

Zombies for Tools

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Venice Street Art



With support from SSHRC Text Mining the Novel project led by A. Piper

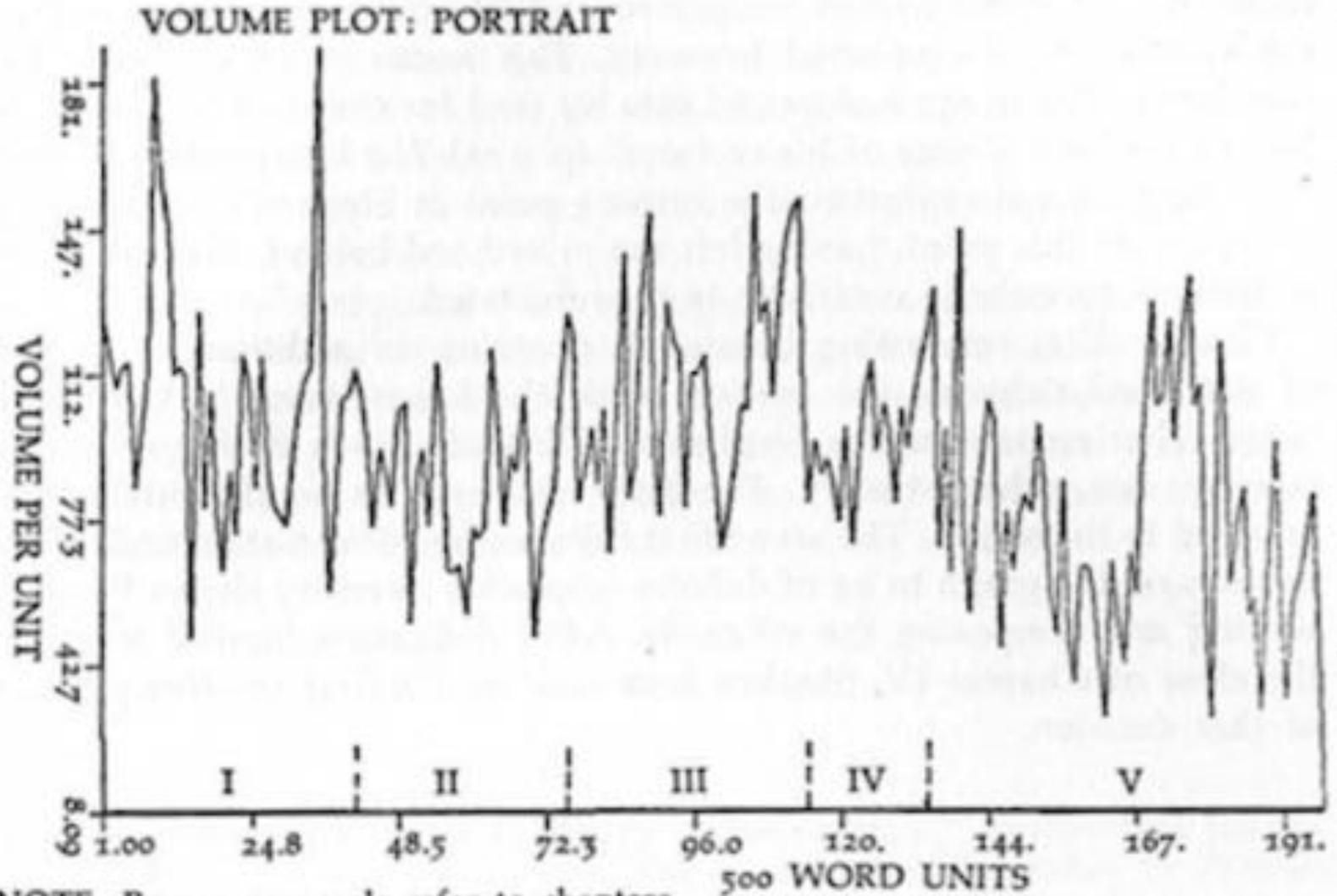


Social Sciences and Humanities
