

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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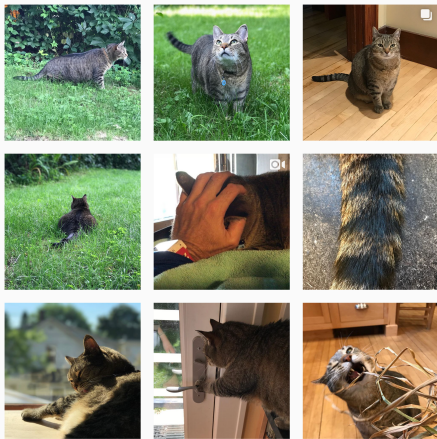
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The meaning of meaning:



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

Dodds et al.,
, 2021. [5]

What does meaning even mean?

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

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What does meaning even mean?

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

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

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This is not easy:

“Abed’s Uncontrollable Christmas”

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“Abed’s Uncontrollable Christmas”

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

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- 📦 Abed searches for the meaning of Christmas (in stop animation)
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"Introduction to Teaching"

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

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

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- 🧱 Abed Nadir: “It’s a metaphor. It represents lack of payoff.”

“Introduction to Teaching”

Abed Nadir: “I thought the meaning of people was somewhere in here. Then I looked inside Nicolas Cage and I found a secret—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. ^[22]

From the introduction:

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

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

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

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

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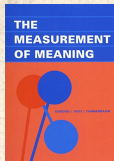
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From pings to things:



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



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

THE DIMENSIONALITY OF THE SEMANTIC SPACE 67

Table 4
CORRELATED OVERLOAD FACTORS (LOADINGS AND COMMUNITIES) (EIGENVALUES FIRST)

	I	II	III	IV	V	VI	VIII	λ		
1. pleasant-unpleasant	.08	.56	-.06	.33	-.07	-.24	.10	20	.70	.51
2. pleasant-pleasant	.24	.16	.24	.52	.29	-.11	.04	.58	.58	.21
3. neutral-natural	.22	.02	.53	.19	-.24	.08	-.07	.48	.08	.48
4. interesting-uninteresting	.07	-.05	.23	.27	-.63	.23	.10	18	.58	.24
5. beautiful-ugly	.26	.56	.00	.22	-.77	-.15	-.11	16	.48	.28
6. soft-tough	.22	.14	.36	.20	.33	.24	.18	13	.63	.44
7. low-high	.25	.42	.36	.07	.76	.25	.07	12	.60	.55
8. powerful-weak	.13	-.40	.32	-.03	-.70	.46	.00	12	.50	.58
9. new-old-fashioned	.25	.40	.20	.21	.11	.16	.02	11	.70	.31
10. modern-traditional	.16	.41	.27	.23	.10	-.20	.06	11	.47	.47
11. literary	.43	-.26	.29	.66	-.11	-.06	.07	10	.64	.43
12. good-bad	.30	.20	.16	-.16	-.11	-.11	.16	10	.50	.50
13. old-fashioned	.50	-.46	-.18	.14	.14	-.07	.04	9	.68	.63
14. clean-dirty	.39	.17	.48	-.13	.23	.23	.22	9	.67	.46
15. slow-fast	.28	.13	-.08	-.24	.21	.29	.36	8	.66	.36
17. strong-weak	.41	.36	.06	.13	.37	-.27	.01	8	1.16	.57
18. improved	.13	-.01	.03	.29	.26	.27	.02	8	1.14	.53
19. clean-dirty	.53	.31	.22	-.30	-.30	-.32	.03	7	1.02	.37
20. safe-dangerous	.40	.23	.42	.12	.05	-.04	.13	7	.87	.37
21. fair-unfair	.42	-.27	-.28	-.11	.06	-.06	-.02	6	.86	.36
22. important-trivial	.24	-.46	-.02	-.33	.05	-.05	-.04	6	1.06	.62
23. good-bad	.30	.26	.05	.26	.38	.32	.25	6	.68	.39
24. kind-unkind	.45	.14	.11	.26	.11	.19	.09	6	.94	.34
25. selfish	.21	.28	.28	.02	-.07	-.07	.13	5	.55	.35
26. narrow-broad	.45	-.39	-.16	-.11	-.03	.04	.22	5	.82	.11
27. ready	.36	-.13	.11	.31	.13	.08	.14	5	.84	.34
28. safe-dangerous	.24	.42	-.11	.32	-.07	.08	.41	5	1.02	.43
29. new-old-fashioned	.21	.42	.40	.20	.28	.29	.01	5	.81	.36
30. past-present	.33	-.01	.04	-.25	.19	-.09	.10	5	1.05	.09
31. literary	.01	.38	.19	.11	-.11	-.11	-.07	4	.81	.41
32. dark-bright	.35	-.36	-.15	.14	.14	-.02	-.27	4	1.16	.34
33. energetic	.20	.21	.05	.02	.29	.30	.00	4	.86	.34
34. low-high	.21	.04	-.43	.30	-.27	.30	-.38	4	.81	.41
35. calm-stimulating	.24	-.43	.46	-.28	.29	.00	.06	4	.84	.34
36. soft-tough	.29	.14	.23	.05	.39	.30	-.15	4	1.17	.30
37. beautiful-ugly	.41	.17	.39	.22	.05	-.17	.21	4	.80	.30
38. new-old-fashioned	.40	-.16	.06	-.20	-.11	-.20	.26	4	1.17	.41
39. interesting-uninteresting	.24	.28	-.24	-.31	.71	.03	.13	4	.77	.41
40. wide-narrow	.36	-.07	.42	.06	.13	-.30	.28	4	.55	.39
41. happy-sad	.12	.24	-.11	.11	.01	.20	.16	4	.57	.37
42. fast-slow	.28	.34	-.49	.26	-.02	.03	.14	4	.54	.33
43. well-known	.28	.23	.42	.16	.16	.02	.08	4	.87	.47
44. modern-traditional	.41	-.13	-.17	.10	.03	.04	-.11	4	.69	.28
45. slow-fast	.27	-.21	.16	.18	.13	.11	.18	4	.69	.48
47. happy-sad	.36	-.24	.19	.12	-.02	-.02	-.12	3	.52	.32
48. happy-sad	.14	.23	.17	-.28	-.28	-.11	.12	3	.69	.49
49. strong-weak	.47	-.03	-.28	.11	.07	.35	.16	3	1.16	.16
50. modern-traditional	.46	-.24	.11	.07	.09	-.10	-.11	3	.88	.18

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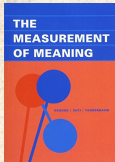
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"The Measurement of Meaning" by Osgood, Suci, and Tannenbaum (1957). ^[14]



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



Evaluation: {bad ⇔ good}

Table 4
CORRELATED CENTROID FACTOR LOADINGS AND COMMUNITIES (ROUNDER FIRST)

	I	II	III	IV	V	VI	VIII	IX	
1. pleasant-unpleasant	.08	.35	-.05	.33	-.07	-.24	.12	-.20	.25
2. pleasant-pleasant	.24	.16	.24	.52	.20	-.11	.04	.35	.21
3. meaningful	.22	.02	-.53	.19	-.24	-.05	-.07	.45	.24
4. interesting	.17	-.05	.23	.27	-.65	.23	.10	-.18	.58
5. beautiful	.26	.06	.02	-.22	-.27	-.15	-.15	-.16	.48
6. worthwhile	.22	.14	.35	.20	.33	.24	.18	.03	.44
7. low-high	.22	-.01	.26	.07	.26	-.15	.17	-.04	.55
8. good-bad	.13	-.40	.32	-.03	-.26	.45	.02	-.33	.58
9. new-old	.25	-.01	.26	.21	.15	.12	.07	-.21	.31
10. old-new	.16	.41	-.27	.23	.17	-.25	.06	.11	.47
11. literary	.43	-.25	.28	-.06	-.13	-.06	.07	.04	.43
12. modern	.30	.20	.16	-.16	-.14	-.11	.10	-.16	.50
13. old-fashioned	.40	-.46	-.18	.04	-.02	.04	.08	.63	.82
14. new-style	.35	.17	.45	-.13	.23	.28	-.25	-.07	.40
15. simple	.28	.13	-.28	-.24	.21	.23	-.01	.26	.35
16. sophisticated	.41	.35	.06	.13	-.17	-.07	.01	-.16	.07
17. simple-sophisticated	.22	-.01	.02	-.19	-.25	.07	-.14	.43	.52
18. old-timey	.33	.31	.22	-.33	-.20	-.32	.03	.02	.37
19. up-to-date	.40	.21	.42	.02	.12	.05	-.04	.13	.37
20. old-fashioned	.42	-.07	-.28	-.11	.06	-.02	.04	.26	.50
21. new-style	.23	-.40	.02	-.33	.25	-.03	-.06	-.46	.62
22. old-fashioned	.30	.25	.02	.25	.38	.02	-.25	.68	.39
23. new-style	.43	.14	.11	.26	-.13	.19	.09	.04	.24
24. old-fashioned	.21	.28	.28	.02	-.07	-.07	.13	.35	.35
25. new-style	.42	-.28	-.02	-.11	-.02	.04	.02	.22	.11
26. old-fashioned	.29	.42	-.11	.32	-.07	.06	.41	.13	.43
27. new-style	.21	.31	.42	-.01	.24	-.28	.41	.13	.43
28. old-fashioned	.31	-.01	.24	-.25	.18	-.09	.12	.09	.05
29. new-style	.01	.08	.19	.11	-.11	-.14	-.07	.41	.41
30. old-fashioned	.35	-.36	-.13	.14	.14	-.02	-.07	-.10	.24
31. new-style	.22	.21	.45	.02	.23	-.09	-.09	.16	.84
32. old-fashioned	.21	.04	-.43	-.20	-.27	.20	-.38	-.13	.41
33. new-style	.20	.44	.40	-.28	.23	-.07	.09	.06	.14
34. old-fashioned	.29	.14	.23	.05	-.28	-.20	-.15	.17	.30
35. new-style	.41	.17	.39	-.22	.05	-.17	.23	.06	.26
36. old-fashioned	.40	-.16	.06	-.20	-.11	-.20	-.26	.17	.41
37. new-style	.24	.28	-.24	-.17	.03	.03	.13	.17	.27
38. old-fashioned	.35	-.07	.42	-.06	.13	-.30	.38	.25	.39
39. new-style	.12	.24	-.11	-.11	.05	-.06	.16	.17	.27
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45. new-style	.14	.25	.17	-.28	-.28	-.14	.12	.09	.09
46. old-fashioned	.47	-.03	-.28	.11	.07	.25	.16	.19	.16
47. new-style	.46	-.24	.11	.07	-.05	-.10	-.10	-.10	.26

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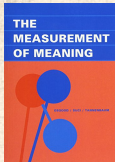
Characters
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Osgood et al. used semantic differentials  and factor analysis to identify a basis of three variables for meaning-space:



Evaluation: {bad ⇔ good}



Potency: {weak ⇔ strong}

Table 4
UNSCALED CENTROID FACTOR LOADINGS AND COMMUNITIES (SQUARED MULTIPLE R)

	I	II	III	IV	V	VI	VIII	IX	
1. pleasant-unpleasant	.08	.86	-.00	.33	-.07	-.24	.10	-.20	.25
2. pleasant-pleasant	.24	.16	.24	.52	.20	-.11	.04	.86	.21
3. meaningful	.22	.82	-.33	.79	-.24	-.08	.07	.48	.58
4. interesting	.07	-.05	.23	.27	-.65	.24	.10	.18	.58
5. beautiful	.38	.86	.00	.72	-.75	-.15	-.18	.16	.54
6. worthwhile	.22	.14	.36	.20	.33	.24	.14	.03	.44
7. low-high	.22	.81	.26	.77	.76	-.15	.16	.08	.65
8. powerful-weak	.13	-.60	.32	-.03	-.26	.46	.60	-.20	.58
9. knowledge	.22	.81	.26	.77	.76	-.15	.16	.08	.65
10. technical	.16	.41	-.27	.23	.07	-.29	.06	.11	.47
11. literary	.43	-.26	.28	-.06	-.13	-.06	.07	.04	.43
12. scientific	.30	.20	.16	-.16	-.14	-.11	.16	-.16	.30
13. religious	.40	-.46	-.18	.04	-.07	.68	.68	.63	.81
14. knowledge	.38	.17	.46	-.13	.23	.28	-.25	-.27	.40
15. knowledge	.28	.13	-.28	-.24	.21	.29	-.30	.26	.31
17. meaningful	.41	.30	.06	.13	.37	-.27	.31	-.16	.27
18. important	.22	-.01	.02	.03	.20	-.22	.03	.02	.27
19. scientific	.33	.31	.22	-.33	-.30	-.32	.03	.02	.37
20. scientific	.40	.21	.42	.02	.12	.05	-.04	.13	.37
21. scientific	.42	-.27	-.28	-.11	.36	-.06	-.02	.04	.36
22. important	.24	-.40	-.40	-.33	-.26	-.25	-.08	-.04	.62
23. interesting	.30	.20	-.05	.20	.38	.02	-.23	.68	.39
24. knowledge	.43	.14	.11	.21	.06	-.13	.19	.09	.24
25. technical	.21	.28	.28	.82	-.07	-.07	.13	.35	.35
26. meaningful	.42	-.26	-.16	-.11	.03	.04	.22	.21	.11
27. scientific	.30	-.13	.11	.24	.13	.08	-.14	.24	.36
28. interesting	.24	.42	-.11	.32	-.07	.06	.47	.13	.43
29. meaningful	.21	.42	-.41	.20	-.24	.20	.20	.20	.20
30. interesting	.31	-.04	-.24	.78	-.09	.10	.12	.09	.61
31. interesting	.01	.08	.09	.11	.11	-.11	.14	.07	.41
32. dark-bright	.35	-.36	-.15	.14	.14	-.82	-.87	-.10	.24
33. interesting	.21	.21	.45	.62	.23	-.20	-.20	.18	.84
34. low-high	.21	.04	-.43	.20	-.27	.20	-.28	-.13	.41
35. interesting	.24	.43	.46	.28	.79	.07	.06	.14	.24
36. interesting	.29	.14	.22	.05	.28	.30	-.15	.17	.30
37. interesting	.14	.17	.39	.22	.05	-.17	.21	.20	.24
38. technical	.40	-.16	-.04	-.15	-.20	-.26	.17	.41	.41
39. interesting	.21	.28	-.24	-.17	.21	.21	.03	.13	.27
40. interesting	.38	-.07	.42	.06	.13	-.30	.38	.25	.39
41. interesting	.12	.24	-.11	.11	.01	-.20	.16	.17	.27
42. interesting	.25	.24	-.49	.26	-.02	.20	.14	.14	.23
43. interesting	.28	.29	.42	.16	.04	.82	.68	.17	.47
44. interesting	.41	-.11	-.17	.10	.04	.84	-.11	-.03	.29
45. interesting	.27	-.11	-.16	.16	.11	.11	.19	.49	.49
47. interesting	.36	-.24	.19	.12	-.02	-.82	-.07	-.12	.32
48. interesting	.14	.25	.17	-.28	-.28	-.14	.12	.09	.09
49. interesting	.47	-.04	-.28	.11	.07	.32	.16	.19	.16
50. interesting	.46	-.24	.11	.07	.09	-.10	.18	.18	.08

