

The Meaning of Meaning

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Principles of Complex Systems, Vols. 1 & 2
CSYS/MATH 300 and 303, 2021-2022 | @pocsvox

Prof. Peter Sheridan Dodds | @peterdodds

Computational Story Lab | Vermont Complex Systems Center
Vermont Advanced Computing Core | University of Vermont



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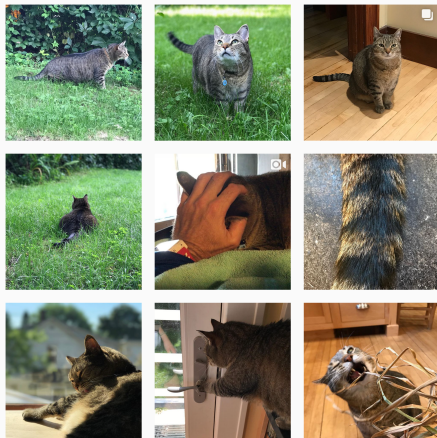
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The meaning of meaning:



“Ousiometrics and Telegnomics: The essence of meaning conforms to a two-dimensional powerful-weak and dangerous-safe framework with diverse corpora presenting a safety bias” ↗

Dodds et al.,
, 2021. [5]

What does meaning even mean?

 From the smack-tweeting Merriam-Webster:¹
“The thing that is conveyed especially by language”

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What does meaning even mean?

🧱 From the smack-tweeting Merriam-Webster:¹
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🧱 What are the essential characteristics of meaning?

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What does meaning even mean?

- From the smack-tweeting Merriam-Webster:¹
“The thing that is conveyed especially by language”
- What are the essential characteristics of meaning?
- Does essential meaning meaningfully span some kind of space?

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- From the smack-tweeting Merriam-Webster:¹
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- What are the essential characteristics of meaning?
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¹Life goal: Never get owned by a dictionary on social media

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This is not easy:

“Abed’s Uncontrollable Christmas”

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- 📦 Abed searches for the meaning of Christmas (in stop animation)
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- 🧱 Pierce Hawthorne: “That’s the meaning of Christmas?”
- 🧱 Abed Nadir: “It’s a metaphor. It represents lack of payoff.”

“Introduction to Teaching”

Abed Nadir: “I thought the meaning of people was somewhere in here. Then I looked inside Nicolas Cage and I found a secret

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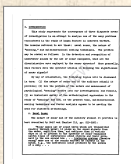
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The meaning of pings:






“A factorial study of complex auditory stimuli (passive sonar sounds)” 

L. M. Solomon,
Unpublished doctor's dissertation, University of Illinois, , ,
1954. ^[22]

From the introduction:

“This study represents the convergence of three disparate areas of investigation in an attempt to analyze one of the many problems encountered in the study of human factors in undersea warfare. The domains referred to are these:

-  naval sonar,
-  the nature of “meaning,”
-  and multidimensional scaling techniques.

The problem may be stated as follows: In the detection and recognition of underwater sounds by the use of sonar equipment, what are the discriminative cues employed by the sonar operator?

More generally, what factors does the operator utilize in decoding the significance of sonar signals?

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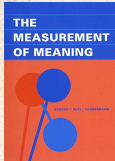
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From pings to things:



“The Measurement of Meaning”
by Osgood, Suci, and Tannenbaum (1957). ^[14]

THE DIMENSIONALITY OF THE SEMANTIC SPACE 67

Table 4
CORRELATED CENTROID FACTOR LOADINGS AND COMMUNITIES (EIGENMAN TEST)

	I	II	III	IV	V	VI	VII	VIII	IX
1. pleasant-unpleasant	.08	.35	-.05	.33	-.07	-.24	.12	-.20	.23
2. pleasant-pleasant	.24	.16	.24	.52	.29	-.11	.04	.26	.21
3. powerful-weak	.22	.22	.02	.55	.19	-.21	.05	.07	.45
4. interesting-uninteresting	.07	-.05	.23	.27	-.65	.23	.10	.18	.24
5. beautiful-ugly	.26	.26	.02	.72	-.27	-.15	-.11	.16	.24
6. white-black	.23	.14	.35	.20	.33	.24	.18	.03	.44
7. low-high	.22	.21	.26	.07	.26	-.25	.17	-.04	.25
8. powerful-weak	.13	-.40	.32	-.02	-.26	.45	.02	-.30	.58
9. interesting-uninteresting	.22	.21	.26	.07	.26	-.25	.17	-.04	.25
10. beautiful-ugly	.16	.41	-.27	.23	.07	-.29	.06	.11	.47
11. interesting-uninteresting	.43	-.25	.29	-.06	.11	-.06	.07	.04	.43
12. beautiful-ugly	.30	.20	.16	-.16	-.11	-.11	.16	.16	.20
13. interesting-uninteresting	.20	-.46	.18	.04	-.07	.04	.04	.04	.20
14. beautiful-ugly	.35	.17	.45	-.13	.23	-.25	.22	-.07	.40
15. interesting-uninteresting	.20	.33	.26	-.24	.21	-.29	-.06	.26	.20
17. meaningful-unmeaningful	.41	.30	.06	.33	-.37	-.37	.11	-.16	.27
18. important-unimportant	.22	-.01	.02	.53	.26	-.27	.14	.42	.22
19. interesting-uninteresting	.33	.31	.22	-.33	-.20	-.32	.03	.02	.37
20. meaningful-unmeaningful	.20	.21	.42	.02	.12	.05	-.04	.13	.27
21. interesting-uninteresting	.42	-.07	.28	-.11	.36	-.05	.02	.04	.26
22. important-unimportant	.23	-.45	-.03	.33	-.25	-.25	-.04	-.06	.52
23. interesting-uninteresting	.30	.29	.05	.29	.33	.02	-.23	.08	.39
24. beautiful-ugly	.43	.14	.21	.26	-.11	.19	.09	.24	.43
25. interesting-uninteresting	.21	.20	.28	.02	.07	-.07	.13	.25	.21
26. meaningful-unmeaningful	.42	-.26	.10	.11	.03	.04	.23	.22	.42
27. interesting-uninteresting	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
28. meaningful-unmeaningful	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
29. interesting-uninteresting	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
30. meaningful-unmeaningful	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
31. interesting-uninteresting	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
32. meaningful-unmeaningful	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
33. interesting-uninteresting	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
34. meaningful-unmeaningful	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
35. interesting-uninteresting	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
36. meaningful-unmeaningful	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
37. interesting-uninteresting	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
38. meaningful-unmeaningful	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
39. interesting-uninteresting	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
40. meaningful-unmeaningful	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
41. interesting-uninteresting	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
42. meaningful-unmeaningful	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
43. interesting-uninteresting	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
44. meaningful-unmeaningful	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
45. interesting-uninteresting	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
46. meaningful-unmeaningful	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
47. interesting-uninteresting	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
48. meaningful-unmeaningful	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
49. interesting-uninteresting	.29	.40	-.11	.32	-.07	.08	.47	.13	.43
50. meaningful-unmeaningful	.29	.40	-.11	.32	-.07	.08	.47	.13	.43



Osgood et al. used semantic differentials and factor analysis to identify a basis of three variables for meaning-space:



Evaluation: bad ↔ good



Potency: weak ↔ strong



Activity: passive ↔ active



100s of students, 10s of things, 50 semantic differentials

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Semantic differentials from Osgood et al.:^[14]

- | | | |
|------------------------|--------------------------|-------------------------|
| 1. pleasant-unpleasant | 18. large-small | 36. colorful-colorless |
| 2. repeated-varied | 19. clean-dirty | 37. hot-cold |
| 3. smooth-rough | 20. resting-busy | 38. rich-thin |
| 4. active-passive | 21. dull-sharp | 39. obvious-subtle |
| 5. beautiful-ugly | 22. deep-shallow | 40. wide-narrow |
| 6. definite-uncertain | 23. gliding-scraping | 41. deliberate-careless |
| 7. low-high | 24. familiar-strange | 42. happy-sad |
| 8. powerful-weak | 25. soft-hard | 43. gentle-violent |
| 9. steady-fluttering | 26. heavy-light | 44. mild-intense |
| 10. soft-loud | 27. wet-dry | 45. rounded-angular |
| 11. full-empty | 28. safe-dangerous | 46. slow-fast |
| 12. good-bad | 29. concentrated-diffuse | 47. rugged-delicate |
| 13. rumbling-whining | 30. pushing-pulling | 48. simple-complex |
| 14. solid-hollow | 31. labored-easy | 49. green-red |
| 15. clear-hazy | 32. dark-bright | 50. masculine-feminine |
| 16. calming-exciting | 33. even-uneven | |
| 17. pleasing-annoying | 34. loose-tight | |
| | 35. relaxed-tense | |

Definitions:

 Ousiometrics: The quantitative study of the **essential meaningful components** of an entity, however perceived.

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 Used in philosophical and theological settings, the word 'ousia' comes from Ancient Greek οὐσία.

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Definitions:

-  Ousiometrics: The quantitative study of the **essential meaningful components** of an entity, however perceived.
-  Used in philosophical and theological settings, the word 'ousia' comes from Ancient Greek οὐσία.
-  To be distinguished from semantics, semiotics, ...
-  οὐσία is the etymological root of the word 'essence'.

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-  Ousiometry, ousiometer, ousiograms, ...

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Essential dimensions captured by emotion:



Late 1800s: Three dimensional representation of emotion postulated by Wendt. [23, 17]

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 Evaluation ~ Pleasure/Valence

 Potency ~ Dominance

 Activity ~ Arousal

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 VAD has become standard nomenclature even though emotion is less general than meaning.

