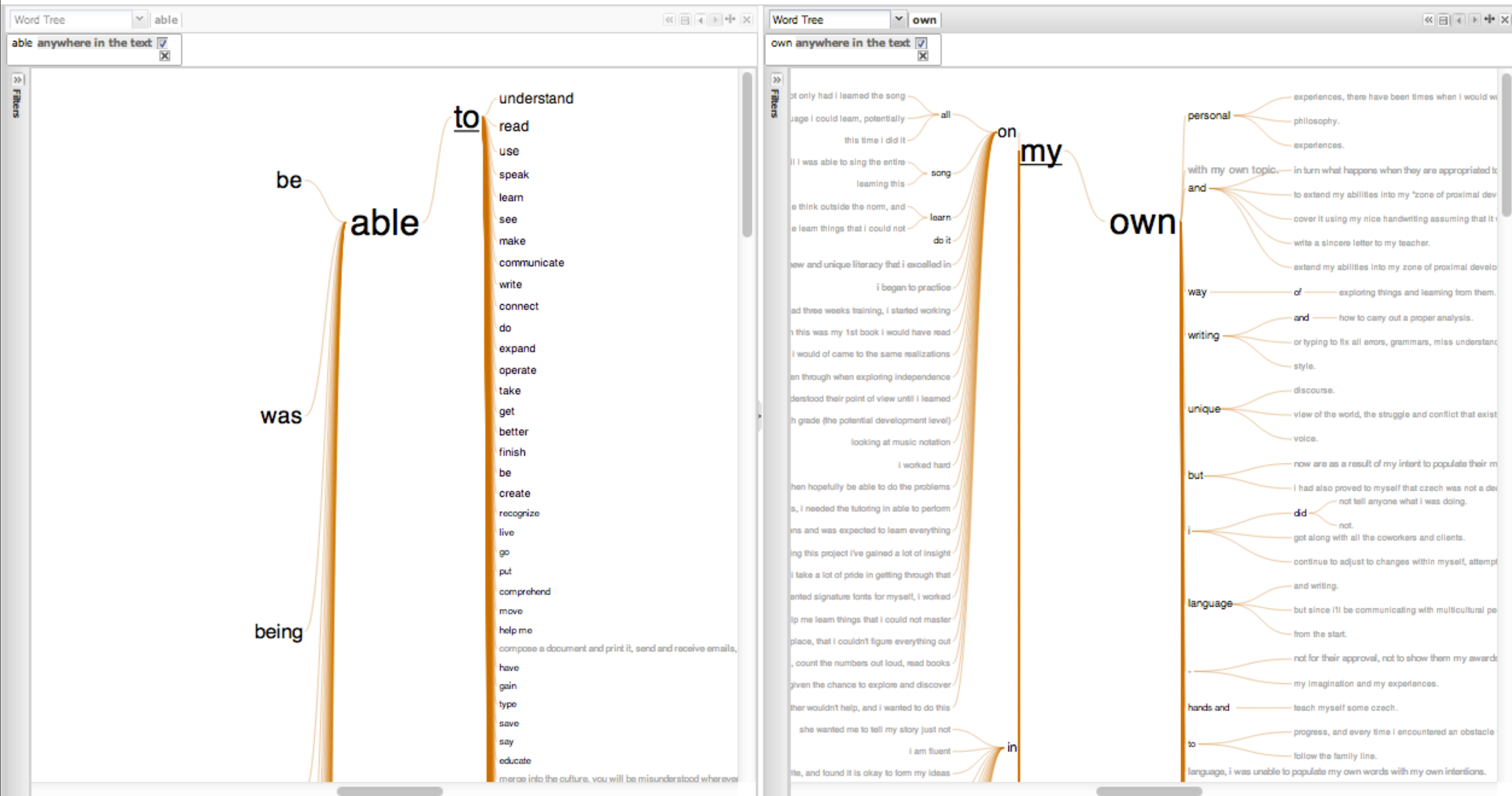


Literacy Autobiographies

- Theme of becoming `able', and gaining `ownership'

