The Meaning of Meaning

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

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























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The PoCSverse Meaning 1 of 103

Measuring essential meaning

Definition

Emotions

Problems

Remeasuring meaning

Ouslogr

Dimension name:

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space

Nutshell

Extra

References

dangerous aparau dangerous dangerous dangerous dangerous killer

crucifixion lurid outburst squander

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The PoCSverse Meaning 2 of 103

Measuring essential meaning

Definition:

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space

Nutshell

Extra

References

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The PoCSverse Meaning 3 of 103

Measuring essential meaning

Definition

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications
The Ouslometer

Correspondences Trait space

Character space Nutshell

Extra

References

dangerous ortenbritan

Outline
Measuring essential meaning
History
Definitions
Emotions
Problems
Remeasuring meaning
Ousiograms
Extremousionyms
Dimension names
Safety bias
Applications
The Ousiometer
Correspondences
Trait space
Character space
Nutshell
Extra
References

The PoCSverse Meaning 4 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space

Character space

Nutshell

Extra

References

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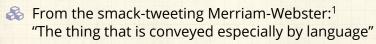
aggression pissed crucifixion lurid outburst

squander



"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?



The PoCSverse Meaning 5 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Jusiogra

Dimension names

Safety bias

Applications

The Ousiometer
Correspondences

Trait space

Character space

Nutshell

Extra

References



"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.,

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?

The PoCSverse Meaning 5 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiogra

Dimension names

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space

Nutshell

Extra

References

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What does meaning even mean?

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

The PoCSverse Meaning 5 of 103

Measuring essential meaning

Problems

meaning

Safety bias

Applications

Correspondences

Trait space Character space

Extra



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Safety bias

Applications

The PoCSverse

essential meaning

Meaning 5 of 103 Measuring

Problems

meaning

Trait space Character space

Extra

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

"Abed's Uncontrollable Christmas"

The PoCSverse Meaning 6 of 103

Measuring essential meaning

History

Definitions Emotions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications
The Ouslometer

Correspondences

Trait space Character space Nutshell

Extra

References

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"Abed's Uncontrollable Christmas"

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

The PoCSverse Meaning 6 of 103

Measuring essential meaning

History

Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space

Extra

References dang@ous

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crucifixion lurid outburst squander

"Abed's Uncontrollable Christmas"

- Abed searches for the meaning of Christmas (in stop animation)
- Abed Nadir: [opens present] "It's the first season of Lost on DVD."

The PoCSverse Meaning 6 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring

meaning

Jusiogra

Dimension names

Safety bias

Applications

The Ousiometer Correspondence:

Trait space Character space

Nutshell

Extra

References

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The PoCSverse Meaning 6 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications

The Ousiometer

Trait space Character space

Extra

crucifixion outburst

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The PoCSverse Meaning 6 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiogra

Dimension names

Safety bias

Applications

The Ousiometer

Trait space Character space

Nutshell

Extra

References

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The PoCSverse Meaning 6 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ouslogram

Dimension names

Safety bias

Applications

The Ousiometer

Trait space

lutshell

Extra

References

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"Introduction to Teaching"

The PoCSverse Meaning 6 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

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Dimension names

Safety bias

Applications

The Ousiometer

Trait space

Character space Nutshell

Extra

References

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

The PoCSverse Meaning 6 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications

Trait space Character space

Extra

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"Introduction to Teaching"

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The PoCSverse Meaning 6 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Extremousionyms

Dimension names

Safety bias

Applications

The Ouslometer Correspondences Trait space

Character space Nutshell

Extra

References

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pissed crucifixion lurid outburst

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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."

The PoCSverse Meaning 6 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications

Trait space

Character space

Extra

Outline Measuring essential meaning History

Definitions

LITTOGOTI

Remeasuring meaning

Ousiogram

Extremousionyms

Safety bias

Applications

The Ouslomete

Correspondences

Trait space

Character space

Nutshe

Extra

Reference

The PoCSverse Meaning 7 of 103

Measuring essential meaning

History Definitions

Problems

Remeasuring meaning

Ousiograms Extremousionym:

Dimension name

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space

Nutsrieii

Extra

Reference

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The meaning of pings:



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

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

From the introduction:

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

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

The problem may be stated as follows: In the detection and recognition of underwater sounds by the use of sonar equipment, what are the discriminative cues employed by the sonar operator? More generally, what factors does the operator utilize in decoding the significance of sonar signals?'

The PoCSverse Meaning 8 of 103

Measuring essential meaning

History

Problems

Remeasuring meaning

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space



"The Measurement of Meaning" **3** 🗷 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 PoCSverse Meaning 9 of 103

Measuring essential meaning

History Definitions

Problems

Remeasuring meaning

Ousiogran

Dimension names

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space Nutshell

Extra

References

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Evaluation: bad ↔ good

The PoCSverse Meaning 9 of 103

Measuring essential meaning

History Definitions

Problems

Remeasuring meaning

Ouslogran

Dimension names

Safety bias

Applications
The Ousigneter

orrespondences

Trait space Character space

Extra

References

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Potency: weak ↔ strong

The PoCSverse Meaning 9 of 103

Measuring essential meaning

History Definitions

Problems

Remeasuring meaning

Ousiogram

Dimension names

Safety bias

Applications
The Ousigneter

Correspondences

Trait space Character space

xtra

References

crucifixion lurid outburst squander



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The PoCSverse Meaning 9 of 103

Measuring essential meaning

History Definitions

Problems

Remeasuring meaning

Dusiograms

Dimension names

Safety bias

Applications
The Ousigneter

Correspondences Trait space

Character space

Extra

Reference

References

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100s of students, 10s of things, 50 semantic differentials The PoCSverse Meaning 9 of 103

Measuring essential meaning

History Definitions

Problems

Remeasuring meaning

Dusiograms Extremousionym:

Dimension names
Safety bias

Applications

Applications
The Ousinmeter

orrespondences

Trait space Character space

xtra

References

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pissed crucifixion lurid outburst squander



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"EPA framework"

The PoCSverse Meaning 9 of 103

Measuring essential meaning

History Definitions

Problems

Remeasuring meaning

Ouslograms Extremousionym

Dimension names
Safety bias

Applications

Applications
The Ousigmeter

Correspondences Trait space

Character space

xtra

References



Semantic differentials from Osgood et al.: [14]

	pleasant-unpleasant	18. large-small		
	repeated-varied		36.	colorful-colorless
	smooth-rough		37.	hot-cold
	active-passive	21. dull-sharp	38.	rich-thin
	beautiful-ugly	22. deep-shallow	39.	obvious-subtle
	definite-uncertain	23. gliding-scraping 24. familiar-strange	40.	wide-narrow
	low-high	25. soft-hard	41.	deliberate-careless
	powerful-weak		42.	happy-sad
	steady-fluttering		43.	gentle-violent
A STREET, STRE	soft-loud		44.	mild-intense
	full-empty	29. concentrated-diffuse	45.	rounded-angular
	good-bad	00 1' 11'		slow-fast
	rumbling-whining	31. labored-easy		rugged-delicate
	solid-hollow	52. dark-bright		
	clear-hazy			simple-complex
16.	calming-exciting	01. 10000 018110		green-red
17.	pleasing-annoying	35. relaxed-tense	50.	masculine-feminine

