The Meaning of Meaning

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Principles of Complex Systems, Vols. 1, 2, & 3D CSYS/MATH 300, 303, & 394, 2022–2023 | @pocsvox

Prof. Peter Sheridan Dodds | @peterdodds

Computational Story Lab | Vermont Complex Systems Center Santa Fe Institute | University of Vermont























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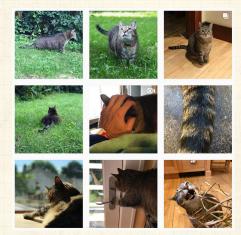
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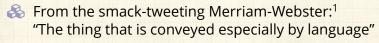
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"Ousiometrics and Telegnomics: The essence of meaning conforms to a two-dimensional powerful-weak and dangerous-safe framework with diverse corpora presenting a safety bias" Dodds et al., , 2021. [?]

What does meaning even mean?



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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?

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What does meaning even mean?

- From the smack-tweeting Merriam-Webster:¹
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- Does essential meaning meaningfully span some kind of space?

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¹Life goal: Never get owned by a dictionary on social media

"Abed's Uncontrollable Christmas"

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"Abed's Uncontrollable Christmas"

Abed searches for the meaning of Christmas (in stop animation)

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"Introduction to Teaching"

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"Introduction to Teaching"

Abed Nadir: "I thought the meaning of people was somewhere in here.

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"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—people are random and pointless."

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The meaning of pings:



"A factorial study of complex auditory stimuli (passive sonar sounds)" 🗹

L. M. Solomon, Unpublished Doctoral Dissertation, University of Illinois, , , 1954. [?]

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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"The Measurement of Meaning" **3**. by Osgood, Suci, and Tannenbaum (1957). [?]



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

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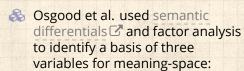
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© Evaluation: {bad ⇔ good}

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Potency: {weak ⇔ strong}

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100s of students, 10s of things, 50 semantic differentials The PoCSverse Meaning 9 of 76

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

"EPA framework"

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Semantic differentials from Osgood et al.: [?]

	pleasant-unpleasant	18. large-small	
	repeated-varied	19. clean-dirty	36. colorful-colorless
	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. Tammar-strange	41. deliberate-careless
8.	powerful-weak	20. Solv-Halu	42. happy-sad
9.	steady-fluttering		43. gentle-violent
10.	soft-loud		44. mild-intense
11.	full-empty		45. rounded-angular
12.	good-bad	20 muching mulling	46. slow-fast
13.	rumbling-whining	21 labored aggr	
14.	solid-hollow	32 dark-prioni	47. rugged-delicate
	clear-hazy	oo, even-uneven	48. simple-complex
16.	calming-exciting	01. 10000 016110	49. green-red
17.	pleasing-annoying	35. relaxed-tense	50. masculine-feminine

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

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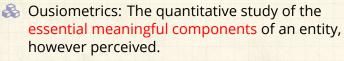
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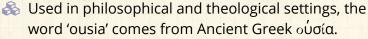
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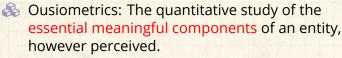
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Used in philosophical and theological settings, the word 'ousia' comes from Ancient Greek οὐσία.

🙈 To be distinguished from semantics, semiotics, ...

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Essential dimensions captured by emotion:



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

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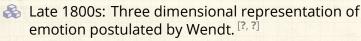
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3 1970s: Mehrabian and Russell explicitly port EPA framework: [?, ?]

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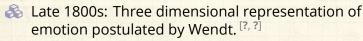
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♥ Evaluation ~ Pleasure/Valence

Potency ~ Dominance

Activity ~ Arousal

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

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- Explicit presumption of independence of VAD dimensions, has hardened as fact.
- Intention that VAD \equiv EPA has become lost in literature. [?]

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"An Approach to Environmental Psychology." **3** 🗷 by Mehrabian and Russell (1974). [?]



"The basic emotional impact of environments"

Mehrabian and Russell, Perceptual and motor skills, **38**, 283–301, 1974. [?]