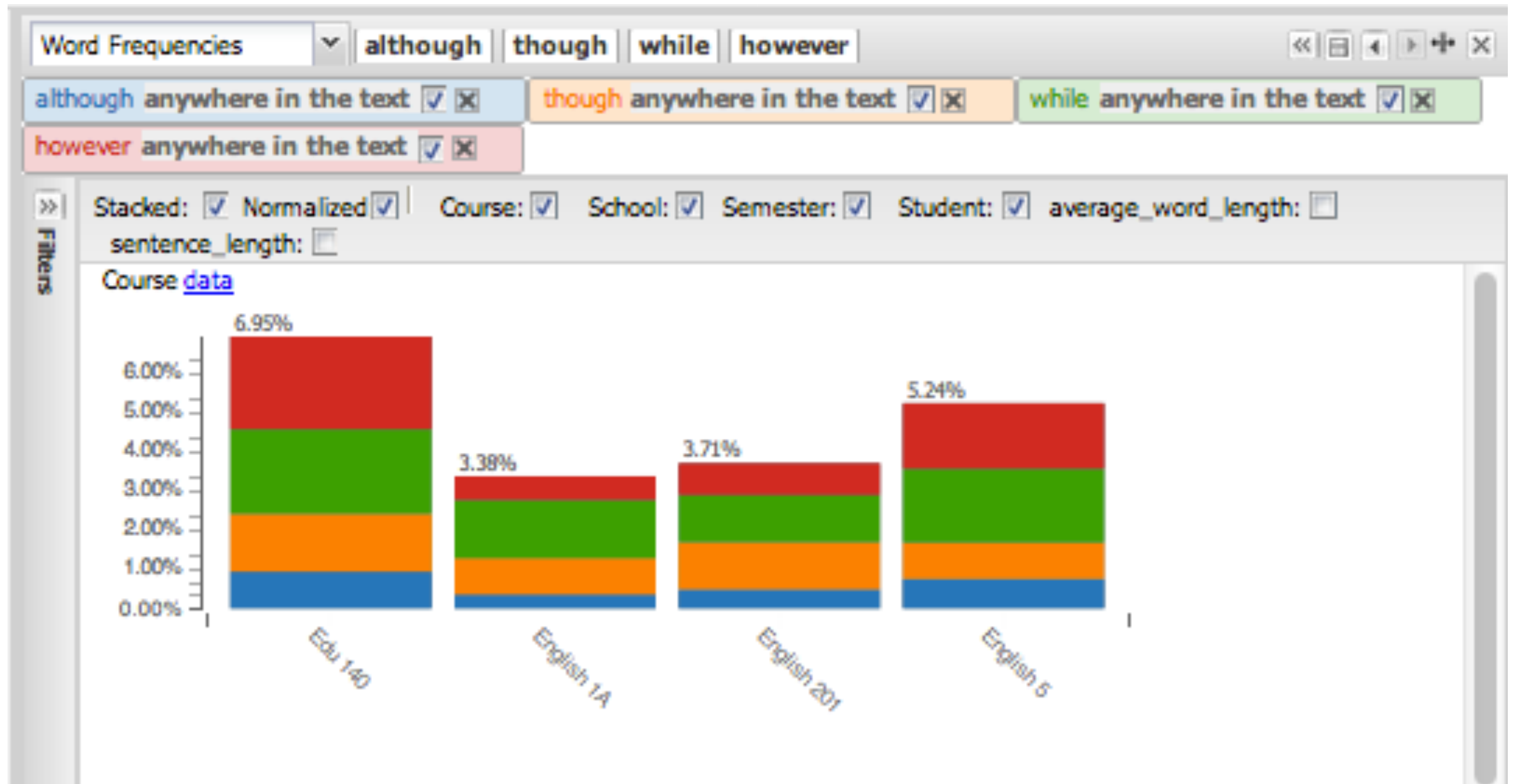
Frequent Adjectives		group by stem: <input checked="" type="checkbox"/> 
other	474	
new	384	
first	379	
able	314	
own	282	
more	279	
many	270	

- Theme of becoming 'able', and gaining 'ownership'



Literacy Autobiographies

- The more advanced students used more complex sentences.



