

Ousiometrics: The Essence of Meaning

Last updated: 2026/09/04, 08:32:57 EDT

DOI:

Principles of Complex Systems,
Vols. 1, 2, 3D, 4 Fourever, V for Vendetta

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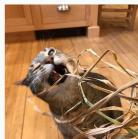
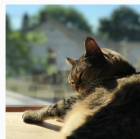
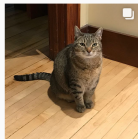
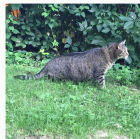
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The meaning of meaning:¹



“Ousiometrics: The essence of meaning aligns with a power-danger-structure framework instead of valence-arousal-dominance” ↗

Dodds et al.,
Science Advances, **12**, eadr4039, 2026. [5]

What does meaning even mean?



From the smack-tweeting Merriam-Webster:²

“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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¹Original title (too long!): 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

²Life goal: Never get owned by a dictionary on social media

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Abed's search for the meaning of Christmas



Abed's Uncontrollable Christmas, S2E11 of Community

Abed's struggle:

“Abed’s Uncontrollable Christmas” , S2E11 of Community

-  Abed searches for the meaning of Christmas (in stop animation)
-  Abed Nadir: [opens present] “It’s the first season of Lost on DVD.”
-  Pierce Hawthorne : “That’s the meaning of Christmas?”
-  Abed Nadir: “It’s a metaphor. It represents lack of payoff.”

“Introduction to Teaching” , S5E02 of Community

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

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Something Ricked This Way Comes , S1E09 of
Rick and Morty 

[illegible]

L. M. Solomon,
Unpublished Doctoral Dissertation, University of Illinois, **12**,
1954. ^[24]

'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.

- 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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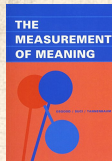
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From pings to things:



“The Measurement of Meaning” by Osgood, Suci, and Tannenbaum (1957). ^[15]



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



Evaluation: {bad $\Leftrightarrow$ good}



Potency: {weak $\Leftrightarrow$ strong}



Activity: {passive $\Leftrightarrow$ active}



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



“EPA framework”

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Semantic differentials from Osgood et al.: [15]

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



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

David R. Heise,
Psychological Monographs: General and Applied,
79, 1, 1965. [8]

Dimension

Evaluation

Activity

Potency

Stability

Scale

Good-Bad
Pleasant-Unpleasant
Active-Passive
Lively-Still
Strong-Weak
Tough-Tender
Rational-Emotional
Tamed-Untamed



Good evolution of the field.



Good: An increase in scale to 1,000 words.



Good: Focus on frequently used words (always dependent on corpus)

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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’.

 Ousiometry, ousiometer, ousiograms, ...¹

 **Telegnomics:** The distant sensing of knowledge (~ distant reading^[14])

¹“Gretchen, stop trying to make fetch happen, it’s NOT going to happen!” —

Side Main quest:



Meowsiometrics

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Seriously: Animal language. Why the slow roll?

Essential dimensions captured by emotion:

- ❏ Late 1800s: Three dimensional representation of emotion postulated by Wundt. [25, 19]
- ❏ 1970s: Mehrabian and Russell explicitly port EPA framework: [9, 10]
 - ❏ Evaluation $\sim$ Pleasure/Valence ($\sim$ Happiness)
 - ❏ Potency $\sim$ Dominance
 - ❏ Activity $\sim$ Arousal
- ❏ 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]

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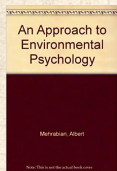
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“An Approach to Environmental Psychology.”

by Mehrabian and Russell (1974). ^[9]

“The basic emotional impact of environments”

Mehrabian and Russell,
Perceptual and Motor Skills, **38**, 283–301, 1974. ^[10]

“Semantic differential studies, in particular, have shown that human judgments of diverse samples of stimuli can be characterized in terms of three dimensions: evaluation, activity, and potency. We have termed the corresponding emotional responses pleasure, arousal, and dominance.”

“Thus, each dimension is, in principle, functionally independent of the other two; none of the three dimensions could be subsumed by the others.”

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Remeasuring meaning:

Confusion and Conflation:



“Pleasure, arousal, dominance: Mehrabian and Russell revisited”
Bakker et al.,
Current Psychology, **33**, 405–421, 2014. [2]



Test whether EPA and VAD match.



Explore historical problems of defining end point descriptors for meaning dimensions.

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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?
Solution is to always perform factor analysis (SVD).

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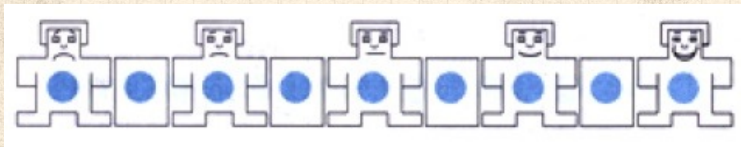
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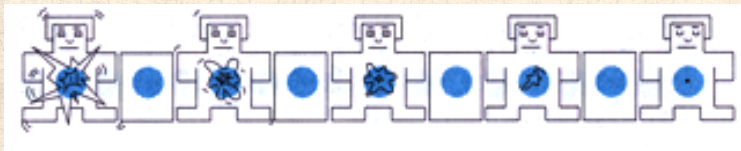


1999 ANEW study—three 1–9 scales: [4]

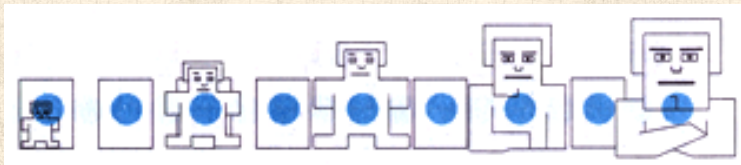
valence:



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. ...

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 [18].

Wrongly suggests Arousal and Dominance are minimal relative to Valence.



LLMs encode semantic differentials:



“Semantic projection recovers rich human knowledge of multiple object features from word embeddings”

Grand et al.,

Nature Human Behaviour, **6**, 975–987, 2022. ^[6]

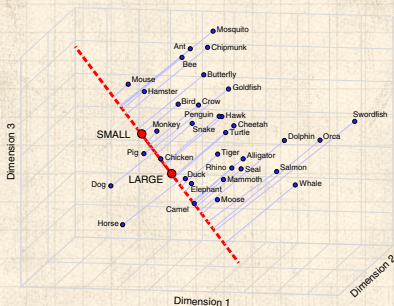


Fig. 1 | Schematic illustration of semantic projection. Word-vectors in the category ‘animals’ (blue circles) are orthogonally projected (light-blue lines) onto the feature subspace for ‘size’ (red line), defined as the vector difference between large and small (red circles). The three dimensions in this figure are arbitrary and were chosen via principal component analysis to enhance visualization (the original GloVe word embedding has 300 dimensions, and projection happens in that space). For an animated version of this figure, see Supplementary Video 1.

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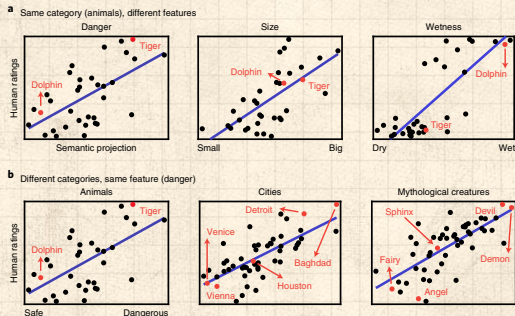


Fig. 2 | Semantic projection predicts human judgements: sample cases. a. Examples of three features for the same category (animals). Notice that the items—for instance, dolphin versus tiger—change their similarities to one another depending on context (feature), and semantic projection recovers these cross-feature differences. In other words, the model does not recover the same relationships across features. **b.** Examples of three categories for the same feature (danger). Sample items are highlighted in red for illustrative purposes. For descriptive and inferential statistics, see Table 1. Each panel is based on data from $n=25$ participants.



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Fig. 4 | Semantic projection predicts human judgements: detailed results. For each of 52 category-feature pairs, scatterplots show the relationship between 2 scores of average item ratings across participants ($n=25$; y axis) and ratings predicted by semantic projection (x axis). Correlation and pairwise order consistency (OC_p) values are presented below each scatterplot. Experiments for which both of these measures were significant are shown over a white background. Straight lines are linear regression fits to the data and, across figures, vary according to correlation strength from black (weak) to blue (strong).

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), 6, 174–184, 2018. ^[12]

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: $\tau_1 > \tau_2, \tau_3 > \tau_4$.
-  Things end up with scores in $[0, 1]$.

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NRC VAD Lexicon ^[12]

VAD endpoints:	Paradigm words and phrases presented to raters: ^[13]
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.

NRC VAD study—20,006 words²:

Numbersinaboxology format:

-  Scores stored in a $3 \times 20,006$ matrix **A**.
-  Rows are scores for **Va**, **Ar**, and **Dm**.
-  Each column records VAD scores for a word, ordered alphabetically from ‘aaaaaaah’^[7] to ‘zucchini’.
-  For SVD, $\mathbf{A} = \mathbf{U}\mathbf{\Sigma}\mathbf{V}^T$, and we have:
 -  **A** is of rank 3,
 -  **U** is 3×3 ,
 -  **Σ** is $3 \times 20,006$ (the heart of **A**),
 -  **V** is $20,006 \times 20,006$
-  **U** and **V** transform bases and are orthogonal matrices ($\mathbf{U}\mathbf{U}^T = \mathbf{U}^T\mathbf{U} = \mathbf{I}_3$ and $\mathbf{V}\mathbf{V}^T = \mathbf{V}^T\mathbf{V} = \mathbf{I}_{20,006}$)
-  What we will use: σ_1, σ_2 , and σ_3 , and **U**.

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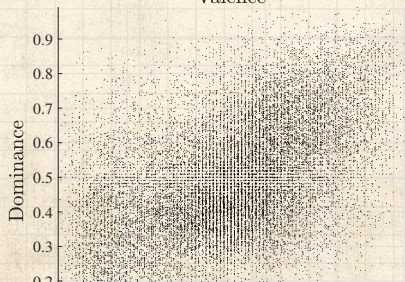
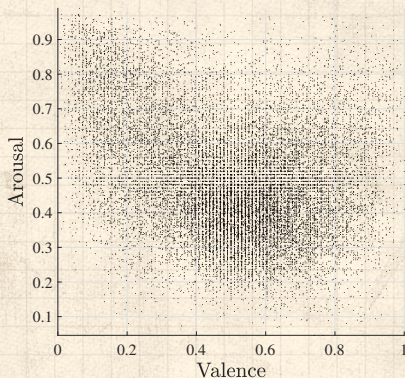
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²Original study had 20,007 words. We removed one.

The Delicious English Muffin of Meaning:¹



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$$R(\mathbf{Dm}, \mathbf{Va}) \simeq 0.488$$

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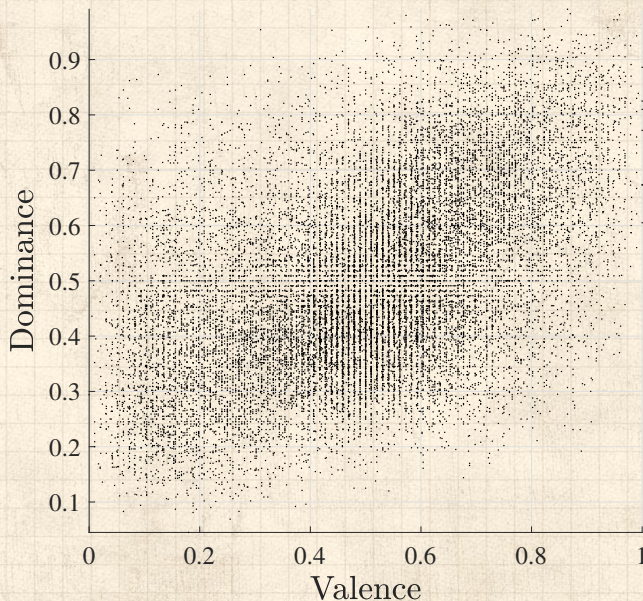
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Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

- 🧱 VAD: 44.4%, 28.0%, and 27.6%.
- 🧱 Apply SVD: $\mathbf{A} = \mathbf{U}\mathbf{\Sigma}\mathbf{V}^T$
- 🧱 Singular values: $\sigma_1 \simeq 34.1$, $\sigma_2 \simeq 27.2$, and $\sigma_3 \simeq 13.8$.
- 🧱 For what will be Goodness-Aggression-Structure (GAS): 55.6%, 35.3%, and 9.1%
- 🧱 Rotate **Gd-Ag** plane by $-\pi/4$ for what will be Power-Danger-Structure (PDS): 45.5%, 45.5%, and 9.1%
- 🧱 Interpretability enhancements: Ousiograms.