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

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aggression crucifixion outburst

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- 2. The focus on types alone and not tokens: Missing the forest for the book of tree species.

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Solution is to always perform factor analysis (SVD).

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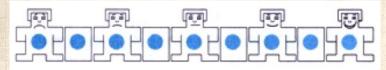
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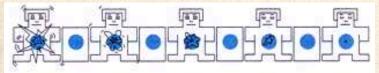
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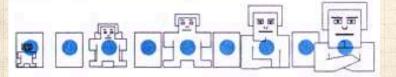
1999 ANEW study—three 1–9 scales: [?] valence:



arousal:



dominance:



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

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aggression crucifixion outburst

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Participants were further told:

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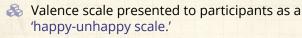
Safety bias

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Fine words but poorly cover real texts [?].

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The Hedonometer was always about essential meaning.

We now know that ANEW is a no-no:

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

Sine words but poorly cover real texts [?].

Wrongly suggests Arousal and Dominance are minimal relative to Valence. The PoCSverse Meaning 18 of 76

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"Obtaining Reliable human ratings of valence, arousal, and dominance for 20,000 English words" (2)

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

Moving beyond Likert scales:

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Moving beyond Likert scales:



the best and worst according to some criterion.

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"Obtaining Reliable human ratings of valence, arousal, and dominance for 20,000 English words" (2)

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Moving beyond Likert scales:



 $\ensuremath{\mathfrak{S}}$ For n=4, the are 6 pair comparisons of Things.

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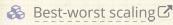




"Obtaining Reliable human ratings of valence, arousal, and dominance for 20,000 English words"

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

Moving beyond Likert scales:



- $\ensuremath{ \Longrightarrow}$ For n=4, the 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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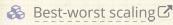




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Moving beyond Likert scales:



- Ask raters to examine n things once, and choose the best and worst according to some criterion.
- \clubsuit For n=4, the are 6 pair comparisons of Things.
- $\ \ \,$ Choosing best and worst gives 5 orderings: $\tau_1>\tau_2,\tau_3>\tau_4.$
- \clubsuit Things end up with scores in [0,1].

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NRC VAD Lexicon [?]

ostronico i culto no polo ciente los los les insperientes fra de esta insperiente entre de la competitación de	
VAD endpoints:	Paradigm words and phrases presented to raters: [?]
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: 20,007 words:

Standard correlations suggests a bit of Barney Rubble:

$$R(V, A) \simeq -0.268$$
$$R(A, D) \simeq 0.302$$
$$R(D, V) \simeq 0.488$$

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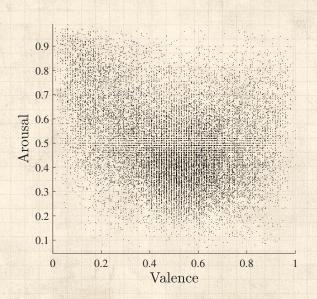
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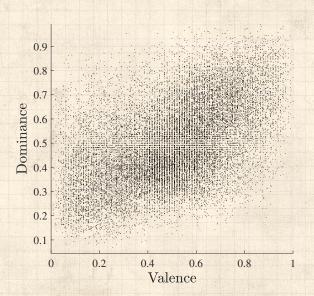
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¹Apricot jam, always.



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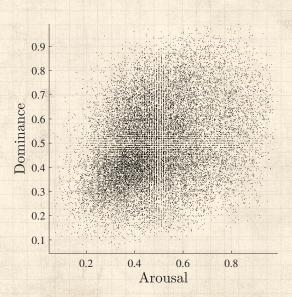
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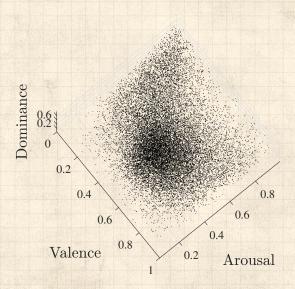
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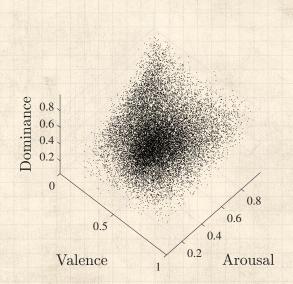
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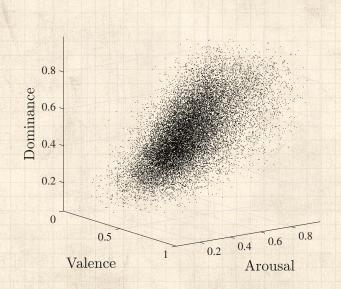
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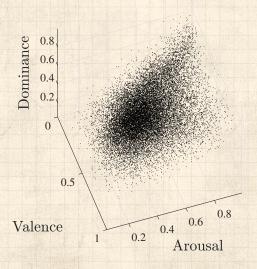
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¹Apricot jam, always.