Early American Fiction

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Early American Fiction

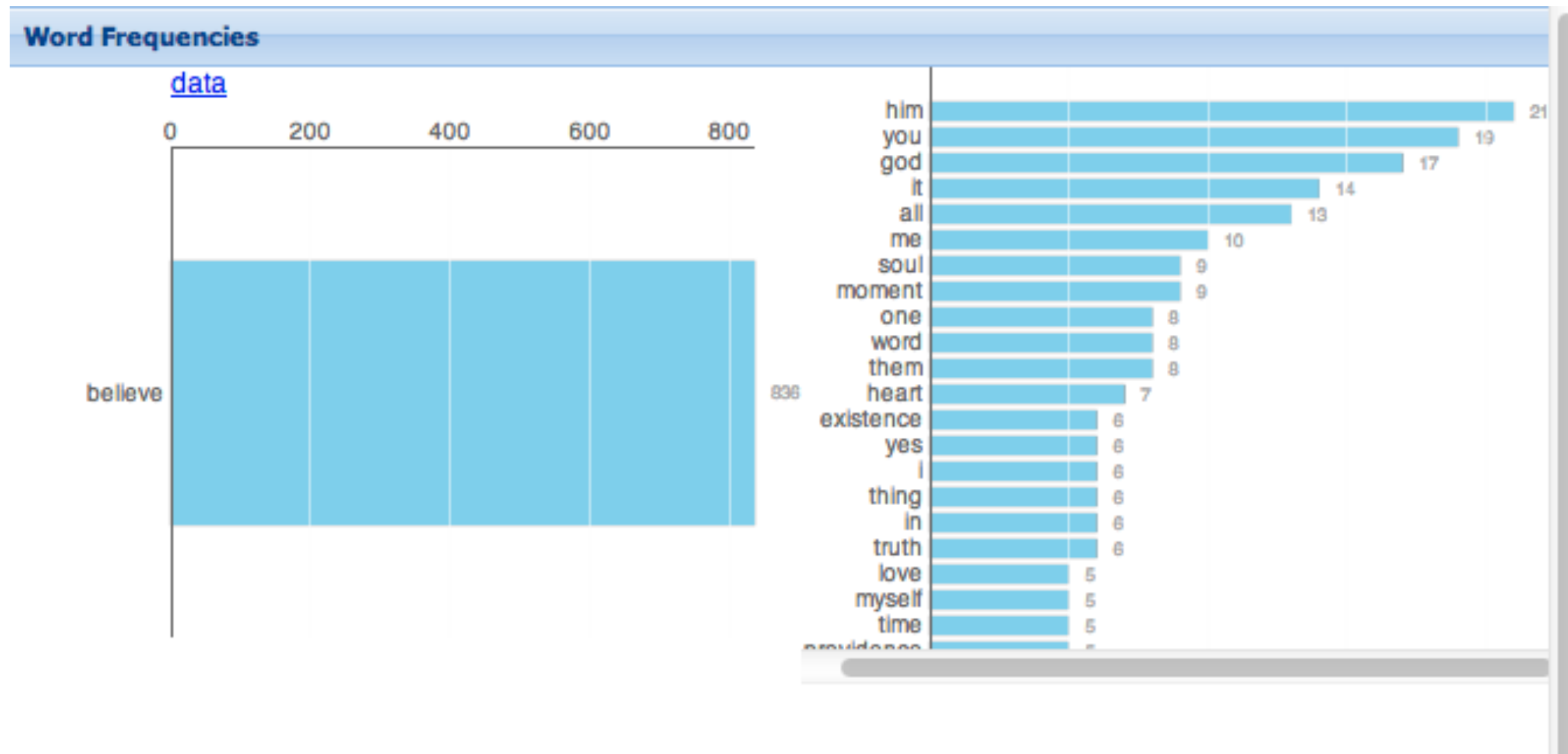
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- Specifically, was there an increase in “belief in medicine”?