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Table 4
UNSCALED CENTROID FACTOR LOADINGS AND COMMUNITIES (EIGENVALUES IN PARENTHESES)

	I	II	III	IV	V	VI	VII	VIII	IX
1. pleasant-unpleasant	.08	.36	-.00	.33	-.07	-.24	.10	-.20	.20
2. pleasant-pleasant	.24	.16	.24	.52	.20	-.11	.04	.36	.21
3. meaningful	.22	.02	.33	.70	-.21	-.04	.07	.48	.14
4. interesting	.07	-.05	.23	.27	-.65	.24	.10	.18	.58
5. beautiful	.38	.36	.00	.72	-.27	-.15	-.15	-.14	.24
6. worthwhile	.22	.14	.36	.20	.33	.24	.14	.03	.44
7. low-high	.22	.01	.28	.07	.26	-.15	.16	.07	.50
8. powerful-weak	.13	-.40	.32	-.03	-.26	.46	.00	-.30	.58
9. important	.22	.01	.28	.21	.16	.02	.17	.21	.31
10. useful	.16	.41	-.27	.23	.07	-.29	.06	.11	.47
11. literary	.43	-.28	.28	-.06	-.13	-.06	.07	.04	.43
12. peaceful	.30	.20	.16	-.16	-.14	-.11	.10	-.16	.50
13. old-fashion	.40	-.46	-.18	.04	-.07	.68	.08	.63	.40
14. new	.35	.17	.46	-.13	.23	-.25	.22	-.07	.40
15. slow-fast	.28	.13	.28	-.24	.21	-.29	-.06	.26	.36
16. interesting	.41	.30	.06	.13	.37	-.07	.01	-.16	.07
17. meaningful	.18	-.01	.02	.33	-.20	.27	.14	.43	.21
18. slow-fast	.33	.31	.22	-.33	-.30	-.32	.03	.02	.37
19. fast-slow	.40	.21	.42	.02	.10	.05	-.04	.13	.37
20. old-fashioned	.42	-.07	-.28	-.11	.06	-.06	.02	.04	.30
21. old-fashioned	.24	-.40	-.03	-.30	-.25	-.04	-.06	-.02	.52
22. old-fashioned	.30	.20	.05	.20	.30	.02	-.25	.00	.39
23. fast-slow	.43	.14	.21	.26	-.13	.19	.09	.04	.24
24. old-fashioned	.21	.28	.02	.07	.07	-.13	.35	.35	.25
25. meaningful	.45	-.28	-.01	-.11	-.03	.04	.02	.22	.11
26. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
27. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
28. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
29. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
30. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
31. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
32. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
33. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
34. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
35. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
36. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
37. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
38. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
39. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
40. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
41. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
42. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
43. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
44. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
45. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
46. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
47. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
48. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
49. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43
50. old-fashioned	.29	.42	-.18	.32	-.07	.08	.47	.13	.43

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

Table 4
UNSCALED CENTROID FACTOR LOADINGS AND COMMUNITIES (ROUNDER FIRST)

	I	II	III	IV	V	VI	VIII	IX	
1. pleasant-unpleasant	.08	-.35	-.05	.33	-.07	-.24	.12	-.20	.25
2. pleasant-pleasant	.24	.16	.24	.52	.20	-.11	.04	-.26	.21
3. smooth-rough	-.22	-.02	-.33	-.19	-.24	-.05	-.07	.18	.24
4. interesting-uninteresting	.07	-.05	.23	.27	-.65	.23	.10	.18	.24
5. beautiful-ugly	-.26	-.06	.22	-.25	-.25	-.15	-.15	-.15	.24
6. softness-hardness	.22	.14	.36	.20	.33	.24	.18	.03	.44
7. low-high	-.22	-.02	-.26	.07	.26	-.25	-.17	-.04	.25
8. powerful-weak	.13	-.40	.22	-.02	-.26	.46	.02	-.30	.58
9. important-unimportant	-.22	-.02	.26	.21	.16	.22	.17	.04	.21
10. serious	.16	.41	-.27	.23	.07	-.26	.06	.11	.47
11. lively	.43	-.26	.28	-.06	-.13	-.06	.07	.04	.43
12. peaceful	.30	.20	.16	-.16	-.16	-.11	.19	-.16	.30
13. soft-hard	.30	-.46	-.18	.04	.04	-.07	.04	.04	.30
14. slow-fast	.35	.17	.46	-.13	.23	-.25	.22	-.07	.40
15. slow-fast	.26	.13	.46	-.24	.21	-.29	.26	-.06	.26
16. softness-hardness	.41	.36	.06	.13	-.37	-.27	.31	-.16	.27
17. strong-weak	.13	-.01	.02	.33	-.20	-.32	.03	.02	.37
18. slow-fast	.33	.31	.22	-.33	-.33	-.32	.03	.02	.37
19. softness-hardness	.40	.21	.42	.02	.12	-.05	-.04	.13	.37
20. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
21. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
22. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
23. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
24. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
25. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
26. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
27. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
28. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
29. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
30. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
31. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
32. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
33. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
34. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
35. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
36. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
37. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
38. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
39. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
40. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
41. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
42. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
43. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
44. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
45. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
46. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
47. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
48. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
49. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36
50. fast-slow	.42	-.27	-.28	-.11	.36	-.26	-.02	.04	.36

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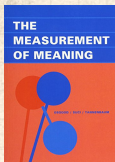
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100s of students, 10s of things, 50 semantic differentials



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Table 4
CORRELATED CENTROID FACTOR LOADINGS AND COMMUNITIES (EIGENVALUES IN PARENTHESES)

	I	II	III	IV	V	VI	VIII	IX	
1. pleasant-unpleasant	.08	-.35	-.05	.33	-.07	-.24	.12	-.20	.25
2. pleasant-pleasant	.24	.16	.24	.52	.20	-.11	.04	-.26	.21
3. successful-unsuccessful	-.22	-.02	-.33	.19	-.24	-.15	-.07	.18	.24
4. interesting-uninteresting	.07	-.05	.23	.27	-.65	.23	.10	.13	.24
5. beautiful-ugly	-.26	-.06	.22	-.25	-.25	-.15	-.11	-.14	.24
6. softness-hardness	.22	.14	.36	.20	.33	.24	.14	.03	.44
7. low-high	-.22	-.01	-.26	.07	.26	-.25	-.17	-.04	.25
8. powerful-weak	.13	-.40	.32	-.03	-.26	-.46	.40	-.20	.58
9. masculine-feminine	-.22	-.01	-.26	.07	.26	-.25	-.17	-.04	.25
11. literary	.10	.41	-.27	.23	.07	-.26	.06	.11	.47
12. technical	.43	-.25	.28	-.06	-.11	-.06	.07	.04	.43
13. medical	.30	.20	.16	-.16	-.11	-.11	.10	-.16	.30
15. heading-unheading	.30	-.46	-.18	.14	.04	-.02	.04	.04	.30
16. solid-hollow	.35	.17	-.45	-.13	.23	-.25	-.22	-.07	.40
17. slow-fast	.26	.33	.28	-.24	.21	-.29	-.06	.26	.26
18. strong-weak	.41	.30	.06	.13	-.37	-.47	.31	-.16	.27
19. expansion-contraction	.13	-.01	-.02	.03	-.26	-.27	.14	.42	.13
20. slow-fast	.33	.31	.22	-.33	-.30	-.32	.03	.02	.37
21. soft-hard	.40	.21	.42	.02	.12	-.05	-.04	.11	.37
21. solid-hollow	.42	-.07	-.28	-.11	.36	-.06	-.02	.04	.36
22. empty-full	.24	-.45	-.02	-.33	-.26	-.25	-.04	-.04	.24
23. flatting-unflatting	.30	.20	-.05	.20	.30	.02	-.23	.40	.30
24. hard-soft	.43	.14	.14	.21	.36	-.11	.19	.09	.44
25. white-black	.21	.26	-.28	.02	-.07	-.07	.13	.35	.25
26. heavy-light	.42	-.26	-.11	-.21	.13	.04	.02	.22	.41
27. ready	.35	-.13	.11	.24	.13	.08	-.14	.24	.35
28. safe-dangerous	.24	-.42	-.11	.32	-.07	.46	.47	.13	.43
29. masculine-feminine	.21	.41	.42	-.24	.21	-.29	-.06	.26	.21
30. past-present	.31	-.01	-.24	.25	.18	-.09	.02	.12	.31
31. literary	.40	-.08	.19	.11	-.11	-.14	-.07	.41	.40
32. dark-light	.35	-.36	-.13	.14	.14	-.42	-.47	-.10	.34
33. energetic	.25	.21	.45	.02	-.23	-.20	-.00	.18	.25
34. low-high	.21	.04	-.43	-.20	-.27	.20	-.38	-.11	.41
35. soft-hard	.24	-.43	-.40	-.28	.29	.20	.06	.14	.24
36. solid-hollow	.29	.14	.22	.05	.28	-.20	-.15	.17	.30
37. solid-hollow	.41	.17	.40	.04	.09	-.17	.17	.21	.41
38. soft-hard	.40	-.14	-.20	-.11	-.20	-.20	-.17	.41	.40
39. soft-hard	.42	.18	-.24	-.01	.40	.40	.13	.27	.42
40. soft-hard	.38	-.07	.42	.06	.13	-.30	-.38	.25	.38
41. soft-hard	.38	-.07	.42	.06	.13	-.30	-.38	.25	.38
42. soft-hard	.38	-.07	.42	.06	.13	-.30	-.38	.25	.38
43. soft-hard	.38	-.07	.42	.06	.13	-.30	-.38	.25	.38
44. soft-hard	.38	-.07	.42	.06	.13	-.30	-.38	.25	.38
45. soft-hard	.38	-.07	.42	.06	.13	-.30	-.38	.25	.38
46. soft-hard	.38	-.07	.42	.06	.13	-.30	-.38	.25	.38
47. soft-hard	.38	-.07	.42	.06	.13	-.30	-.38	.25	.38
48. soft-hard	.38	-.07	.42	.06	.13	-.30	-.38	.25	.38
49. soft-hard	.38	-.07	.42	.06	.13	-.30	-.38	.25	.38
50. soft-hard	.38	-.07	.42	.06	.13	-.30	-.38	.25	.38

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

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

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Definitions:



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

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

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Definitions:

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

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-  Telegnomics: The distant sensing of knowledge (~ distant reading [13])

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Essential dimensions captured by emotion:



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

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 Potency ~ Dominance

 Activity ~ Arousal

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

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

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

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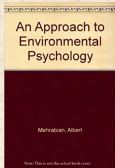
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“An Approach to Environmental Psychology.”

by Mehrabian and Russell (1974). [8]



“The basic emotional impact of environments”

Mehrabian and Russell,
Perceptual and motor skills, **38**, 283–301,
1974. [9]

“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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Major problems with measuring essential meaning:

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

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Major problems with measuring essential meaning:

1. **Scale:** Originally 10s and 100s of words → now 10,000s + online rating.
2. **The focus on types alone and not tokens:**
Missing the forest for the book of tree species.