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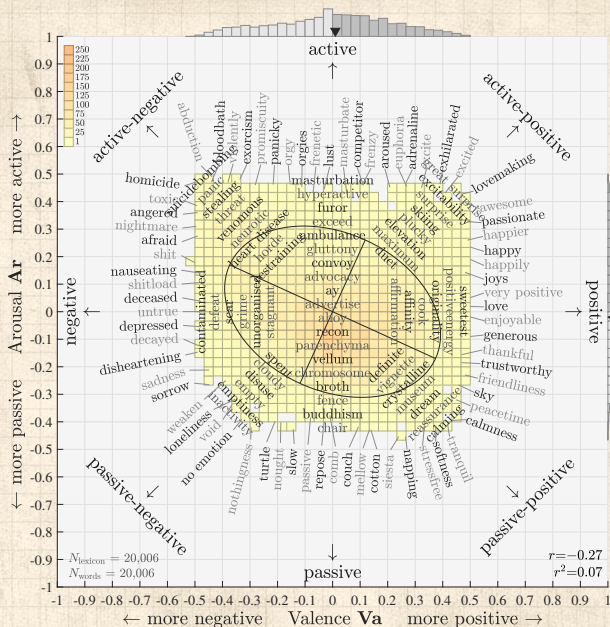
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~ Valence-Arousal ousiogram for the NRC VAD lexicon ~



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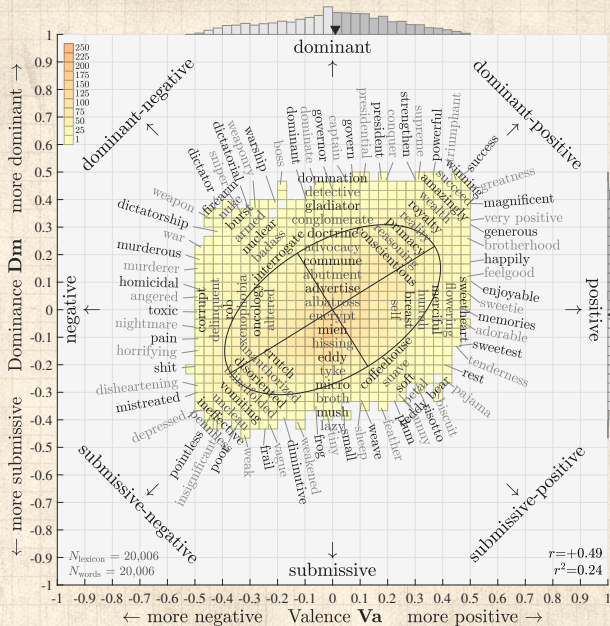
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~ Valence-Dominance Ousiogram for the NRC VAD lexicon ~



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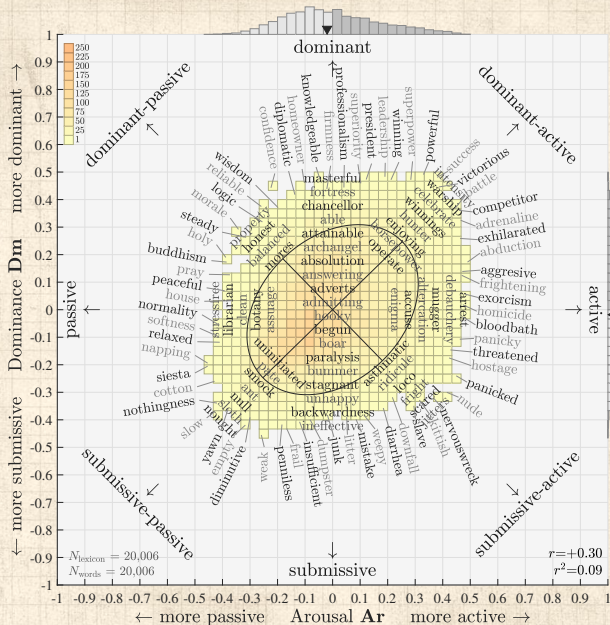
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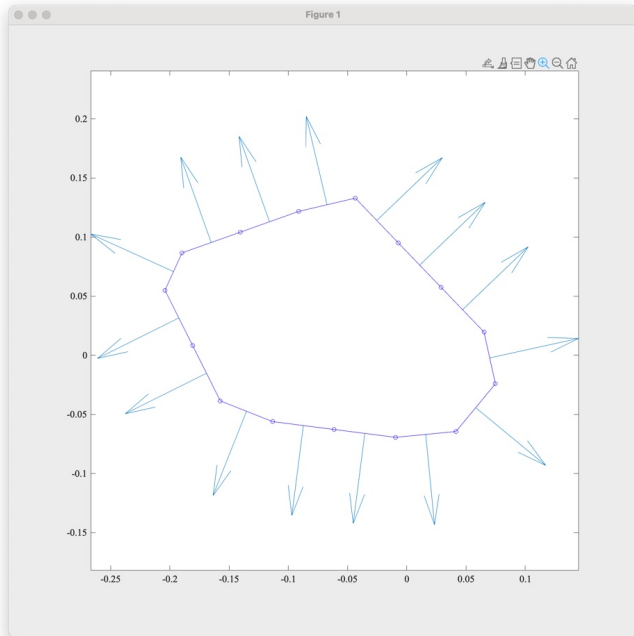
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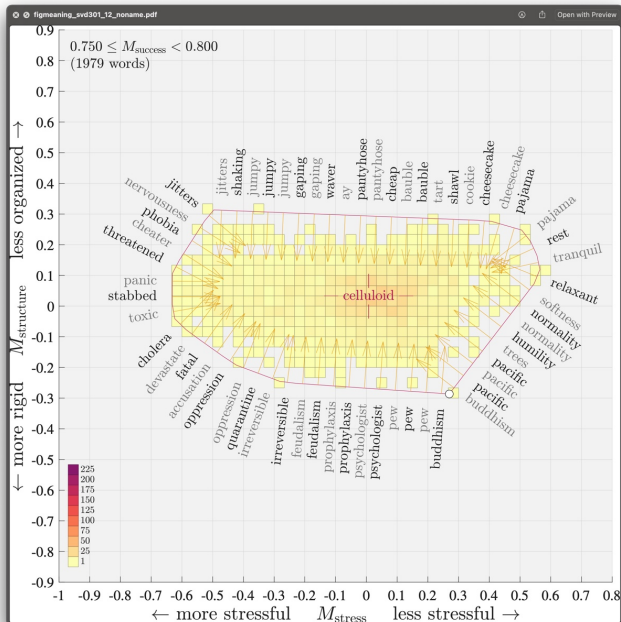
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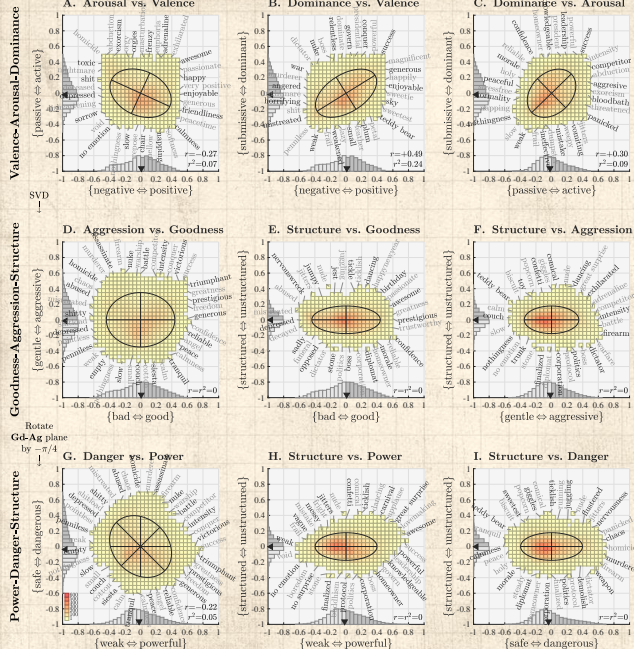
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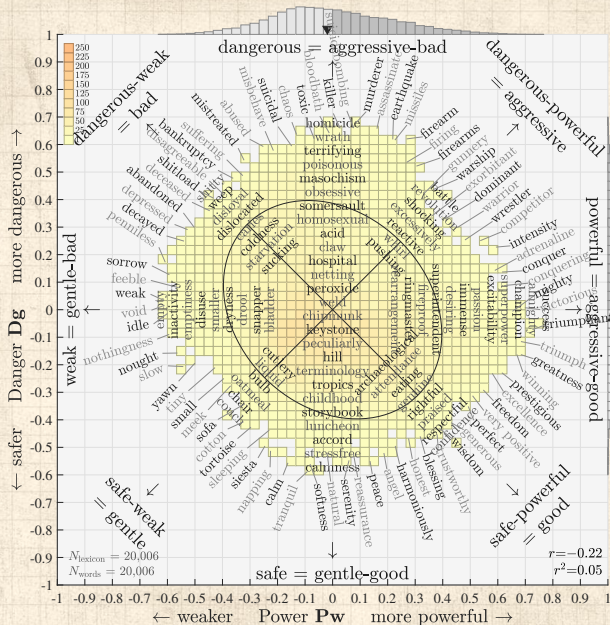
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~ Power-Danger ousiogram for the NRC VAD lexicon ~



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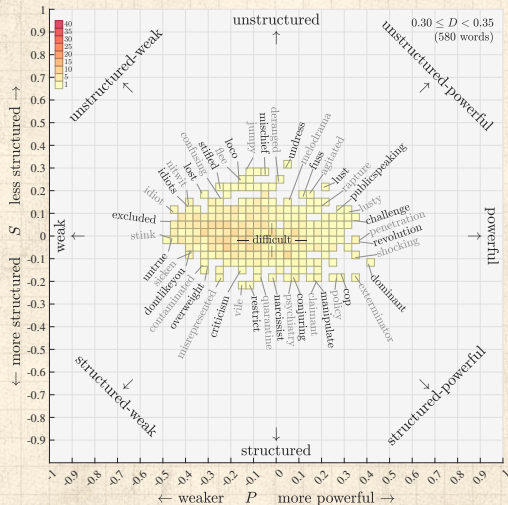
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Ousiometric slices—MRIs of Meaning





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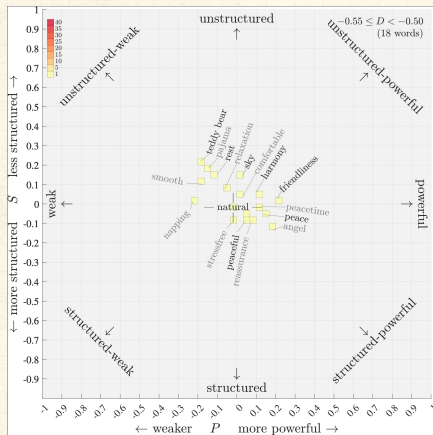
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{powerful $\Leftrightarrow$ weak} vs {structured $\Leftrightarrow$ unstructured}

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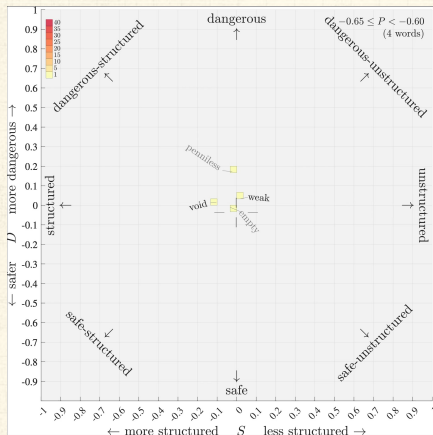
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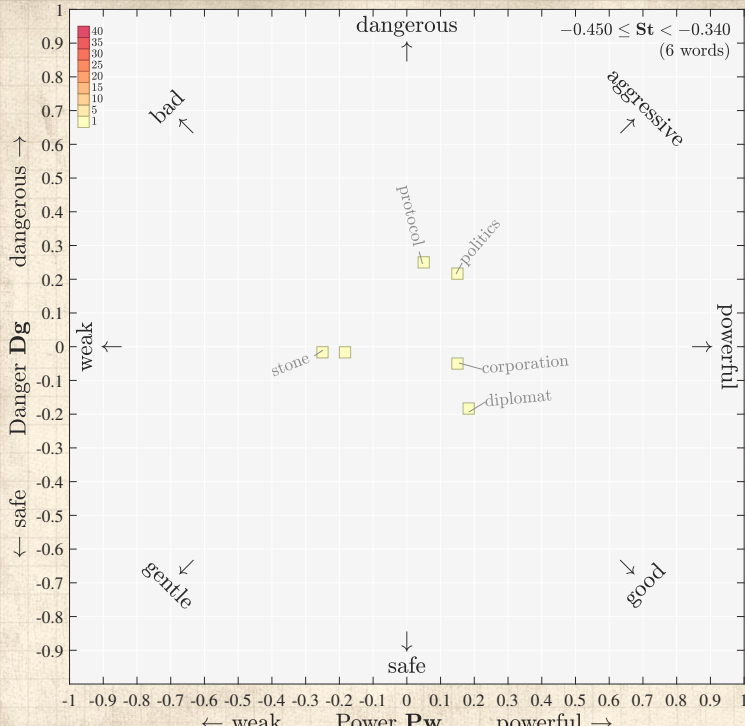
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{dangerous $\Leftrightarrow$ safe} vs {structured $\Leftrightarrow$ unstructured}