The Delicious English Muffin of Meaning:¹



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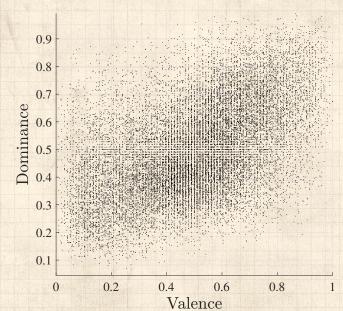
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¹Apricot jam, always.

 $R(D, V) \simeq 0.488$



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Variance explained:

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Variance explained:



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

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Variance explained:

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

Apply SVD.

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Variance explained:

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

Apply SVD.

 $\red singular$ values: $\sigma_1 \simeq 34.1$, $\sigma_2 \simeq 27.2$, and $\sigma_3 \simeq 13.8$,

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🚓 Apply SVD.

 $\red {\$}$ Singular values: $\sigma_1 \simeq 34.1$, $\sigma_2 \simeq 27.2$, and $\sigma_3 \simeq 13.8$,

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

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- 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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- Interpretability enhancements: Ousiograms.

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 \sim valence-dominance ous iogram for the NRC VAD lexicon \sim dominant 0.8 0.7 0.5 -magnificent 0.4 dictatorship0.3 generous murderous 0.2 happily negative 1.0 homicidal positive enjoyable toxic memories mier adorable pain sweetest horrifying eddy -0.2 shit disheartening -0.3 mistreated mush -0.4and the pastive -0.6 -0.7 -0.8 $-0.9 - N_{\text{lexicon}} = 20,006$ submissive -1 -0.9 -0.8 -0.7 -0.6 -0.5 -0.4 -0.3 -0.2 -0.1 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9

valence V

more positive \rightarrow

 \leftarrow more negative

more dominant

dominance

more submissive

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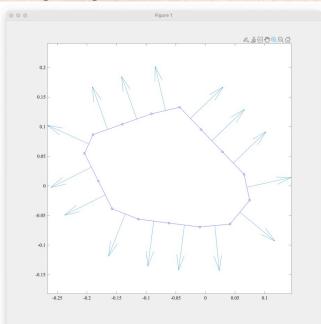
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Building ousiograms (2021/01/31):



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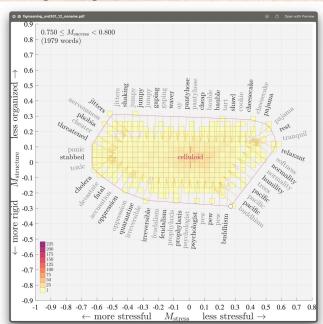
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Building ousiograms (2021/01/31):



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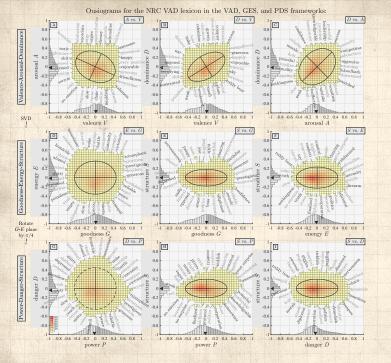
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 \sim power-danger ousingram for the NRC VAD lexicon \sim dangerous 0.8 0.7 0.6 terrifying poisonous more dangerous 0.5 masochism somersault 0.2 sorrow 0.1 weak chipmunl danger D idle kevstone -0.1 nothingness riumph nought greatness -0.3 storybook accord -0.6 -0.7 -0.8 $-0.9 - N_{\text{lexicon}} = 20,006$ safe $N_{\text{words}} = 20,006$ -1 -0.9 -0.8 -0.7 -0.6 -0.5 -0.4 -0.3 -0.2 -0.1 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 \leftarrow weaker power P more powerful \rightarrow