Belief in Early American Fiction

- Building up sets of religious terms



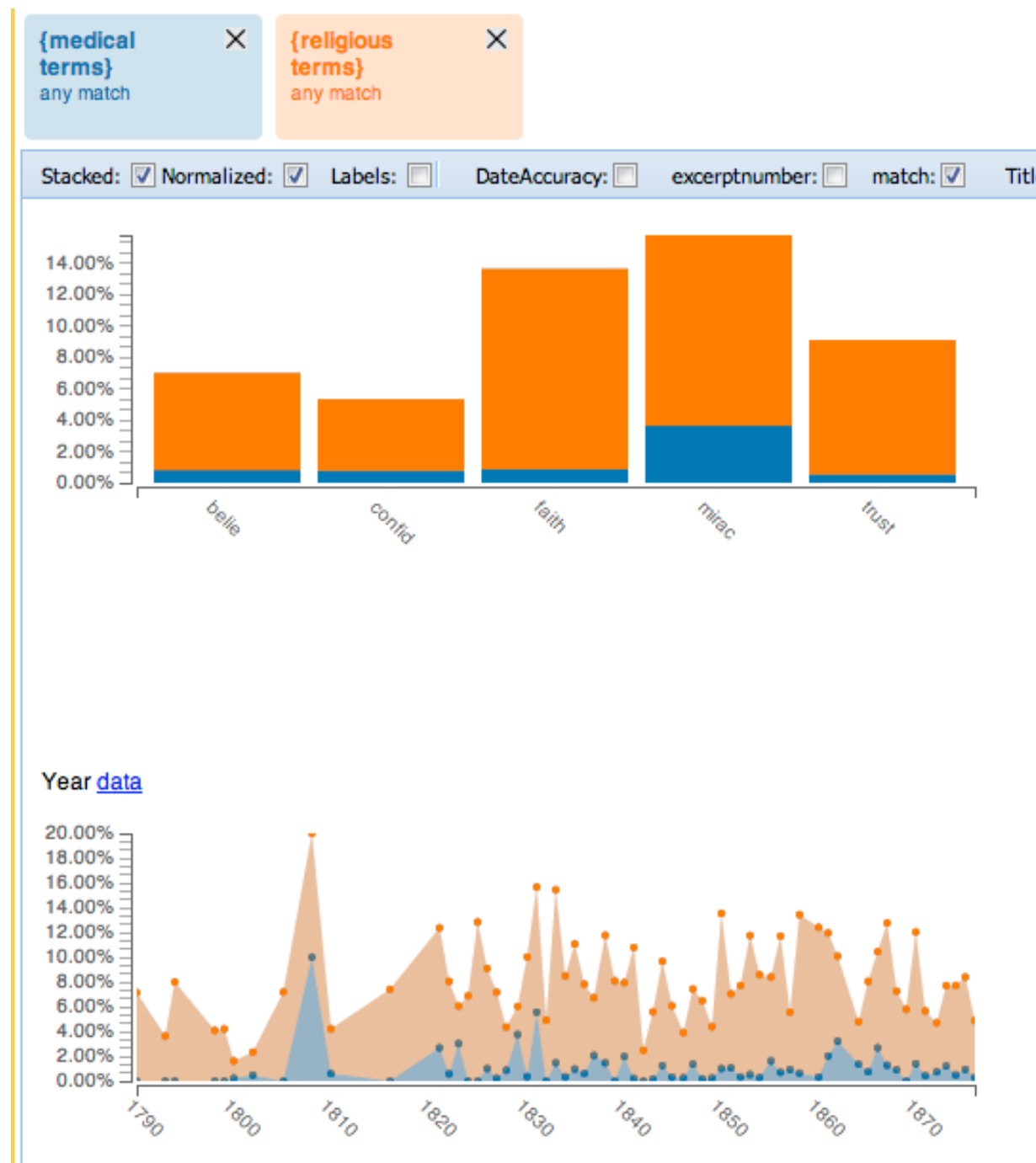