 Explicit presumption of independence of VAD dimensions, has hardened as fact.

 Intention that VAD \equiv EPA has become lost in literature. [2]



Major problems with measuring essential meaning:

1. **Scale:** Originally 10s and 100s of words → now 10,000s + online rating.

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Major problems with measuring essential meaning:

1. **Scale:** Originally 10s and 100s of words → now 10,000s + online rating.
2. **The focus on types alone and not tokens:** Missing the forest for the book of tree species.
3. **The use of Likert scales for semantic differentials:** Solid but can be improved upon.
4. **Limitations of factor analysis for a large number of categorical dimensions:** Ousiograms will help sort things out.
5. **The misalignment between expert-chosen, end-point descriptors and dimensions of essential meaning:** How to guide raters to score VAD dimensions?

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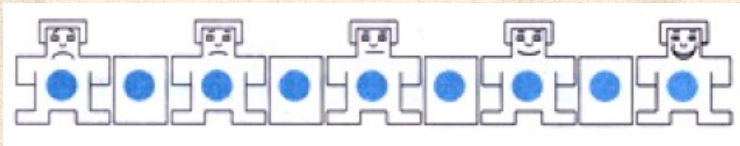
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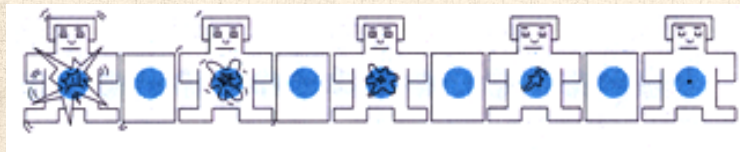


1999 ANEW study—three 1–9 scales: [4]

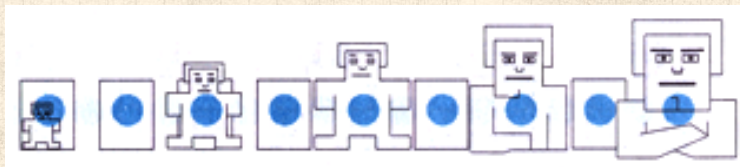
valence:



arousal:



dominance:



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ANEW study: Valence ~ Happiness:



Valence scale presented to participants as a 'happy-unhappy scale.'



Participants were further told:

"At one extreme of this scale, you are happy, pleased, satisfied, contented, hopeful. ..."

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ANEW study: Valence ~ Happiness:

Valence scale presented to participants as a 'happy-unhappy scale.'

Participants were further told:

"At one extreme of this scale, you are happy, pleased, satisfied, contented, hopeful. ...

The other end of the scale is when you feel completely unhappy, annoyed, unsatisfied, melancholic, despaired, or bored."

The Hedonometer was always about essential meaning.

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The other end of the scale is when you feel completely unhappy, annoyed, unsatisfied, melancholic, despaired, or bored."

The Hedonometer was always about essential meaning.

We now know that ANEW is a no-no:

Problem: Expert-chosen list of ~ 1,000 words.

Fine words but poorly cover real texts ^[16].

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Remeasuring meaning:

“Obtaining Reliable human ratings of valence, arousal, and dominance for 20,000 English words” ↗

Saif M. Mohammad,
Proceedings of The Annual Conference of
the Association for Computational
Linguistics (ACL), **38**, , 2018. [11]



Moving beyond Likert scales:

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Moving beyond Likert scales:

 Best-worst scaling 

 Ask raters to examine n things once, and choose the best and worst according to some criterion.

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Moving beyond Likert scales:

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 Ask raters to examine n things once, and choose the best and worst according to some criterion.

 For $n = 4$, there are 6 pair comparisons of Things.

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Moving beyond Likert scales:

🧱 Best-worst scaling ↗

🧱 Ask raters to examine n things once, and choose the best and worst according to some criterion.

🧱 For $n = 4$, there are 6 pair comparisons of Things.

🧱 Choosing best and worst gives 5 orderings:

$$\tau_1 > \tau_2, \tau_3 > \tau_4.$$

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Moving beyond Likert scales:

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$$\tau_1 > \tau_2, \tau_3 > \tau_4.$$

🧱 Things end up with scores in $[0, 1]$.

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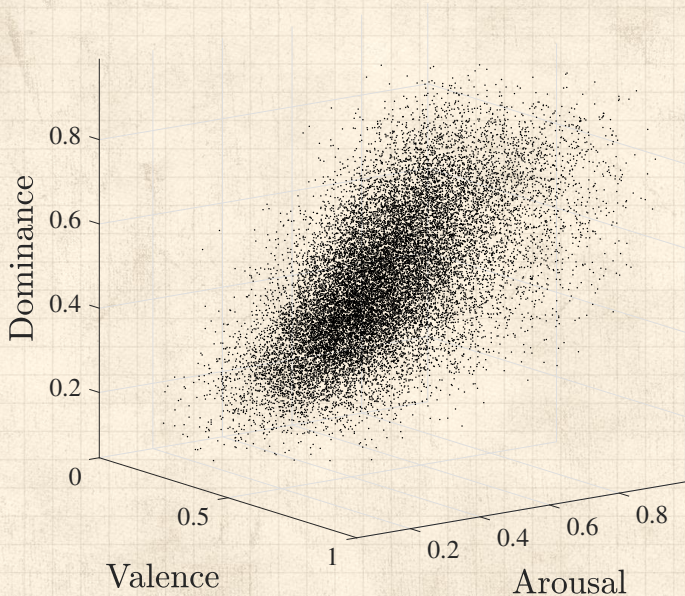


NRC VAD Lexicon^[11]

VAD endpoints:	Paradigm words and phrases presented to raters: ^[12]
highest valence	happiness, pleasure, positiveness, satisfaction, contentedness, hopefulness
lowest valence	unhappiness, annoyance, negativeness, dissatisfaction, melancholy, despair
highest arousal	arousal, activeness, stimulation, frenzy, jitteriness, alertness
lowest arousal	unarousal, passiveness, relaxation, calmness, sluggishness, dullness, sleepiness
highest dominance	dominant, in control of the situation, powerful, influential, important, autonomous
lowest dominance	submissive, controlled by outside factors, weak, influenced, cared-for, guided

Major problem 5: Imposing dimensions through clouds of endpoint descriptors.

The Delicious English Muffin of Meaning:¹



¹Apricot jam, always.

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Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

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Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

 VAD: 44.4%, 28.0%, and 27.6%.

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Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

 VAD: 44.4%, 28.0%, and 27.6%.

 Apply SVD.

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Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

- 🧱 VAD: 44.4%, 28.0%, and 27.6%.
- 🧱 Apply SVD.
- 🧱 Singular values: $\sigma_1 \simeq 34.1$, $\sigma_2 \simeq 27.2$, and $\sigma_3 \simeq 13.8$,

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- 🧱 For what will be Goodness-Energy-Structure (GES):
55.6%, 35.3%, and 9.1%

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- 🧱 For what will be Goodness-Energy-Structure (GES): 55.6%, 35.3%, and 9.1%
- 🧱 Rotate in G-E plane by $\pi/4$ for what will be Power-Danger-Structure (PDS) 45.5%, 45.5%, 9.1%

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Variance explained:

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55.6%, 35.3%, and 9.1%
- 🧱 Rotate in G-E plane by $\pi/4$ for what will be
Power-Danger-Structure (PDS)
45.5%, 45.5%, 9.1%
- 🧱 Interpretability enhancements:
Ousiograms.

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Building ousiograms (2021/01/31):



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Extremonyms: Synousionyms and Antousionyms:

Powerful-Safe (Good) to Weak-Dangerous (Bad) axis:

Synousionyms	Valence	Arousal	Dominance	Goodness	Energy	Structure	Power	Danger	Structure
Anchor: wisdom	0.430	-0.198	0.371	0.579	-0.031	-0.158	0.388	-0.432	-0.158
education	0.396	-0.225	0.340	0.539	-0.065	-0.167	0.336	-0.427	-0.167
healthy	0.438	-0.181	0.318	0.558	-0.047	-0.108	0.362	-0.428	-0.108
trustworthy	0.469	-0.185	0.324	0.589	-0.052	-0.100	0.379	-0.453	-0.100
reliable	0.412	-0.259	0.375	0.575	-0.076	-0.202	0.353	-0.460	-0.202
Antousionyms	Valence	Arousal	Dominance	Goodness	Energy	Structure	Power	Danger	Structure
bullshit	-0.458	0.176	-0.317	-0.575	0.046	0.095	-0.373	0.439	0.095
shitty	-0.480	0.179	-0.337	-0.604	0.042	0.100	-0.397	0.456	0.100
nauseate	-0.438	0.160	-0.324	-0.558	0.026	0.101	-0.376	0.413	0.101
weeping	-0.418	0.188	-0.332	-0.549	0.042	0.131	-0.359	0.418	0.131
shame	-0.440	0.170	-0.345	-0.572	0.023	0.120	-0.388	0.421	0.120
diarrhea	-0.408	0.184	-0.357	-0.552	0.023	0.151	-0.374	0.407	0.151

Powerful to Weak axis:

Synousionyms	Valence	Arousal	Dominance	Goodness	Energy	Structure	Power	Danger	Structure
Anchor: success	0.459	0.380	0.481	0.571	0.501	0.095	0.758	-0.050	0.095
almighty	0.438	0.374	0.458	0.543	0.487	0.098	0.728	-0.040	0.098
triumphant	0.449	0.337	0.472	0.565	0.462	0.073	0.726	-0.072	0.073
champion	0.390	0.380	0.445	0.494	0.492	0.087	0.698	-0.001	0.087
victorious	0.384	0.386	0.446	0.489	0.499	0.087	0.698	0.007	0.087
Antousionyms	Valence	Arousal	Dominance	Goodness	Energy	Structure	Power	Danger	Structure
sorrow	-0.448	-0.265	-0.336	-0.509	-0.329	-0.127	-0.593	0.127	-0.127
tasteless	-0.354	-0.304	-0.352	-0.430	-0.385	-0.092	-0.576	0.032	-0.092
idle	-0.321	-0.333	-0.388	-0.414	-0.434	-0.068	-0.600	-0.014	-0.068
empty	-0.312	-0.317	-0.419	-0.424	-0.439	-0.033	-0.610	-0.011	-0.033
void	-0.365	-0.337	-0.370	-0.443	-0.420	-0.103	-0.611	0.016	-0.103

Extremonyms: Synousionyms and Antousionyms:


Dangerous-Powerful (High Energy) to Safe-Weak (Low Energy) axis:

Synousionyms	Valence	Arousal	Dominance	Goodness	Energy	Structure	Power	Danger	Structure
Anchor: volcanic	-0.156	0.410	0.281	-0.061	0.515	-0.045	0.322	0.407	-0.045
shelling	-0.163	0.417	0.273	-0.072	0.518	-0.039	0.316	0.417	-0.039
artillery	-0.150	0.412	0.294	-0.050	0.523	-0.050	0.335	0.405	-0.050
wild	-0.188	0.422	0.250	-0.105	0.514	-0.032	0.289	0.438	-0.032
rifles	-0.163	0.364	0.265	-0.068	0.470	-0.062	0.284	0.380	-0.062
Antousionyms	Valence	Arousal	Dominance	Goodness	Energy	Structure	Power	Danger	Structure
couch	0.094	-0.418	-0.302	-0.002	-0.524	0.025	-0.372	-0.369	0.025
mellow	0.133	-0.431	-0.235	0.066	-0.504	-0.009	-0.310	-0.403	-0.009
pillow	0.163	-0.372	-0.305	0.049	-0.498	0.085	-0.317	-0.387	0.085
tortoise	0.173	-0.422	-0.250	0.092	-0.511	0.025	-0.297	-0.427	0.025
quilt	0.143	-0.377	-0.274	0.048	-0.482	0.052	-0.307	-0.375	0.052
cotton	0.139	-0.429	-0.260	0.059	-0.517	0.012	-0.324	-0.407	0.012

Dangerous to Safe axis:

Synousionyms	Valence	Arousal	Dominance	Goodness	Energy	Structure	Power	Danger	Structure
Anchor: homicide	-0.490	0.473	0.018	-0.485	0.478	0.011	-0.005	0.681	0.011
killer	-0.459	0.471	0.043	-0.446	0.485	0.008	0.028	0.658	0.008
psychopath	-0.460	0.443	0.036	-0.446	0.458	-0.003	0.009	0.640	-0.003
bloodshed	-0.452	0.442	0.025	-0.444	0.450	0.008	0.004	0.633	0.008
violate	-0.439	0.470	0.019	-0.440	0.468	0.033	0.020	0.642	0.033
Antousionyms	Valence	Arousal	Dominance	Goodness	Energy	Structure	Power	Danger	Structure
natural	0.354	-0.382	-0.019	0.354	-0.382	-0.026	-0.020	-0.520	-0.026
tranquil	0.417	-0.406	-0.145	0.351	-0.480	0.078	-0.091	-0.588	0.078
softness	0.375	-0.414	-0.098	0.338	-0.455	0.021	-0.082	-0.561	0.021
serenity	0.400	-0.378	0.057	0.429	-0.345	-0.054	0.060	-0.547	-0.054
comfortable	0.427	-0.337	-0.027	0.406	-0.361	0.039	0.032	-0.542	0.039
calmness	0.434	-0.395	-0.106	0.383	-0.453	0.065	-0.049	-0.591	0.065

Etymological, taxonomic, and nomenclatural madnesses:

 Physics: Power was once sometimes called Activity

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Etymological, taxonomic, and nomenclatural madnesses:

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 Danger  and Dominance trace back to Dominus 
(~ lord/ruler/person of power)

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Etymological, taxonomic, and nomenclatural madnesses:

🧱 Physics: Power was once sometimes called Activity

🧱 Danger ↗ and Dominance trace back to Dominus ↗
(~ lord/ruler/person of power)

🧱 Framing words for EPA, VAD, etc., matter greatly.

Other descriptors that don't hold up:

🧱 Success-Stress-Structure.

🧱 Energy/Flourishing/Thriving-Threat

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- 🧱 Energy/Flourishing/Thriving-Threat
- 🧱 Power-Order/Chaos-Gravity/Seriousness

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Connections between meaning dimensions:

$$\begin{bmatrix} \text{Goodness} \\ \text{Energy} \\ \text{Structure} \end{bmatrix} \approx \begin{bmatrix} +0.86 & -0.15 & +0.48 \\ -0.16 & +0.83 & +0.54 \\ +0.48 & +0.55 & -0.69 \end{bmatrix} \begin{bmatrix} \text{Valence} \\ \text{Arousal} \\ \text{Dominance} \end{bmatrix}$$

$$\begin{bmatrix} \text{Power} \\ \text{Danger} \\ \text{Structure} \end{bmatrix} \approx \begin{bmatrix} 0.53 & 0.45 & 0.72 \\ -0.70 & 0.71 & 0.07 \\ 0.48 & 0.55 & -0.69 \end{bmatrix} \begin{bmatrix} \text{Valence} \\ \text{Arousal} \\ \text{Dominance} \end{bmatrix}$$

$$\begin{bmatrix} \text{Power} \\ \text{Danger} \end{bmatrix} = \frac{1}{\sqrt{2}} \begin{bmatrix} 1 & 1 \\ -1 & 1 \end{bmatrix} \begin{bmatrix} \text{Goodness} \\ \text{Energy} \end{bmatrix} \quad (1)$$

From types to tokens: [7]

- Analysis so far is for a lexicon of types: Each word counts once.
- Must consider how words are used in real texts by frequency: Tokens.

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From types to tokens: [7]

- Analysis so far is for a lexicon of types: Each word counts once.
- Must consider how words are used in real texts by frequency: Tokens.
- Rebuild ousiograms with usage frequency incorporated.

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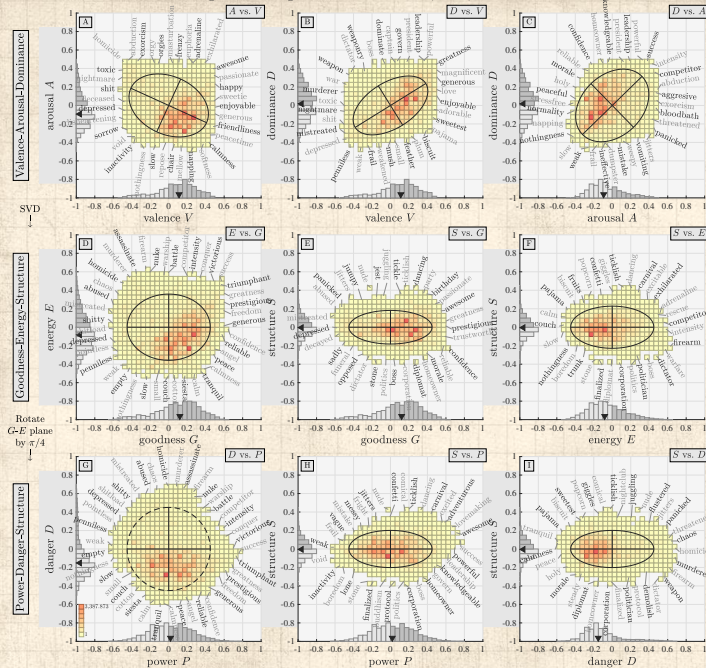
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Ousiograms for English fiction in the VAD, GES, and PDS frameworks:



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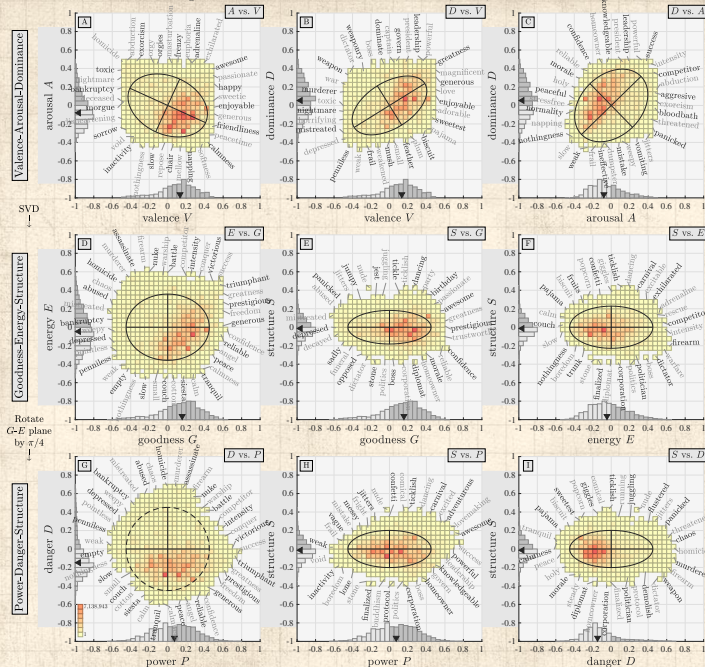
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Ousiograms for the New York Times in the VAD, GES, and PDS frameworks:



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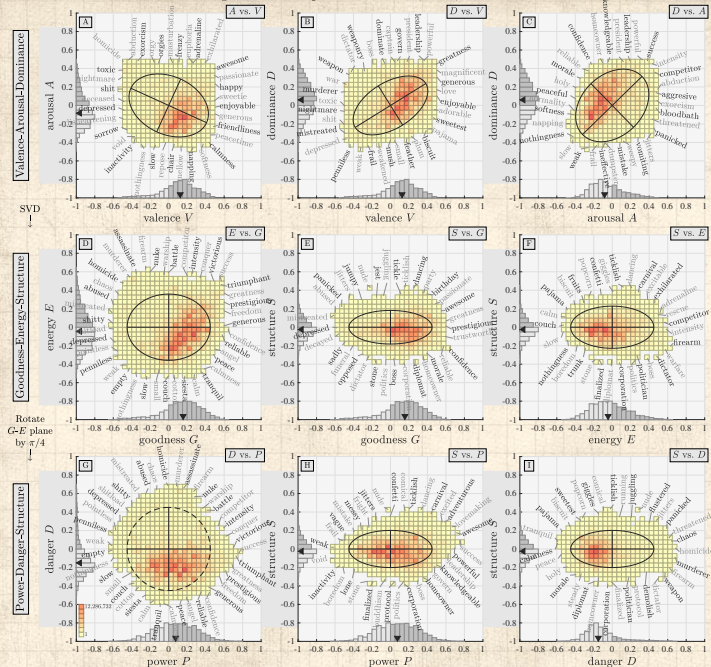
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Ousiograms for Wikipedia in the VAD, GES, and PDS frameworks:



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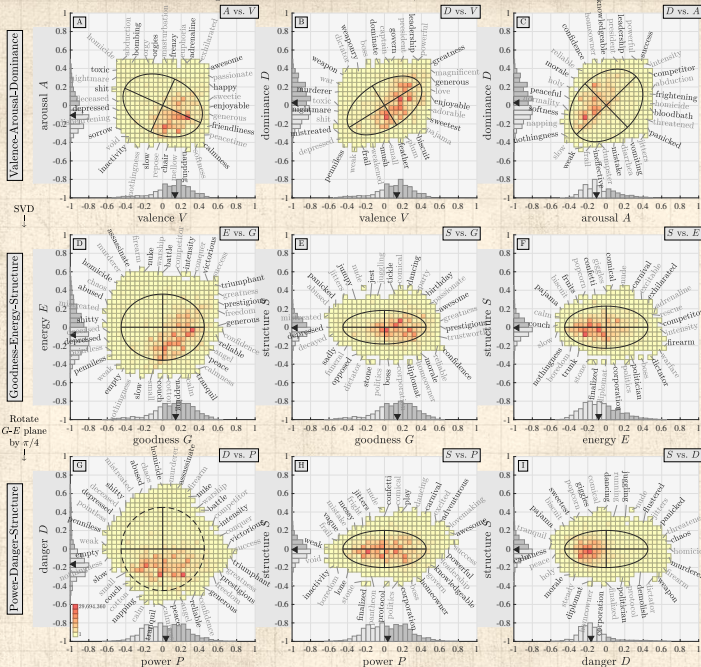
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Ousiograms for RadioTalk in the VAD, GES, and PDS frameworks:



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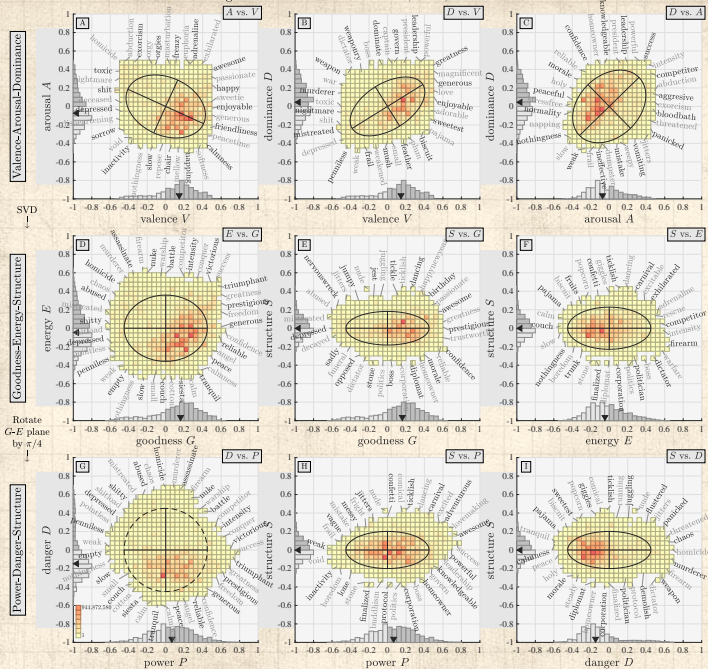
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Ousiograms for Twitter in the VAD, GES, and PDS frameworks:



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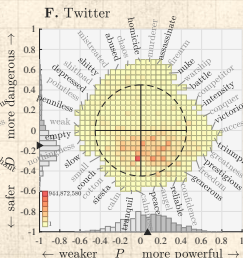
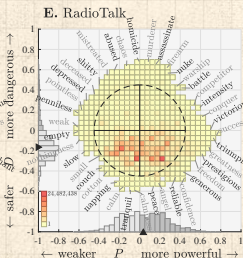
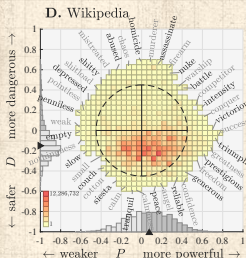
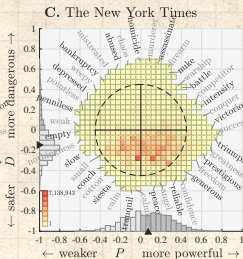
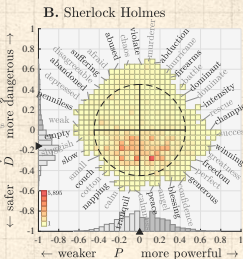
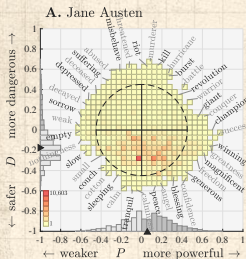
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A special thing has happened:

 The PDS framework emerged only from analyzing a lexicon (types).

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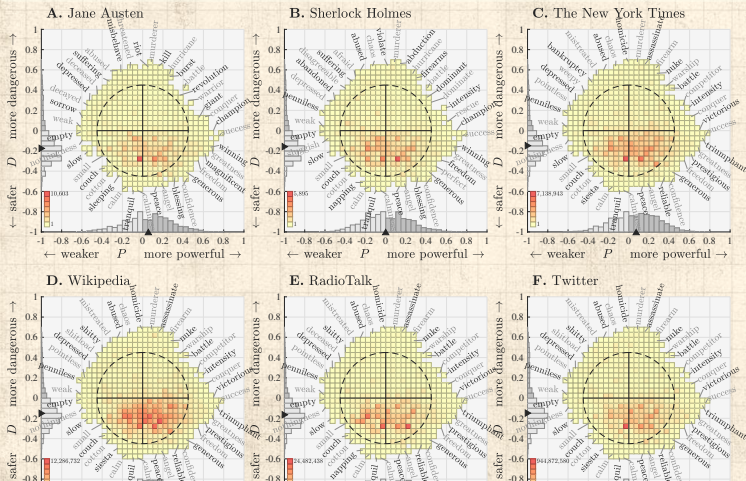
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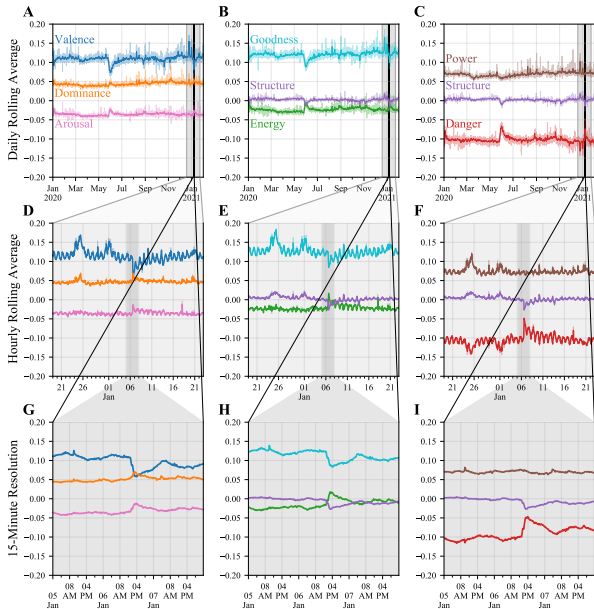
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Prototype ousiometer—Twitter:



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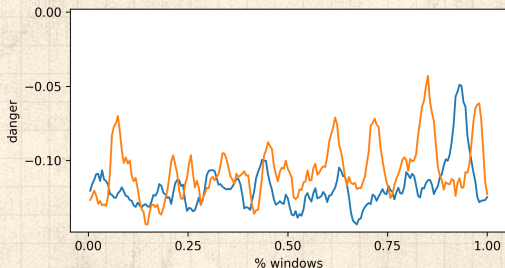
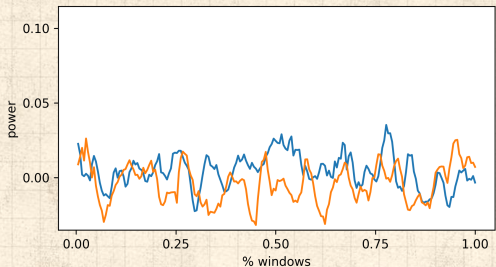
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Prototype ousiometer—Harry Potter:



Blue: Harry Potter and the Half-Blood Prince
Orange: Harry Potter and the Deathly Hallows

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Dungeons & Dragons—Two alignment axes for character:



Law-Chaos
(vertical) and
Good-Evil
(horizontal).