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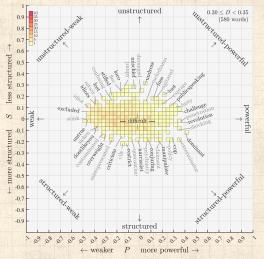
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Ousiometric slices:



Slices of Structure Flipbook Slices of Danger Flipbook Slices of Power Flipbook

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outburst

Extremonyms: Synousionyms and Antousionyms:

Powerful-Safe (Good) to Weak-Da

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:

			Poweriui			_	_		_
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:

Dang	rous-Po	verful (High Energ	gy) to Saf	e-Weal	(Low E	nergy)	axis:	
Synousionym	Valence	Arousal	Dominance	Goodness	Energy	Structure	Power	Danger	Structure
Anchor: volcani	-0.156	0.410	0.281	-0.061	0.515	-0.045	0.322	0.407	-0.045
shellin	-0.163	0.417	0.273	-0.072	0.518	-0.039	0.316	0.417	-0.039
artiller	-0.150	0.412	0.294	-0.050	0.523	-0.050	0.335	0.405	-0.050
wil	l -0.188	0.422	0.250	-0.105	0.514	-0.032	0.289	0.438	-0.032
rifle		0.364	0.265	-0.068	0.470	-0.062	0.284	0.380	-0.062
Antousionym	Valence	Arousal	Dominance	Goodness	Energy	Structure	Power	Danger	Structure
couc	0.094	-0.418	-0.302	-0.002	-0.524	0.025	-0.372	-0.369	0.025
mellov	0.133	-0.431	-0.235	0.066	-0.504	-0.009	-0.310	-0.403	-0.009
pillov	0.163	-0.372	-0.305	0.049	-0.498	0.085	-0.317	-0.387	0.085
tortois	0.173	-0.422	-0.250	0.092	-0.511	0.025	-0.297	-0.427	0.025
quil	0.143	-0.377	-0.274	0.048	-0.482	0.052	-0.307	-0.375	0.052
cotto	0.139	-0.429	-0.260	0.059	-0.517	0.012	-0.324	-0.407	0.012
Dangerous to Safe axis:									
			Dangerou	s to Safe	axis:				
Synousionyn	s Valence	Arousal				Structure	Power	Danger	Structure
Synousionyn Anchor: homicid		Arousal				Structure	Power -0.005		Structure 0.011
	e -0.490		Dominance	Goodness	Energy		-		
Anchor: homicid	e -0.490 r -0.459	0.473	Dominance 0.018	Goodness -0.485	Energy 0.478	0.011	-0.005	0.681	0.011
Anchor: homicid	e -0.490 r -0.459 h -0.460	$0.473 \\ 0.471$	Dominance 0.018 0.043	Goodness -0.485 -0.446	Energy 0.478 0.485	0.011 0.008	-0.005 0.028	0.681 0.658	0.011 0.008
Anchor: homicid kille psychopat	e -0.490 r -0.459 h -0.460 d -0.452	0.473 0.471 0.443	0.018 0.043 0.036	Goodness -0.485 -0.446 -0.446	0.478 0.485 0.458	0.011 0.008 -0.003	-0.005 0.028 0.009	0.681 0.658 0.640	0.011 0.008 -0.003
Anchor: homicid kille psychopat bloodshe	e -0.490 r -0.459 h -0.460 d -0.452 e -0.439	0.473 0.471 0.443 0.442 0.470	0.018 0.043 0.036 0.025 0.019	Goodness -0.485 -0.446 -0.446 -0.444 -0.440	0.478 0.485 0.458 0.450 0.468	0.011 0.008 -0.003 0.008	-0.005 0.028 0.009 0.004 0.020	0.681 0.658 0.640 0.633 0.642	0.011 0.008 -0.003 0.008
Anchor: homicid kille psychopat bloodshe violat	e -0.490 r -0.459 h -0.460 d -0.452 e -0.439 s Valence	0.473 0.471 0.443 0.442 0.470	0.018 0.043 0.036 0.025 0.019	Goodness -0.485 -0.446 -0.446 -0.444 -0.440	0.478 0.485 0.458 0.450 0.468	0.011 0.008 -0.003 0.008 0.033	-0.005 0.028 0.009 0.004 0.020	0.681 0.658 0.640 0.633 0.642 Danger	0.011 0.008 -0.003 0.008 0.033