Research Council of Canada

Conseil de recherches en
sciences humaines du Canada

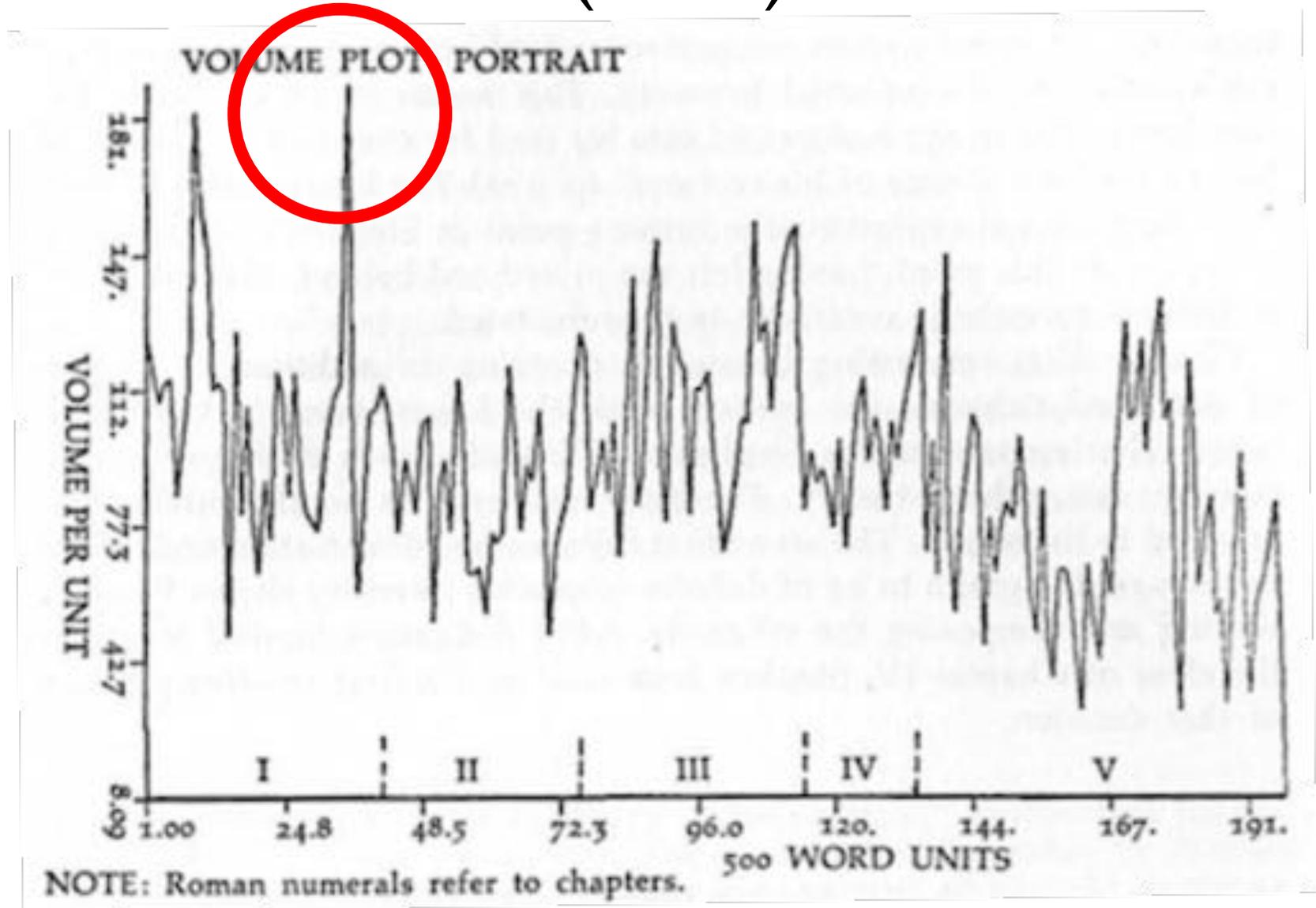
Canada

Smith, "Image and Imagery in Joyce's *Portrait*" (1973)



NOTE: Roman numerals refer to chapters.