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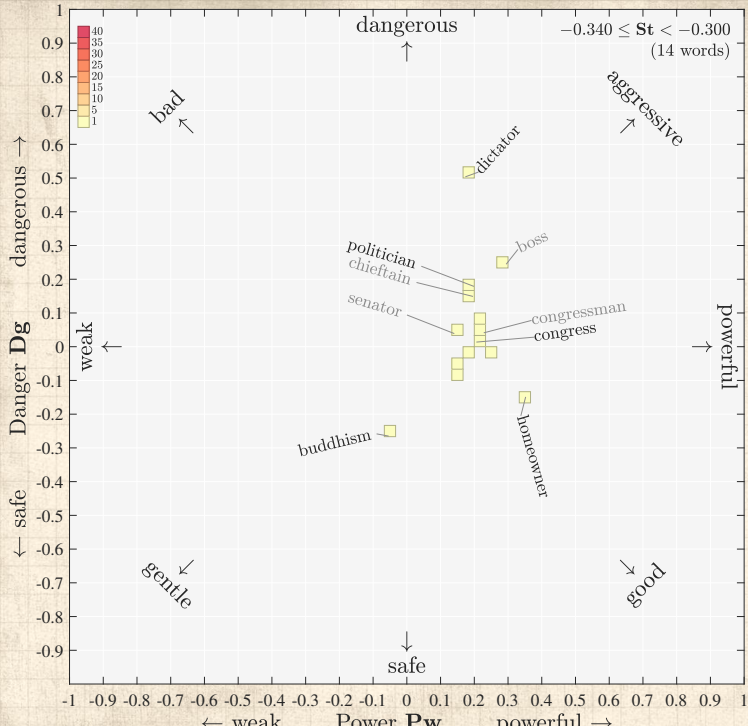
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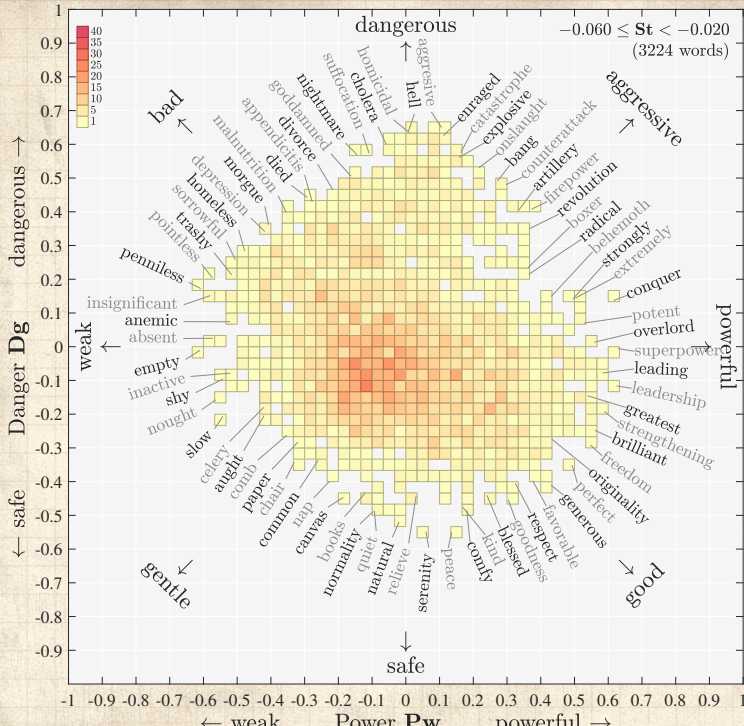
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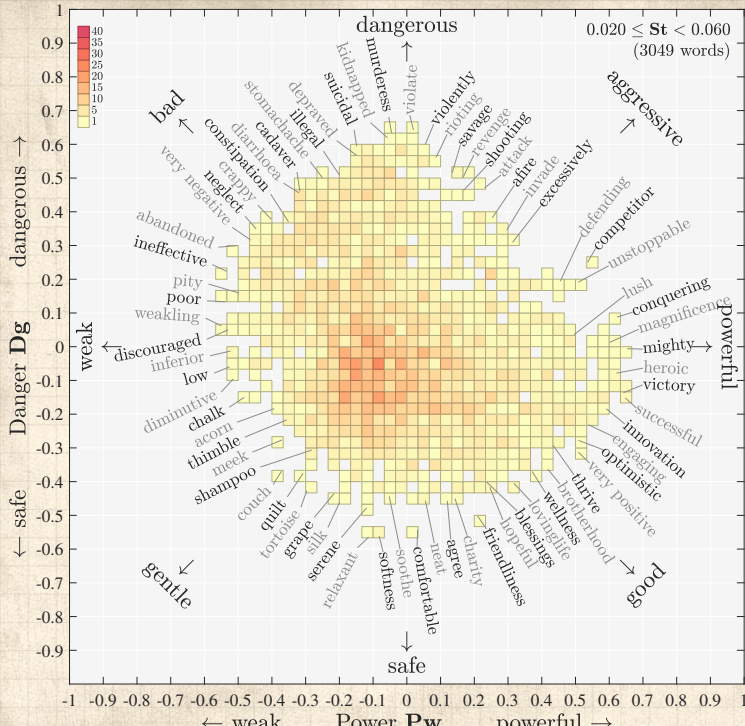
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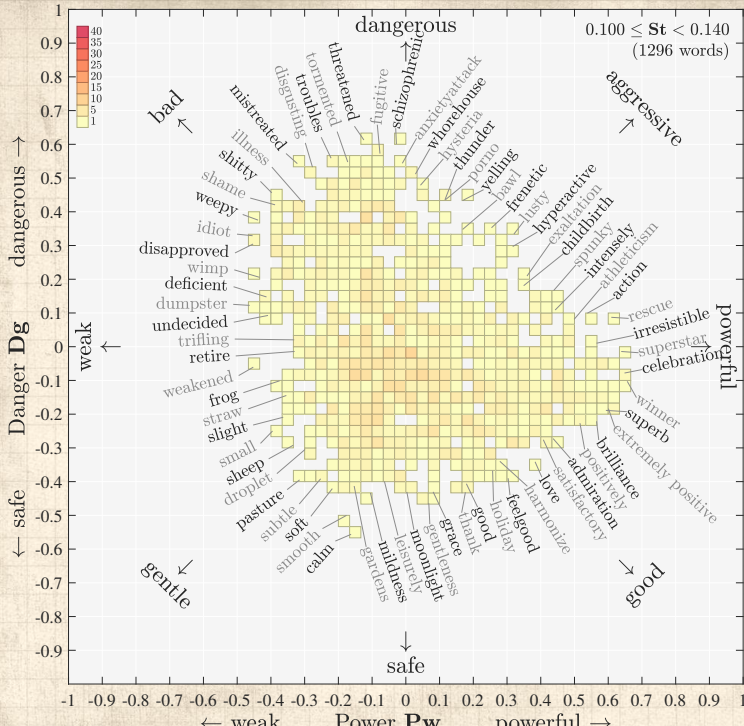
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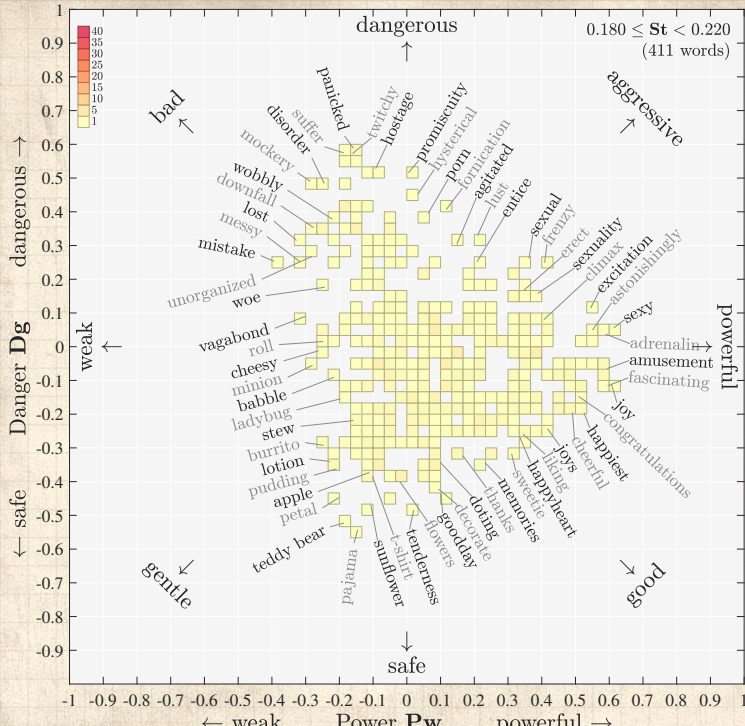
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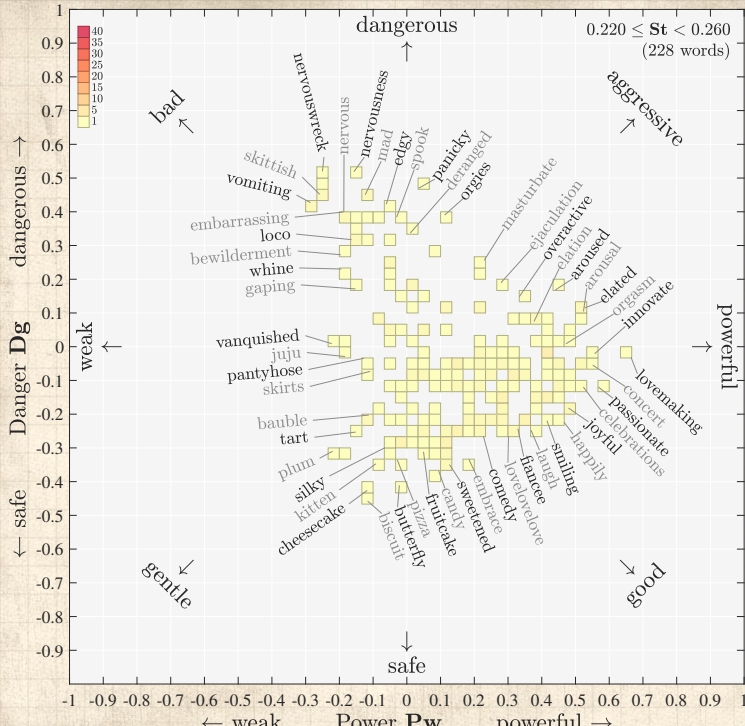
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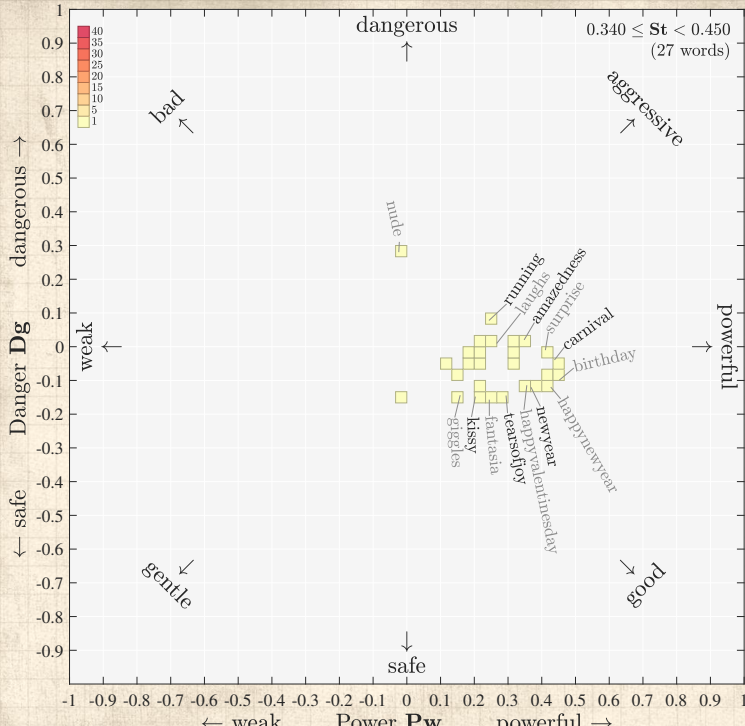
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Extremonyms: Synousionyms and Antousionyms:

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

Synousionyms	Valence	Arousal	Dominance	Goodness	Aggression	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	Aggression	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 (Aggressive-Good) to Weak (Gentle-Bad) axis:

Synousionyms	Valence	Arousal	Dominance	Goodness	Aggression	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	Aggression	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 (Aggressive) to Safe-Weak (Gentle) axis:

Synousionyms	Valence	Arousal	Dominance	Goodness	Aggression	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	Aggression	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 (Aggressive-Bad) to Safe (Gentle-Good) axis:

Synousionyms	Valence	Arousal	Dominance	Goodness	Aggression	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	Aggression	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
- 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
- Power-Order/Chaos-Gravity/Seriousness

After much staring at the ceiling:

- Goodness-Aggression-Structure (GAS) (okay)
- Power-Danger-Structure (PDS) (also okay)