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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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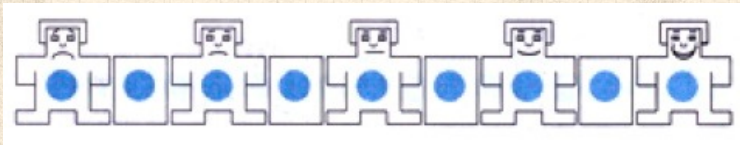
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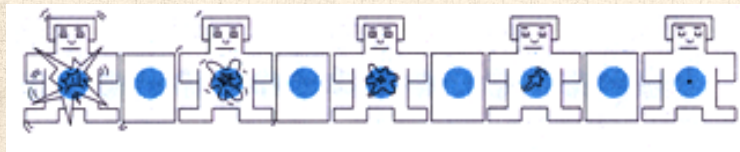
dangerous
murderer
murder
assassinate
killer
aggression
plissed
cruifixion
lurid
outburst
squander
clapnet
cruic
stouard
murderer
assassinate
car
bi
mi
mi

1999 ANEW study—three 1–9 scales: [4]

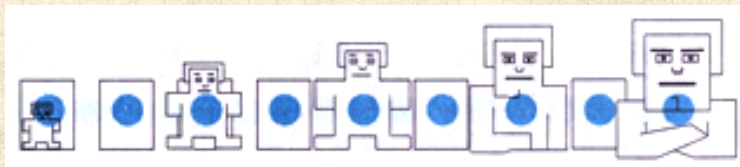
valence:



arousal:



dominance:



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ANEW study: Valence ~ Happiness:

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

 Participants were further told:

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

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dangerous
murder
murderer
kill
aggression
pissed
crucifixion
lurid
outburst
sunder
chaps
extric
stomach
assassinate
earthquake
mi...
pissed
lurid
sunder

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

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We now know that ANEW is a no-no:

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

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

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Remeasuring meaning:

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

Saif M. Mohammad,
Proceedings of The Annual Conference of
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Moving beyond Likert scales:



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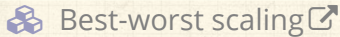
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Moving beyond Likert scales:



Best-worst scaling ↗

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Moving beyond Likert scales:

 Best-worst scaling ↗

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

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Moving beyond Likert scales:

 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.

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Moving beyond Likert scales:

🧱 Best-worst scaling ↗

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

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

🧱 Choosing best and worst gives 5 orderings:

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

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

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

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NRC VAD Lexicon ^[11]

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

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

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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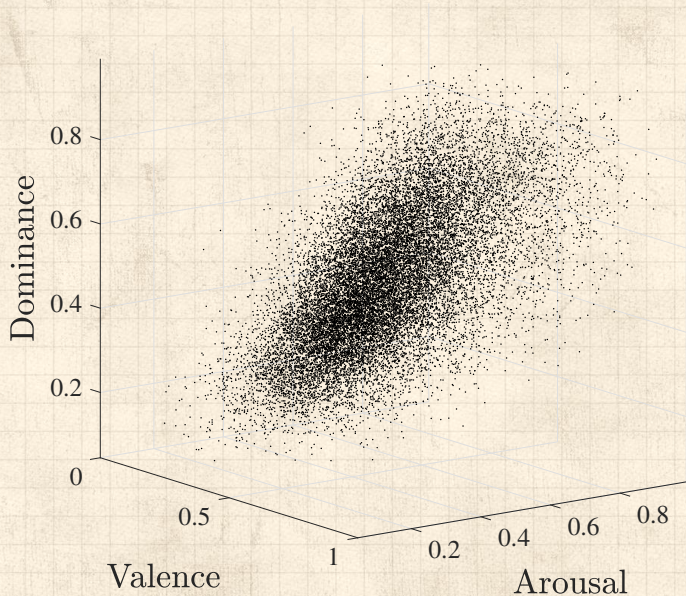
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The Delicious English Muffin of Meaning:¹



¹Apricot jam, always.

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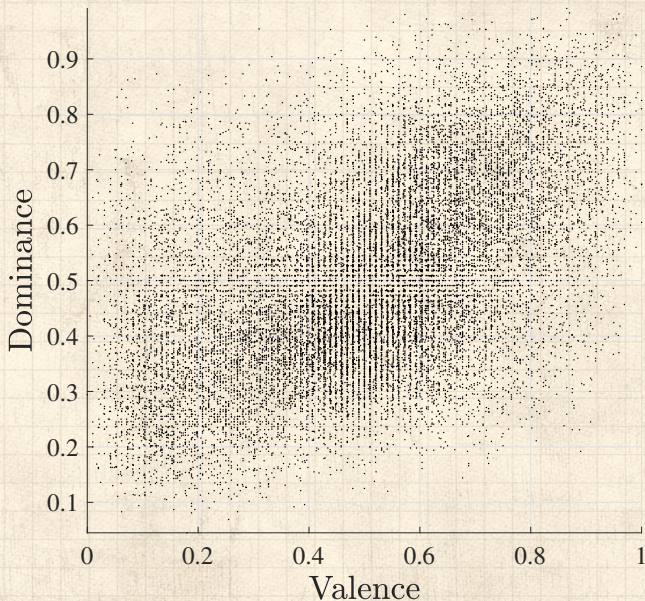
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$$R(D, V) \simeq 0.488$$



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Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

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Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

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

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Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

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

 Apply SVD.

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Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

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

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Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

-  VAD: 44.4%, 28.0%, and 27.6%.
-  Apply SVD.
-  Singular values: $\sigma_1 \simeq 34.1$, $\sigma_2 \simeq 27.2$, and $\sigma_3 \simeq 13.8$,
-  For what will be Goodness-Energy-Structure (GES): 55.6%, 35.3%, and 9.1%

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Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

- 🧱 VAD: 44.4%, 28.0%, and 27.6%.
- 🧱 Apply SVD.
- 🧱 Singular values: $\sigma_1 \simeq 34.1$, $\sigma_2 \simeq 27.2$, and $\sigma_3 \simeq 13.8$,
- 🧱 For what will be Goodness-Energy-Structure (GES): 55.6%, 35.3%, and 9.1%
- 🧱 Rotate in G-E plane by $\pi/4$ for what will be Power-Danger-Structure (PDS) 45.5%, 45.5%, 9.1%

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Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

- 🧱 VAD: 44.4%, 28.0%, and 27.6%.
- 🧱 Apply SVD.
- 🧱 Singular values: $\sigma_1 \simeq 34.1$, $\sigma_2 \simeq 27.2$, and $\sigma_3 \simeq 13.8$,
- 🧱 For what will be Goodness-Energy-Structure (GES): 55.6%, 35.3%, and 9.1%
- 🧱 Rotate in G-E plane by $\pi/4$ for what will be Power-Danger-Structure (PDS) 45.5%, 45.5%, 9.1%
- 🧱 Interpretability enhancements: Ousiograms.

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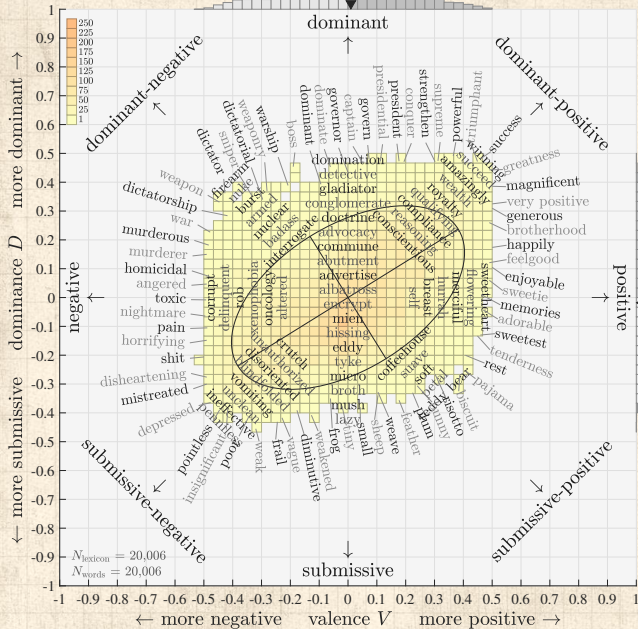
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~ valence-dominance ouosiogram for the NRC VAD lexicon ~



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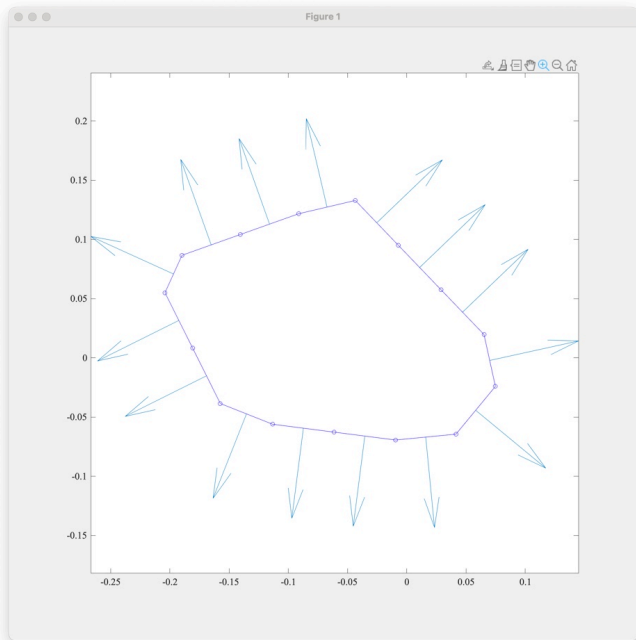
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Building ousiograms (2021/01/31):



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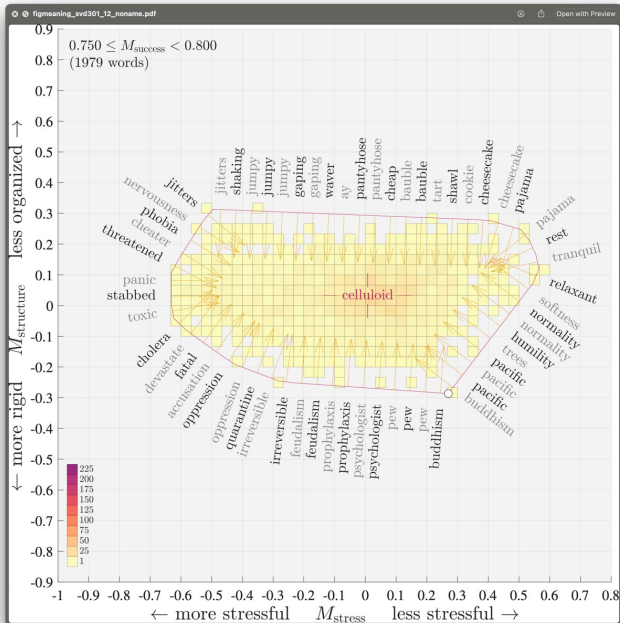
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Building ousiograms (2021/01/31):



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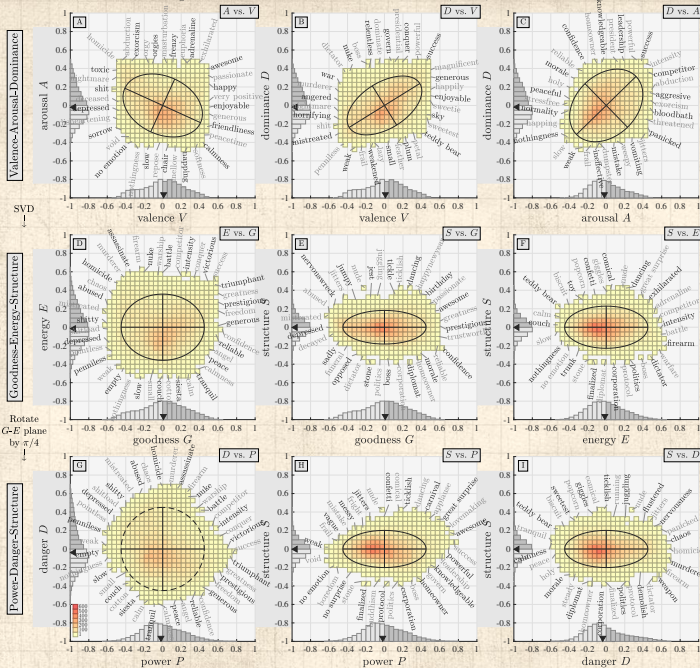
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Ousiograms for the NRC VAD lexicon in the VAD, GES, and PDS frameworks:



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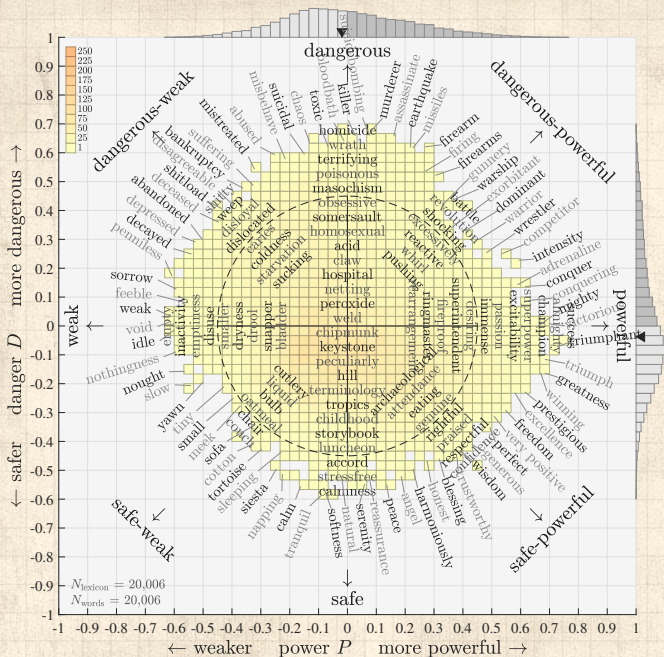
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~ power-danger ousiogram for the NRC VAD lexicon ~



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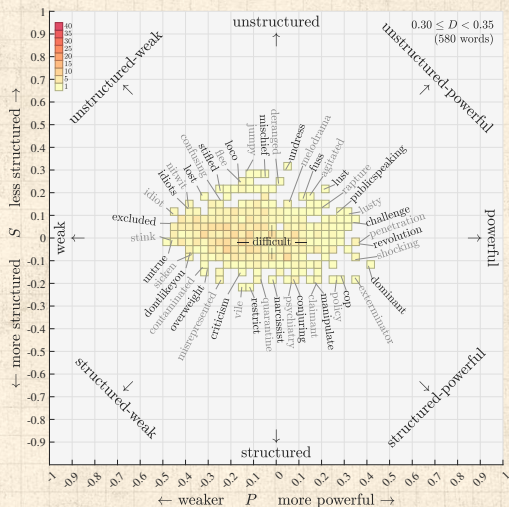
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Ousiometric slices:



Slices of Structure Flipbook 

Slices of Danger Flipbook 

Slices of Power Flipbook 

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Extremonyms: Synousionyms and Antousionyms:

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

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

Powerful to Weak axis:

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

Extremonyms: Synousionyms and Antousionyms:

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

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

Dangerous to Safe axis:

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

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Etymological, taxonomic, and nomenclatural madnasses:

 Physics: Power was once sometimes called Activity

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Etymological, taxonomic, and nomenclatural madnesses:

 Physics: Power was once sometimes called Activity

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

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Etymological, taxonomic, and nomenclatural madnesses:

 Physics: Power was once sometimes called Activity

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

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

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Etymological, taxonomic, and nomenclatural madnesses:

- 📦 Physics: Power was once sometimes called Activity
- 📦 Danger ↗ and Dominance trace back to Dominus ↗
(~ lord/ruler/person of power)
- 📦 Framing words for EPA, VAD, etc., matter greatly.