Smith, "Image and Imagery in Joyce's *Portrait*" (1973)



Pandybat



Outline

- Introducing Smith's Visualization
- Reviving **John B. Smith**
- **Some asides about Voyant**
- Reflect on **Replication**

Replicants



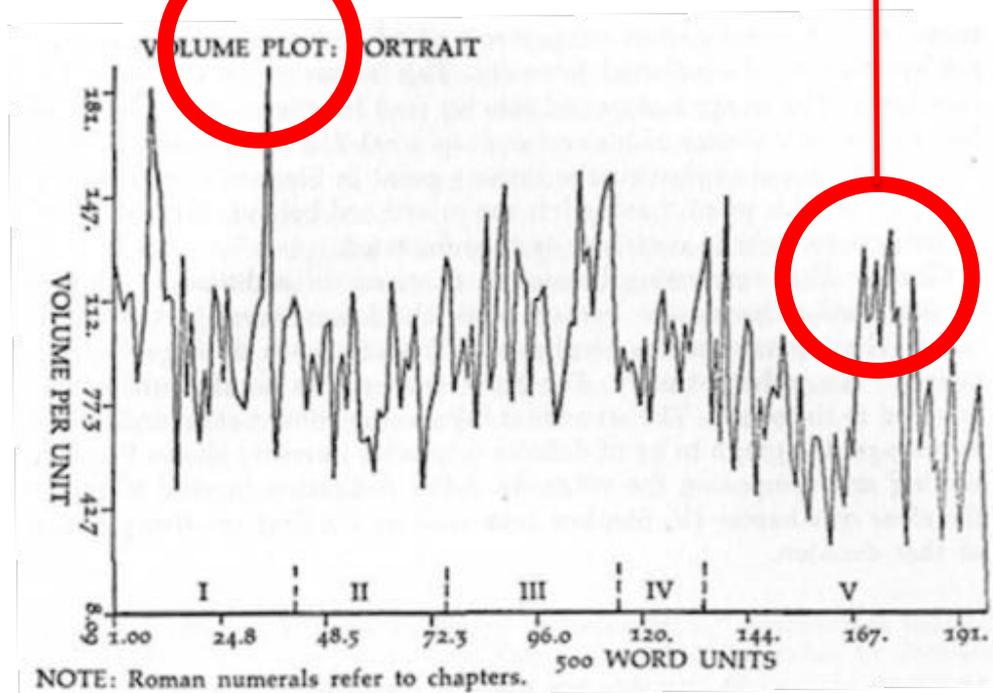
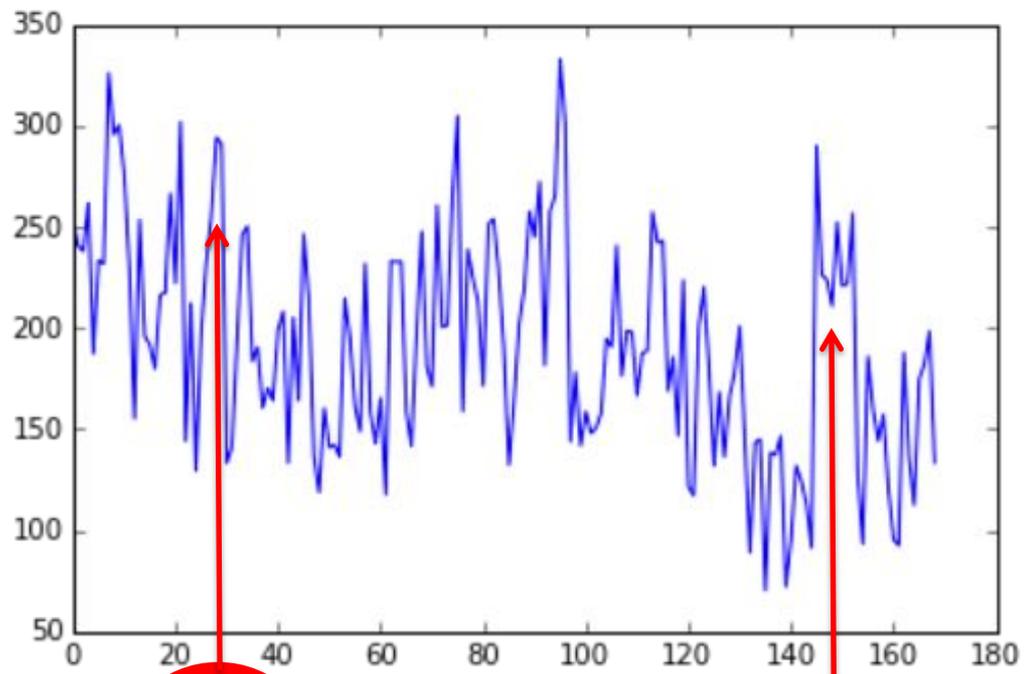
Smith's Tool