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Connections between meaning dimensions:

$$\begin{bmatrix} \mathbf{Gd} \\ \mathbf{Ag} \\ \mathbf{St} \end{bmatrix} = \mathbf{U}^T \begin{bmatrix} \mathbf{Va} \\ \mathbf{Ar} \\ \mathbf{Dm} \end{bmatrix} \simeq \begin{bmatrix} +0.86 & -0.15 & +0.48 \\ -0.16 & +0.83 & +0.54 \\ +0.48 & +0.55 & -0.69 \end{bmatrix} \begin{bmatrix} \mathbf{Va} \\ \mathbf{Ar} \\ \mathbf{Dm} \end{bmatrix}$$

$$\begin{bmatrix} \mathbf{Pw} \\ \mathbf{Dg} \\ \mathbf{St} \end{bmatrix} = \mathbf{R}_{\pi/4} \begin{bmatrix} \mathbf{Gd} \\ \mathbf{Ag} \\ \mathbf{St} \end{bmatrix} = \frac{1}{\sqrt{2}} \begin{bmatrix} 1 & 1 & 0 \\ -1 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} \mathbf{Gd} \\ \mathbf{Ag} \\ \mathbf{St} \end{bmatrix}$$

$$\begin{bmatrix} \mathbf{Pw} \\ \mathbf{Dg} \\ \mathbf{St} \end{bmatrix} = \mathbf{R}_{\pi/4} \mathbf{U}^T \begin{bmatrix} \mathbf{Va} \\ \mathbf{Ar} \\ \mathbf{Dm} \end{bmatrix} \simeq \begin{bmatrix} +0.53 & +0.45 & +0.72 \\ -0.70 & +0.71 & +0.07 \\ +0.48 & +0.55 & -0.69 \end{bmatrix} \begin{bmatrix} \mathbf{Va} \\ \mathbf{Ar} \\ \mathbf{Dm} \end{bmatrix}$$

$$\begin{bmatrix} \mathbf{Va} \\ \mathbf{Ar} \\ \mathbf{Dm} \end{bmatrix} = \mathbf{U} \mathbf{R}_{-\pi/4} \begin{bmatrix} \mathbf{Pw} \\ \mathbf{Dg} \\ \mathbf{St} \end{bmatrix} \simeq \begin{bmatrix} +0.53 & -0.70 & +0.48 \\ +0.45 & +0.71 & +0.55 \\ +0.72 & +0.07 & -0.69 \end{bmatrix} \begin{bmatrix} \mathbf{Pw} \\ \mathbf{Dg} \\ \mathbf{St} \end{bmatrix}$$

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dangerous →

Danger **Dg**

← safe

bad dangerous weak	dangerous dangerous	aggressive dangerous powerful
weak weak	neutral neutral	powerful powerful
gentle safe weak	safe safe	good safe powerful

← weak

Power **Pw**

powerful →

Structured

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Danger Dg	dangerous →	corrupted structured dangerous weak	authoritarian structured dangerous	tyrannical structured dangerous powerful
		frozen structured weak	structured structured	commanding structured powerful
	← safe	routine structured safe weak	canonical structured safe	wise structured safe powerful
		Power Pw		
		← weak		powerful →

Unstructured

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dangerous →

Danger **Dg**

← safe

suffering

unstructured
dangerous
weak

reckless

unstructured
dangerous

primal

unstructured
dangerous
powerful

inchoate

unstructured
weak

unstructured

unstructured

frolicsome

unstructured
powerful

whimsical

unstructured
safe
weak

nurturing

unstructured
safe

playful

unstructured
safe
powerful

← weak

Power **Pw**

powerful →

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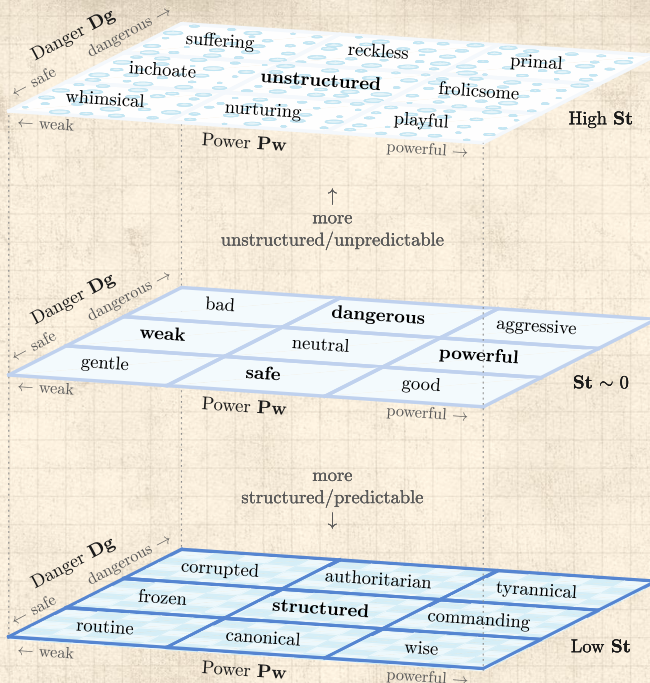
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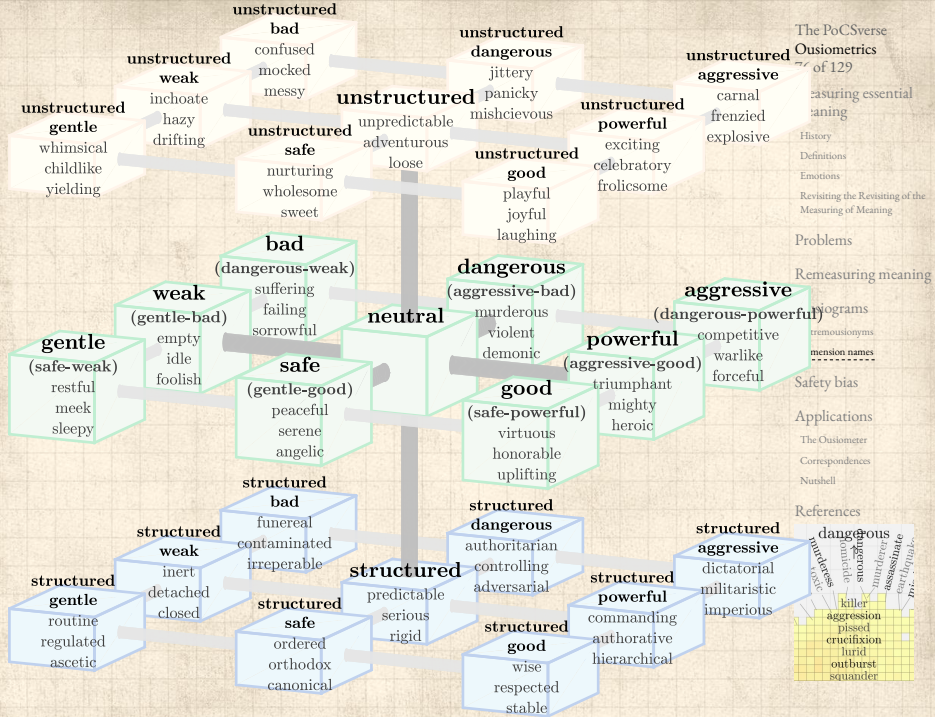
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safe

(gentle-good)
peaceful
serene
angelic



dangerous

(aggressive-bad)
murderous
violent
demonic

Word	Comp.	Size	Angle	Cos.	Pw	Dg	St
1. calmness	77.1	77.9	7.9	0.99	-0.05	-0.59	0.07
2. tranquil	76.7	78.3	11.6	0.98	-0.09	-0.59	0.08
3. relaxant	73.7	75.5	12.5	0.98	-0.11	-0.56	0.05
4. softness	73.2	74.1	8.6	0.99	-0.08	-0.56	0.02
5. calming	72.7	74.3	12.0	0.98	-0.10	-0.56	0.07
6. relaxed	72.0	73.3	10.8	0.98	-0.10	-0.55	0.03
7. peace	71.8	74.3	14.9	0.97	0.14	-0.55	-0.06
8. serenity	71.5	72.3	8.4	0.99	0.06	-0.55	-0.05
9. comfortable	70.8	71.1	5.3	1.00	0.03	-0.54	0.04
10. peacetime	70.8	72.7	13.3	0.97	0.13	-0.54	-0.01
11. peaceful	69.6	70.7	10.3	0.98	0.05	-0.53	-0.09
12. stressfree	69.1	70.1	9.7	0.99	-0.01	-0.53	-0.09
13. reassurance	68.5	70.1	12.5	0.98	0.08	-0.52	-0.09
14. natural	67.9	68.1	3.6	1.00	-0.02	-0.52	-0.03
15. sky	67.8	70.4	15.6	0.96	0.03	-0.52	0.14
16. harmony	66.7	68.4	13.0	0.97	0.10	-0.51	0.06
17. relaxation	66.4	67.6	10.9	0.98	-0.06	-0.51	0.08
18. tranquility	65.3	65.6	5.4	1.00	-0.05	-0.50	0.00
19. relaxing	64.4	64.5	0.7	1.00	-0.01	-0.49	-0.00
20. teatime	64.4	66.9	15.9	0.96	-0.11	-0.49	0.09

Word	Comp.	Size	Angle	Cos.	Pw	Dg	St
1. homicide	89.0	89.0	179.0	-1.00	-0.01	0.68	0.01
2. murderer	88.5	89.9	169.9	-0.98	0.08	0.68	-0.09
3. abduction	86.5	88.8	166.9	-0.97	0.14	0.66	-0.06
4. murderous	86.3	88.6	166.8	-0.97	0.10	0.66	-0.12
5. suicidebombing	86.2	87.1	171.5	-0.99	0.08	0.66	-0.06
6. killer	86.0	86.1	177.5	-1.00	0.03	0.66	0.01
7. dangerous	85.9	87.6	168.8	-0.98	0.09	0.66	-0.10
8. assassinate	85.9	89.6	163.4	-0.96	0.16	0.66	-0.11
9. terrorist	85.1	87.4	166.8	-0.97	0.10	0.65	-0.12
10. gunfight	85.0	88.0	165.1	-0.97	0.14	0.65	-0.10
11. gunshot	85.0	87.1	167.4	-0.98	0.11	0.65	-0.09
12. terrorism	84.9	87.2	167.0	-0.97	0.13	0.65	-0.07
13. aggressive	84.8	86.2	169.8	-0.98	0.11	0.65	-0.05
14. terrorists	84.5	87.1	165.7	-0.97	0.14	0.65	-0.08
15. tsunami	84.3	86.7	166.4	-0.97	0.12	0.65	-0.10
16. violate	83.9	84.0	176.6	-1.00	0.02	0.64	0.03
17. bloodbath	83.8	84.2	174.2	-0.99	-0.01	0.64	0.06
18. slaughter	83.7	84.3	173.2	-0.99	0.07	0.64	-0.04
19. psychopath	83.5	83.5	179.2	-1.00	0.01	0.64	-0.00
20. hell	83.3	83.6	175.8	-1.00	0.01	0.64	-0.05

Word	Comp. Size	Size	Angle	Cos.	Pw	Dg	St
1. battle	76.8	77.4	172.7	-0.99	0.41	0.42	-0.08
2. warship	73.9	76.9	163.9	-0.96	0.36	0.44	-0.15
3. firepower	72.1	72.3	175.7	-1.00	0.37	0.41	-0.03
4. counterattack	71.8	74.0	166.1	-0.97	0.30	0.48	-0.04
5. bang	70.5	73.4	163.7	-0.96	0.27	0.49	-0.03
6. warrior	69.4	72.2	163.9	-0.96	0.45	0.30	-0.11
7. artillery	68.3	68.9	172.4	-0.99	0.33	0.41	-0.05
8. dominant	67.9	70.1	165.5	-0.97	0.41	0.33	-0.12
9. tornado	67.8	70.9	162.8	-0.96	0.28	0.46	-0.09
10. shelling	67.6	68.5	171.1	-0.99	0.32	0.42	-0.04
11. hurricanes	67.4	69.7	165.4	-0.97	0.29	0.44	-0.08
12. volcanic	67.3	68.0	171.7	-0.99	0.32	0.41	-0.04
13. wild	67.1	68.6	167.9	-0.98	0.29	0.44	-0.03
14. showdown	66.2	68.9	163.8	-0.96	0.26	0.46	0.02
15. revolution	66.1	66.2	176.8	-1.00	0.37	0.35	-0.03
16. gunslinger	66.0	67.8	166.8	-0.97	0.31	0.40	-0.10
17. fighting	65.8	68.1	165.4	-0.97	0.29	0.43	-0.08
18. explode	65.4	68.2	163.8	-0.96	0.27	0.44	-0.08
19. overbearing	65.1	68.2	162.8	-0.96	0.33	0.37	-0.15
20. combat	65.0	67.8	163.3	-0.96	0.31	0.40	-0.14