Anchor: homicid kille psychopat bloodshe violat Antousionyn	e -0.490 cr -0.459 h -0.460 d -0.452 e -0.439 s Valence	0.473 0.471 0.443 0.442 0.470 Arousal	Dominance 0.018 0.043 0.036 0.025 0.019 Dominance	Goodness -0.485 -0.446 -0.446 -0.444 -0.440 Goodness	0.478 0.485 0.458 0.450 0.468 Energy	0.011 0.008 -0.003 0.008 0.033 Structure	-0.005 0.028 0.009 0.004 0.020 Power	0.681 0.658 0.640 0.633 0.642 Danger	0.011 0.008 -0.003 0.008 0.033 Structure
Anchor: homicid kille psychopat bloodshe violat Antousionyn natur	e -0.490 r -0.459 h -0.460 d -0.452 e -0.439 s Valence il 0.354 il 0.417	0.473 0.471 0.443 0.442 0.470 Arousal	Dominance 0.018 0.043 0.036 0.025 0.019 Dominance -0.019	Goodness -0.485 -0.446 -0.446 -0.444 -0.440 Goodness 0.354	0.478 0.485 0.458 0.450 0.468 Energy	0.011 0.008 -0.003 0.008 0.033 Structure -0.026	-0.005 0.028 0.009 0.004 0.020 Power	0.681 0.658 0.640 0.633 0.642 Danger -0.520 -0.588	0.011 0.008 -0.003 0.008 0.033 Structure -0.026
Anchor: homicid kille psychopat bloodshe violar Antousionym natur tranqu	e -0.490 r -0.459 h -0.460 d -0.452 e -0.439 s Valence il 0.354 iil 0.417 s 0.375	0.473 0.471 0.443 0.442 0.470 Arousal -0.382 -0.406	Dominance 0.018 0.043 0.036 0.025 0.019 Dominance -0.019 -0.145	Goodness -0.485 -0.446 -0.446 -0.444 -0.440 Goodness 0.354 0.351	0.478 0.485 0.458 0.450 0.468 Energy -0.382 -0.480	0.011 0.008 -0.003 0.008 0.033 Structure -0.026 0.078	-0.005 0.028 0.009 0.004 0.020 Power -0.020 -0.091	0.681 0.658 0.640 0.633 0.642 Danger -0.520 -0.588	0.011 0.008 -0.003 0.008 0.033 Structure -0.026 0.078
Anchor: homicid kille psychopat bloodshe viola: Antousionyn natur tranqu softner	e -0.490 r -0.459 h -0.460 d -0.452 e -0.439 s Valence il 0.354 iil 0.417 s 0.375 y 0.400	0.473 0.471 0.443 0.442 0.470 Arousal -0.382 -0.406 -0.414	Dominance 0.018 0.043 0.036 0.025 0.019 Dominance -0.019 -0.145 -0.098	Goodness -0.485 -0.446 -0.446 -0.444 -0.440 Goodness 0.354 0.351 0.338	0.478 0.485 0.458 0.450 0.468 Energy -0.382 -0.480 -0.455	0.011 0.008 -0.003 0.008 0.033 Structure -0.026 0.078 0.021	-0.005 0.028 0.009 0.004 0.020 Power -0.020 -0.091 -0.082	0.681 0.658 0.640 0.633 0.642 Danger -0.520 -0.588 -0.561	0.011 0.008 -0.003 0.008 0.033 Structure -0.026 0.078 0.021

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Physics: Power was once sometimes called Activity

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

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Physics: Power was once sometimes called Activity

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Other descriptors that don't hold up:

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Other descriptors that don't hold up:

Success-Stress-Structure.