(according to the article)

- Custom dictionary of 1300 words with emotional valence
- Divided text into 500 word chunks
- Frequency of words per chunk
 - (Some weighting)



Comparison



Imagery And The Mind Of Stephen Dedalus

#	IMAGE	PREQ:	TOTAL	CH1	CH2	CH3	CH4	CH5
1	ABBEY		3	3	0	0	0	0
2	ABBOTS		2	2	0	0	0	0
3	ABLAZE		2	0	0	0	0	2
4	ABORO		1	0	0	0	1	0
5	ABYSS		5	0	1	4	0	0
6	ACCENT		10	0	3	1	2	4
7	ACHE		8	0	0	6	1	1
8	ACOLYTE		1	0	0	0	1	0
9	ADAM		6	0	0	6	0	0
10	AFLAME		2	0	0	0	2	0
11	AFPRAID		17	7	6	1	0	3
12	AFTERGLOW		2	0	0	0	0	2
13	AGLOW		1	0	0	0	1	0
14	AGONY		11	1	1	9	0	0
15	AIR		87	25	10	11	18	23
16	ATCIB		2	0	0	2	0	0

Jupyter Notebook

<https://github.com/sgsinclair/epistemologica/blob/master/Smith-Imagery.ipynb>

John B. Smith and Imagery in Joyce's *Portrait* (1973)

In 1973 John B. Smith published an article entitled "Image and Imagery in Joyce's Portrait: A Computer-Assisted Analysis" in a collection of essays titled *Literary Criticism: Contemporary Approaches to Literature*. In this article Smith presents a thesis about the use of imagery by James Joyce through a computer-generated distribution graph of image words.

 Smith Imagery

Acquiring the Text

We'll begin by fetching the edition of Joyce's [Portrait](#) that's available from the [Gutenberg Project](#). It's always worth noting that other editions may be preferable for various reasons, but the Gutenberg edition has the benefit of convenience and longevity.

Fetching a URL can be very quick and easy in Python, but we'll take a detour to first check if there's a local copy of the text file – to avoid the problems of connectivity and access management.

```
In [46]: import os, urllib.request

# get the text from a filename (if it exists) or fetch the contents (and cache it for next time)
def get_text_local_or_url(filename, url):

    # do we have a local copy? if so read it in and return it
```

Literary Attention vs. City Population

Measure relationship between literary attention as measured by geographic location occurred between 1790 and as late as 1990. There's a fuller write-up on [my blog](#).

Preliminaries

```
In [1]: %matplotlib inline

import pandas as pd
pd.set_option('max_columns', 50)

import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

Data

```
In [2]: cities = pd.read_csv('https://gist.githubusercontent.com/wilkens/9d6e...')
cities.head()
```