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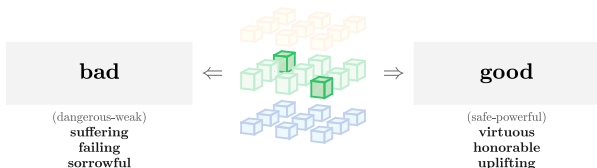
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Word	Comp. Size	Size	Angle	Cos.	Pw	Dg	St
1. shitty	78.8	80.1	10.2	0.98	-0.40	0.46	0.10
2. shitload	77.5	78.0	6.2	0.99	-0.43	0.41	0.06
3. bankruptcy	77.4	78.7	10.5	0.98	-0.36	0.48	0.07
4. depressed	75.5	78.6	16.1	0.96	-0.53	0.29	-0.01
5. weepy	75.1	77.0	12.6	0.98	-0.44	0.38	0.12
6. suffering	75.1	77.1	13.2	0.97	-0.33	0.49	0.07
7. bullshit	75.0	76.3	10.5	0.98	-0.37	0.44	0.10
8. disagreeable	74.7	75.5	8.2	0.99	-0.39	0.42	0.08
9. shame	74.6	76.3	12.1	0.98	-0.39	0.42	0.12
10. deceased	74.4	74.8	6.2	0.99	-0.45	0.36	0.01
11. abandoned	74.1	76.5	14.5	0.97	-0.50	0.30	0.03
12. weep	73.9	74.7	8.5	0.99	-0.41	0.39	0.08
13. mourn	73.7	74.6	9.0	0.99	-0.43	0.36	0.07
14. neglect	73.5	74.2	8.2	0.99	-0.45	0.35	0.04
15. excluded	73.3	74.8	11.6	0.98	-0.46	0.33	0.06
16. nauseate	72.9	74.2	10.6	0.98	-0.38	0.41	0.10
17. shit	72.8	74.4	11.6	0.98	-0.31	0.48	-0.00
18. untrue	72.5	73.6	9.7	0.99	-0.46	0.33	-0.01
19. nauseating	72.5	72.9	6.1	0.99	-0.35	0.43	0.02
20. idiot	72.3	74.5	13.9	0.97	-0.45	0.33	0.11

Word	Comp. Size	Size	Angle	Cos.	Pw	Dg	St
1. perfect	78.0	79.2	169.7	-0.98	0.49	-0.35	-0.04
2. generous	77.6	77.7	177.4	-1.00	0.43	-0.41	-0.02
3. freedom	77.5	81.1	162.8	-0.96	0.55	-0.29	-0.03
4. trustworthy	76.9	78.3	169.2	-0.98	0.38	-0.45	-0.10
5. very positive	75.8	78.2	166.0	-0.97	0.51	-0.31	0.04
6. wisdom	75.7	78.5	164.5	-0.96	0.39	-0.43	-0.16
7. greatly positive	75.6	78.5	164.4	-0.96	0.52	-0.30	-0.02
8. honorable	74.7	75.1	173.7	-0.99	0.43	-0.38	-0.05
9. positivity	74.1	77.2	163.5	-0.96	0.52	-0.28	-0.01
10. positive	73.9	75.8	167.2	-0.98	0.49	-0.31	-0.02
11. guarantee	73.0	74.0	170.5	-0.99	0.37	-0.42	-0.08
12. healthy	72.9	74.5	168.1	-0.98	0.36	-0.43	-0.11
13. respectful	72.8	73.3	173.6	-0.99	0.40	-0.39	-0.06
14. optimistic	72.6	76.0	162.9	-0.96	0.51	-0.28	0.05
15. brotherhood	72.2	72.5	174.3	-1.00	0.42	-0.36	0.04
16. blessing	71.8	75.0	163.4	-0.96	0.32	-0.46	-0.13
17. favorable	71.4	71.7	174.8	-1.00	0.38	-0.40	-0.05
18. great trust	71.2	73.6	165.0	-0.97	0.49	-0.28	-0.02
19. goodness	69.9	71.3	168.6	-0.98	0.30	-0.45	-0.02
20. elegance	69.5	70.4	171.1	-0.99	0.39	-0.36	-0.08

Word	Comp. Size	Size	Angle	Cos.	Pw	Dg	St
1. plaything	40.3	42.0	163.7	-0.96	-0.01	-0.09	0.31
2. joke	37.1	38.7	163.8	-0.96	0.02	-0.08	0.28
3. yaaaay	36.1	36.3	173.4	-0.99	0.02	0.02	0.28
4. drum	34.4	34.9	170.9	-0.99	0.03	0.03	0.26
5. clown	34.3	35.1	168.2	-0.98	-0.02	-0.05	0.26
6. bobsled	34.2	34.9	168.9	-0.98	0.01	-0.05	0.26
7. potpourri	33.3	34.5	164.6	-0.96	-0.04	-0.06	0.25
8. jump rope	33.0	33.9	166.8	-0.97	0.06	-0.01	0.25
9. laughable	33.0	33.4	170.6	-0.99	-0.04	0.01	0.25
10. ahhhhhhhhh	32.9	34.5	162.5	-0.95	-0.06	0.06	0.25
11. weeeee	32.7	34.0	163.7	-0.96	-0.06	0.04	0.25
12. yaaay	32.5	32.9	170.8	-0.99	0.00	-0.04	0.25
13. fanciful	31.8	33.2	163.2	-0.96	0.02	-0.07	0.24
14. yayyyy	31.4	32.8	163.7	-0.96	0.04	-0.06	0.24
15. serpentine	30.5	31.0	169.9	-0.98	-0.02	0.04	0.23
16. yo-yo	29.9	30.1	173.7	-0.99	0.00	0.03	0.23
17. jamboree	28.7	28.7	178.3	-1.00	0.00	0.01	0.22
18. clowns	28.4	29.7	162.6	-0.95	0.05	0.04	0.22
19. yayy	28.0	28.7	167.4	-0.98	0.01	-0.05	0.21
20. cantina	27.9	28.7	166.4	-0.97	0.04	-0.03	0.21

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**structured
safe**

(structured-gentle-good)

**ordered
orthodox
canonical**



**unstructured
dangerous**

(unstructured-aggressive-bad)

**jittery
panicky
mischievous**

Word	Comp. Size	Size	Angle	Cos.	Pw	Dg	St
1. buddhism	54.4	55.1	9.3	0.99	-0.05	-0.27	-0.32
2. bishop	51.5	52.1	8.5	0.99	0.06	-0.28	-0.28
3. pacific	51.2	53.6	17.3	0.95	-0.06	-0.35	-0.20
4. poise	50.4	52.8	17.4	0.95	0.10	-0.32	-0.22
5. conservatory	46.3	48.5	17.4	0.95	0.11	-0.27	-0.23
6. alphabet	45.4	45.4	2.5	1.00	0.01	-0.24	-0.25
7. marble	45.1	45.5	7.7	0.99	0.03	-0.27	-0.22
8. statue	44.7	46.5	16.4	0.96	-0.09	-0.27	-0.22
9. commonly	44.4	46.2	16.2	0.96	-0.05	-0.30	-0.18
10. headline	43.5	44.9	14.4	0.97	0.07	-0.26	-0.21
11. full	42.4	43.7	14.1	0.97	0.08	-0.23	-0.23
12. document	41.7	42.2	8.5	0.99	0.04	-0.24	-0.21
13. sector	41.6	43.2	16.1	0.96	-0.05	-0.28	-0.17
14. documentary	41.2	42.6	14.8	0.97	-0.01	-0.28	-0.16
15. senior	40.6	40.8	5.8	0.99	-0.03	-0.21	-0.23
16. uniform	39.9	40.0	4.8	1.00	0.03	-0.22	-0.21
17. therapeutic	39.2	41.0	17.1	0.96	0.08	-0.24	-0.19
18. habit	39.1	40.9	16.8	0.96	-0.01	-0.28	-0.15
19. storeroom	38.8	39.5	10.3	0.98	-0.04	-0.23	-0.19
20. unitary	38.8	38.9	4.1	1.00	-0.01	-0.20	-0.22

Word	Comp. Size	Size	Angle	Cos.	Pw	Dg	St
1. nude	65.4	66.9	167.9	-0.98	-0.02	0.28	0.43
2. flustered	63.0	64.4	168.1	-0.98	-0.06	0.40	0.28
3. edgy	61.6	64.2	163.5	-0.96	-0.06	0.42	0.24
4. naked	60.5	61.9	168.0	-0.98	-0.06	0.38	0.27
5. jittery	58.7	60.0	168.1	-0.98	-0.09	0.35	0.29
6. spook	58.7	60.1	167.6	-0.98	-0.03	0.38	0.25
7. madder	58.1	59.9	166.1	-0.97	-0.09	0.36	0.27
8. bonkers	57.2	59.5	164.1	-0.96	-0.09	0.37	0.25
9. undress	56.8	57.0	174.4	-1.00	0.04	0.31	0.30
10. jumpy	55.6	58.2	162.9	-0.96	-0.13	0.31	0.29
11. deranged	53.3	54.1	170.3	-0.99	0.01	0.34	0.24
12. mischief	53.1	53.6	172.4	-0.99	-0.05	0.30	0.27
13. intrigue	51.1	51.9	169.7	-0.98	-0.04	0.32	0.23
14. naughty	49.5	50.0	171.9	-0.99	0.05	0.28	0.26
15. evacuate	47.7	49.1	166.3	-0.97	-0.07	0.30	0.22
16. anal	47.7	49.6	163.8	-0.96	-0.06	0.32	0.20
17. gambling	47.1	48.0	168.4	-0.98	-0.03	0.30	0.21
18. nudity	46.7	48.1	166.1	-0.97	0.08	0.28	0.22
19. eager	46.7	48.1	166.1	-0.97	0.02	0.19	0.31
20. sarcastic	46.4	47.2	169.7	-0.98	-0.06	0.26	0.24

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**structured
gentle**

(structured-safe-weak)

**routine
regulated
ascetic**



**unstructured
aggressive**

(unstructured-dangerous-powerful)

**carnal
frenzied
explosive**

Word	Comp.	Size	Angle	Cos.	Pw	Dg	St
1. desk	47.4	48.8	13.7	0.97	-0.23	-0.26	-0.14
2. elder	46.0	46.1	3.6	1.00	-0.22	-0.20	-0.19
3. nun	45.7	47.3	15.0	0.97	-0.24	-0.25	-0.13
4. notebook	44.3	44.6	7.2	0.99	-0.23	-0.19	-0.17
5. dune	43.5	44.5	12.1	0.98	-0.24	-0.20	-0.14
6. blueprint	42.8	43.8	12.3	0.98	-0.22	-0.22	-0.13
7. lineal	42.3	43.3	12.2	0.98	-0.17	-0.24	-0.15
8. baseboard	41.5	43.5	17.5	0.95	-0.26	-0.14	-0.15
9. regular	41.2	42.3	13.3	0.97	-0.14	-0.17	-0.24
10. sample	40.3	41.4	13.6	0.97	-0.17	-0.23	-0.13
11. point	40.2	41.1	12.0	0.98	-0.20	-0.21	-0.12
12. wrench	40.2	41.6	15.2	0.97	-0.16	-0.13	-0.24
13. standstill	39.5	39.5	3.8	1.00	-0.17	-0.16	-0.19
14. shingle	39.1	40.9	17.4	0.95	-0.20	-0.22	-0.10
15. neutrality	39.1	39.7	10.3	0.98	-0.20	-0.18	-0.13
16. monk	38.6	39.1	9.6	0.99	-0.20	-0.18	-0.13
17. ancient	38.4	39.2	11.7	0.98	-0.22	-0.14	-0.15
18. monogram	38.2	39.2	12.7	0.98	-0.20	-0.19	-0.12
19. march	38.2	39.4	14.3	0.97	-0.14	-0.23	-0.14
20. zen	38.0	38.9	12.6	0.98	-0.19	-0.20	-0.11

Word	Comp.	Size	Angle	Cos.	Pw	Dg	St
1. sexual	61.7	63.6	165.8	-0.97	0.36	0.26	0.19
2. masturbation	60.4	60.5	176.5	-1.00	0.25	0.29	0.27
3. lust	56.8	58.2	167.6	-0.98	0.21	0.33	0.21
4. striptease	56.6	58.1	167.1	-0.97	0.33	0.22	0.20
5. masturbate	56.0	56.1	177.0	-1.00	0.23	0.26	0.26
6. playboy	54.5	55.7	168.4	-0.98	0.28	0.17	0.27
7. ejaculate	53.7	55.2	166.8	-0.97	0.32	0.20	0.19
8. ejaculation	53.2	53.8	171.2	-0.99	0.28	0.19	0.24
9. horny	52.8	53.9	168.7	-0.98	0.23	0.29	0.18
10. seduction	51.4	53.4	164.3	-0.96	0.28	0.27	0.14
11. entice	50.5	50.7	174.7	-1.00	0.21	0.25	0.21
12. jump	50.1	52.4	163.0	-0.96	0.32	0.17	0.18
13. vagina	48.7	48.8	177.3	-1.00	0.20	0.22	0.23
14. agitated	48.2	50.4	162.8	-0.96	0.15	0.30	0.19
15. stripper	47.0	48.7	165.0	-0.97	0.19	0.15	0.28
16. spirits	46.6	47.0	173.2	-0.99	0.24	0.18	0.20
17. clitoris	46.6	48.0	165.8	-0.97	0.20	0.15	0.27
18. bustling	45.2	45.9	169.8	-0.98	0.18	0.25	0.17
19. impulse	45.1	46.9	164.2	-0.96	0.26	0.22	0.12
20. karate	44.7	46.0	166.3	-0.97	0.26	0.19	0.14