¹From this [Reddit thread](#), where, naturally, the choices are enthusiastically debated.

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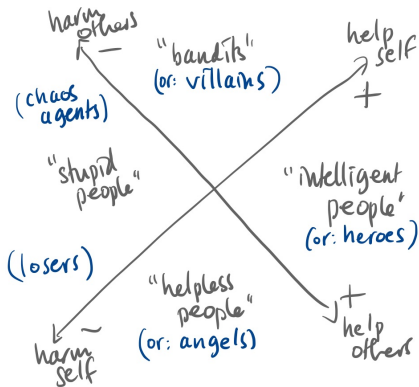
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lawful-good ~ structured- powerful-safe	neutral-good ~ neutral- powerful-safe	chaotic-good ~ unstructured- powerful-safe
lawful-neutral ~ structured- neutral	(true) neutral	chaotic-neutral ~ unstructured- neutral
lawful-evil ~ structured- dangerous	neutral-evil ~ neutral- dangerous	chaotic-evil ~ unstructured- dangerous



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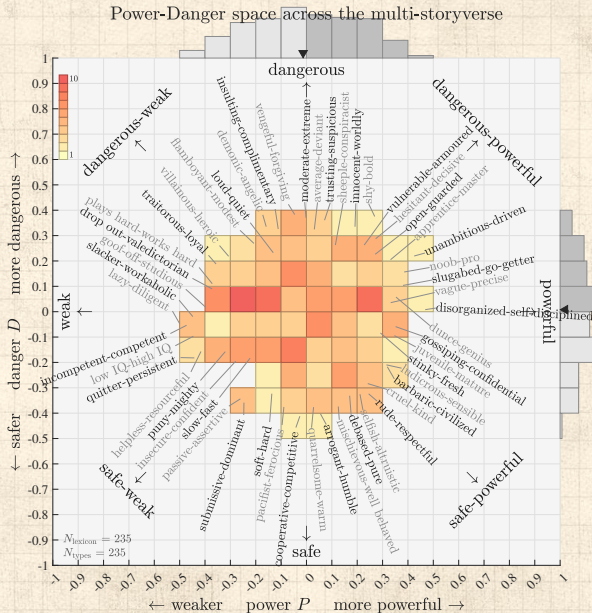
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800 characters, 200+ semantic differentials:



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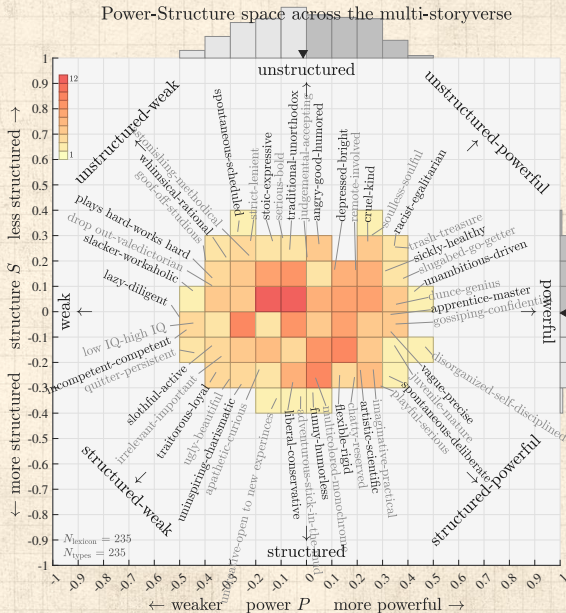
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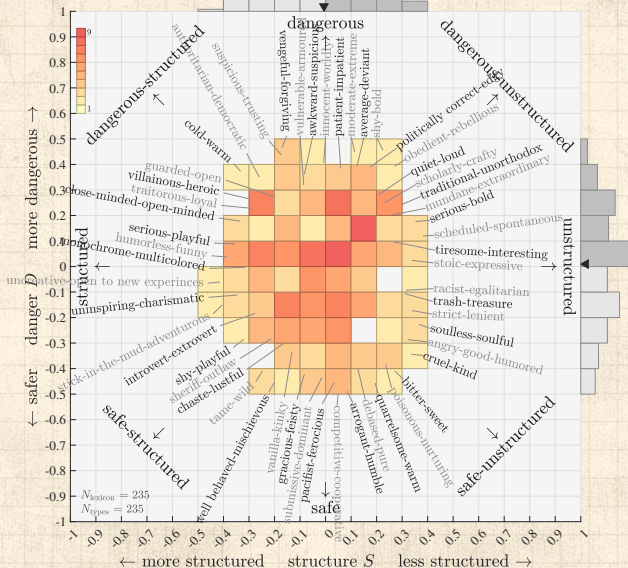
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800 characters, 200+ semantic differentials:

Structure-Danger space across the multi-storyverse



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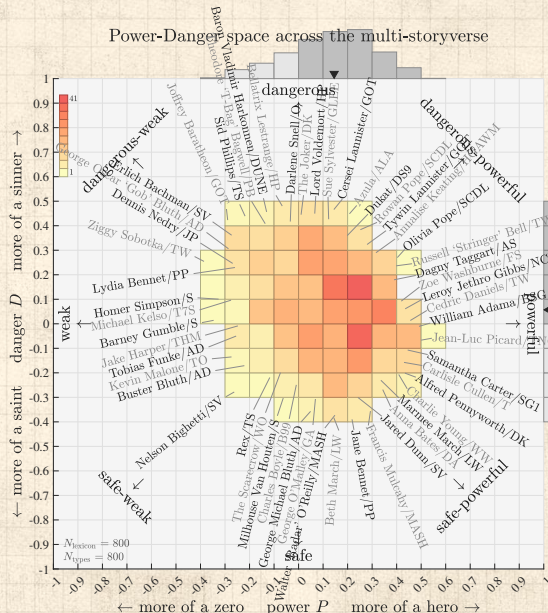
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800 characters, 200+ semantic differentials:



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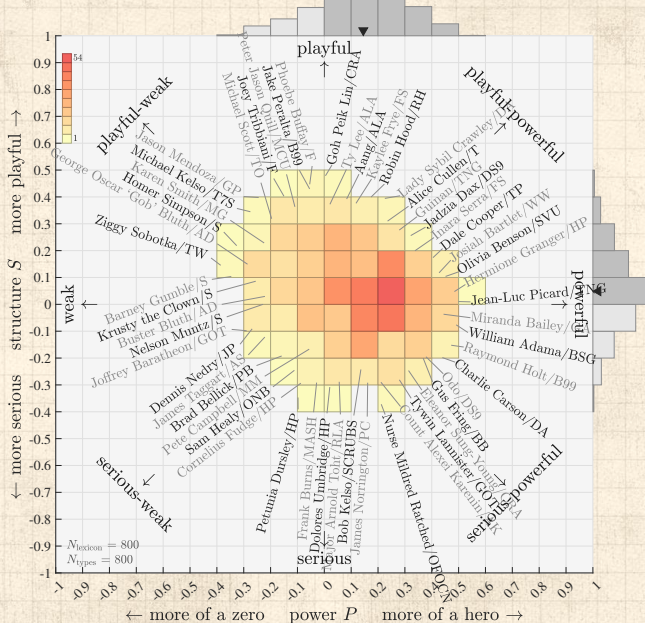
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800 characters, 200+ semantic differentials:

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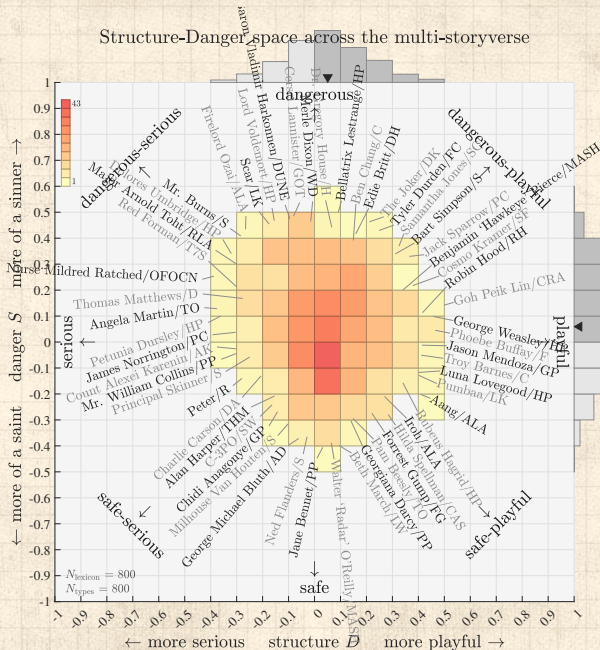
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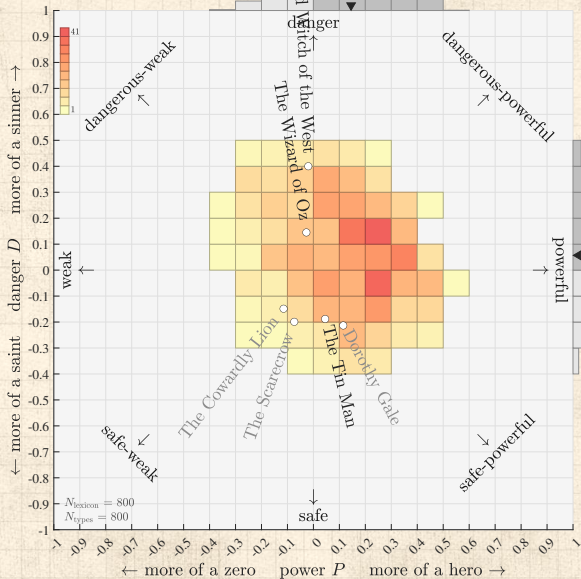
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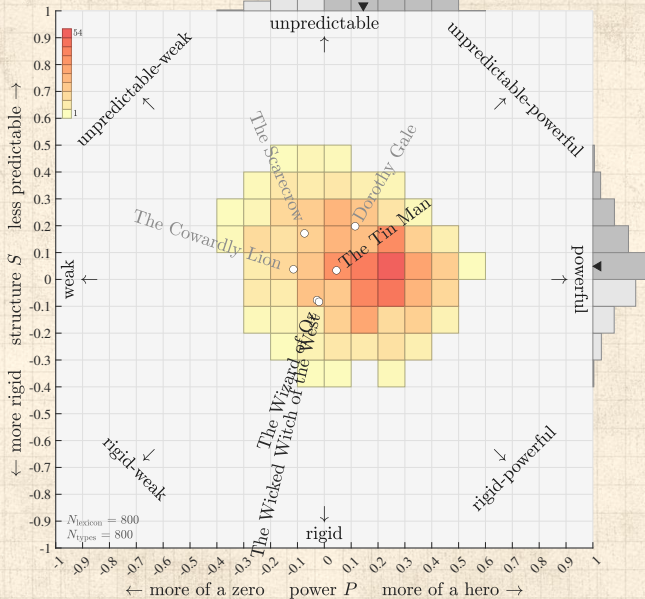




Power-Danger space for The Wizard of Oz



Power-Structure space for The Wizard of Oz



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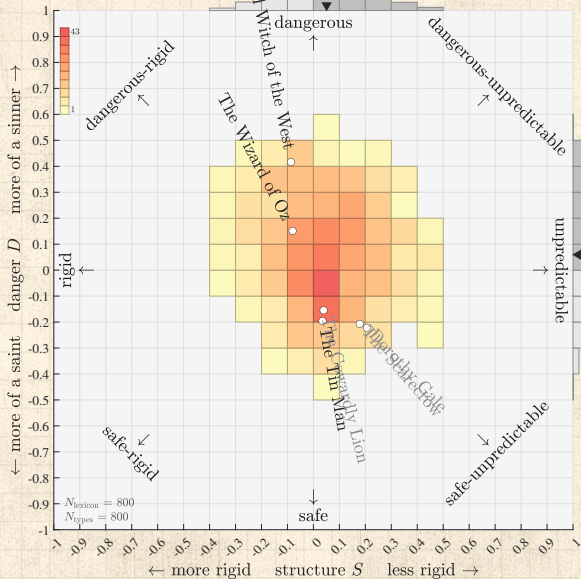
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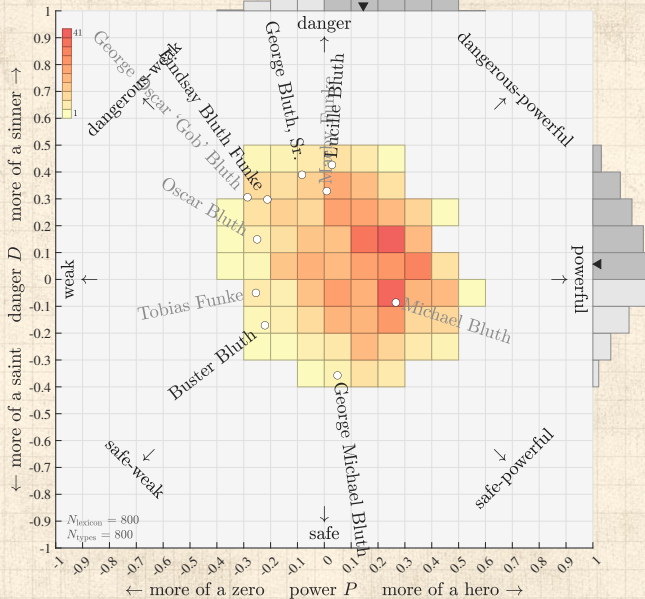




Structure-Danger space for The Wizard of Oz



Power-Danger space for Arrested Development



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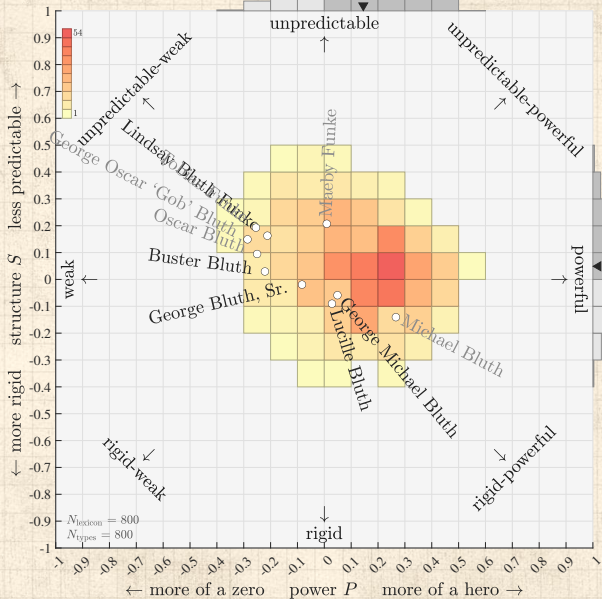
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Power-Structure space for Arrested Development



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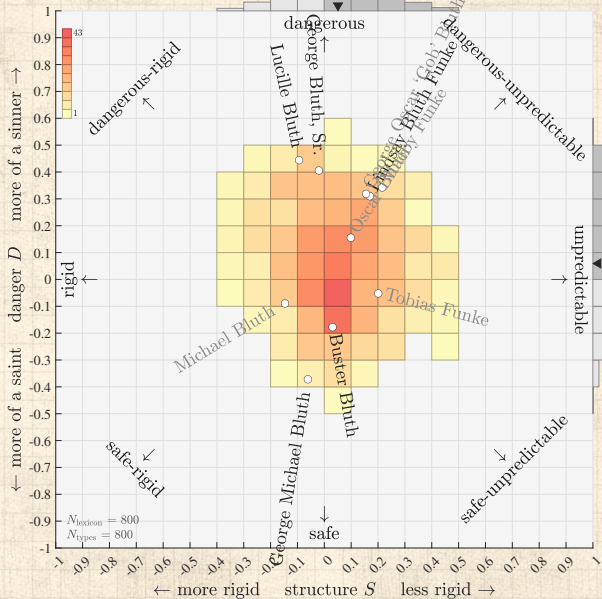
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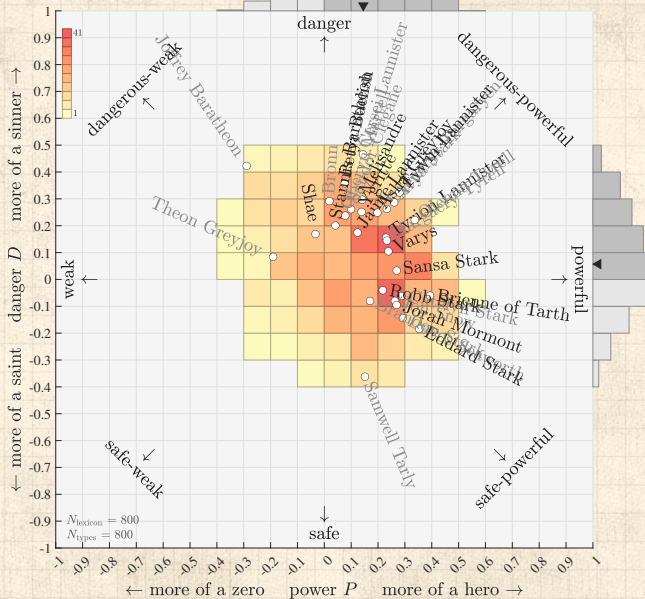
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Power-Danger space for Game of Thrones



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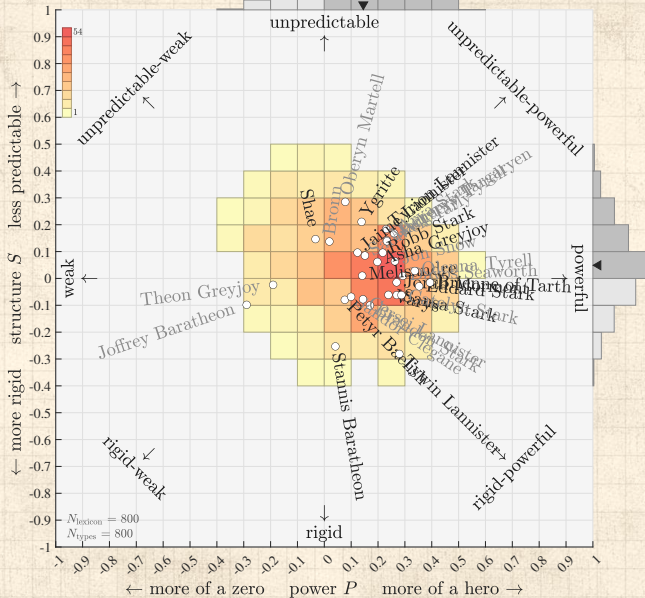
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Power-Structure space for Game of Thrones