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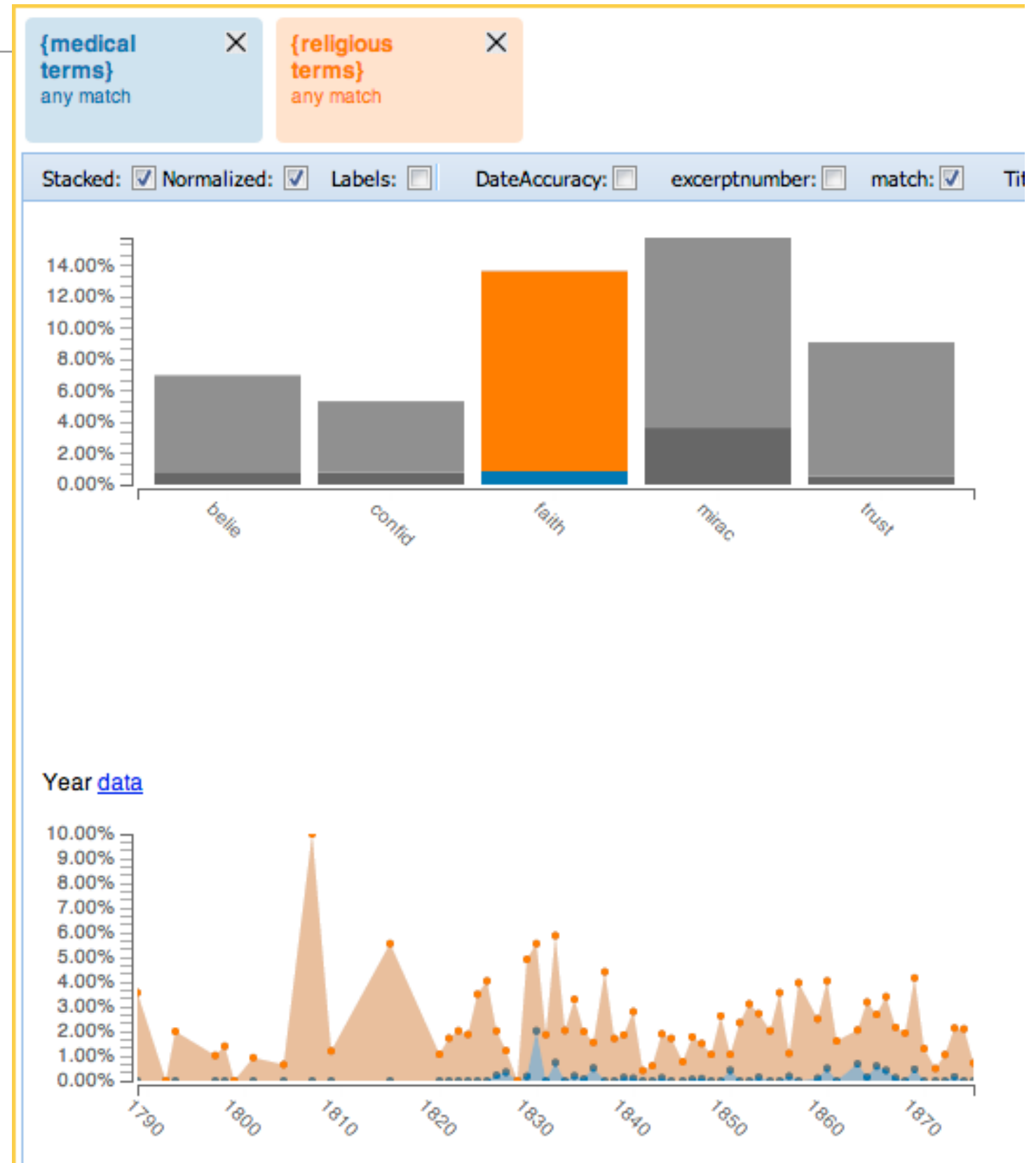
Belief in Early American Fiction