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**structured
weak**

(structured-gentle-bad)

**inert
detached
closed**



**unstructured
powerful**

(unstructured-aggressive-good)

**exciting
celebratory
frolisome**

Word	Comp.	Size	Angle	Cos.	Pw	Dg	St
1. no surprise	56.0	57.3	12.0	0.98	-0.36	0.04	-0.25
2. lone	55.6	57.9	16.2	0.96	-0.39	0.01	-0.21
3. stone	55.3	56.1	9.7	0.99	-0.25	-0.01	-0.35
4. trunk	52.4	54.3	15.0	0.97	-0.34	-0.07	-0.22
5. closure	51.2	52.2	11.3	0.98	-0.33	-0.00	-0.22
6. lethargic	50.3	52.6	17.3	0.95	-0.35	0.03	-0.19
7. finalized	50.0	52.4	17.2	0.96	-0.19	-0.01	-0.35
8. standby	48.1	50.0	16.1	0.96	-0.33	-0.02	-0.19
9. inactivate	47.8	48.8	11.8	0.98	-0.31	0.00	-0.20
10. olden	46.8	47.9	12.3	0.98	-0.30	-0.04	-0.21
11. unoccupied	46.2	47.3	12.7	0.98	-0.31	-0.00	-0.19
12. baton	45.5	45.7	5.4	1.00	-0.23	-0.02	-0.27
13. fragment	43.7	45.7	17.2	0.96	-0.28	0.08	-0.19
14. abstention	42.9	43.0	3.0	1.00	-0.22	0.00	-0.24
15. distance	41.6	43.6	17.4	0.95	-0.28	0.06	-0.17
16. anaesthesia	40.3	42.0	16.1	0.96	-0.23	-0.09	-0.21
17. celibacy	39.0	39.1	3.8	1.00	-0.20	-0.01	-0.22
18. grate	38.9	40.7	16.8	0.96	-0.26	-0.05	-0.16
19. delete	38.1	39.7	16.2	0.96	-0.27	0.01	-0.15
20. omit	37.7	38.4	11.3	0.98	-0.23	-0.04	-0.18

Word	Comp.	Size	Angle	Cos.	Pw	Dg	St
1. great surprise	81.8	84.9	164.6	-0.96	0.57	-0.01	0.32
2. carnival	75.3	75.7	174.3	-1.00	0.44	-0.04	0.38
3. birthday	75.0	76.6	168.3	-0.98	0.45	-0.10	0.36
4. applause	74.9	77.0	166.8	-0.97	0.48	-0.08	0.33
5. amusing	73.0	75.8	164.2	-0.96	0.48	-0.10	0.31
6. amused	72.9	74.4	168.4	-0.98	0.46	-0.08	0.33
7. party	72.6	73.7	170.3	-0.99	0.42	-0.09	0.37
8. happynewyear	72.2	74.2	166.8	-0.97	0.43	-0.12	0.36
9. excite	72.2	75.6	162.7	-0.95	0.50	0.08	0.28
10. kiss	72.1	75.4	163.0	-0.96	0.48	-0.12	0.30
11. extreme surprise	71.7	75.1	162.5	-0.95	0.50	0.07	0.28
12. fun	70.6	73.9	162.8	-0.96	0.49	-0.06	0.27
13. surprise	69.4	69.7	174.6	-1.00	0.41	-0.01	0.34
14. dancing	69.3	69.9	172.1	-0.99	0.33	-0.03	0.42
15. excitable	69.2	71.7	164.9	-0.97	0.45	0.09	0.30
16. humorist	69.0	72.2	163.0	-0.96	0.44	-0.13	0.30
17. tasty	68.6	71.0	165.0	-0.97	0.40	-0.13	0.34
18. dance	67.8	68.3	173.1	-0.99	0.40	-0.05	0.34
19. ecstacy	67.0	70.3	162.5	-0.95	0.46	0.08	0.26
20. rollercoaster	66.4	69.4	163.3	-0.96	0.46	0.07	0.26

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**structured
bad**

(structured-dangerous-weak)

**funereal
contaminated
irreparable**



**unstructured
good**

(unstructured-safe-powerful)

**playful
joyful
laughing**

Word	Comp. Size	Size Angle	Cos.	Pw	Dg	St
1. misrepresented	58.2	60.0	14.2	0.97	-0.24	0.34 -0.19
2. funeral	57.7	59.6	14.6	0.97	-0.35	0.22 -0.20
3. deletion	56.0	57.4	13.0	0.97	-0.24	0.32 -0.18
4. irreparable	55.5	58.2	17.6	0.95	-0.26	0.34 -0.15
5. improbable	53.8	54.5	8.8	0.99	-0.29	0.23 -0.20
6. opposed	53.4	55.3	15.2	0.96	-0.15	0.27 -0.29
7. coldness	52.9	54.1	12.5	0.98	-0.27	0.27 -0.16
8. bruising	52.8	55.3	17.6	0.95	-0.25	0.31 -0.13
9. vile	52.5	55.1	17.6	0.95	-0.15	0.33 -0.22
10. extinct	49.9	52.0	16.3	0.96	-0.26	0.27 -0.13
11. ineligible	48.8	49.6	10.4	0.98	-0.27	0.17 -0.21
12. skeptic	48.3	48.3	1.8	1.00	-0.21	0.22 -0.21
13. darkened	48.3	48.7	7.9	0.99	-0.25	0.22 -0.17
14. pantheon	48.0	50.1	16.7	0.96	-0.14	0.20 -0.29
15. annulment	47.6	48.7	12.1	0.98	-0.27	0.16 -0.20
16. farewell	47.5	49.8	17.4	0.95	-0.12	0.27 -0.24
17. comatose	47.3	48.1	10.8	0.98	-0.26	0.21 -0.16
18. deflect	47.2	48.0	10.2	0.98	-0.20	0.26 -0.17
19. stereotype	46.8	48.9	17.2	0.96	-0.13	0.20 -0.29
20. halt	46.2	48.0	16.0	0.96	-0.28	0.14 -0.19

Word	Comp. Size	Size Angle	Cos.	Pw	Dg	St
1. smiling	66.1	69.0	163.3	-0.96	0.42	-0.22 0.24
2. romance	66.0	68.0	166.2	-0.97	0.39	-0.22 0.27
3. honeymoon	65.8	66.8	170.2	-0.99	0.34	-0.22 0.31
4. laugh	65.0	66.2	168.7	-0.98	0.37	-0.25 0.25
5. sweetie	64.0	64.8	171.0	-0.99	0.31	-0.32 0.22
6. laughter	62.6	64.3	167.1	-0.97	0.37	-0.22 0.24
7. scrumptious	62.6	63.6	169.4	-0.98	0.35	-0.23 0.26
8. fiancée	62.0	62.6	171.9	-0.99	0.33	-0.24 0.25
9. liking	61.9	63.0	169.0	-0.98	0.34	-0.26 0.22
10. cheery	61.5	62.1	171.7	-0.99	0.29	-0.22 0.31
11. goodies	60.8	61.7	170.1	-0.99	0.23	-0.24 0.33
12. adorable	60.6	61.6	169.9	-0.98	0.21	-0.33 0.26
13. loving	60.1	62.9	163.1	-0.96	0.37	-0.24 0.18
14. travel	60.0	61.6	166.7	-0.97	0.33	-0.18 0.29
15. lovee	59.8	61.6	166.1	-0.97	0.35	-0.26 0.19
16. hearts	59.6	62.2	163.4	-0.96	0.36	-0.25 0.17
17. lovelovelove	59.4	59.9	173.0	-0.99	0.30	-0.27 0.22
18. happyheart	59.4	61.0	166.7	-0.97	0.34	-0.27 0.18
19. memories	59.0	60.5	167.2	-0.98	0.23	-0.34 0.21
20. delicious	58.4	60.2	166.0	-0.97	0.35	-0.20 0.22

Word	Comp.	Size	Angle	Cos.	Pw	Dg	St
1. demolish	56.9	58.1	168.1	-0.98	0.02	0.37	-0.24
2. protocol	55.0	56.2	168.2	-0.98	0.05	0.25	-0.35
3. rigidity	49.2	49.4	174.4	-1.00	0.03	0.25	-0.28
4. irreversible	48.4	48.6	175.5	-1.00	-0.02	0.27	-0.25
5. obligation	46.8	47.8	168.5	-0.98	0.07	0.28	-0.23
6. narcissist	46.5	48.3	164.5	-0.96	-0.02	0.32	-0.18
7. litigant	45.4	45.9	172.3	-0.99	0.04	0.26	-0.23
8. jailer	44.6	46.7	162.7	-0.95	0.01	0.32	-0.17
9. antagonist	43.9	45.4	165.2	-0.97	0.07	0.28	-0.20
10. judging	43.5	45.3	163.9	-0.96	0.07	0.28	-0.19
11. carnivorous	42.3	43.7	165.8	-0.97	0.03	0.28	-0.17
12. forensics	42.1	42.2	176.6	-1.00	0.02	0.23	-0.23
13. curfew	41.1	42.9	163.1	-0.96	0.01	0.29	-0.15
14. induce	40.8	42.1	165.5	-0.97	0.06	0.26	-0.19
15. python	40.7	42.7	162.6	-0.95	0.00	0.29	-0.15
16. penal	40.7	41.6	167.9	-0.98	-0.03	0.26	-0.18
17. cardiology	40.6	41.6	168.0	-0.98	-0.05	0.25	-0.19
18. critic	40.1	41.5	165.1	-0.97	0.07	0.25	-0.18
19. smug	40.1	41.6	164.4	-0.96	-0.06	0.26	-0.18
20. revocation	39.8	41.2	164.8	-0.97	0.06	0.26	-0.17

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unstructured
gentle

(unstructured-safe-weak)

whimsical
childlike
yielding



structured
aggressive

(structured-dangerous-powerful)

dictatorial
militaristic
imperious

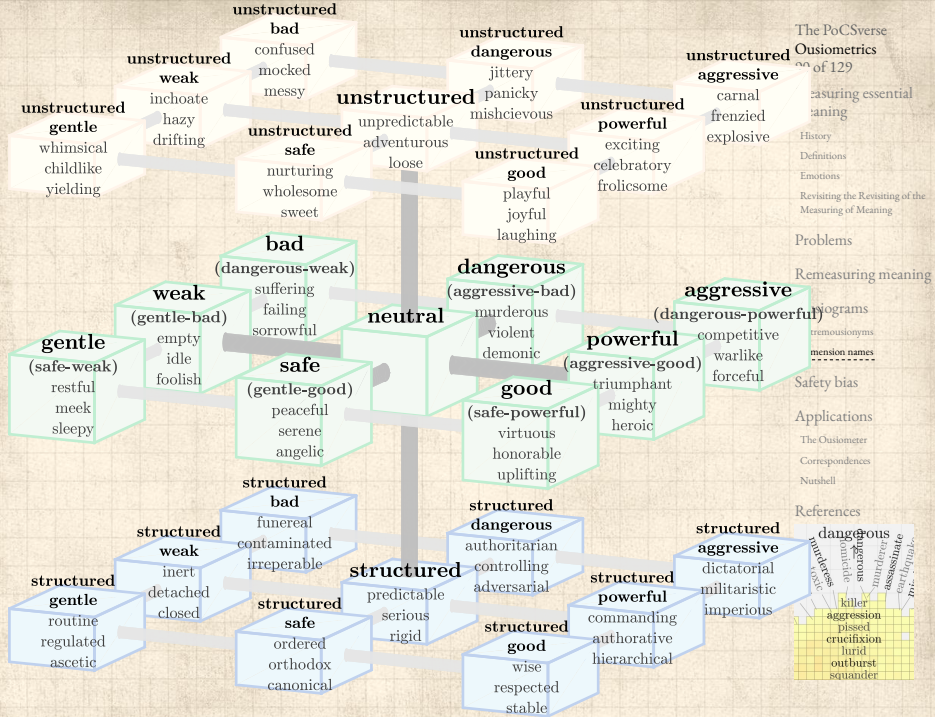
Word	Comp.	Size	Angle	Cos.	Pw	Dg	St
1. feather	62.2	64.4	15.3	0.96	-0.31	-0.34	0.17
2. pudding	57.5	60.0	16.9	0.96	-0.21	-0.36	0.19
3. lotion	57.3	59.1	14.0	0.97	-0.23	-0.34	0.19
4. wig	57.3	58.5	11.7	0.98	-0.23	-0.33	0.21
5. plum	57.2	57.9	9.1	0.99	-0.22	-0.31	0.23
6. burrito	56.3	56.8	7.9	0.99	-0.25	-0.29	0.21
7. foam	55.7	58.4	17.5	0.95	-0.24	-0.34	0.15
8. puree	54.6	56.7	15.8	0.96	-0.22	-0.33	0.17
9. bunny	54.5	55.7	11.8	0.98	-0.19	-0.31	0.23
10. foaming	52.9	55.3	16.8	0.96	-0.27	-0.30	0.13
11. platter	52.7	55.2	17.4	0.95	-0.23	-0.32	0.14
12. weave	52.5	54.4	15.1	0.97	-0.30	-0.25	0.15
13. shoes	52.2	53.5	12.3	0.98	-0.18	-0.30	0.21
14. cream	52.0	54.1	16.1	0.96	-0.22	-0.31	0.15
15. crayon	51.4	53.5	16.2	0.96	-0.29	-0.25	0.14
16. butter	50.4	51.4	10.9	0.98	-0.24	-0.26	0.16
17. sleeveless	50.1	51.1	11.4	0.98	-0.25	-0.26	0.16
18. littlethings	49.9	52.2	17.1	0.96	-0.16	-0.31	0.19
19. froth	49.5	50.9	13.1	0.97	-0.27	-0.24	0.15
20. lego	49.1	50.5	13.3	0.97	-0.27	-0.23	0.15