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- Physics: Power was once sometimes called Activity
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 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

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- Success-Stress-Structure.
- Energy/Flourishing/Thriving-Threat
- Power-Order/Chaos-Gravity/Seriousness

After much staring at the ceiling:

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- Physics: Power was once sometimes called Activity
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- Energy/Flourishing/Thriving-Threat
- Power-Order/Chaos-Gravity/Seriousness

After much staring at the ceiling:

Soodness-Energy-Structure (GES) (still fails)

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Physics: Power was once sometimes called Activity

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-Energy-Structure (GES) (still fails)

Power-Danger-Structure (PDS) (succeeds)

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Connections between meaning dimensions:

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

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

$$\left[\begin{array}{c} \textbf{Power} \\ \textbf{Danger} \end{array} \right] = \frac{1}{\sqrt{2}} \left[\begin{array}{cc} 1 & 1 \\ -1 & 1 \end{array} \right] \left[\begin{array}{c} \textbf{Goodness} \\ \textbf{Energy} \end{array} \right]$$
 (1)

From types to tokens: [?,?]



Analysis so far is for a lexicon of types: Each word counts once.

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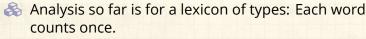
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From types to tokens: [?,?]



Must consider how words are used in real texts by frequency: Tokens. The PoCSverse Meaning 40 of 76

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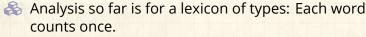
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From types to tokens: [?,?]



Must consider how words are used in real texts by frequency: Tokens.

Rebuild ousiograms with usage frequency incorporated.

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From types to tokens: [?,?]

- 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:
 - Finglish fiction from Google Books (120 years). [?,?]
 - Jane Austen's novels.
 - Sherlock Holmes stories.
 - New York Times (20 years). [?]
 - Wikipedia (2019/03). [?]
 - RadioTalk: Transcriptions of talk radio. [?]
 - Twitter through Storywrangler. [?]