Outline Measuring essential meaning

Definitions

The PoCSverse Meaning 11 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring

meaning

Ousiograms

Safety bias

Applications

The Ousiometer Correspondences Trait space

Character space

Extra

dangerous Jeurses

aggression outburst



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

The PoCSverse Meaning 12 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Safety bias

Applications The Ousiometer

Correspondences

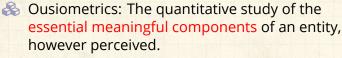
Trait space Character space Nutshell

Extra

References

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aggression crucifixion outburst squander



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

The PoCSverse Meaning 12 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Ousiogram

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Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space

Extra

References

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The PoCSverse Meaning 12 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Ousiograms Extremousionyms

Safety bias

Applications

ne Ouslometer Correspondences

Trait space Character space

Extra

References

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The PoCSverse Meaning 12 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Extremousionyms

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space

lutshell

Extra

References

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crucifixion lurid outburst squander

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The PoCSverse Meaning 12 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Ousiograms Extremousionyms

Safety bias

Applications

The Ouslometer Correspondences

Trait space Character space

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Extra

References

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- $\ref{2}$ Telegnomics: The distant sensing of knowledge (\sim distant reading [13])

The PoCSverse Meaning 12 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Ousiograms

Extremousionyms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character spa

Nutshell

Extra

References

dangerous

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dangerous

dangerous

Outline Measuring essential meaning

History Definitions

Emotions

Problem

Remeasuring meaning

Ousiogram

Extremousionyms
Dimension names

Safety bias

Applications

The Ouslometer Correspondence

Character space

Nutshel

Extra

Reference

The PoCSverse Meaning 13 of 103

Measuring essential meaning

History

Definitions Emotions

Problems

Remeasuring meaning

Ousiograms

Extremousionym:

Safety bias

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Applications

The Ousiometer
Correspondences

Trait space

Character space

Extra

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Reference

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Essential dimensions captured by emotion:



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

The PoCSverse Meaning 14 of 103

Measuring essential meaning

Emotions

Problems

Remeasuring meaning

Safety bias

Applications

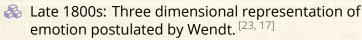
The Ousiometer Trait space

Character space Nutshell

Extra

References

aggression outburst



4 1970s: Mehrabian and Russell explicitly port EPA framework: [8, 9]

The PoCSverse Meaning 14 of 103

Measuring essential meaning History

Definitions Emotions

Problems

Remeasuring meaning

Dusiogran

Extremousionyms
Dimension names

Safety bias

Applications
The Ouslometer

Correspondences Trait space

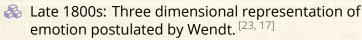
Character space

Extra

References

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crucifixion
lurid
outburst
squander



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Activity ∼ Arousal

The PoCSverse Meaning 14 of 103

Measuring essential meaning

Definitions Emotions

Problems

Remeasuring meaning

Extremousionyms

Safety bias

Applications
The Ouslometer

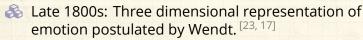
Correspondences Trait space

Character space Nutshell

Extra

References

crucifixion lurid outburst squander



1970s: Mehrabian and Russell explicitly port EPA framework: ^[8, 9]

Potency ~ Dominance

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The PoCSverse Meaning 14 of 103

Measuring essential meaning

Definitions Emotions

Problems

Remeasuring meaning

Extremousionyms

Safety bias

Safety bias

Applications

The Ousiometer Correspondences Trait space

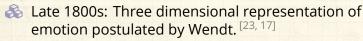
Character space Nutshell

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References

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Potency ∼ Dominance

VAD has become standard nomenclature even though emotion is less general than meaning. The PoCSverse Meaning 14 of 103

Measuring essential meaning

Definitions Emotions

Problems

Remeasuring meaning

Jusiograms Extremousionyms

Safety bias

Applications

Applications
The Ousignmeter

Trait space Character space

Nutshell

Extra

References

dangerous renburgana dangerous renburgana dangerous killer

aggression
pissed
crucifixion
lurid
outburst

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The PoCSverse Meaning 14 of 103

Measuring essential meaning

Definitions Emotions

Problems

Remeasuring meaning

Extremousionyms

Safety bias

Applications

Correspondences Trait space Character space

Extra

References

riter aggression pissed crucifixion

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 - Potency ∼ Dominance
- VAD has become standard nomenclature even though emotion is less general than meaning.
- Explicit presumption of independence of VAD dimensions, has hardened as fact.
- Intention that VAD

 ≡ EPA has become lost in literature. [2]

The PoCSverse Meaning 14 of 103

Measuring essential meaning

Definitions Emotions

Problems

Remeasuring meaning

Extremousionyms

Dimension names

Safety bias

Applications

Correspondences Trait space Character space

Nutshell

Extra

References dang@ous

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aggression
pissed
crucifixion
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"An Approach to Environmental Psychology." **3** 🗷 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." The PoCSverse Meaning 15 of 103

Measuring essential meaning

Definitions Emotions

Problems

Remeasuring meaning

Dusiogra

Dimension names

Safety bias

Applications

The Ouslometer Correspondences

Trait space Character space

Nutshell

Extra

References

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aggression pissed crucifixion lurid outburst

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

The PoCSverse Meaning 16 of 103

Measuring essential meaning

History Definitions

Definition

Problems

Remeasuring meaning

Dusiogra

imension names

Safety bias

Applications

The Ousiometer
Correspondences

Trait space

Character space Nutshell

Extra

References

killer
aggression
pissed
crucifixion
lurid
outburst
squander

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The PoCSverse Meaning 16 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications

The Ousiometer

Trait space Character space

Extra

outburst

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- The use of Likert scales for semantic differentials: Solid but can be improved upon.

The PoCSverse Meaning 16 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Dusiogra

Dimension names

Safety bias

Applications

The Ousiometer

Trait space Character space

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Extra

References

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pissed
crucifixion
lurid
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- 2. The focus on types alone and not tokens: Missing the forest for the book of tree species.
- The use of Likert scales for semantic differentials: Solid but can be improved upon.
- Limitations of factor analysis for a large number of categorical dimensions: Ousiograms will help sort things out.

The PoCSverse Meaning 16 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Dusiogra

Dimension names

Safety bias

Applications

The Ousiometer

Trait space

Character space

Extra

References

dangarous

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killer

killer
aggression
pissed
crucifixion
lurid
outburst

- 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.
- The use of Likert scales for semantic differentials: Solid but can be improved upon.
- Limitations of factor analysis for a large number of categorical dimensions: Ousiograms will help sort things out.
- 5. The misalignment between expert-chosen, end-point descriptors and dimensions of essential meaning: How to guide raters to score VAD dimensions?

The PoCSverse Meaning 16 of 103

Measuring essential meaning History

Definitions Emotions

Problems

Remeasuring meaning

)usiogran

Dimension names

Safety bias

Applications

The Ousiometer

Trait space Character space

Character space Nutshell

Extra

References



crucifixion lurid outburst squander

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Solution is to always perform factor analysis (SVD).