Word	Comp.	Size	Angle	Cos.	Pw	Dg	St
1. boss	65.8	66.4	172.8	-0.99	0.29	0.24	-0.33
2. dictatorial	65.7	68.6	163.1	-0.96	0.23	0.41	-0.23
3. exterminator	65.0	67.4	164.6	-0.96	0.35	0.34	-0.18
4. relentless	63.2	63.5	174.2	-0.99	0.31	0.28	-0.24
5. imperialist	61.4	63.9	164.0	-0.96	0.27	0.37	-0.18
6. army	60.6	63.4	163.1	-0.96	0.37	0.26	-0.18
7. political	60.0	60.8	170.8	-0.99	0.31	0.29	-0.21
8. cop	58.7	60.6	165.4	-0.97	0.29	0.33	-0.17
9. policy	56.9	58.0	168.9	-0.98	0.27	0.30	-0.19
10. courtroom	56.5	57.2	171.2	-0.99	0.30	0.22	-0.23
11. armada	56.5	58.6	164.6	-0.96	0.34	0.25	-0.17
12. military	56.5	57.7	168.1	-0.98	0.32	0.24	-0.19
13. commando	54.0	54.8	170.5	-0.99	0.24	0.29	-0.19
14. imposing	53.4	55.1	165.9	-0.97	0.30	0.25	-0.16
15. demanding	53.2	55.5	163.4	-0.96	0.30	0.26	-0.14
16. regimental	52.2	52.6	172.9	-0.99	0.19	0.26	-0.24
17. manipulate	52.2	54.5	163.4	-0.96	0.17	0.33	-0.20
18. claimant	51.7	53.3	165.9	-0.97	0.18	0.31	-0.20
19. politician	51.6	53.1	166.2	-0.97	0.20	0.18	-0.31
20. courts	51.6	52.5	169.2	-0.98	0.26	0.25	-0.17



Word	Comp.	Size	Angle	Cos.	Pw	Dg	St
1. commissioner	59.0	60.5	167.5	-0.98	0.35	-0.09	-0.29
2. superintendent	57.4	59.6	164.1	-0.96	0.40	0.00	-0.22
3. supervisor	56.8	58.6	165.9	-0.97	0.36	-0.08	-0.25
4. business man	55.9	58.1	164.2	-0.96	0.38	0.06	-0.23
5. directive	54.5	56.4	165.2	-0.97	0.37	-0.04	-0.22
6. producer	54.1	55.6	166.9	-0.97	0.36	0.02	-0.23
7. governmental	52.7	53.3	171.2	-0.99	0.32	0.03	-0.25
8. administrator	52.6	52.8	175.4	-1.00	0.30	-0.02	-0.27
9. magistrate	52.6	54.2	165.9	-0.97	0.36	-0.02	-0.21
10. reformer	52.5	54.2	165.4	-0.97	0.36	0.02	-0.21
11. patriarch	52.4	53.8	167.0	-0.97	0.31	-0.09	-0.26
12. minister	51.6	52.1	171.7	-0.99	0.28	-0.06	-0.28
13. controlling	50.5	50.9	173.6	-0.99	0.25	-0.02	-0.30
14. warrants	50.2	51.2	168.8	-0.98	0.27	-0.08	-0.27
15. colonel	50.2	52.6	162.7	-0.95	0.31	0.11	-0.24
16. officer	49.7	50.4	170.5	-0.99	0.26	-0.06	-0.28
17. congressman	49.2	50.0	169.7	-0.98	0.23	0.04	-0.30
18. juridical	49.1	49.6	171.9	-0.99	0.25	-0.05	-0.28
19. patron	48.7	49.9	167.3	-0.98	0.29	-0.08	-0.24
20. legislator	48.6	50.3	165.1	-0.97	0.31	0.08	-0.22

Word	Comp.	Size	Angle	Cos.	Pw	Dg	St
1. confidence	84.2	88.3	162.6	-0.95	0.44	-0.47	-0.21
2. reliable	76.6	80.2	162.6	-0.95	0.35	-0.46	-0.20
3. wise	72.7	75.7	163.9	-0.96	0.33	-0.43	-0.20
4. secure	68.9	72.0	163.0	-0.96	0.41	-0.31	-0.19
5. respectable	68.3	71.1	164.0	-0.96	0.38	-0.34	-0.18
6. constitute	68.0	69.7	167.3	-0.98	0.38	-0.31	-0.21
7. stability	67.0	68.4	168.0	-0.98	0.30	-0.37	-0.22
8. autonomy	64.7	65.9	169.2	-0.98	0.35	-0.29	-0.22
9. educator	64.4	66.5	165.4	-0.97	0.32	-0.35	-0.18
10. soundness	63.3	65.0	166.7	-0.97	0.36	-0.27	-0.20
11. sacred	63.2	66.3	162.4	-0.95	0.37	-0.31	-0.16
12. parent	62.8	64.9	165.2	-0.97	0.35	-0.31	-0.18
13. maestro	62.3	64.8	163.9	-0.96	0.34	-0.32	-0.16
14. civilized	62.3	64.7	164.3	-0.96	0.23	-0.38	-0.21
15. propriety	61.8	64.6	163.1	-0.96	0.27	-0.38	-0.17
16. securities	61.5	61.9	173.6	-0.99	0.29	-0.30	-0.23
17. property	60.8	62.4	167.1	-0.97	0.21	-0.35	-0.25
18. father	60.4	62.6	164.8	-0.96	0.31	-0.33	-0.16
19. proprietary	60.3	61.4	168.8	-0.98	0.26	-0.34	-0.21
20. order	59.8	61.1	168.1	-0.98	0.27	-0.33	-0.19



From types to tokens: [17, ?]

 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.

 A set of distinct corpora:

 English fiction from Google Books (120 years). [11, 16]

 Jane Austen's novels.

 Sherlock Holmes stories.

 New York Times (20 years). [21]

 Wikipedia (2019/03). [22]

 RadioTalk: Transcriptions of talk radio. [3]

 Twitter through Storywrangler. [1]

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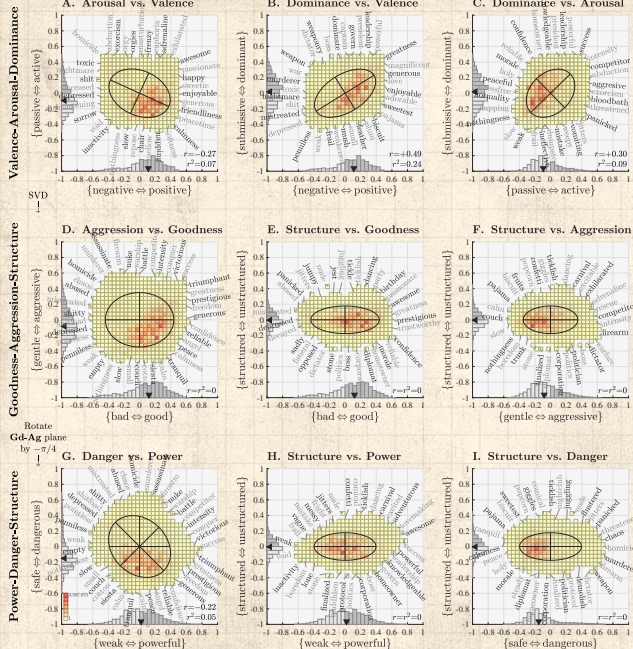
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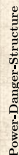
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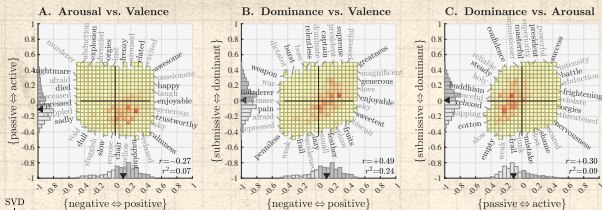
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References

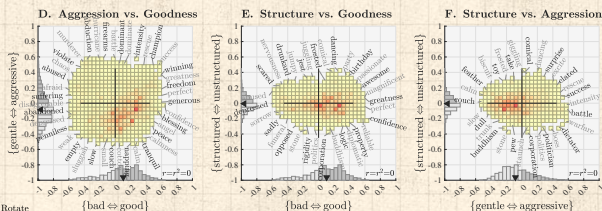




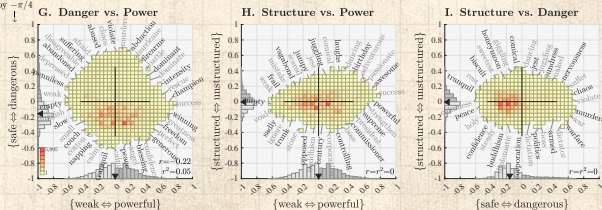
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Goodness-Aggression-Structure



Power-Danger-Structure



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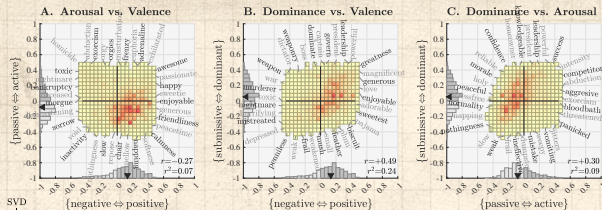
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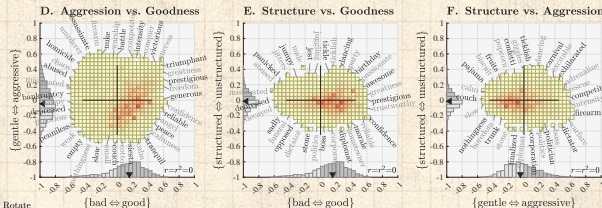
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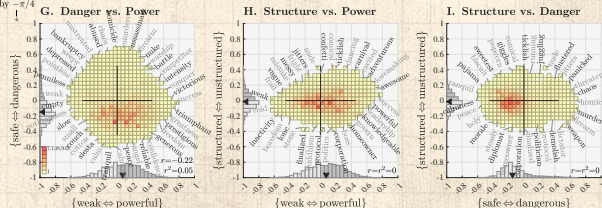
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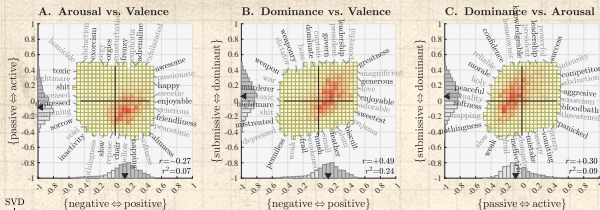
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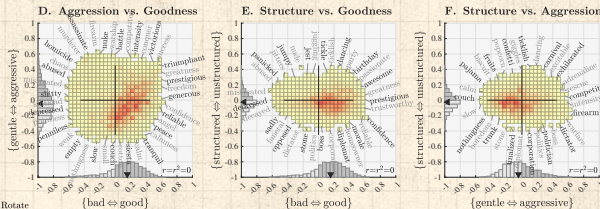
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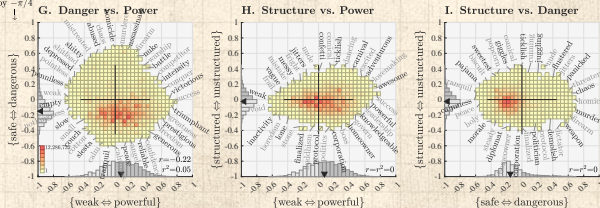
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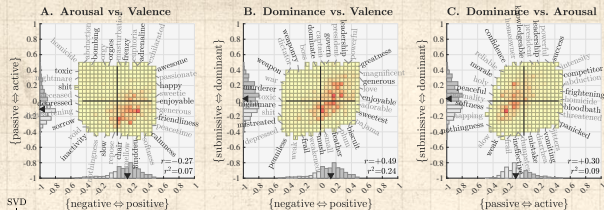
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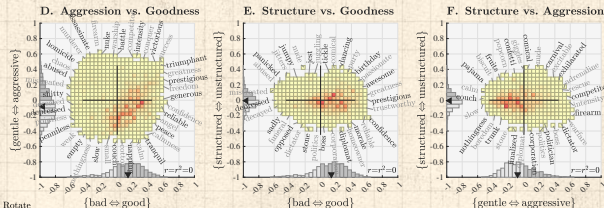
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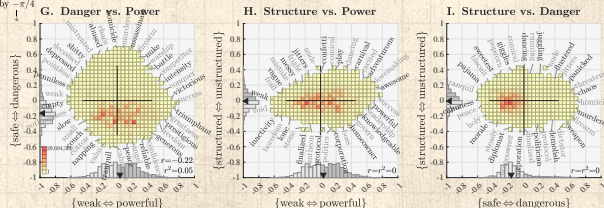
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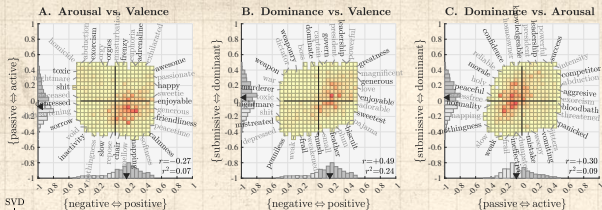
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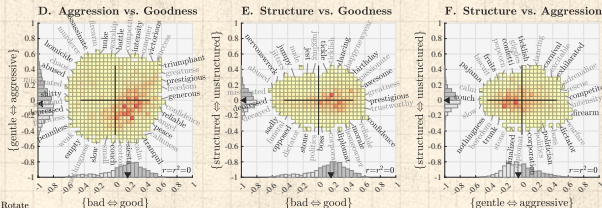
References