```
Out[2]:
```

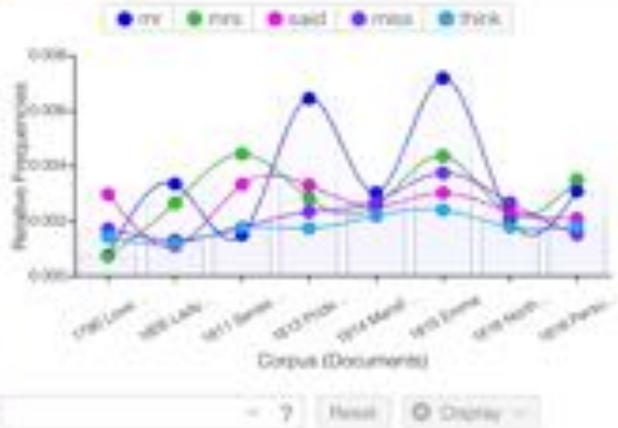
	city	year	population	literature
0	New York	1790	33100	10603

<http://bit.ly/29TOgYE>



1790 Love And Freindship

LOVE AND FREINDSHIP AND OTHER EARLY WORKS
 (Love And Friendship And Other Early Works)
 A Collection of Juvenile Writings
 By Jane Austen
 Transcriber's Note: A few very small changes have been made to this version. Italics have been converted to capitals. The British



This corpus has 8 documents with 781,763 total words and 15,368 unique word forms. Created about a month ago.

Document Length:

- Longest: 1815 Emma (96996); 1814 Mansfold Park (96481); 1813 Pride and Prejudice (92294); 1811 Sense and Sensibility... (119957); 1816 Persuasion (89657)
- Shortest: 1805 Lady Susan (3146); 1790 Love And Freindship (3058); 1818 Northanger Abbey (7779); 1816 Persuasion (89657); 1811 Sense and Sensibility... (119957)

Items: 1

Document	Left	Term	Right
1) 1790 ...	gentest family once we came.	mr	and Mrs Marlowe are very
1) 1790 ...	A brother of Mrs Marlowe,	mr	Cleveland is with them at
1) 1790 ...	thired by the entreaties of	mr	Fitzgerald who is certainly one
1) 1790 ...	a Concert or a Ball.	mr	Marlowe is so desirous of
1) 1790 ...	Kickabout's; we were escorted by	mr	Fitzgerald who is a very

Veliza

We were discussing you -- not me.

How can I read myself then

Whether or not you can read yourself then depends on you more than on me.

I depend on you to teach me

Perhaps in your fantasies we depend on each other.

Can you interpret fantasies

You believe I can interpret fantasies don't you ?

"When my hunger was appeased, I directed my steps towards the well-known path that conducted to the cottage.

Does that suggest anything else which belongs to you ?

We were discussing you -- not me.

Have you read Frankenstein

Concordance of father

You want to see a concordance of " father " ?

Contexts



Document	Left	Term	Right
1) Other...	sum in prize-money, the	fat...	of the girl consented to
1) Other...	was poor, and that her	fat...	would never consent to the
1) Other...	himself solicited the young wo...	fat...	to consent to her marriage
1) Other...	who, when he found the	fat...	inexorable, quitted his country,...
1) Other...	counsellors and syndics, and my	fat...	had filled several public situatio...
1) Other	became a husband and the	fat	of a family. As the

113 context

expand

expand

Hello, I'm Veliza, and I'm here to talk to you about your texts (you may know my sister [Eliza](#) she's a famous psychotherapist). I'm just learning to talk about text documents, but please, let me know about any anxieties you're feeling about your texts. Type a message in the box below and hit enter. Or, if you're feeling playful, hit the *from text* button in the lower right-hand corner to fetch a sentence from the corpus.

Have you read Frankenstein?

We were discussing you -- not me.

Script Editor

This is an advanced feature that allows you see and edit the script used by Veliza. For more information on the syntax, see the [documentation](#).