Other descriptors that don't hold up:

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Etymological, taxonomic, and nomenclatural madnesses:

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- 🧱 Danger ↗ and Dominance trace back to Dominus ↗
(~ lord/ruler/person of power)
- 🧱 Framing words for EPA, VAD, etc., matter greatly.

Other descriptors that don't hold up:

- 🧱 Success-Stress-Structure.

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Etymological, taxonomic, and nomenclatural madnesses:

- 🧱 Physics: Power was once sometimes called Activity
- 🧱 Danger ↗ and Dominance trace back to Dominus ↗
(~ lord/ruler/person of power)
- 🧱 Framing words for EPA, VAD, etc., matter greatly.

Other descriptors that don't hold up:

- 🧱 Success-Stress-Structure.
- 🧱 Energy/Flourishing/Thriving-Threat

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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

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Etymological, taxonomic, and nomenclatural madnesses:

- 🧱 Physics: Power was once sometimes called Activity
- 🧱 Danger ↗ and Dominance trace back to Dominus ↗
(~ lord/ruler/person of power)
- 🧱 Framing words for EPA, VAD, etc., matter greatly.

Other descriptors that don't hold up:

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

After much staring at the ceiling:

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Etymological, taxonomic, and nomenclatural madnasses:

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

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- 🧱 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-Energy-Structure (GES) (still fails)
- 🧱 Power-Danger-Structure (PDS) (succeeds)

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Connections between meaning dimensions:

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

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

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

From types to tokens: ^[7]

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

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From types to tokens: [7]

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

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From types to tokens: [7]

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From types to tokens: [7]

- Analysis so far is for a lexicon of types: Each word counts once.
- Must consider how words are used in real texts by frequency: Tokens.
- Rebuild ousiograms with usage frequency incorporated.
- A set of distinct corpora:
 - English fiction from Google Books (120 years). [10, 15]
 - Jane Austen's novels.
 - Sherlock Holmes stories.
 - New York Times (20 years). [19]
 - Wikipedia (2019/03). [20]
 - RadioTalk: Transcriptions of talk radio. [3]
 - Twitter through Storywrangler. [1]

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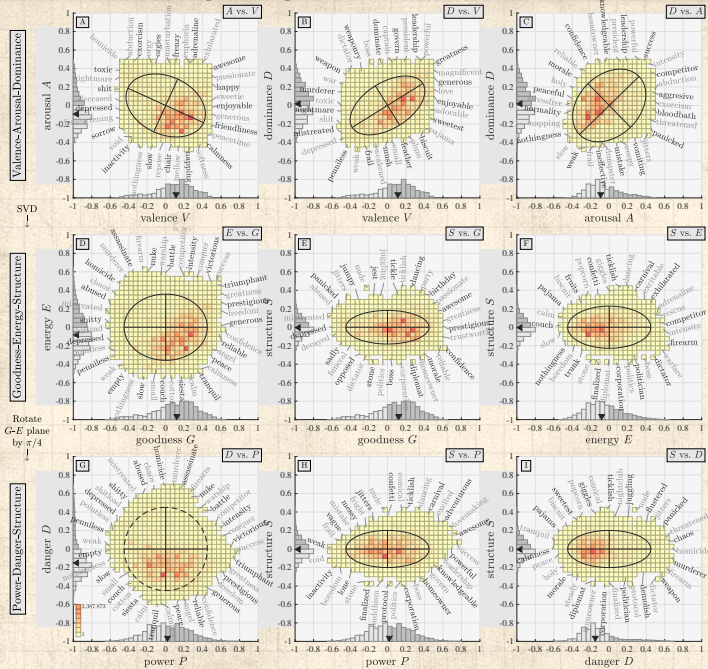
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Ousiograms for English fiction in the VAD, GES, and PDS frameworks:



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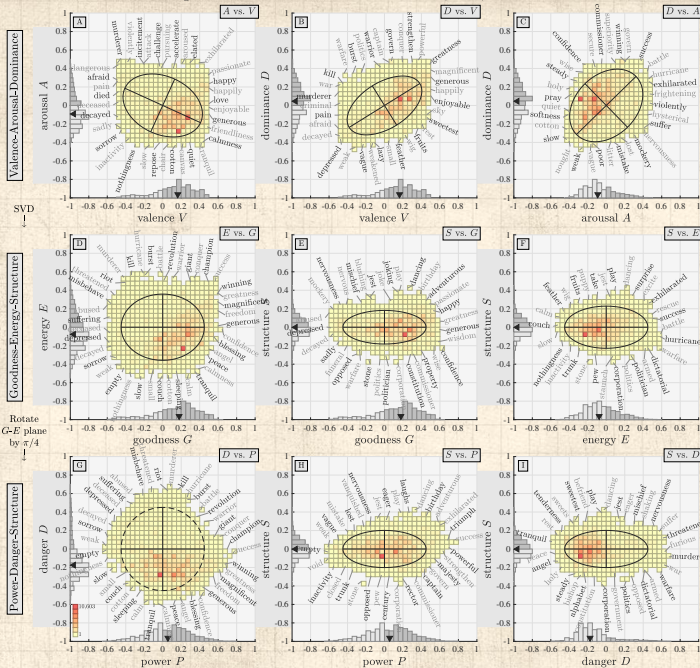
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Ousiograms for Jane Austen's novels in the VAD, GES, and PDS frameworks:



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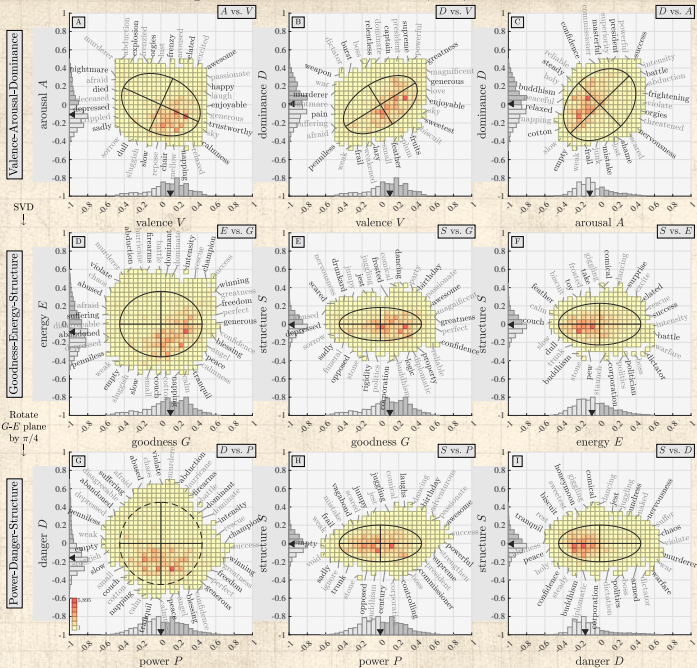
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Ousiograms for Sherlock Holmes in the VAD, GES, and PDS frameworks:



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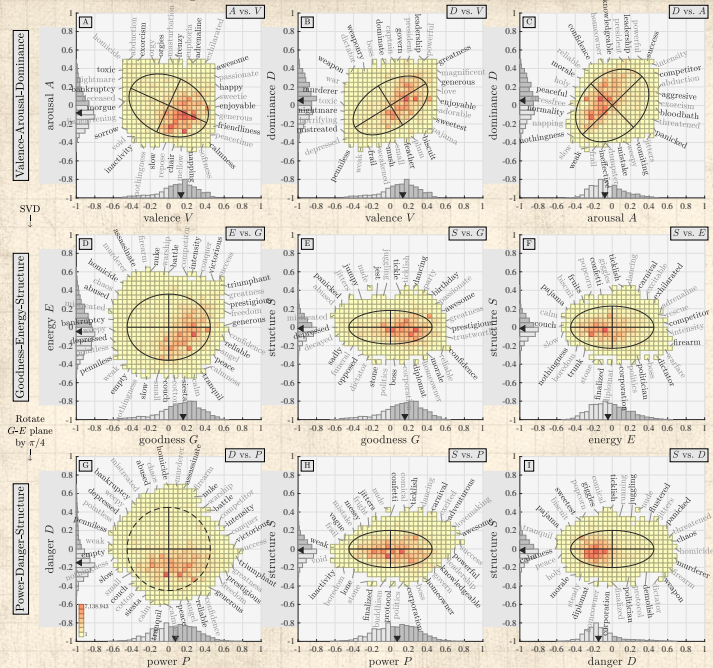
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Ousiograms for the New York Times in the VAD, GES, and PDS frameworks:



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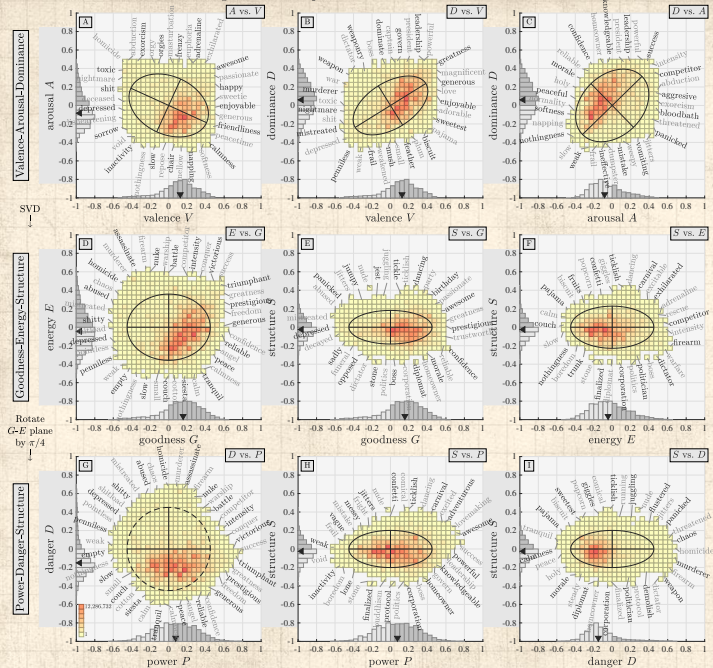
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Ousiograms for Wikipedia in the VAD, GES, and PDS frameworks:



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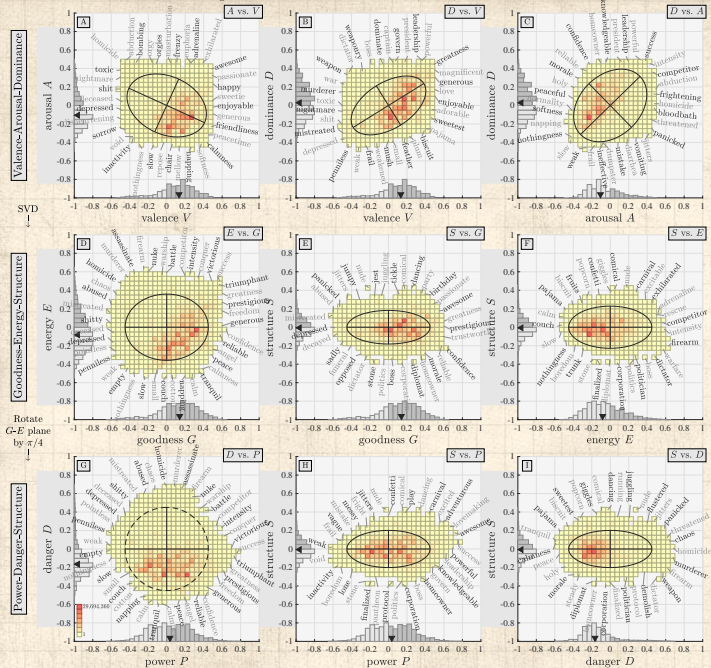
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Ousiograms for RadioTalk in the VAD, GES, and PDS frameworks:



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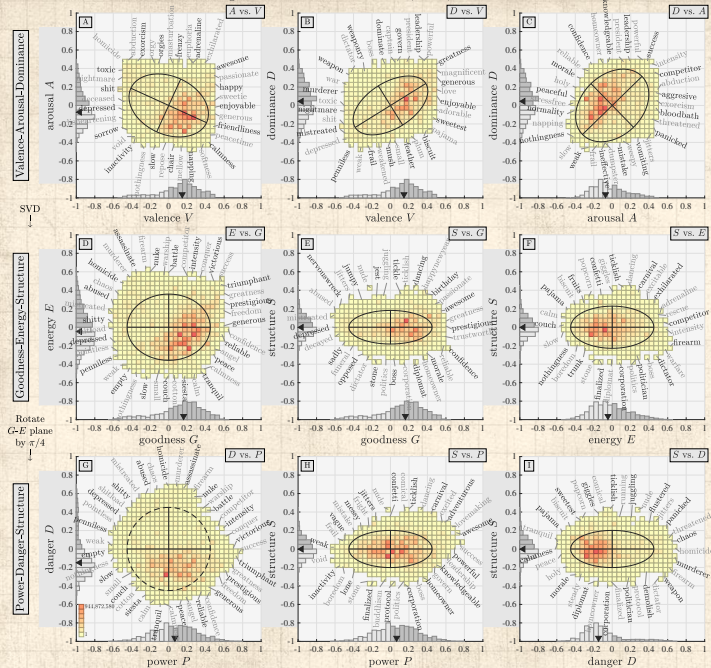
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mi
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Ousiograms for Twitter in the VAD, GES, and PDS frameworks:



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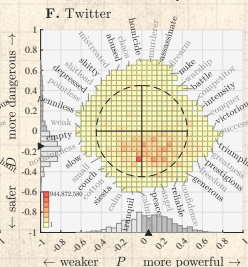
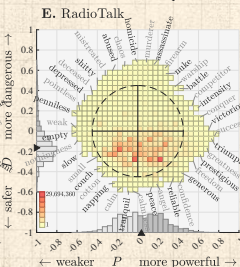
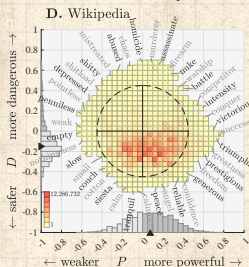
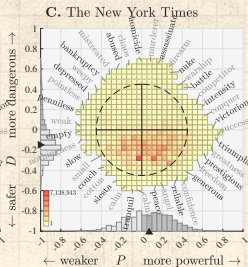
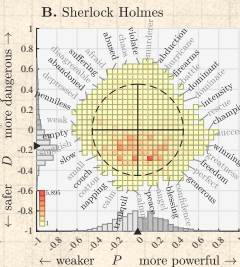
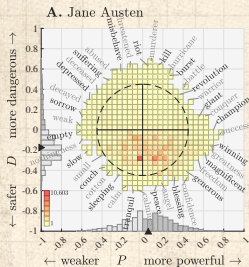
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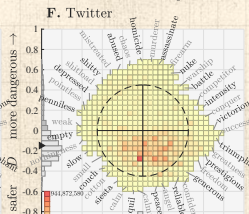
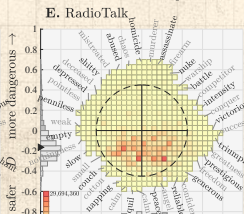
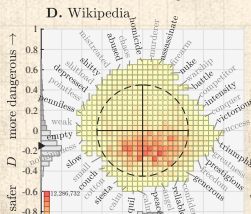
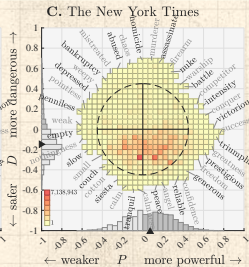
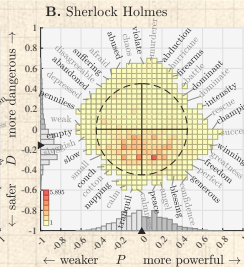
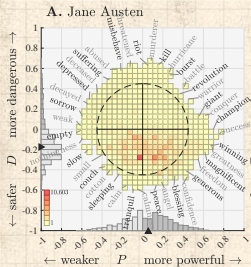
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A special thing has happened:

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



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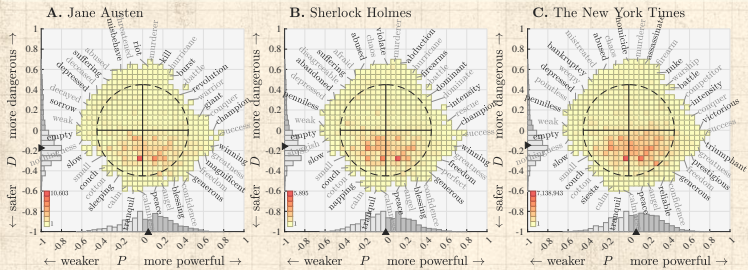
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A special thing has happened:

🧱 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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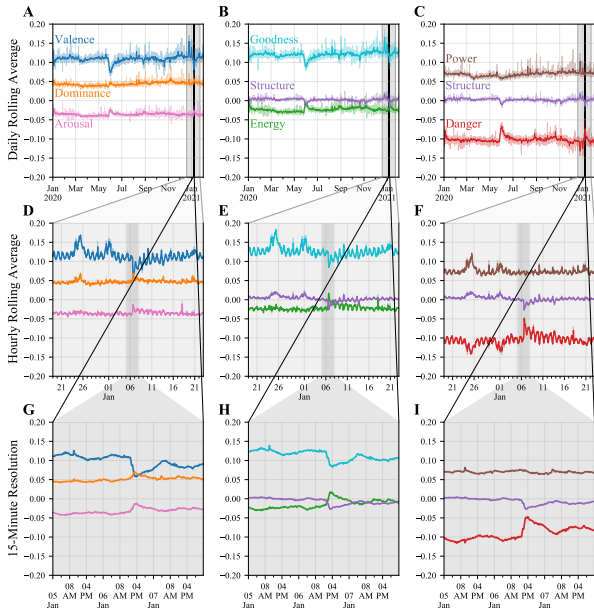
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Prototype ousiometer—Twitter:



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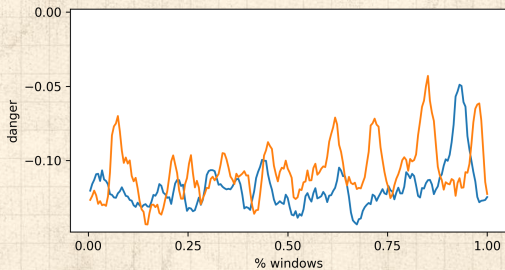
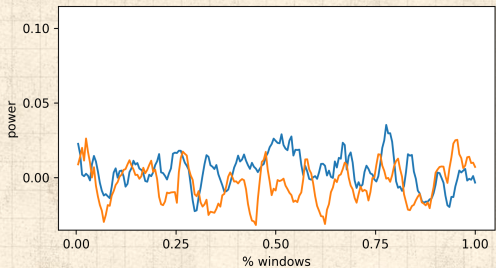
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Prototype ousiometer—Harry Potter:



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

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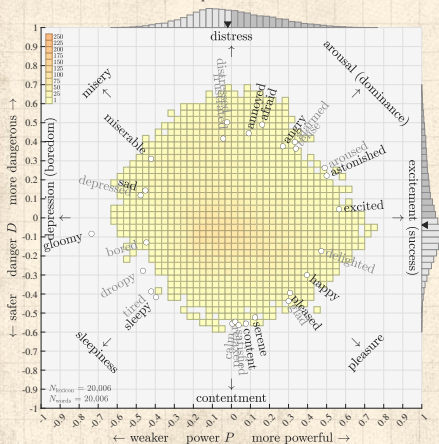
References



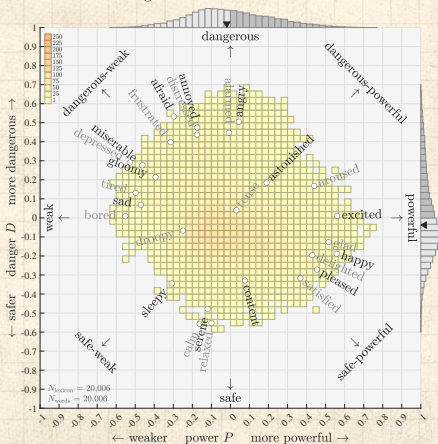


Rough agreement with Russell's circumplex model, [18] which itself doesn't disagree with a 2- d orthogonal framework.

A. Circumplex model of affect:



B. Power-danger coordinates for Russell's affect words:



Dungeons & Dragons—Two alignment axes for character:



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

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

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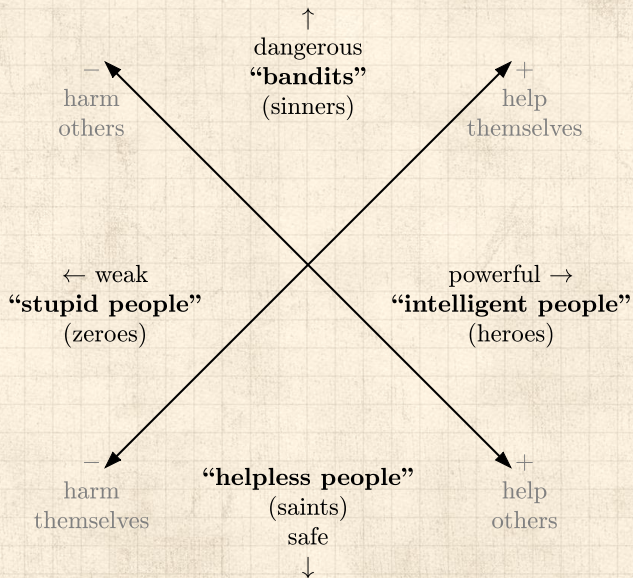
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lawful-good ~ structured- powerful-safe	neutral-good ~ neutral- powerful-safe	chaotic-good ~ unstructured- powerful-safe
lawful-neutral ~ structured- neutral	(true) neutral	chaotic-neutral ~ unstructured- neutral
lawful-evil ~ structured- dangerous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

Aligns with rotated version of [Cipolla's](#) Basic Laws of Human Stupidity:



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Who is Pratchett the Cat?



The Open-Source Psychometrics Project:
<https://openpsychometrics.org> 

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Use the slider to indicate where you fall on this spectrum:

Statistical "Which Character" Personality Quiz

This is an interactive personality quiz that will match you to fictional characters on similarity of description.

Background

When the creator of this website would tell people that he published personality quizzes, people would usually ask him if he meant that he worked at BuzzFeed on their "Which Character" personality quizzes. And he would have to explain that he did not and had never been that style of test. These quizzes are very fun, as evidenced by their extreme popularity. Meaningful, two people who get the same result on a typical example of these tests much more in common than two randomly paired individuals. So for the longest time one character match personality quiz, but I guess it was inevitable because here is a more scientific, but still silly, "Which Character Are You?" test.

This test was created by getting more than 3 million volunteers to describe themselves on different adjective based scales. This created a database of descriptive ratings are compared against these profiles and the closest match is found. This quiz works and was developed can be found [here](#). There is also a version of self-report, and a [version for couples](#).

Test Instructions

The test is made of pairs of adjectives with a slider between them. For each pair, drag the slider to where you fall on the spectrum between them. This test is self-select how many questions you want to do using the version option. The media recommended version is 185 seconds (~3 minutes).

Participation

This interactive program is provided for entertainment and informational psychological advice or a screening tool of any kind and comes without any particular purpose.

At the end of the survey you will be asked for consent to include your responses. Your agree your responses may be used and shared per [the website privacy policy](#).

[Begin assessment](#)

juvenile (50%)

mature (50%)

frugal (23%)

lavish (77%)

social (81%)

reclusive (19%)

adventurous (76%)

stick-in-the-mud (24%)

haunted (100%)

blissful (0%)

orderly (23%)

chaotic (77%)

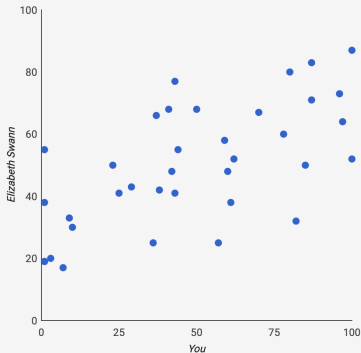
Version

The best match between the self assessment you provided and the profile of a fictional character as rated by other people who have taken this survey is the character Elizabeth Swann (Pirates of the Caribbean).



83% match

Your traits versus their traits are graphed below (click on points for labels).