The PoCSverse Meaning 16 of 103

Measuring essential meaning History

Definition:

Problems

Remeasuring meaning

Dusiogran

Oimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space Nutshell

Extra

References



aggression pissed crucifixion lurid outburst

1999 ANEW study—three 1–9 scales: [4] valence:



arousal:



dominance:



The PoCSverse Meaning 17 of 103

Measuring essential meaning

Definition

Emotions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space Nutshell

Extra

References



killer
aggression
pissed
crucifixion
lurid
outburst
squander



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

The PoCSverse Meaning 18 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space

Nutshell Extra

References dangerous

aggression

outburst squander

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Participants were further told:

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

The PoCSverse Meaning 18 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ouslogr

imension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space

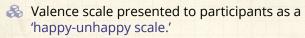
Nutshell

Extra

References

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pissed
crucifixion
lurid
outburst



Participants were further told:

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

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

The PoCSverse Meaning 18 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiogra

Dimension names

Safety bias

Applications

The Ouslometer Correspondence: Trait space

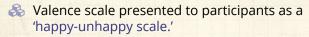
Character space Nutshell

Extra

References

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crucifixion lurid outburst squander



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The PoCSverse Meaning 18 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Jusiogran

Dimension names

Safety bias

Applications

The Ousiometer Correspondences Trait space

Character space Nutshell

Extra

References

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The PoCSverse Meaning 18 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

usiograms

Dimension names

Safety bias

Applications The Ousiometer

Correspondences Trait space Character space

Nutshell

Extra

References

dangerous danger

pissed crucifixion lurid outburst squander

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 $\ref{eq:spectal-problem}$ Problem: Expert-chosen list of \sim 1,000 words.

The PoCSverse Meaning 18 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiogram Extremousionyr

Dimension names

Safety bias

Applications The Ouslometer

Correspondences Trait space Character space

Nutshell

Extra

References

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pissed crucifixion lurid outburst

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Fine words but poorly cover real texts [16].

The PoCSverse Meaning 18 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

xtremousionyms

Dimension names

Safety bias

Applications

Correspondences Trait space Character space

Extra

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pissed crucifixion lurid outburst

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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.

Fine words but poorly cover real texts [16].

Wrongly suggests Arousal and Dominance are minimal relative to Valence. The PoCSverse Meaning 18 of 103

Measuring essential meaning History

Definitions Emotions

Problems

Remeasuring meaning

ousiograms extremousionyms

imension names

Safety bias

Applications
The Ouslometer
Correspondences

Trait space Character space Nutshell

Extra

References



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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. [11]

Moving beyond Likert scales:

The PoCSverse Meaning 19 of 103

Measuring essential meaning

Definition:

Problems

Remeasuring meaning

Jusiograms Extremousionym:

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space

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Extra

References

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aggression
pissed
crucifixion
lurid
outburst



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The PoCSverse Meaning 19 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications

The Ousiometer

Trait space

Character space

Extra

outburst

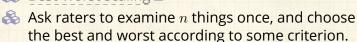


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The PoCSverse Meaning 19 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications

The Ousiometer

Trait space Character space

Extra



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Moving beyond Likert scales:



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

 \Re For n=4, the are 6 pair comparisons of Things.

The PoCSverse Meaning 19 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Safety bias

Applications

Trait space

Character space

Extra

References



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Moving beyond Likert scales:



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- $\ \ \,$ Choosing best and worst gives 5 orderings: $\tau_1>\tau_2,\tau_3>\tau_4.$

The PoCSverse Meaning 19 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms Extremousionyms

Safety bias

Applications

Correspondences Trait space

Character space Nutshell

Extra

References dangerous

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pissed crucifixion lurid outburst



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Moving beyond Likert scales:



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- \clubsuit For n=4, the are 6 pair comparisons of Things.
- Choosing best and worst gives 5 orderings: $au_1 > au_2, au_3 > au_4.$
- \clubsuit Things end up with scores in [0,1].

The PoCSverse Meaning 19 of 103

Measuring essential meaning

Definition

Problems

Remeasuring meaning

Extremousionyms

Safety bias

Applications

Correspondences Trait space

Character space Nutshell

Extra

References dangerous

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pissed crucifixion lurid outburst

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:

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

The PoCSverse Meaning 21 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiog

imension names

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space Nutshell

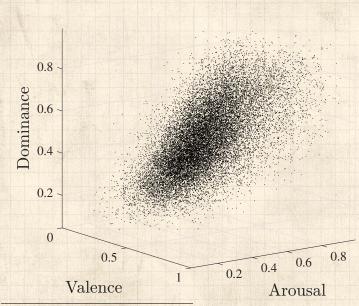
Extra

References



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The Delicious English Muffin of Meaning:1



The PoCSverse Meaning 22 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms

Extremousionyms
Dimension names

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space Nutshell

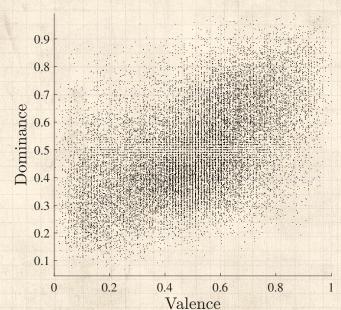
Extra

References



¹Apricot jam, always.

 $R(D, V) \simeq 0.488$



The PoCSverse Meaning 23 of 103

Measuring essential meaning

History Definitions

Problems

Remeasuring meaning

Ousiograms

Extremousionyms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space Nutshell

Extra

References



squander

Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:

The PoCSverse Meaning 24 of 103

Measuring essential meaning

History

Definitions

Problems

Remeasuring meaning

usiogr

extremousionyms Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space

Nutshell

Extra

References

dangerous openicide descriptions of the dangerous openicide openic

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lurid
outburst
squander

Release the Hounds by which we mean Singular Value Decomposition:

Variance explained:



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

The PoCSverse Meaning 24 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space

Extra

References

dang@ous

aggression outburst

Release the Hounds by which we mean Singular Value Decomposition:

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

Apply SVD.

The PoCSverse Meaning 24 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space

Extra

References

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Apply SVD.

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

The PoCSverse Meaning 24 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Jusiogra

Dimension names

Safety bias

Applications

The Ousiometer Correspondences Trait space

Character space

Extra

References

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killer
aggression
pissed
crucifixion
lurid
outburst

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

The PoCSverse Meaning 24 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Dusiograms

Extremousionym

Dimension names

Safety bias

Applications

The Ousiometer

Trait space Character space

Nutshell

Extra

References

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Release the Hounds by which we mean Singular Value Decomposition:

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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%

The PoCSverse Meaning 24 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Dusiogran

Extremousionyms Dimension names

Safety bias

Applications

The Ousiometer Correspondences Trait space

Character space Nutshell

Extra

References

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Release the Hounds by which we mean Singular Value Decomposition:

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- Interpretability enhancements: Ousiograms.