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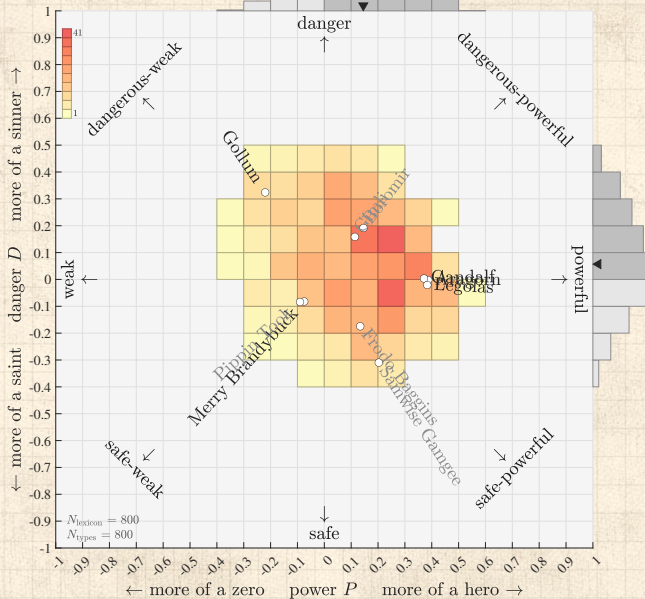
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Power-Danger space for Lord of the Rings



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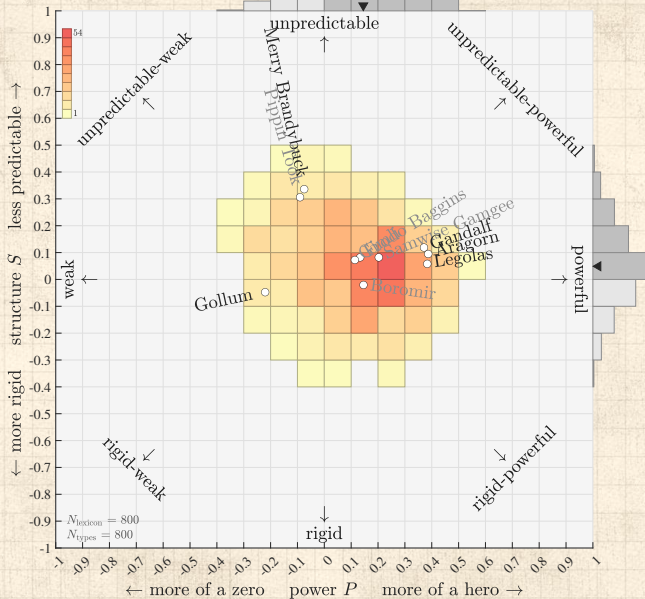
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Power-Structure space for Lord of the Rings



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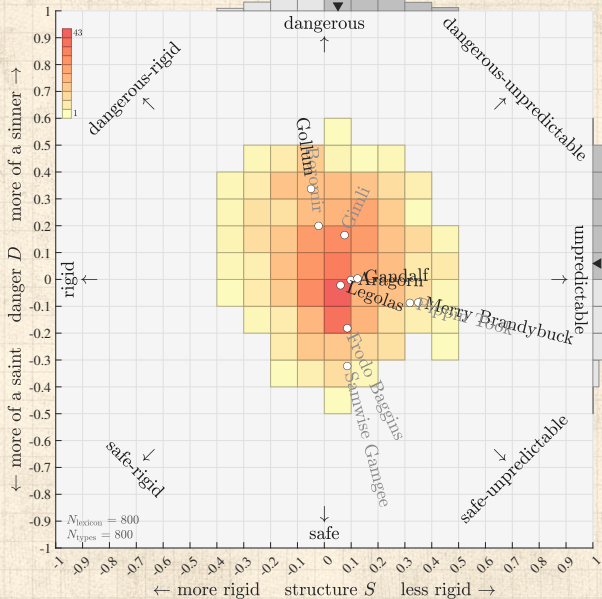
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Structure-Danger space for Lord of the Rings



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Power-Danger space for *Pride and Prejudice*

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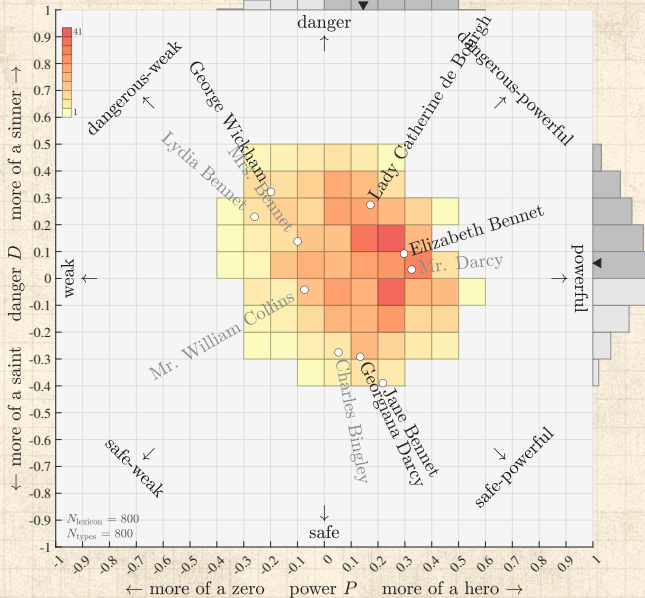
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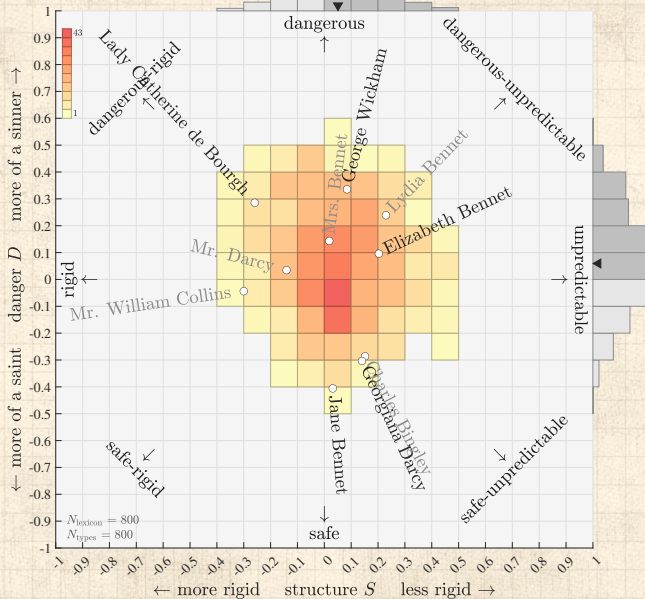
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Structure-Danger space for Pride and Prejudice



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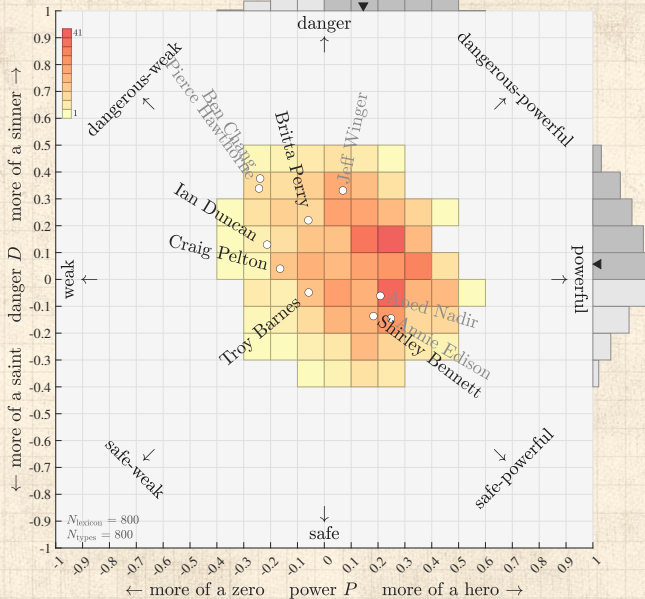
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Power-Danger space for Community



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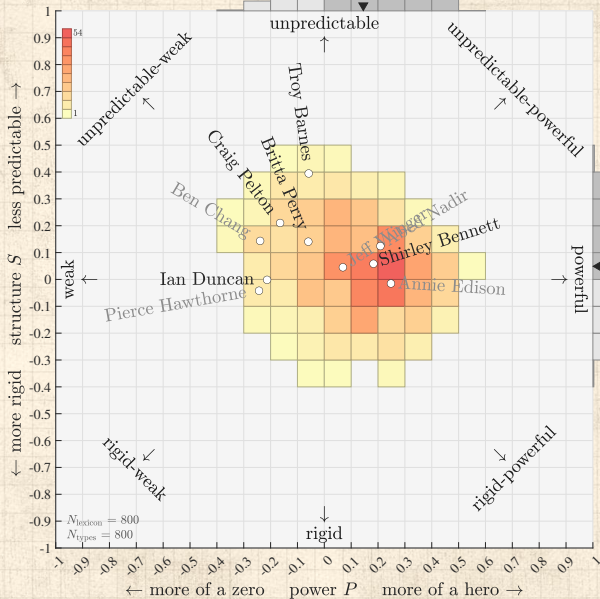
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Power-Structure space for Community