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Fictional characters most like Pratchett the Cat:

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Fictional characters most like Pratchett the Cat:

1. Elizabeth Swann (Pirates of the Caribbean): 83%
2. Daenerys Targaryen (Game of Thrones): 82%
3. Margaery Tyrell (Game of Thrones): 82%
4. Francisco d'Anconia (Atlas Shrugged): 82%
5. Dr. Hannibal Lecter (Hannibal): 82%
6. Audrey Horne (Twin Peaks): 81%
7. Princess Anna Karenina (Anna Karenina): 81%
8. Danny Ocean (Ocean's 11): 81%
9. Ragnar Lothbrok (Vikings): 81%
10. Olenna Tyrell (Game of Thrones): 80%

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Fictional characters least like Pratchett the Cat:

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Fictional characters least like Pratchett the Cat:

1988. Cyril Figgis (Archer): 22%
1989. Kermit (Shameless): 22%
1990. Stu (The Hangover): 22%
1991. George Michael Bluth (Arrested Dev.): 21%
1992. Morty Smith (Rick and Morty): 21%
1993. Louis Tully (Ghostbusters): 21%
1994. Lenny (After Life): 21%
1995. Eric Forman (That 70's Show): 20%
1996. Milhouse Van Houten (The Simpsons): 19%
1997. Alan Harper (Two and Half Men): 19%
1998. Pete Hornberger (30 Rock): 19%
1999. Chip Dove (Jennifer's Body): 17%
2000. Stuart Bloom (The Big Bang Theory): 16%

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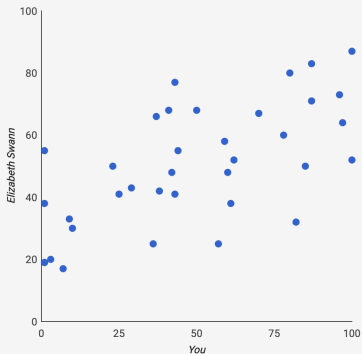


The best match between the self assessment you provided and the profile of a fictional character as rated by other people who have taken this survey is the character Elizabeth Swann (Pirates of the Caribbean).



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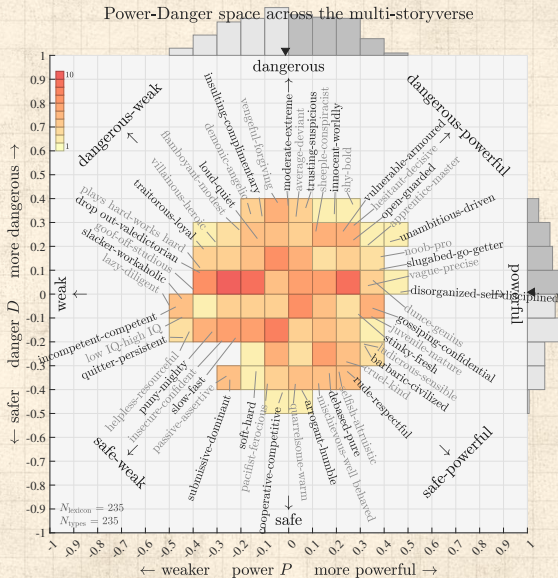
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800 characters, 200+ semantic differentials:



Source: <https://openpsychometrics.org>

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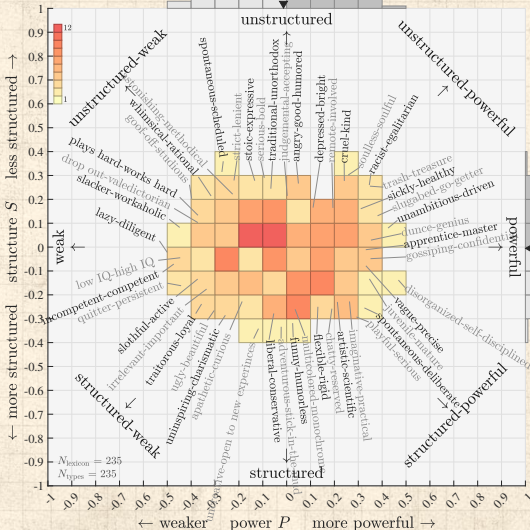
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800 characters, 200+ semantic differentials:

Power-Structure space across the multi-storyverse



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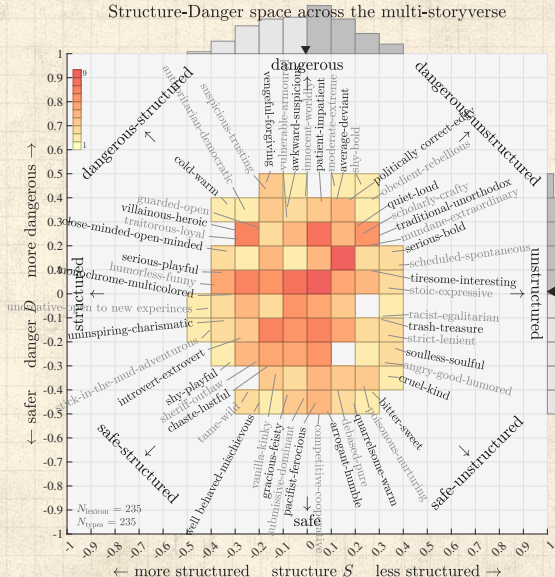
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Source: <https://openpsychometrics.org>

800 characters, 200+ semantic differentials:



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Source: <https://openpsychometrics.org>

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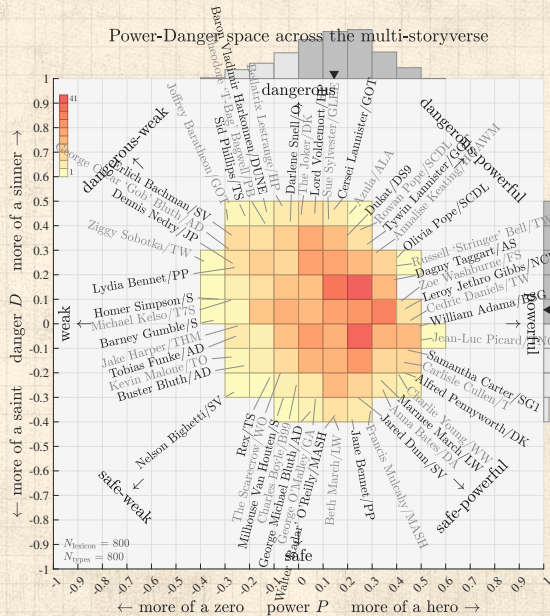
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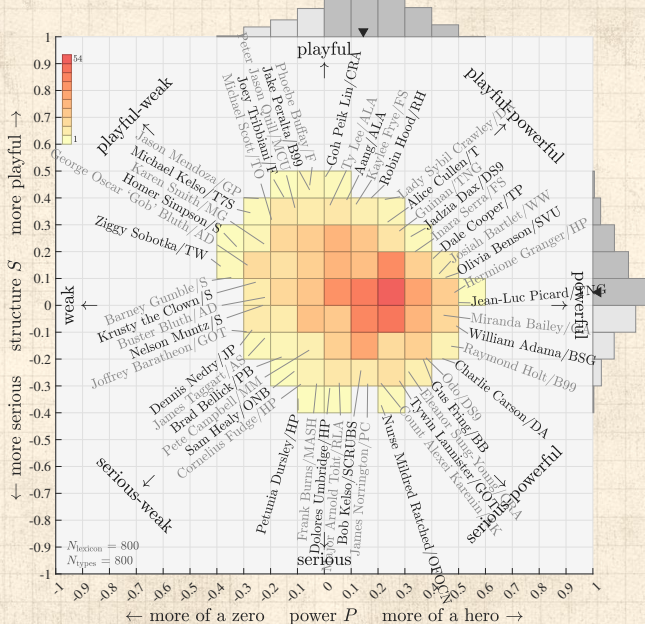
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800 characters, 200+ semantic differentials:

Power-Structure space across the multi-storyverse



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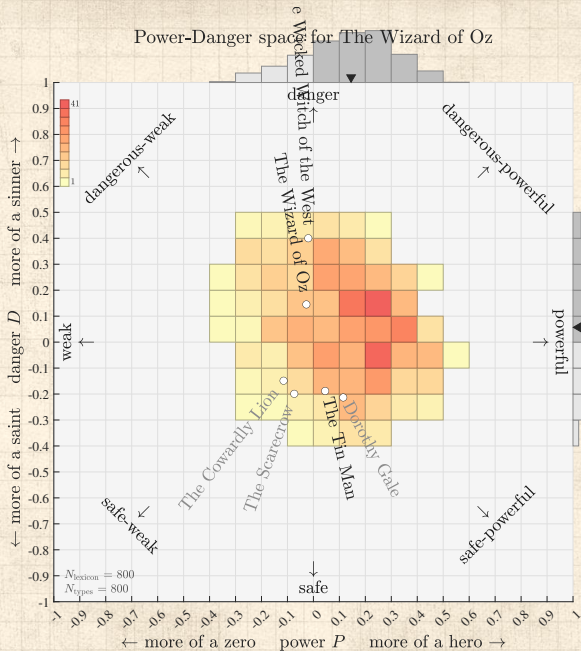
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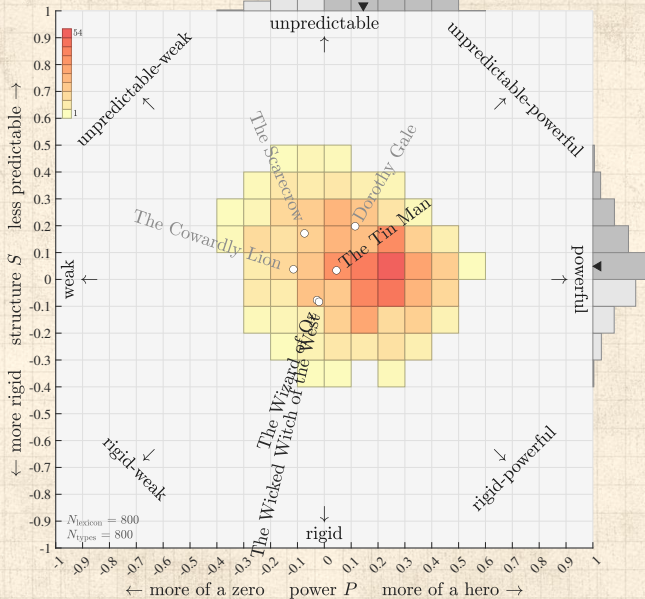




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Power-Structure space for The Wizard of Oz



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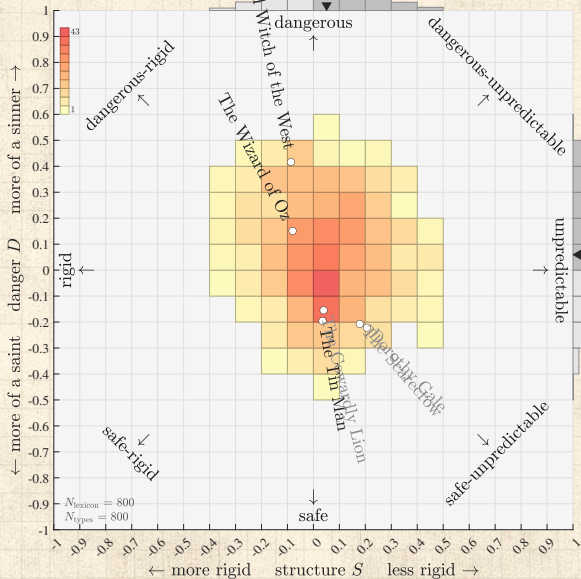
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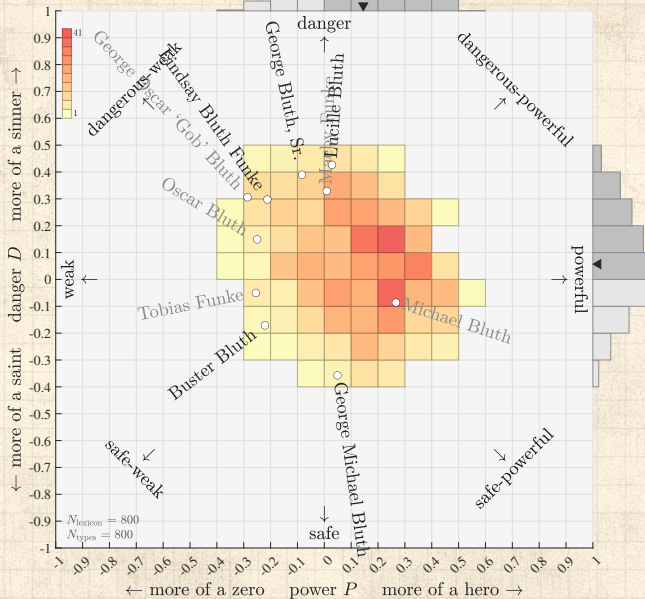




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Power-Danger space for Arrested Development



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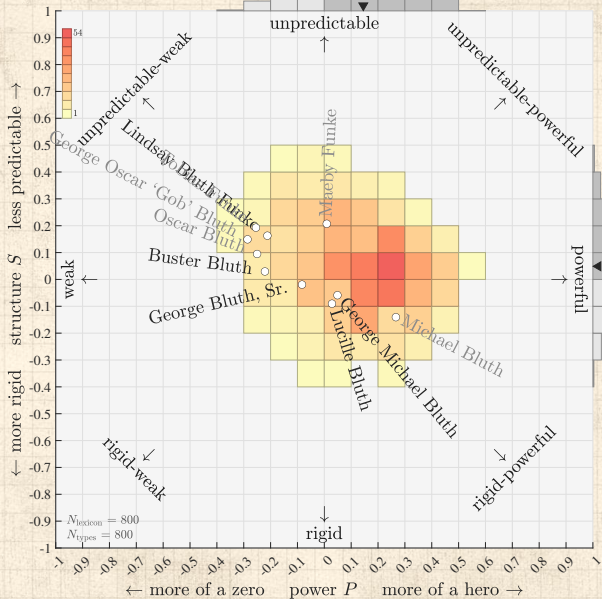
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Power-Structure space for Arrested Development