The PoCSverse Meaning 24 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Jusiogran

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space Nutshell

Extra

References dang@ous

 \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 \leftarrow more negative valence Vmore positive \rightarrow

more dominant

dominance

more submissive

The PoCSverse Meaning 25 of 103

Measuring essential meaning

History Definitions

Problems

Remeasuring meaning

Ousiograms

Extremousionyms Dimension names

Safety bias

Applications

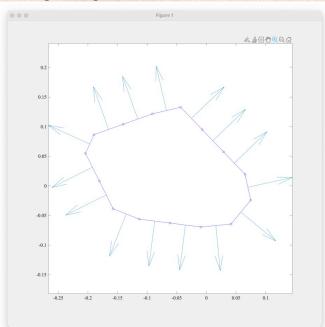
The Ousiometer Correspondences Trait space

Character space Nutshell

Extra

References

Building ousiograms (2021/01/31):



The PoCSverse Meaning 26 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications The Ousiometer

Correspondences Trait space

Character space Nutshell

Extra

References

aggression crucifixion outburst squander

Building ousiograms (2021/01/31):



The PoCSverse Meaning 27 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ouslometer Correspondences

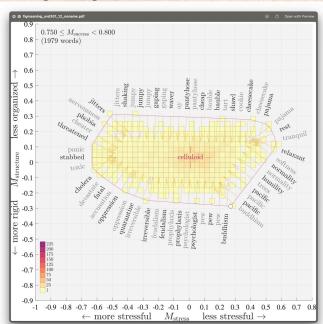
Trait space
Character space
Nutshell

Extra

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References dangerous

Building ousiograms (2021/01/31):



The PoCSverse Meaning 28 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Safety bias

Applications

The Ousiometer Trait space

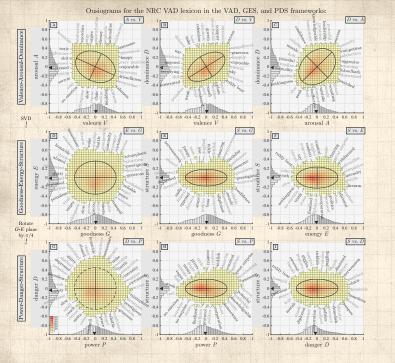
Character space

Extra





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The PoCSverse Meaning 29 of 103

Measuring essential meaning

History

Problems

Remeasuring meaning

Ousiograms

Extremousionyms Dimension names

Safety bias

Applications

The Ousiometer Correspondences

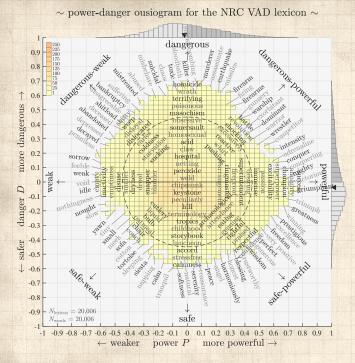
Trait space

Character space Nutshell

Extra

References

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The PoCSverse Meaning 30 of 103

Measuring essential meaning

History

Problems

Remeasuring meaning

Ousiograms

imension names

Safety bias

Applications

The Ousiometer

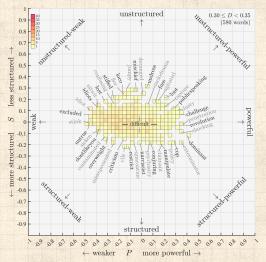
Correspondences Trait space

Character space Nutshell

Extra

References dang@ous

Ousiometric slices:



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The PoCSverse Meaning 32 of 103

Measuring essential meaning

History Definitions

Definition:

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ouslometer Correspondences

Trait space Character space

Nutshell

Extra

References

dangengerous
dangerous
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The PoCSverse Meaning 33 of 103

Measuring essential meaning

History Definitions

Emotions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space Nutshell

Extra

References

dangenus openius dangerous dangerous dangerous

The PoCSverse Meaning 34 of 103

Measuring essential meaning

History

Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space Nutshell

Extra

References

dangengerous
dangerous
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Outline

Measuring essential meaning

History

Definitions

Emotions

Remeasuring meaning

Ousiograms

Extremousionyms

Dimension names

Safety bia

Applications

The Ouslomete

Correspondences

Trait space

Character space

Nutshe

Extra

Reference

The PoCSverse Meaning 35 of 103

Measuring essential meaning

History

Definitions

Problems

Remeasuring meaning

Ousiograms Extremousionyms

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space

Nutshell

Extra

Reference

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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:

Danger	ous-Pov	verful (High Energ	gy) to Saf	e-Weal	(Low E	nergy)	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:									
			Dangerou	s to Safe	axis:				
Synousionyms	Valence	Arousal				Structure	Power	Danger	Structure
Synousionyms Anchor: homicide	Valence	Arousal				Structure	Power		Structure 0.011
			Dominance	Goodness	Energy				
Anchor: homicide	-0.490 -0.459	0.473	Dominance 0.018	Goodness -0.485	Energy 0.478	0.011	-0.005	0.681	0.011
Anchor: homicide killer	-0.490 -0.459 -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: homicide killer psychopath	-0.490 -0.459 -0.460 -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: homicide killer psychopath bloodshed	-0.490 -0.459 -0.460 -0.452 -0.439	0.473 0.471 0.443 0.442 0.470	0.018 0.043 0.036 0.025	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: homicide killer psychopath bloodshed violate	-0.490 -0.459 -0.460 -0.452 -0.439 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: homicide killer psychopath bloodshed violate Antousionyms	-0.490 -0.459 -0.460 -0.452 -0.439 Valence 0.354	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: homicide killer psychopath bloodshed violate Antousionyms	-0.490 -0.459 -0.460 -0.452 -0.439 Valence 0.354	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: homicide killer psychopath bloodshed violate Antousionyms natural tranquil	-0.490 -0.459 -0.460 -0.452 -0.439 Valence 0.354 0.417	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: homicide killer psychopath bloodshed violate Antousionyms natural tranquil softness	-0.490 -0.459 -0.460 -0.452 -0.439 Valence 0.354 0.417 0.375	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

Outline

Ousiograms

Dimension names

The PoCSverse Meaning 38 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space

Extra

dangerous Jeurses

aggression outburst



Physics: Power was once sometimes called Activity

The PoCSverse Meaning 39 of 103

Measuring essential meaning

Definitions Definitions

Problems

Remeasuring meaning

Ousiograms Extremousionym

Dimension names

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space Nutshell

Extra

References

dangerous openbythe

Physics: Power was once sometimes called Activity

Danger

and Dominance trace back to Dominus

(~ lord/ruler/person of power)

The PoCSverse Meaning 39 of 103

Measuring essential meaning

Definitions

Emotions

Problems

Remeasuring meaning

extremousionym

Dimension names

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space

Extra

References

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Physics: Power was once sometimes called Activity

(∼ lord/ruler/person of power)

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

The PoCSverse Meaning 39 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Dimension names

Safety bias

Applications

The Ousiometer

Trait space Character space

Extra

outburst

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:

The PoCSverse Meaning 39 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Extremousionym

Dimension names

Safety bias

Applications

The Ousiometer

Trait space Character space

Nutshell

Extra

References

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Danger

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(~ lord/ruler/person of power)

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

Other descriptors that don't hold up:

Success-Stress-Structure.

The PoCSverse Meaning 39 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Extremousionyms

Dimension names

Safety bias

Applications

The Ousiometer

Trait space

Character space Nutshell

Extra

References

Physics: Power was once sometimes called Activity

Danger

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

Other descriptors that don't hold up:

Success-Stress-Structure.