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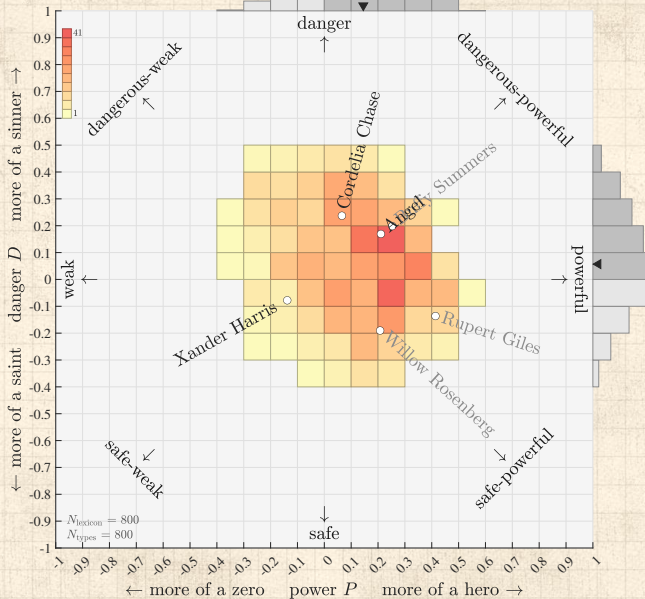
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Power-Danger space for Buffy the Vampire Slayer



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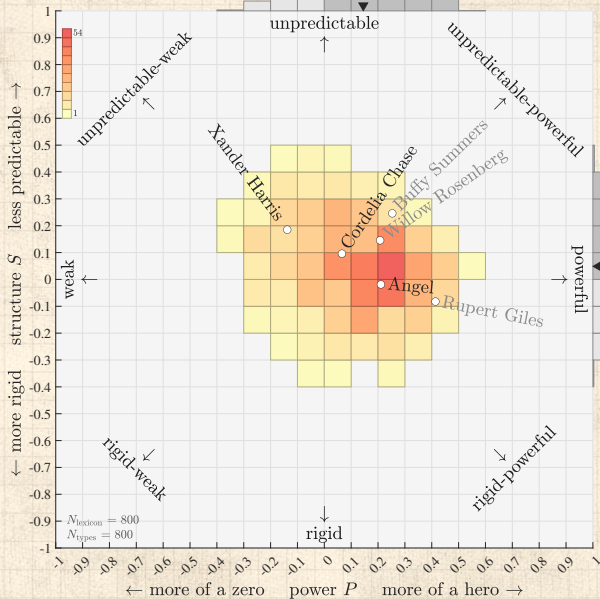
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Power-Structure space for Buffy the Vampire Slayer



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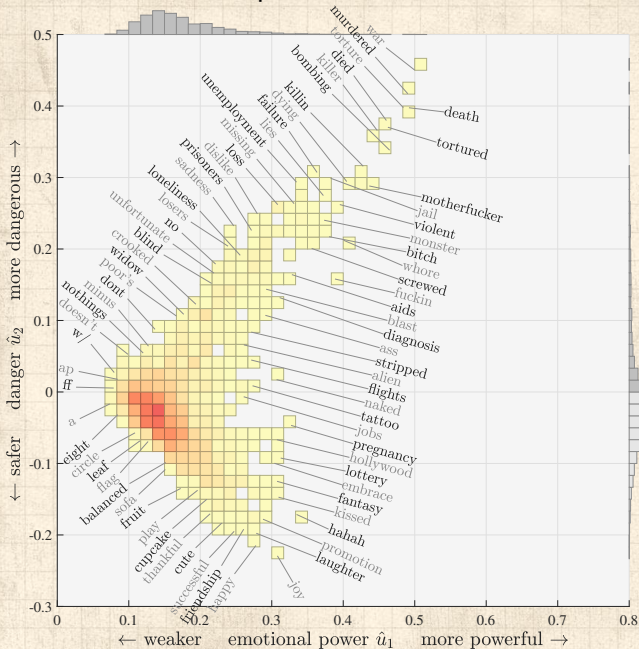
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Six emotions, collapsed:



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Findings, observations, possibilities:

 Power-danger-structure framework emerges in distinct settings, fitting types and tokens.

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See concluding remarks in the foundational paper. [5]

Findings, observations, possibilities:

-  Power-danger-structure framework emerges in distinct settings, fitting types and tokens.
-  Safety bias of communication refines Pollyanna Principle of positivity

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See concluding remarks in the foundational paper. [5]

Findings, observations, possibilities:

- Power-danger-structure framework emerges in distinct settings, fitting types and tokens.
- Safety bias of communication refines Pollyanna Principle of positivity
- Happiness/Goodness = Power + Safety
- Ousiometer can be improved and refined.

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See concluding remarks in the foundational paper. [5]

Findings, observations, possibilities:

- Power-danger-structure framework emerges in distinct settings, fitting types and tokens.
- Safety bias of communication refines Pollyanna Principle of positivity
- Happiness/Goodness = Power + Safety
- Ousimeter can be improved and refined.
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- Power-danger framework for survival.

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- Possible: Telegnomics for stories—Measuring character arcs, plots.

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Synonyms	Valence	Arousal	Dominance	Goodness	Energy	Structure	Power	Danger	Structure
happy	0.50	0.24	0.27	0.53	0.26	0.18	0.57	-0.16	0.18
delighted	0.44	0.16	0.18	0.44	0.17	0.17	0.44	-0.18	0.17
excited	0.41	0.43	0.21	0.39	0.40	0.29	0.56	0.04	0.29
astonished	0.01	0.28	0.07	0.00	0.27	0.10	0.18	0.19	0.10
aroused	0.21	0.45	0.17	0.19	0.43	0.23	0.43	0.19	0.23
tense	-0.10	-0.06	0.15	-0.01	0.05	-0.19	0.03	0.04	-0.19
alarmed	-0.31	0.32	-0.01	-0.32	0.31	0.03	-0.03	0.45	0.03
angry	-0.38	0.33	0.10	-0.33	0.39	-0.07	0.02	0.51	-0.07
afraid	-0.49	0.28	-0.26	-0.59	0.17	0.09	-0.32	0.52	0.09
annoyed	-0.40	0.28	-0.16	-0.46	0.21	0.07	-0.19	0.47	0.07
distressed	-0.36	0.27	-0.18	-0.43	0.19	0.10	-0.19	0.43	0.10
frustrated	-0.42	0.15	-0.25	-0.50	0.06	0.05	-0.33	0.38	0.05
miserable	-0.44	-0.04	-0.31	-0.52	-0.13	-0.02	-0.47	0.26	-0.02
sad	-0.28	-0.17	-0.35	-0.38	-0.28	0.02	-0.47	0.05	0.02
gloomy	-0.39	-0.09	-0.21	-0.43	-0.13	-0.09	-0.40	0.20	-0.09
depressed	-0.48	-0.05	-0.36	-0.58	-0.17	-0.01	-0.54	0.27	-0.01
bored	-0.35	-0.33	-0.30	-0.40	-0.38	-0.14	-0.55	-0.02	-0.14
droopy	-0.06	-0.15	-0.20	-0.13	-0.22	0.03	-0.25	-0.08	0.03
tired	-0.38	-0.18	-0.31	-0.45	-0.26	-0.07	-0.50	0.11	-0.07
sleepy	0.10	-0.37	-0.25	0.03	-0.46	0.02	-0.29	-0.36	0.02
calm	0.37	-0.40	-0.22	0.28	-0.51	0.11	-0.14	-0.56	0.11
relaxed	0.36	-0.41	-0.12	0.32	-0.46	0.03	-0.08	-0.56	0.03
satisfied	0.46	0.01	0.18	0.48	0.04	0.10	0.38	-0.30	0.10
at ease	—	—	—	—	—	—	—	—	—
ease	0.30	-0.11	-0.01	0.27	-0.15	0.09	0.10	-0.29	0.09
content	0.26	-0.20	0.06	0.29	-0.18	-0.03	0.09	-0.33	-0.03
serene	0.30	-0.37	-0.13	0.25	-0.42	0.03	-0.10	-0.48	0.03
glad	0.44	0.26	0.24	0.45	0.27	0.19	0.52	-0.10	0.19
pleased	0.44	0.05	0.29	0.51	0.13	0.03	0.47	-0.25	0.03



“Semantic differential profiles for 1,000 most frequent English words.” ↗

David R. Heise,
Psychological Monographs: General and Applied, **79**, 1, 1965. [6]

Dimension

Scale

Evaluation

Good-Bad
Pleasant-Unpleasant

Activity

Active-Passive
Lively-Still

Potency

Strong-Weak
Tough-Tender

Stability

Rational-Emotional
Tamed-Untamed

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A word cloud containing various synonyms for the word 'dangerous'. The words are arranged in a roughly rectangular shape, with 'dangerous' at the top center. Other words include 'murderer', 'murder', 'killer', 'aggression', 'plussed', 'crucifixion', 'lurid', 'outburst', 'squander', 'assassinate', 'earl', 'loquak', 'mi.', 'fomicide', 'snog', 'lopic', 'clips', and 'chips'.