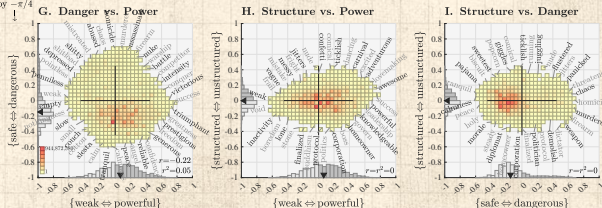
Valence-Arousal-Dominance



Goodness-Aggression-Structure



Power-Danger-Structure



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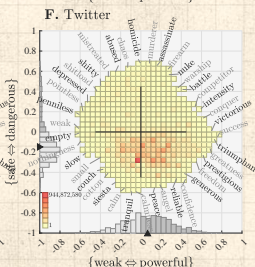
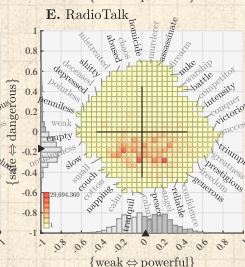
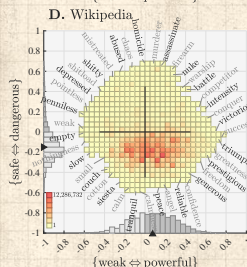
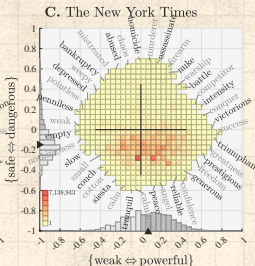
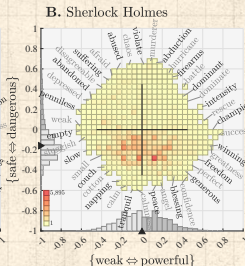
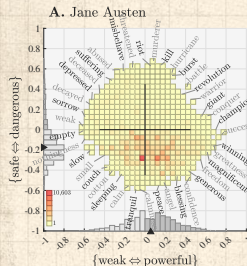
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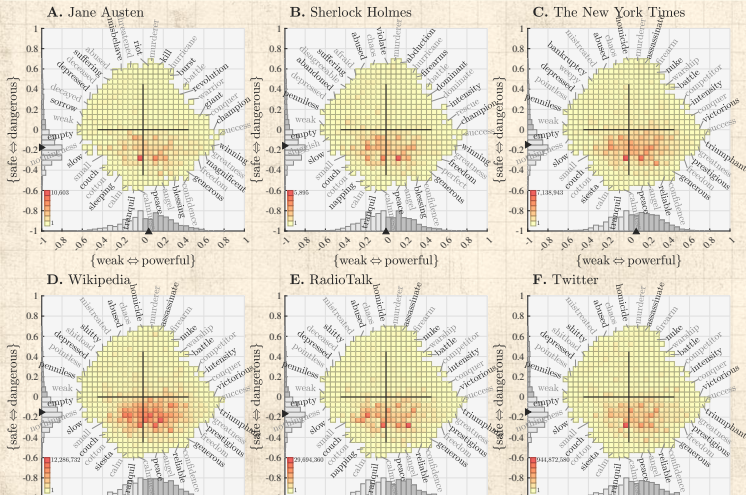
A special thing has happened:



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



Applying PDS framework to disparate corpora (tokens) reveals a linguistic 'safety bias'.



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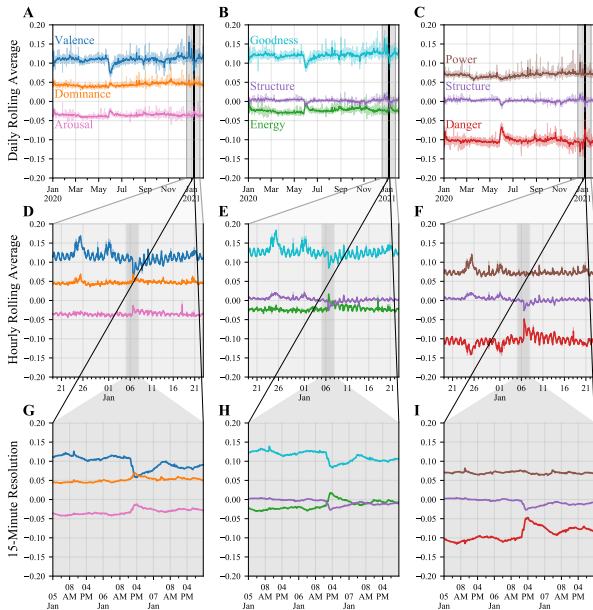
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Prototype ousiometer—Twitter:



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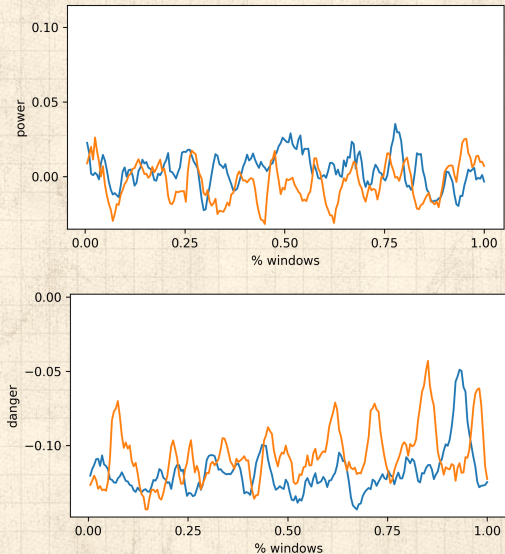
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Prototype ousiometer—Harry Potter:



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

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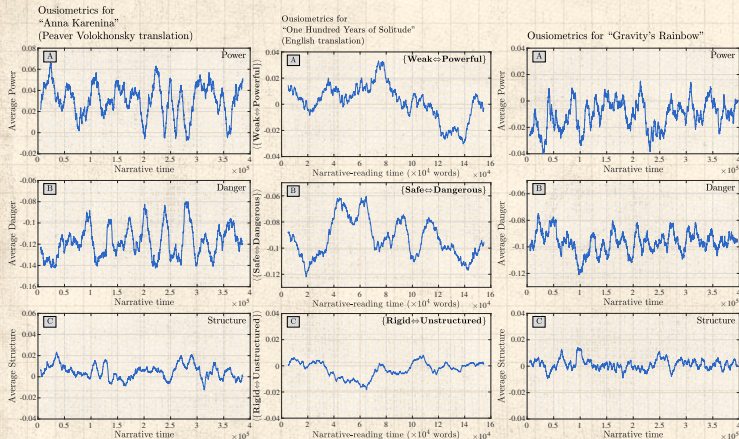
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Power and Danger time series for books:



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Prototype ousiometer—Terry Pratchett's Discworld:

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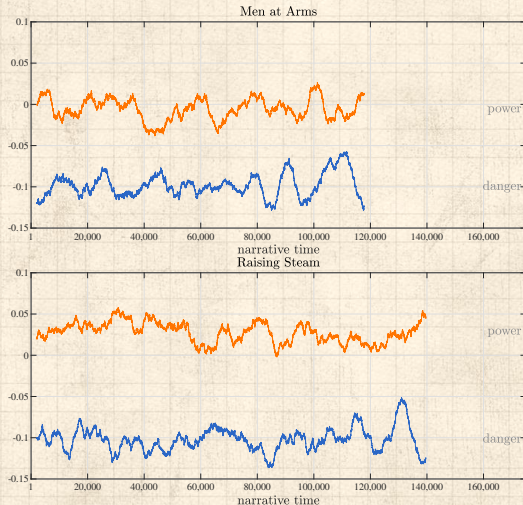
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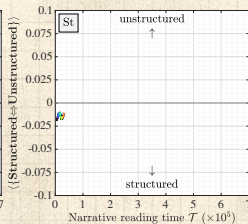
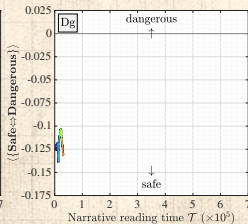
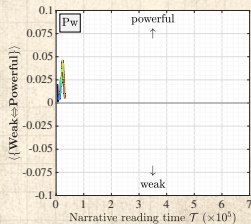
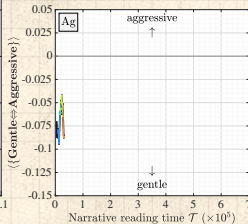
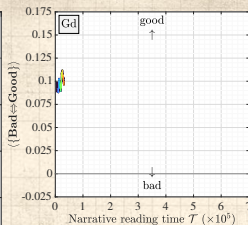
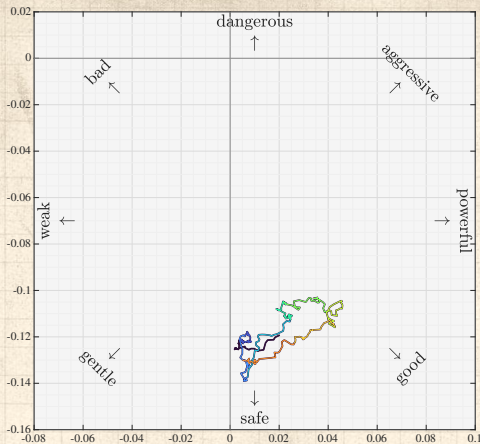
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"Les Misérables" by Victor Hugo (English translation)



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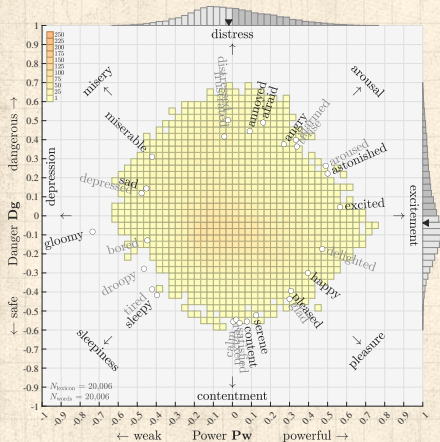


"Les Misérables" by Victor Hugo (English translation)

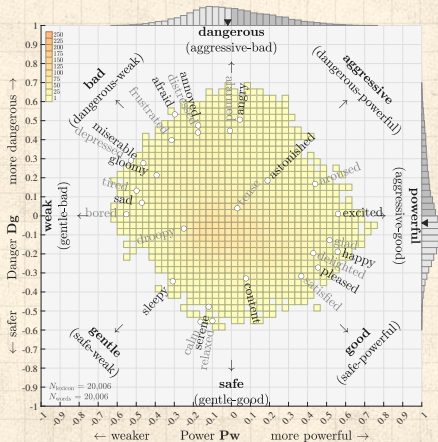


Rough agreement with Russell's circumplex model, [20] which itself doesn't disagree with a 2- d orthogonal framework.

A. Russell's circumplex model of affect:



B. Russell's affect words in DAPG framework:



Synonyms	Valence	Arousal	Dominance	Goodness	Aggression	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
astounded	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

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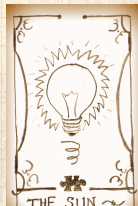
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Orthogonal frames in political rhetoric.



Findings, observations, possibilities:

- Power-danger-structure framework emerges in distinct settings, fitting types and tokens.
- Safety bias of communication refines Pollyanna Principle of positivity.
- Full circumplex model is GPADS:
Goodness, Power, Aggression, Danger, Structure.
- Happiness/Goodness/Wisdom = Power + Safety
- An essential question of others: “Are you safe?”
- GPADS circumplex framework: A compass for evolution and survival.
- Possible: Telegnomics for stories—Measuring character arcs, plots.
- Ousiometer can be improved and refined. Replaces Hedonometer.
- Essential meaning is a complement to information theory which is meaning-free. [23]
- See concluding remarks in version 2 of the arxiv preprint. 

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<https://storylab.w3.uvm.edu/ousiometrics>

Troy and Abed



Abed's Uncontrollable Christmas, S2E11 of Community

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murderess
toxic
chaos
killer
aggression
pissed
crucifixion
lurid
outburst
squander

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