Energy/Flourishing/Thriving-Threat

The PoCSverse Meaning 39 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring

meaning

Extremousionyms Dimension names

Safety bias

Safety bias

Applications

The Ousiometer

Trait space

Character space Nutshell

Extra

References

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- 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

The PoCSverse Meaning 39 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Extremousionyms
Dimension names

Safety bias

Applications

The Ousiometer

Trait space Character space

Character spa Nutshell

Extra

References

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- Physics: Power was once sometimes called Activity
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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:

The PoCSverse Meaning 39 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Extremousionyms

Dimension names

Safety bias

Sarety bias

Applications
The Ouslometer

Correspondence Trait space

Character space

Extra

References

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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)

The PoCSverse Meaning 39 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Extremousionyms
Dimension names

Safety bias

Applications
The Ouslometer

Trait space Character space

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- 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)
- Power-Danger-Structure (PDS) (succeeds)

The PoCSverse Meaning 39 of 103

Measuring essential meaning

Problems

meaning

Dimension names

Safety bias

Applications

Trait space

Character space

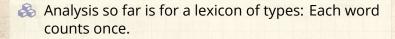
Extra

Connections between meaning dimensions:

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

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

$$\begin{bmatrix} \mathbf{Power} \\ \mathbf{Danger} \end{bmatrix} = \frac{1}{\sqrt{2}} \begin{bmatrix} 1 & 1 \\ -1 & 1 \end{bmatrix} \begin{bmatrix} \mathbf{Goodness} \\ \mathbf{Energy} \end{bmatrix} \tag{1}$$



The PoCSverse Meaning 41 of 103

Measuring essential meaning

History Definitions

Definitions Emotions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ouslometer Correspondences

Trait space Character space Nutshell

Extra

References

dangerous dangerous suspensite su

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.

The PoCSverse Meaning 41 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ouslograms Extremousionyms

Safety bias

Applications

The Ousiometer
Correspondences

Trait space Character space

Nutshell

Extra

References

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- 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.

The PoCSverse Meaning 41 of 103

Measuring essential meaning History

Definitions

Problems

Remeasuring meaning

Dusiograms Extremousionyms

Dimension names

Safety bias

Applications
The Ouslometer

Correspondence Trait space

Character space

Extra

References

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- 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]

The PoCSverse Meaning 41 of 103

Measuring essential meaning History

Problems

Remeasuring meaning

Ousiograms

Extremousionyms

Dimension names

Safety bias

Applications

Correspondences Trait space

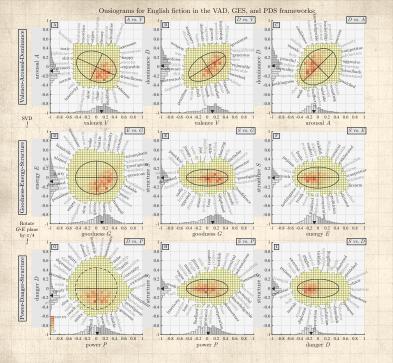
Character space Nutshell

Extra

References

dangerous openissesses openisses openissesses openisses openisses openissesses openisses ope

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The PoCSverse Meaning 42 of 103

Measuring essential meaning

History

Problems

Remeasuring meaning

Ousiograms

Extremousionyms Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space

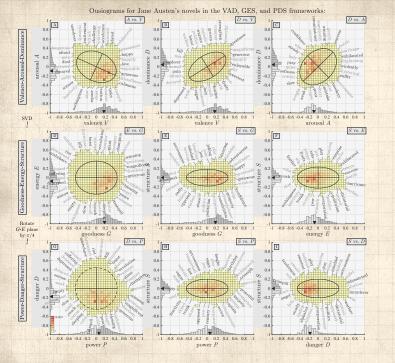
Character space Nutshell

Extra

References

dang@ous and the control of the cont

pissed crucifixion lurid outburst squander



The PoCSverse Meaning 43 of 103

Measuring essential meaning

History Definition

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

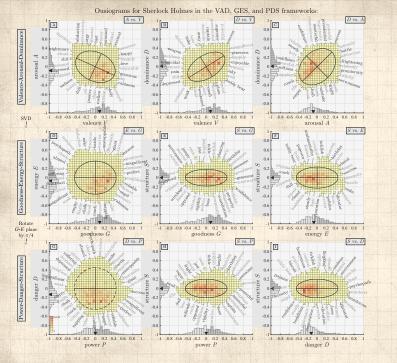
The Ousiometer Correspondences

Trait space Character space

Extra

References

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The PoCSverse Meaning 44 of 103

Measuring essential meaning

History

Problems

Remeasuring meaning

Ousiograms

Extremousionyms Dimension names

Safety bias

Applications

The Ousiometer Correspondences

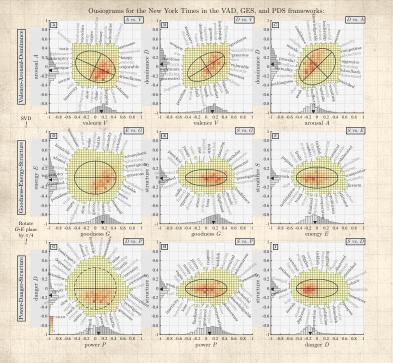
Trait space

Character space Nutshell

Extra

References

dangerous and dangerous da



The PoCSverse Meaning 45 of 103

Measuring essential meaning

History

Problems

Remeasuring meaning

Ousiog

Extremousionyms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space

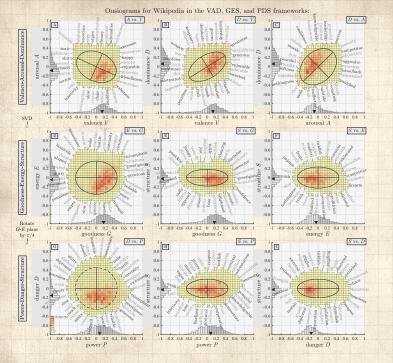
Character space Nutshell

Extra

References

dang@ous of the control of the contr

pissed crucifixion lurid outburst squander



The PoCSverse Meaning 46 of 103

Measuring essential meaning

History

Problems

Remeasuring meaning

Ousiograms

Extremousionyms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space

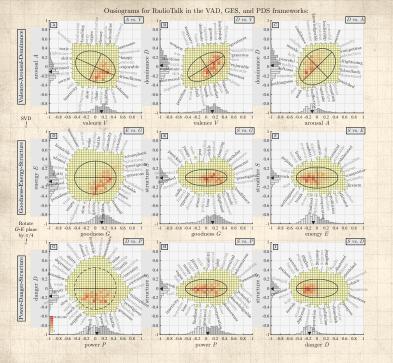
Character space Nutshell

Extra

References

dang@ous openion of the control of t

aggression
pissed
crucifixion
lurid
outburst
squander



The PoCSverse Meaning 47 of 103

Measuring essential meaning

History

Problems

Remeasuring meaning

Ousiograms

Extremousionyms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space

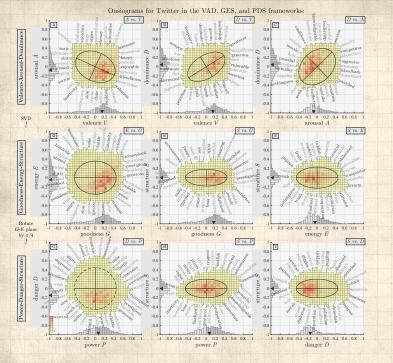
Character space Nutshell

Extra

References

dangerous standarde killer

aggression
pissed
crucifixion
lurid
outburst
squander



The PoCSverse Meaning 48 of 103

Measuring essential meaning

History

Problems

Remeasuring meaning

Ousiograms

Extremousionyms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space

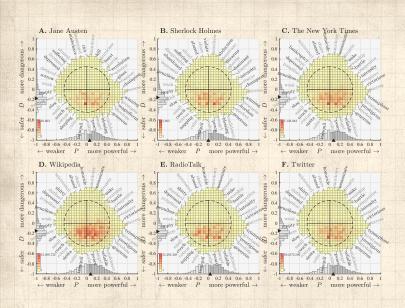
Character space Nutshell

Extra

References

dang@ous of the control of the contr

crucifixion lurid outburst squander



The PoCSverse Meaning 49 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer

Correspondences

Trait space

Character space

Nutshell

Extra

References

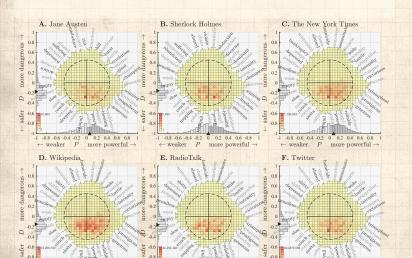


aggression outburst squander

A special thing has happened:



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



The PoCSverse Meaning 50 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Dimension names

Safety bias

Applications The Ousiometer

Correspondences Trait space

Character space

Extra

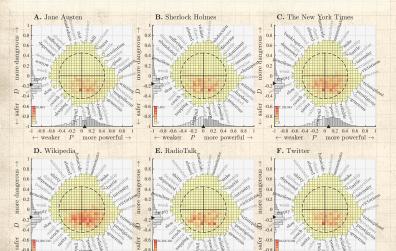
References

aggression outburst

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'.



The PoCSverse Meaning 50 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications The Ousiometer

Trait space Character space

Extra

References

Outline

Applications

The Ousiometer

The PoCSverse Meaning 51 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Safety bias

Applications

The Ousiometer

Correspondences Trait space

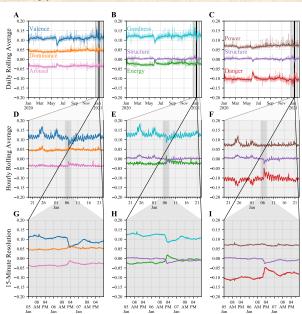
Character space

Extra

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outburst

Prototype ousiometer—Twitter:



The PoCSverse Meaning 52 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Safety bias

Applications The Ousiometer

Trait space Character space Nutshell

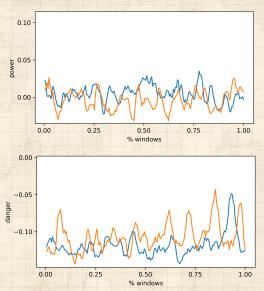
Extra

References



crucifixion outburst

Prototype ousiometer—Harry Potter:



Blue: Harry Potter and the Half-Blood Prince Orange: Harry Potter and the Deathly Hallows The PoCSverse Meaning 53 of 103

Measuring essential meaning

History Definitions

Problems

Remeasuring meaning

Ousiog

Dimension names

Safety bias

Applications
The Ousiometer

Correspondences Trait space

Character space Nutshell

Extra

References



aggression pissed crucifixion lurid outburst

Outline

Applications

Correspondences

The PoCSverse Meaning 54 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space

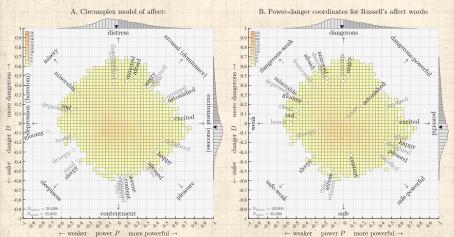
Extra

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



Dungeons & Dragons—Two alignment axes for character:



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

The PoCSverse Meaning 56 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications

The Ousiometer

Correspondences Trait space

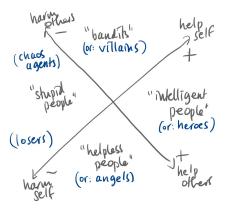
Character space

aggression

outburst

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



Outline

Applications

Trait space

The PoCSverse Meaning 59 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Safety bias

Applications The Ousiometer

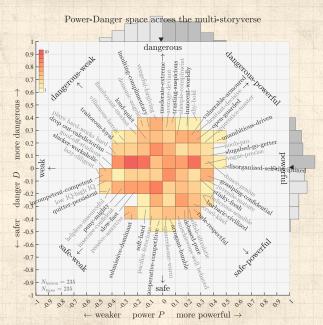
Correspondences

Trait space Character space

Extra

dangerous Jeurses

aggression outburst



The PoCSverse Meaning 60 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms

imension names

Safety bias

Applications

The Ousiometer Correspondences

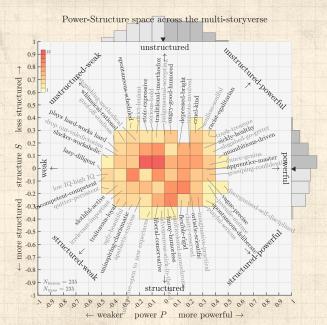
Trait space Character space

Extra

References

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crucifixion lurid outburst



The PoCSverse Meaning 61 of 103

Measuring essential meaning

Definition

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ouslometer Correspondences

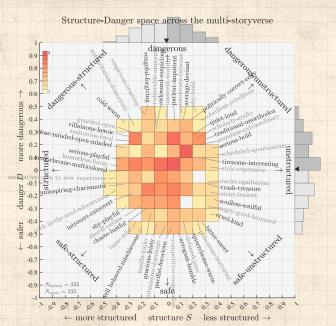
Trait space Character spa

Extra

References

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crucifixion
lurid
outburst



The PoCSverse Meaning 62 of 103

Measuring essential meaning

Definition

Problems

Remeasuring meaning

Ousiog

Dimension names

Safety bias

Applications
The Ouslometer

Correspondences Trait space

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Extra

References

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aggression pissed crucifixion lurid outburst

Outline

Applications

Character space

The PoCSverse Meaning 63 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Safety bias

Applications

The Ousiometer

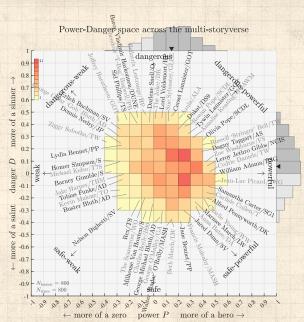
Correspondences Trait space

Character space

Extra

dangerous Jerusses

aggression outburst



The PoCSverse Meaning 64 of 103

Measuring essential meaning

History Definition

Problems

Remeasuring meaning

usiograms

Extremousionyms
Dimension names

Safety bias

Applications
The Ouslometer

Correspondence Trait space

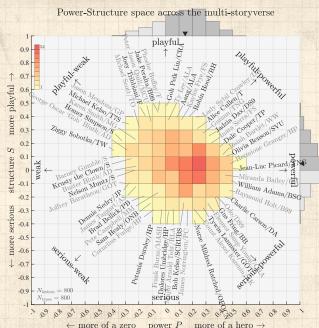
Character space Nutshell

Extra

References

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killer
aggression
pissed
crucifixion
lurid
outburst