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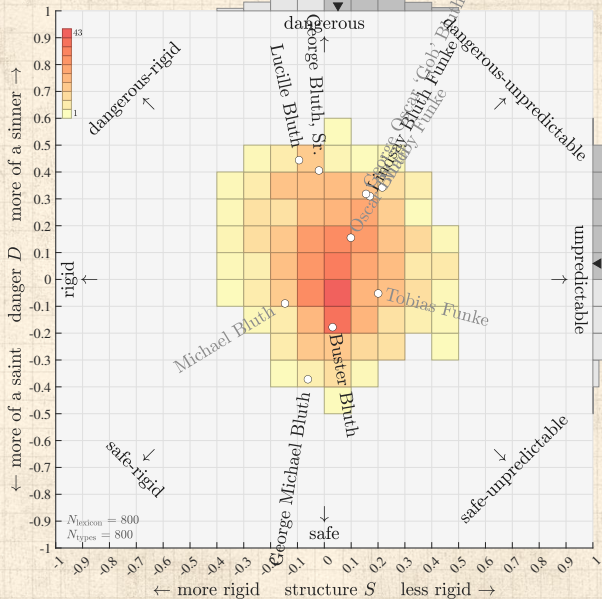
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Structure-Danger space for Arrested Development



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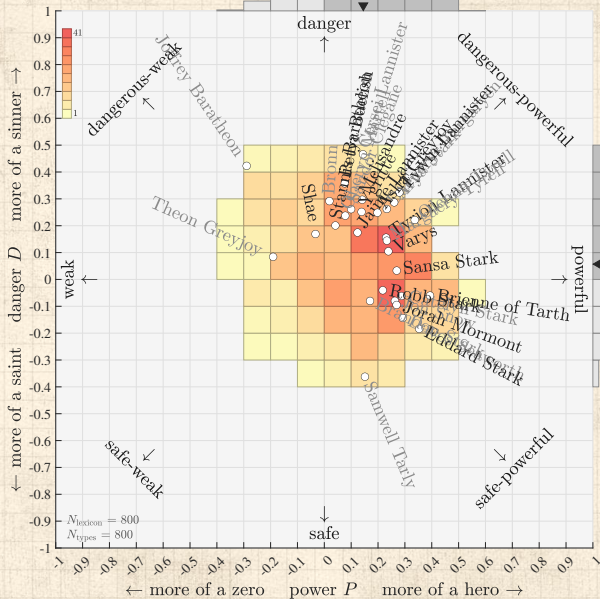
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Power-Danger space for Game of Thrones



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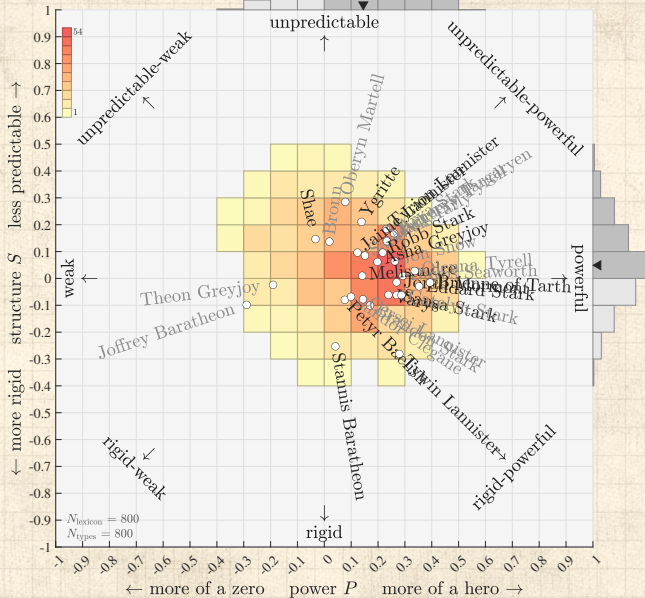
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Power-Structure space for Game of Thrones



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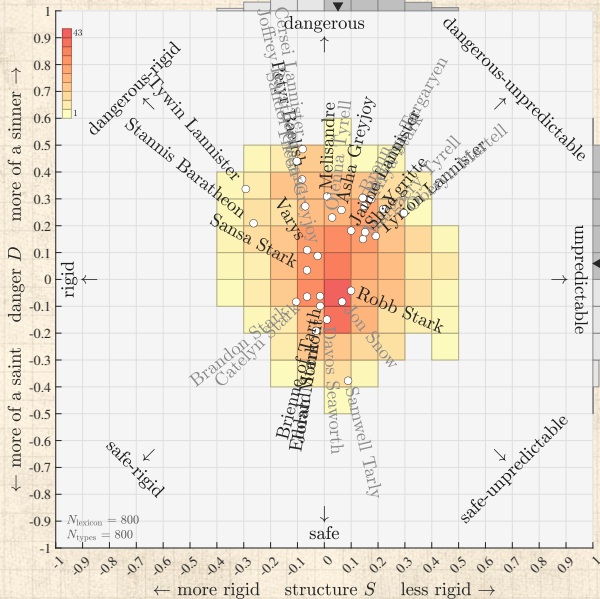
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Structure-Danger space for Game of Thrones



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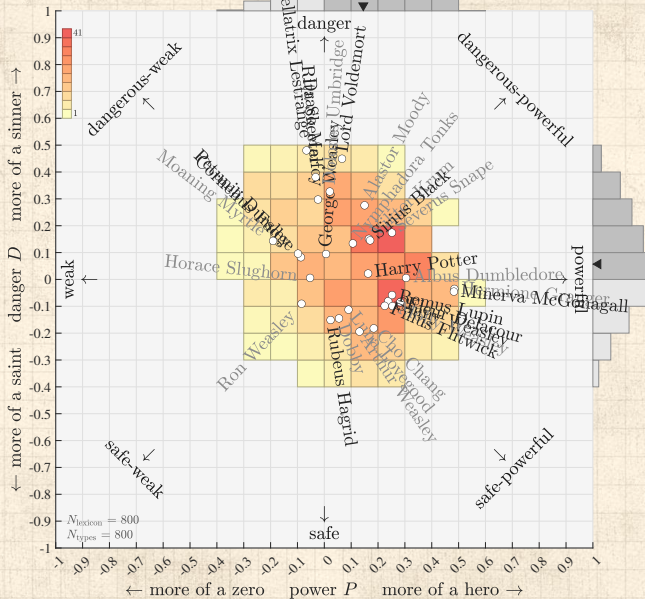
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Power-Danger space for Harry Potter



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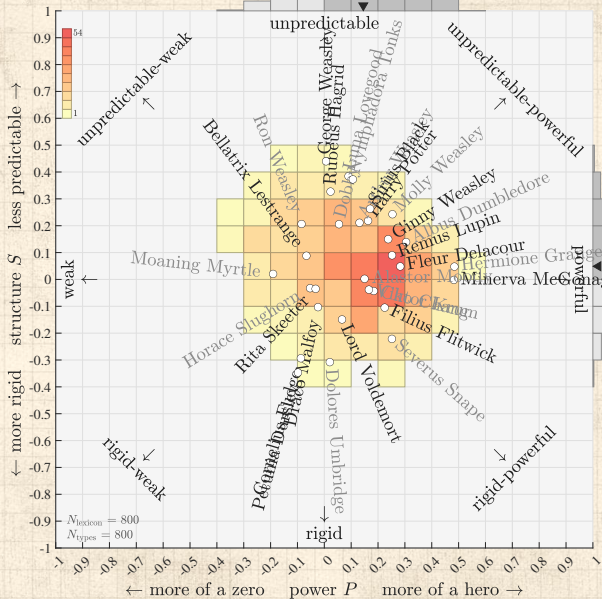
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Power-Structure space for Harry Potter



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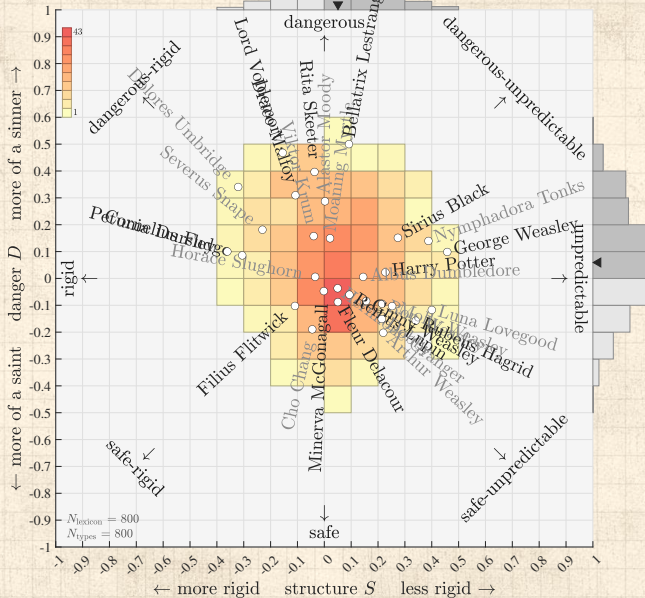
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Structure-Danger space for Harry Potter



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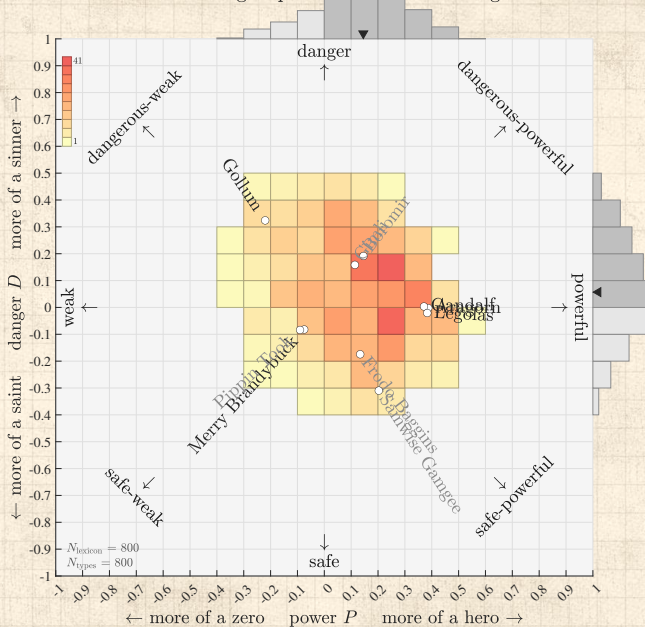
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Power-Danger space for Lord of the Rings



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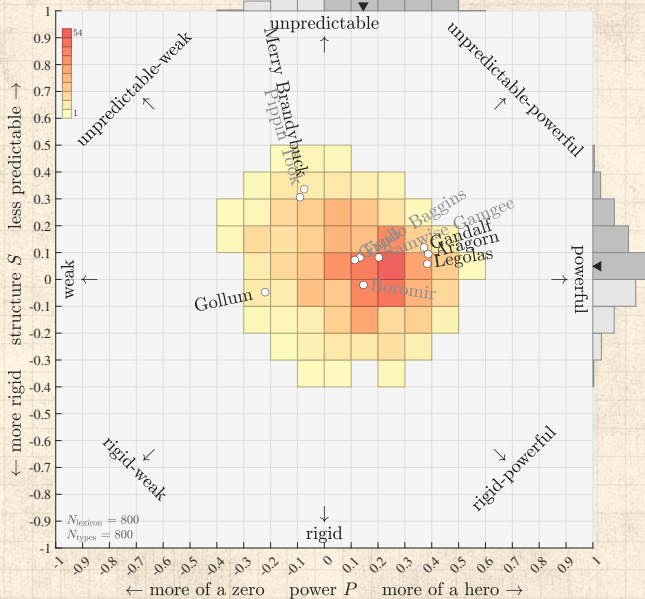
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Power-Structure space for Lord of the Rings



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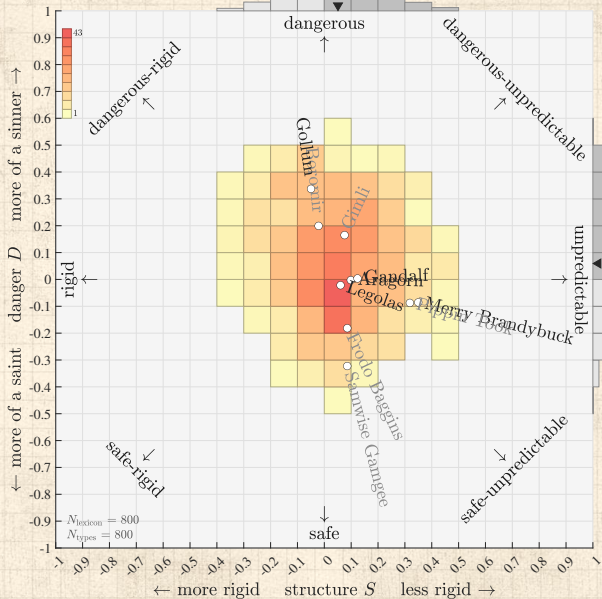
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Structure-Danger space for Lord of the Rings