```
pre: dont don't
pre: cant can't
pre: wont won't
pre: recollect remember
pre: recall remember
pre: dreamt dreamed
pre: dreams dream
pre: maybe perhaps
pre: certainly yes
pre: machine computer
pre: machines computer
pre: computers computer
post: am are
post: your my
pre: were was
post: me you
pre: you're you are
pre: i'm i am
post: myself yourself
post: yourself myself
post: i you
post: you I
post: my your
post: i'm you are
pre: same alike
pre: identical alike
```

Type text and hit enter

send

from text

<text Title>Dialogues Concerning Natural Religion by David Hume

<text Text>

<part 0>

<text Title>PAMPHILUS TO HERMIPPUS

<text Text>

<sp PAMPHILUS>It has been remarked, my HERMIPPUS, that though the ancient philosophers conveyed most of their instruction in the form of dialogue, this method of composition has been little practised in later ages, and has seldom succeeded in the hands of those who have attempted it. Accurate and regular argument, indeed, such as is now expected of philosophical inquirers, naturally throws a man into the methodical and didactic manner; where he can immediately, without preparation, explain the point at which he aims; and thence proceed, without interruption, to deduce the proofs on which it is established. To deliver a SYSTEM in conversation, scarcely appears natural; and while the dialogue-writer desires, by departing from the direct style of composition, to give a freer air to his performance, and avoid the appearance of Author and Reader, he is apt to run into a worse inconvenience, and convey the image of Pedagogue and Pupil. Or, if he carries on the dispute in the natural spirit of good company, by throwing in a variety of topics, and preserving a proper balance among the speakers, he often loses so much time in preparations and transitions, that the reader will scarcely think himself compensated, by all the graces of dialogue, for the order, brevity, and precision, which are sacrificed to them.