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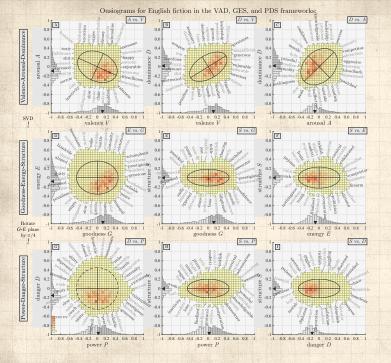
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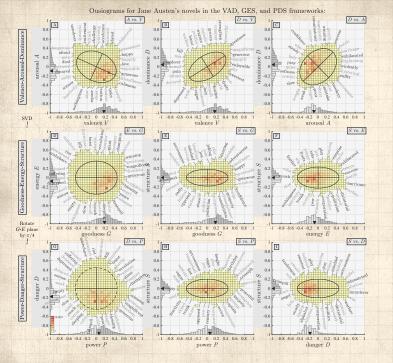
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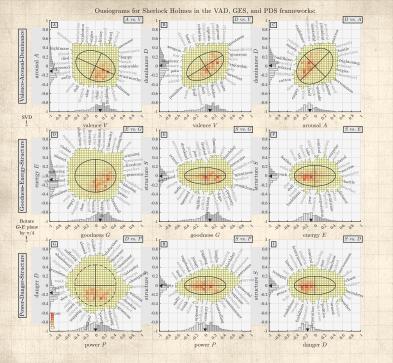
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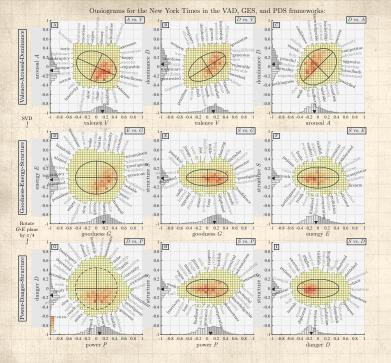
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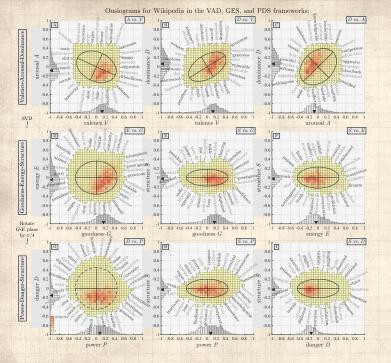
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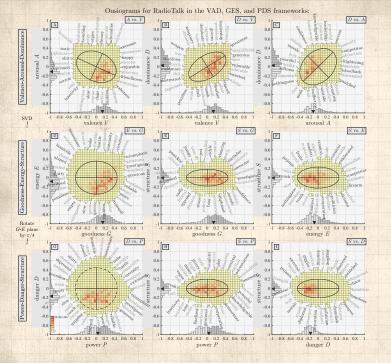
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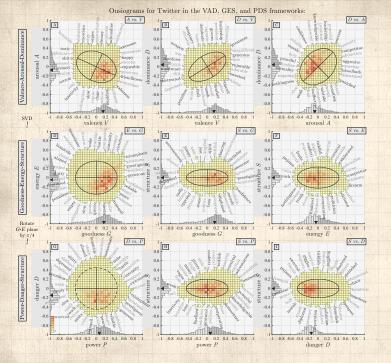
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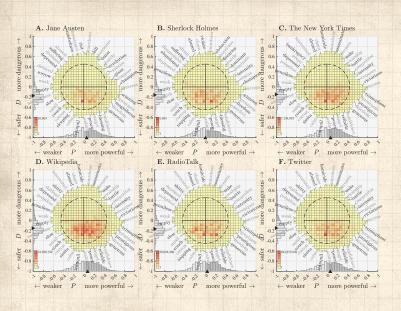
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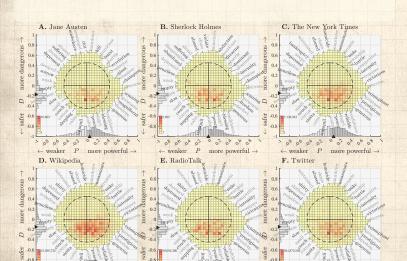


squander

A special thing has happened:



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



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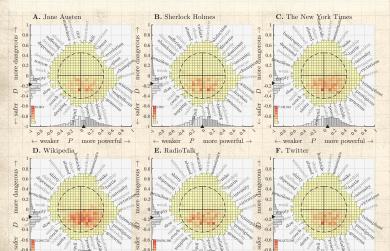
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A special thing has happened:

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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Dimension name:

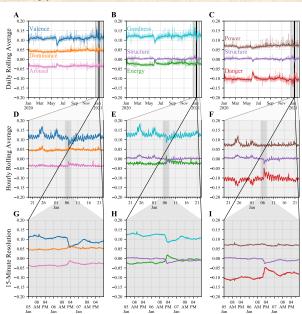
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Prototype ousiometer—Twitter:



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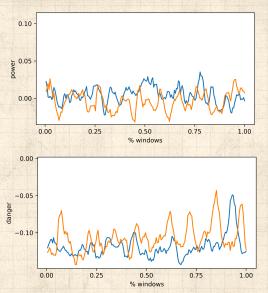
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Prototype ousiometer—Harry Potter:



Blue: Harry Potter and the Half-Blood Prince Orange: Harry Potter and the Deathly Hallows The PoCSverse Meaning 52 of 76

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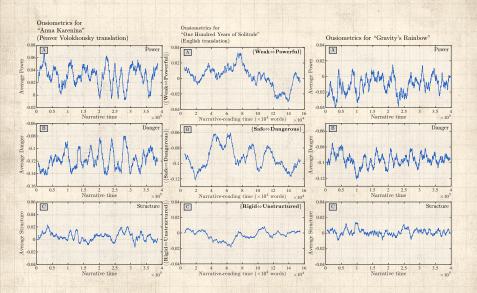
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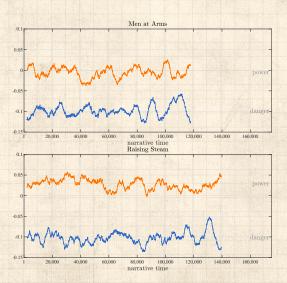
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Power and Danger time series for books:



Prototype ousiometer—Terry Pratchett's Discworld:



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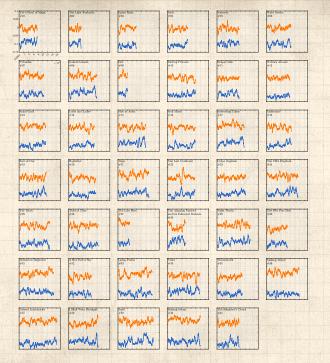
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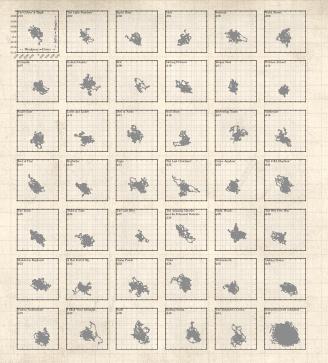
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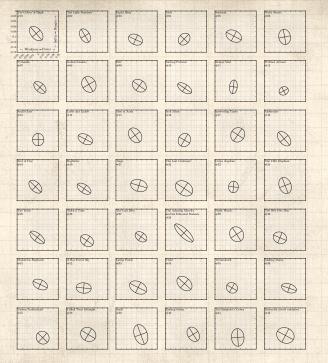
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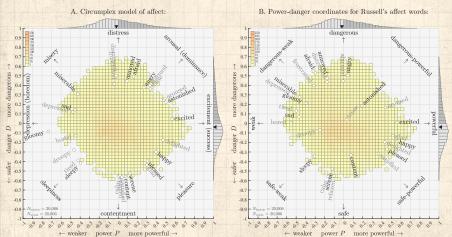
References

Referei





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



Dungeons & Dragons—Two alignment axes for character:



{lawful ⇔ chaotic} (vertical) and {good ⇔ evil} (horizontal).

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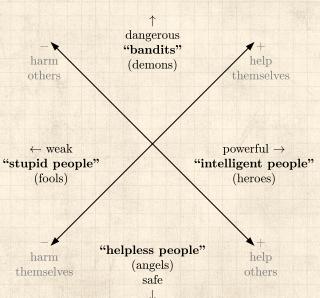
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¹From this Reddit thread ☑, where, naturally, the choices are enthusiastically debated.

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

Aligns with rotated version of Cipolla's Basic Laws of Human Stupidity:



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Nutshellingly:

- Power-danger-structure framework emerges in distinct settings, fitting types and tokens.
- Safety bias of communication refines Pollyanna Principle of positivity
- A Happiness (a mislead) = Power + Safety
- Emotions map onto powerful-safe and danger axes.
- & Life: Power-danger compass for survival
- Complement to information theory which is meaning-free. [?, ?]
- Ousiometer can be improved and refined.
- Danger permeates stories (more than conflict)
- Contagion possibility: Measure spread and competition of stories through ousiometric distillation

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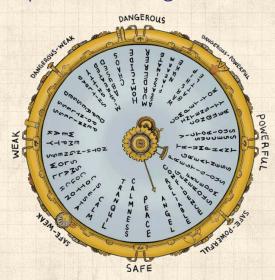
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The Compass of Meaning:



Online appendices: Paper(s), flipbooks, code, ... https://storylab.w3.uvm.edu/ousiometrics

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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. [?]

Dimension	<u>Scale</u>
Evaluation	Good-Bad
	Pleasant-Unpleasant
Activity	Active-Passive
v	Lively-Still
Potency	Strong-Weak
•	Tough-Tender
Stability	Rational-Emotional
	Tamed-Untamed

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Confusion and Conflation:



"Pleasure, arousal, dominance: Mehrabian and Russell revisited"

Bakker et al., Current Psychology, **33**, 405–421, 2014. [?]



Test whether EPA and VAD match.



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

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