- No overall increases in medical connotations



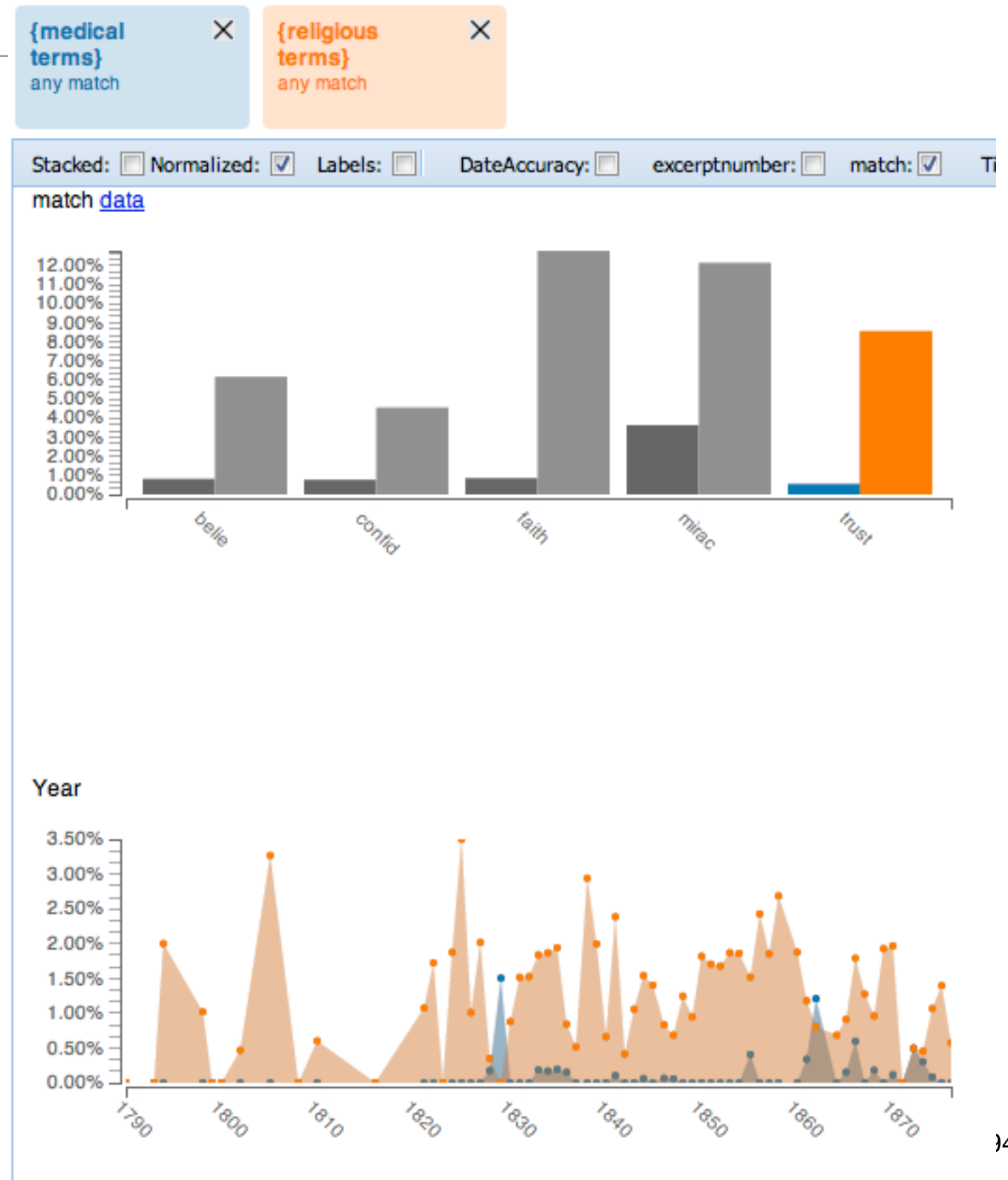
Belief in Early American Fiction

- 'Faith'
- Gains medical connotations



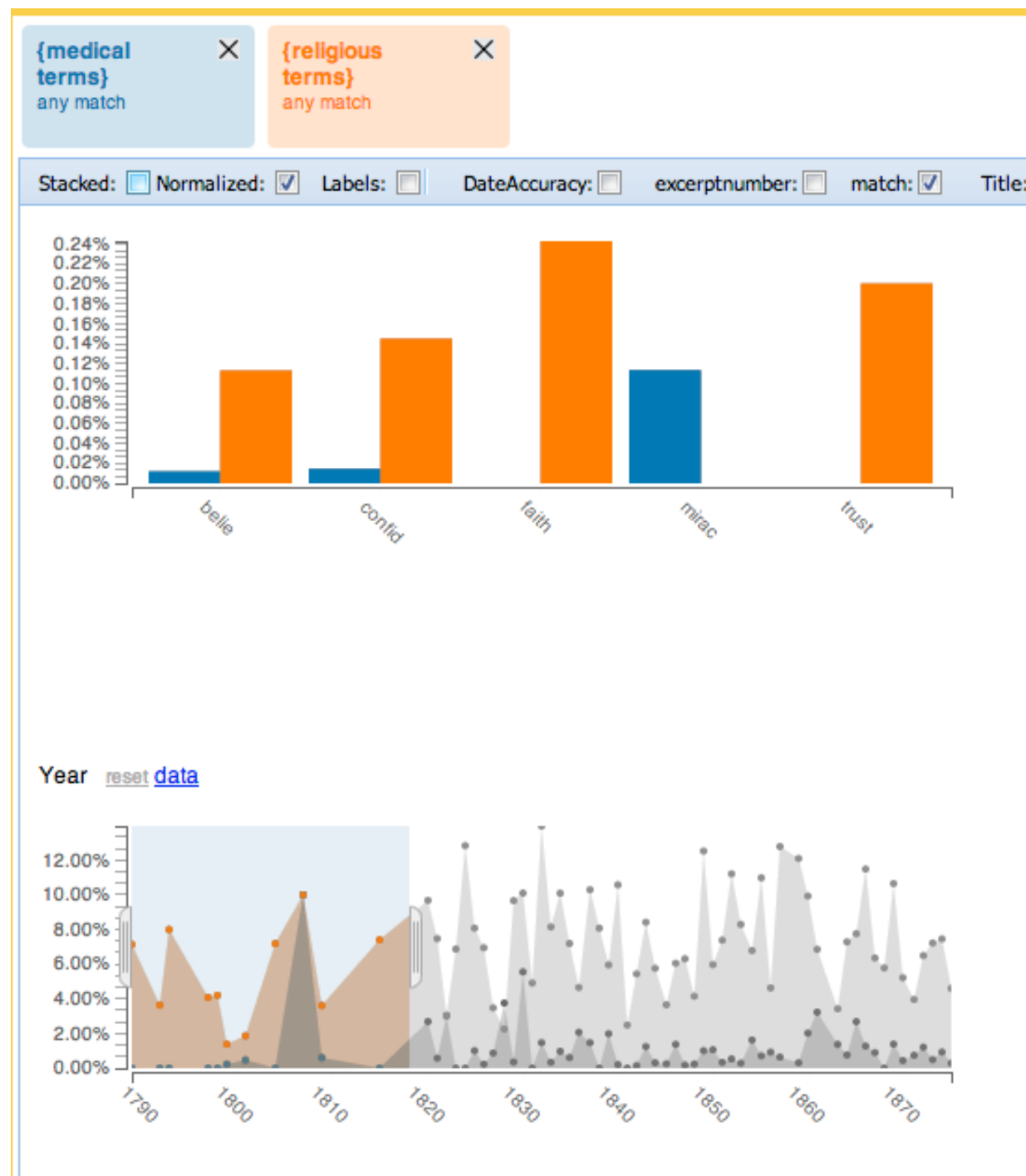
Belief in Early American Fiction

- 'Trust'
- Gains medical connotations



Belief in Early American Fiction

- Neither appear in medical contexts before mid 1820s



Contributions

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