COCOA

part 0

text Title

text Text

sp PAMPHILUS

part 1

sp DEMEA

sp PHILO

sp CLEANTHES

blockquote

br

part 2

sp Philo

part 3

part 4

part 5

part 6

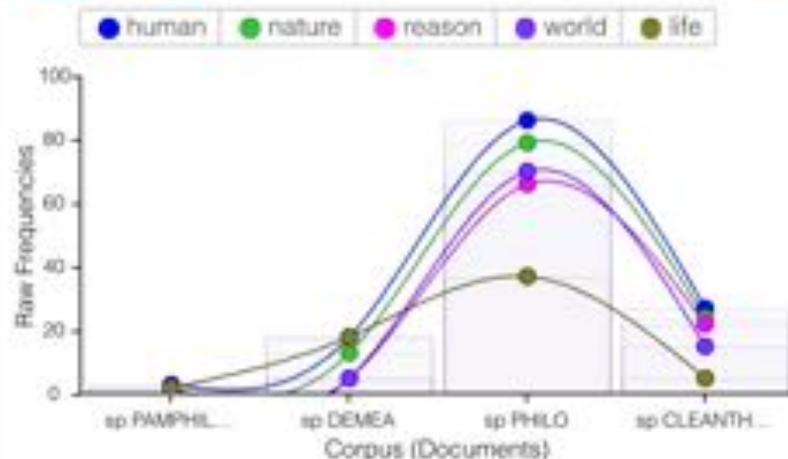
Create New Voyant Corpus

Combine documents with the same tag attribute

	Term	Count	Trend
<input checked="" type="checkbox"/>	1 human	134	
<input checked="" type="checkbox"/>	2 nature	117	
<input checked="" type="checkbox"/>	3 reason	95	
<input checked="" type="checkbox"/>	4 world	90	
<input type="checkbox"/>	5 cleanthes	86	
<input type="checkbox"/>	6 cause	83	
<input type="checkbox"/>	7 universe	73	
<input type="checkbox"/>	8 order	72	

sp PAMPHILUS

It has been remarked, my HERMIPPUS, that though the ancient philosophers conveyed most of their instruction in the form of dialogue, this method of composition has been little practised in later ages, and has seldom



4,053

	Title	Words	Types	Ratio	Words/Sentence	Document	Left	Term	Right
1	sp PAMPHILUS	988	441	45%	61.8	1) sp P...	so OBSCURE and ...	hu...	reason can reach ...
2	sp DEMA	4,036	1,242	31%	29.0	1) sp P...	greatest and pures...	hu...	life, study and soci...

0

Modify Download

134 context expand

Smith, ARRAS (1984)

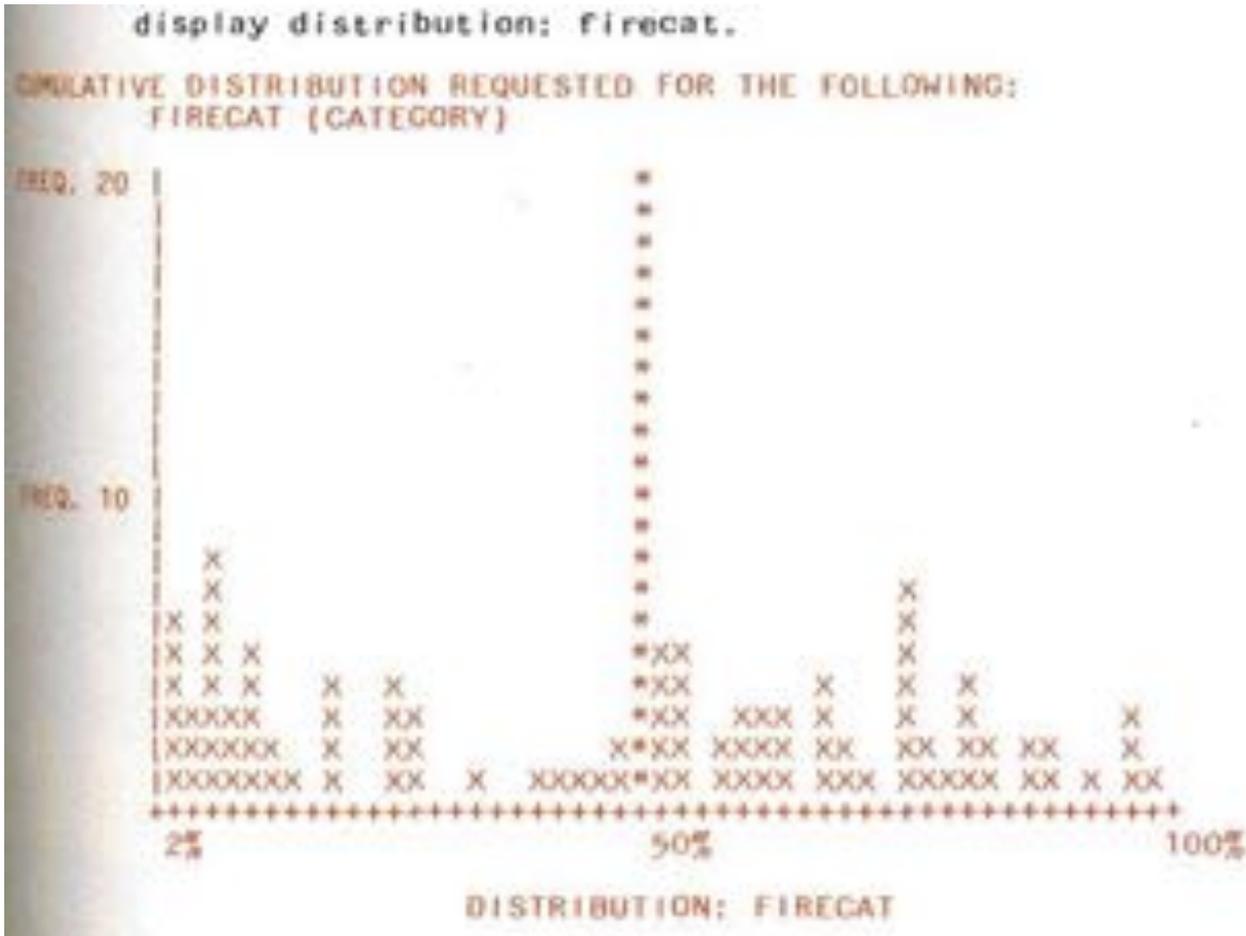
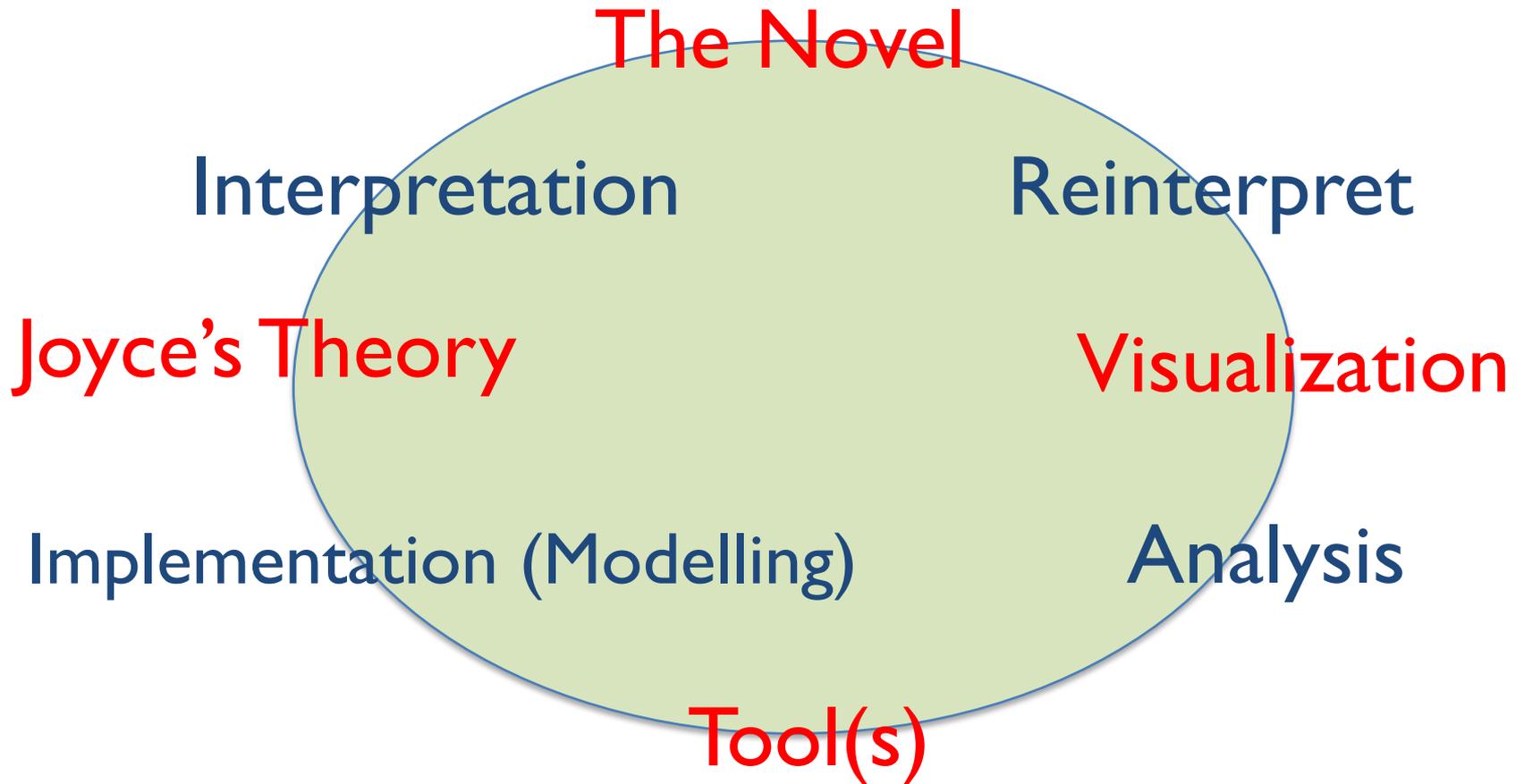


Figure 3. The DISTRIBUTION command in ARRAS produces a bar graph showing the number of times a specified word or category occurs in a given interval of text. In this case, the occurrences of all words in the fire category are accumulated and plotted for each two-percent interval of text. The column of asterisks indicates more than 20 occurrences for that two-percent interval of text. Again, the program's response is printed here in color.