The PoCSverse Meaning 65 of 103

Measuring essential meaning

Definition

Problems

Remeasuring meaning

Dusiog

Dimension names

Safety bias

Applications
The Ouslometer

Correspondence Trait space

Character space Nutshell

Extra

References

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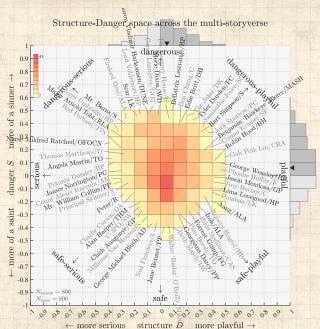
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crucifixion

lurid

outnuts



The PoCSverse Meaning 66 of 103

Measuring essential meaning

History Definition

Problems

Remeasuring meaning

Ousiograms

Extremousionyms Dimension names

Safety bias

Applications
The Ouslometer

Correspondences Trait space

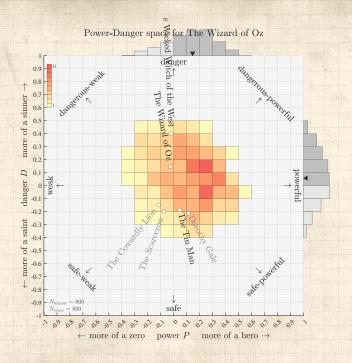
Character space Nutshell

Extra

References

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crucifixion lurid outburst squander



The PoCSverse Meaning 67 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications
The Ouslometer

Correspondences Trait space

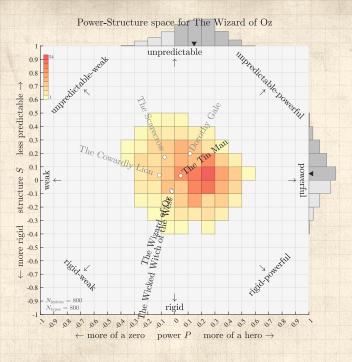
Character space Nutshell

Extra

References

dangerous appropriate the control of the control of

crucifixion lurid outburst squander



The PoCSverse Meaning 68 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences Trait space

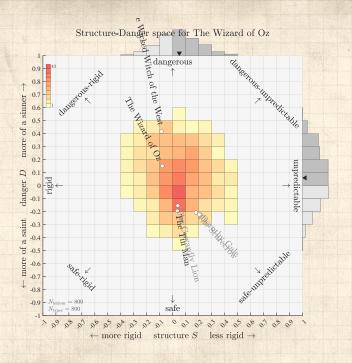
Character space

Extra

References

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killer
aggression
pissed
crucifixion
lurid
outburst
squander



The PoCSverse Meaning 69 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences Trait space

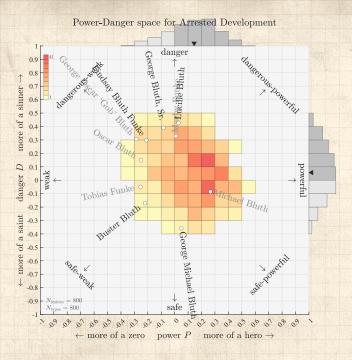
Character space

Extra

References

dangerous

killer
aggression
pissed
crucifixion
lurid
outburst
squander



The PoCSverse Meaning 70 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications The Ousiometer

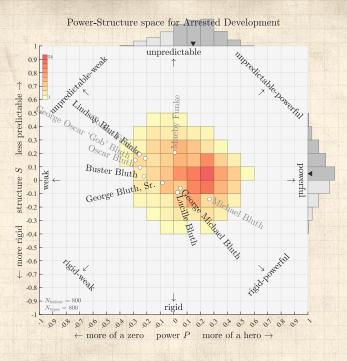
Correspondences Trait space

Character space

Extra

References

dangerous



The PoCSverse Meaning 71 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Dimension names

Safety bias

Applications

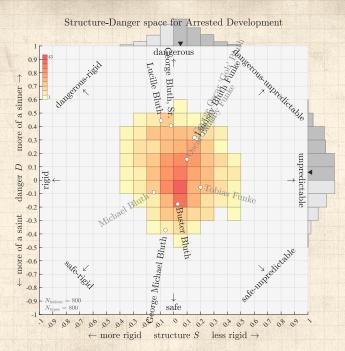
The Ousiometer Correspondences Trait space

Character space

Extra

References

dangerous



The PoCSverse Meaning 72 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences Trait space

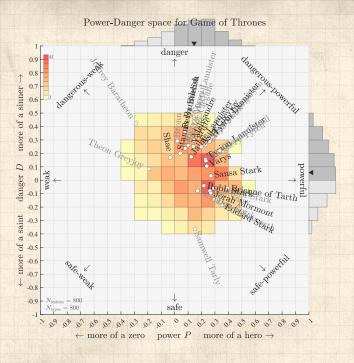
Character space

Extra

References

dangerous

aggression outburst



The PoCSverse Meaning 73 of 103

Measuring essential meaning

Definition:

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications
The Ouslometer

Correspondences Trait space

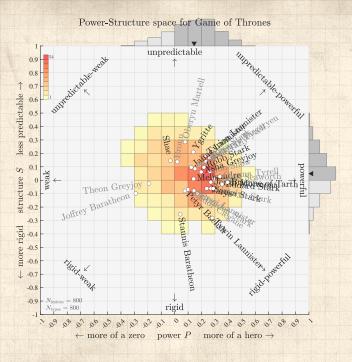
Character space Nutshell

Extra

References

dangerous openisses

killer
aggression
pissed
crucifixion
lurid
outburst



The PoCSverse Meaning 74 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiogr

Dimension names

Safety bias

Applications
The Ousiometer

Correspondences Trait space

Character space Nutshell

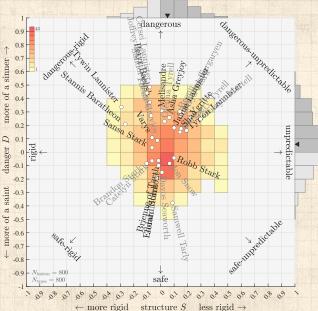
Extra

References

dangerous wisses

killer
aggression
pissed
crucifixion
lurid
outburst

Structure-Danger space for Game of Thrones



The PoCSverse Meaning 75 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

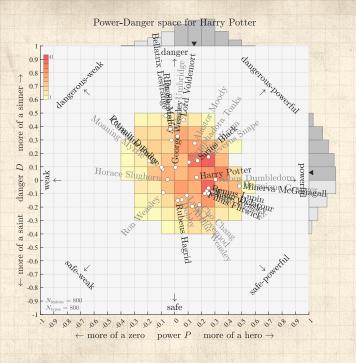
Applications The Ousiometer

Correspondences Trait space

Character space

Extra

References



The PoCSverse Meaning 76 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

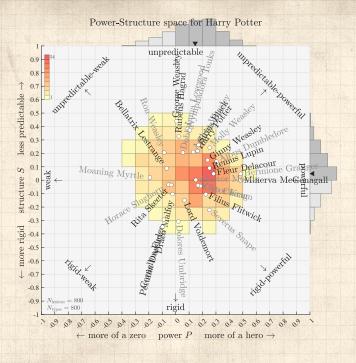
Applications The Ousiometer

Correspondences Trait space

Character space

Extra

References



The PoCSverse Meaning 77 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Dimension names

Safety bias

Applications

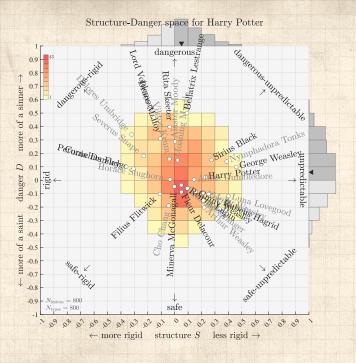
The Ousiometer Correspondences Trait space