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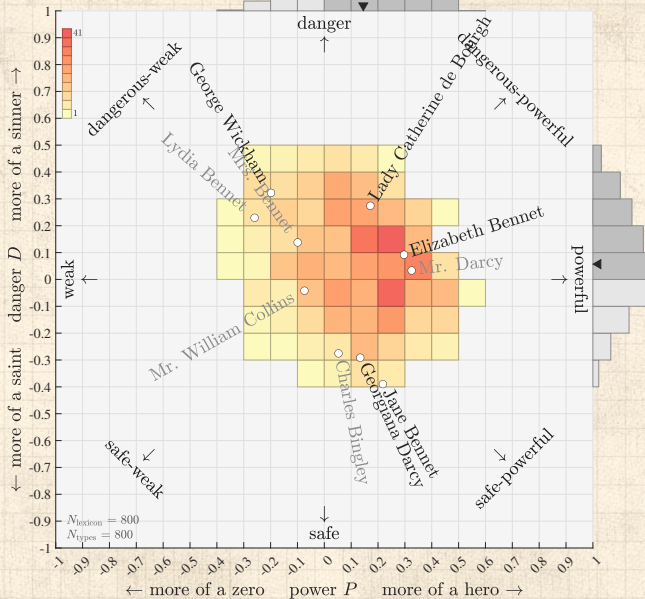
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Power-Danger space for Pride and Prejudice



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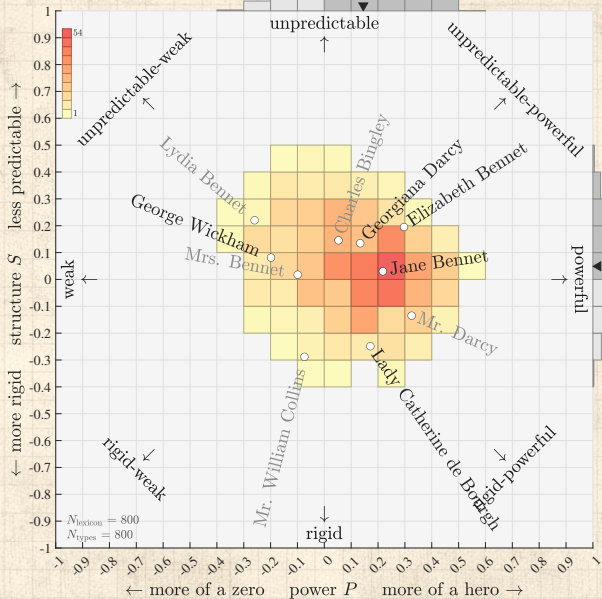
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Power-Structure space for *Pride and Prejudice*



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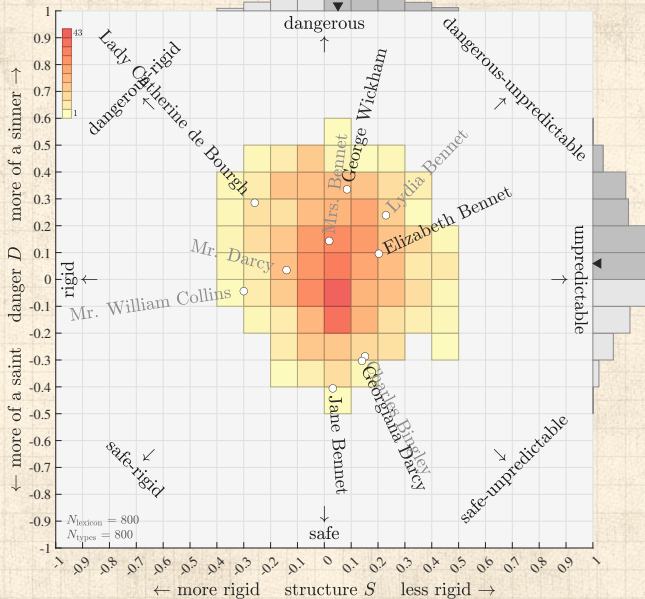
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Structure-Danger space for Pride and Prejudice



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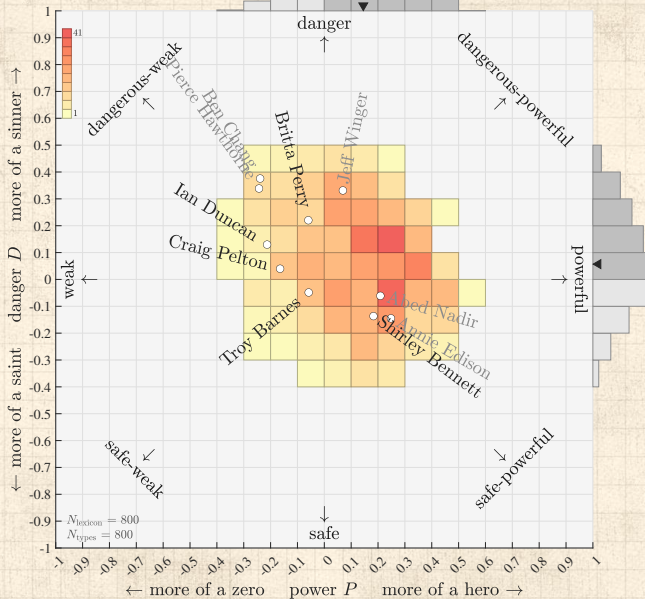
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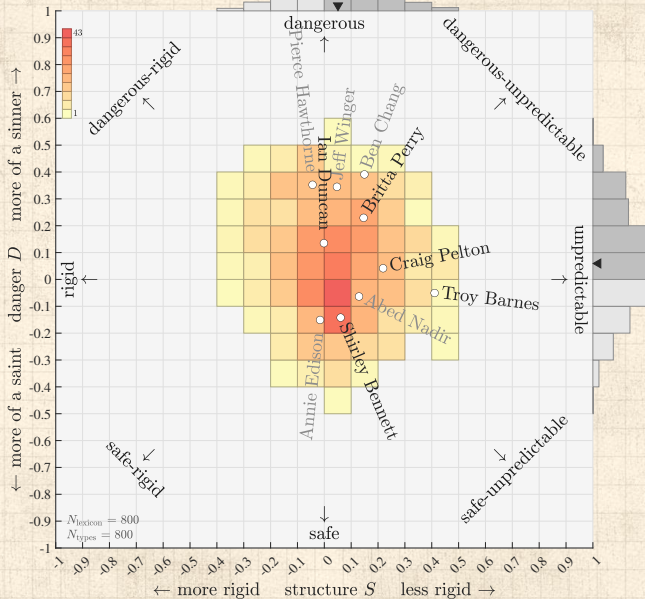
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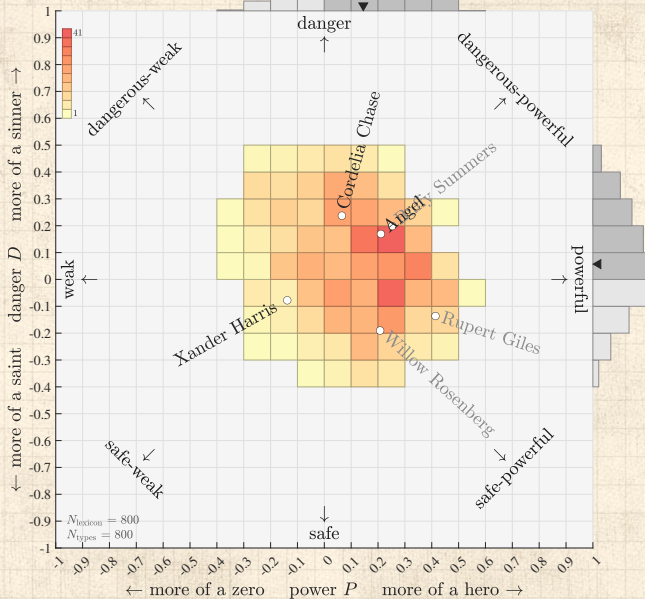
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Power-Danger space for Buffy the Vampire Slayer



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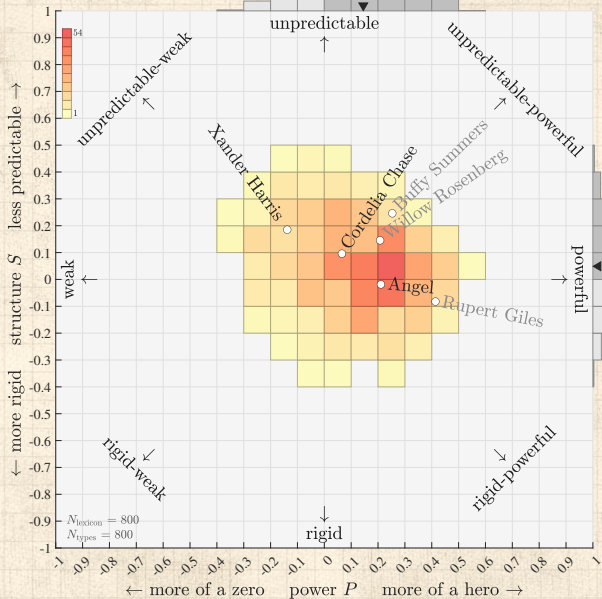
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Power-Structure space for Buffy the Vampire Slayer



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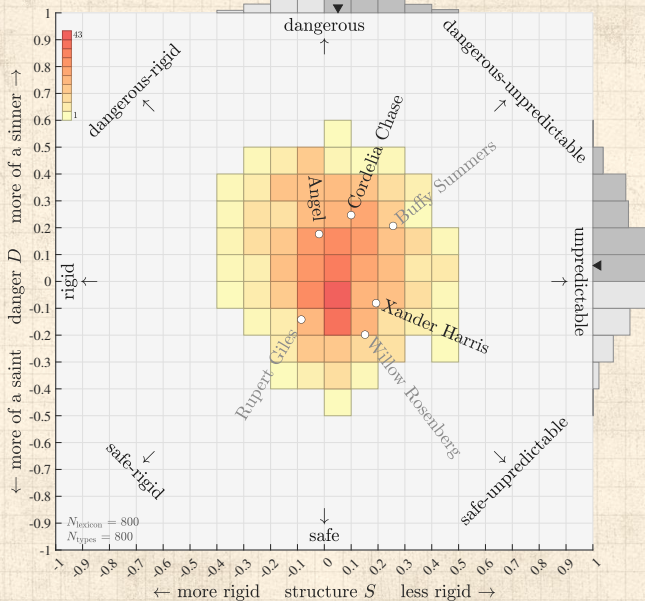
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Structure-Danger space for Buffy the Vampire Slayer



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Findings, observations, possibilities:

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

See concluding remarks in the foundational paper. ^[5]

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Findings, observations, possibilities:

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

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See concluding remarks in the foundational paper. [5]

Findings, observations, possibilities:

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

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See concluding remarks in the foundational paper. ^[5]



Findings, observations, possibilities:

- Power-danger-structure framework emerges in distinct settings, fitting types and tokens.
- Safety bias of communication refines Pollyanna Principle of positivity
- Happiness/Goodness = Power + Safety
- Ousimeter can be improved and refined.
- Possible: Emotions map onto powerful-safe and danger axes.

See concluding remarks in the foundational paper. [5]

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Findings, observations, possibilities:

-  Power-danger-structure framework emerges in distinct settings, fitting types and tokens.
-  Safety bias of communication refines Pollyanna Principle of positivity
-  Happiness/Goodness = Power + Safety
-  Ousiometer can be improved and refined.
-  Possible: Emotions map onto powerful-safe and danger axes.
-  Power-danger framework for survival.

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See concluding remarks in the foundational paper. [5]

Findings, observations, possibilities:

-  Power-danger-structure framework emerges in distinct settings, fitting types and tokens.
-  Safety bias of communication refines Pollyanna Principle of positivity
-  Happiness/Goodness = Power + Safety
-  Ousimeter can be improved and refined.
-  Possible: Emotions map onto powerful-safe and danger axes.
-  Power-danger framework for survival.
-  Possible: Telegnomics for stories—Measuring character arcs, plots.

See concluding remarks in the foundational paper. ^[5]

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Findings, observations, possibilities:

- Power-danger-structure framework emerges in distinct settings, fitting types and tokens.
- Safety bias of communication refines Pollyanna Principle of positivity
- Happiness/Goodness = Power + Safety
- Ousimeter can be improved and refined.
- Possible: Emotions map onto powerful-safe and danger axes.
- Power-danger framework for survival.
- Possible: Telegnomics for stories—Measuring character arcs, plots.
- Complement to information theory which is meaning-free. [21]

See concluding remarks in the foundational paper. [5]

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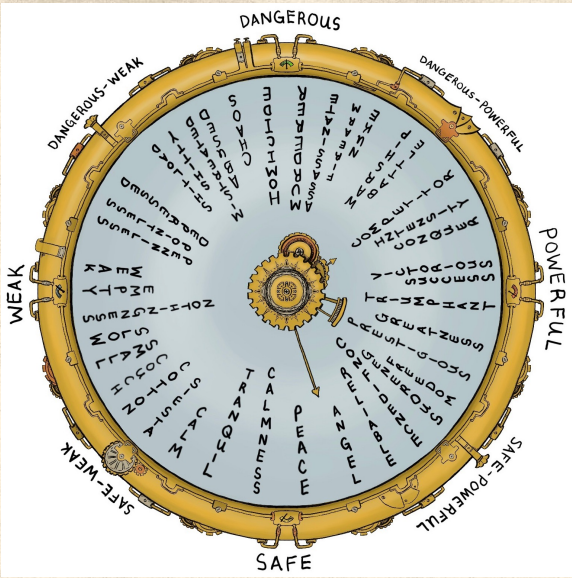
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Online appendices: Paper(s), extra figures, flipbooks, code.

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

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



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

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

Dimension

Evaluation

Activity

Potency

Stability

Scale

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

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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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powerful-weak and dangerous-safe framework

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