Baird, Thing Knowledge (2004)

Part of the reason **instruments have largely escaped the notice of scholars** and others interested in our modern techno-scientific culture is **language, or rather its lack**. Instruments are developed and used in a context where mathematical, scientific, and ordinary language is neither the exclusive vehicle of communication nor, in many cases, the primary vehicle of communication. **Instruments are crafted artifacts, and visual and tactile thinking and communication are central to their development and use.** (p. XV)

Zombie Interpretation



Re-Re Words

Revivification, Recapitulation,
Recapture, Recovery, Replication,
Reflection, Reproduction, Relive,
Respond, Reinterpretation,
Recreate

Enculturational Model

The model which seems most appropriate is one which involves the **transmission of a culture which legitimates and limits the parameters requiring control in the experimental situation**, without necessarily formulating, enumerating or understanding them, and which ipso-facto generates the set of anomalous experiments (failures which can't be explained by uncontrolled legitimate parameters).

An important corollary of this model is that *the transfer of knowledge is not directly monitorable.*"

(Collins, "The Seven Sexes", 207)

Exploratory Archaeology

- Lack of clear aims
- Insufficient detail on materials and methods
- Compromises over authentic materials
- Inappropriate parameters
- Lack of academic context

Outram, “Introduction to experimental archaeology” 2008

Silents Now

<http://silent-no.co.uk>



Th[i,a]nk(s) geoffrey.rockwell@ualberta.ca
 Tapor.ca

John B. Smith and Imagery:

<https://github.com/sgsinclair/epistemologica/blob/master/Smith-Imagery.ipynb>

Are you a
replicant?