Character space

Extra

References

dangerous



The PoCSverse Meaning 78 of 103

Measuring essential meaning

Definition

Problems

Remeasuring meaning

Ousiog

Dimension names

Safety bias

Applications

The Ousiometer Correspondences Trait space

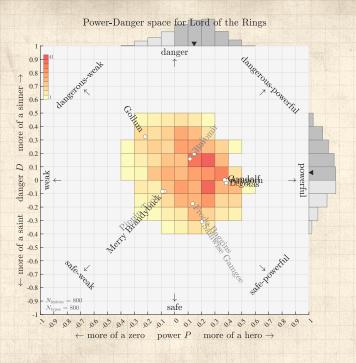
Character space

Extra

References

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killer
aggression
pissed
crucifixion
lurid
outburst



The PoCSverse Meaning 79 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications The Ousiometer

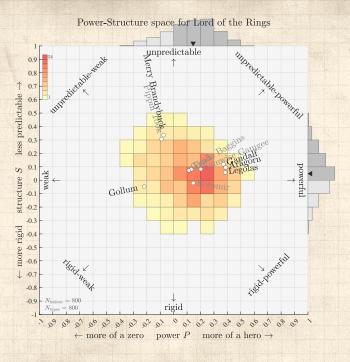
Correspondences Trait space

Character space

Extra

References

aggression crucifixion outburst squander



The PoCSverse Meaning 80 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications The Ousiometer

Correspondences Trait space

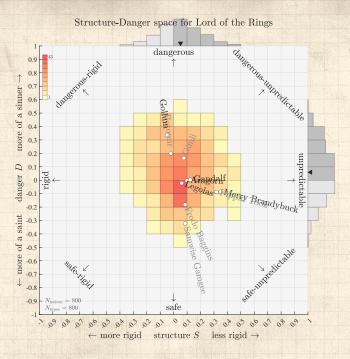
Character space

Extra

References

dangerous

aggression crucifixion outburst squander



The PoCSverse Meaning 81 of 103

Measuring essential meaning

History Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications
The Ouslometer

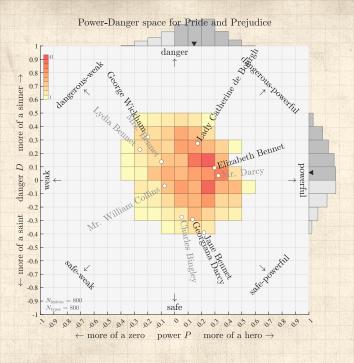
Correspondences Trait space

Character space

Extra

References

dangerous



The PoCSverse Meaning 82 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications
The Ousiometer

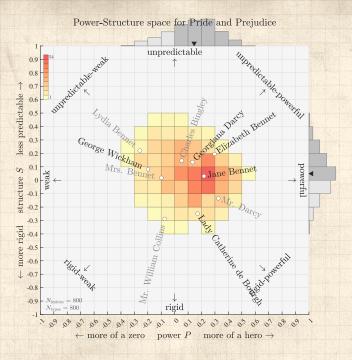
Correspondences Trait space

Character space Nutshell

Extra

References

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The PoCSverse Meaning 83 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiogr

Dimension names

Safety bias

Applications
The Ouslometer

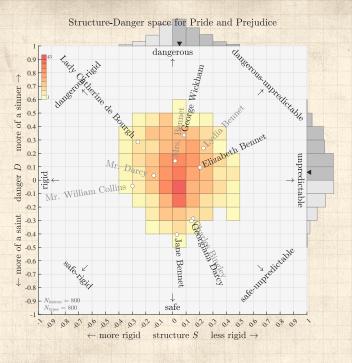
Correspondences Trait space

Character space Nutshell

Extra

References

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The PoCSverse Meaning 84 of 103

Measuring essential meaning

History Definition

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

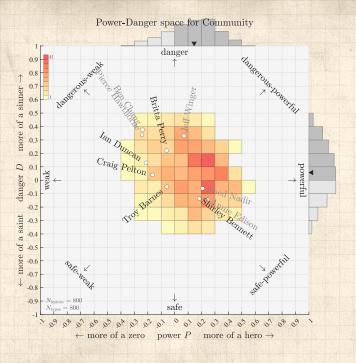
The Ouslometer Correspondences Trait space

Character space

Extra

References

dangerous openicide considerations of the construction of the cons



The PoCSverse Meaning 85 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications The Ousiometer

Correspondences Trait space

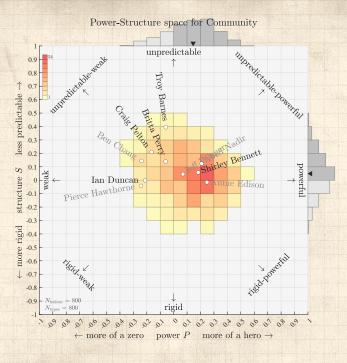
Character space

Extra

References

dangerous

aggression crucifixion outburst squander



The PoCSverse Meaning 86 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications
The Ouslometer

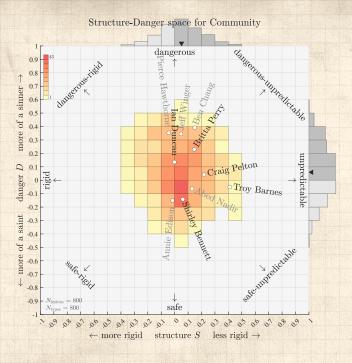
Correspondences Trait space

Character space Nutshell

Extra

References

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The PoCSverse Meaning 87 of 103

Measuring essential meaning

Definition

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications
The Ouslometer

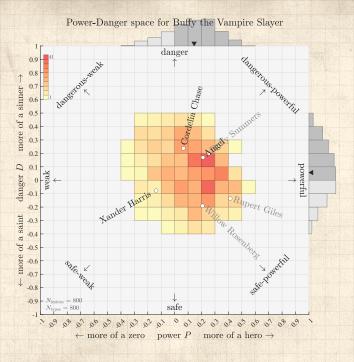
Correspondences Trait space

Character space Nutshell

Extra

References

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The PoCSverse Meaning 88 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications
The Ouslometer

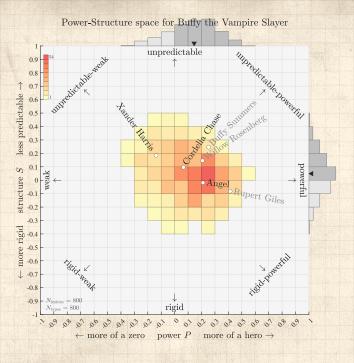
Correspondences Trait space

Character space Nutshell

Extra

References

dangerous openismesses openisme



The PoCSverse Meaning 89 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences Trait space

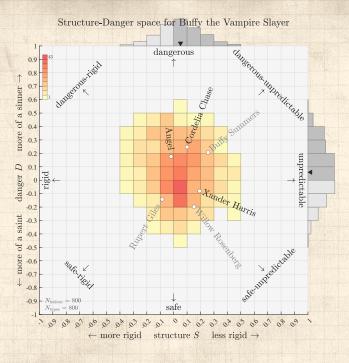
Character space

Extra

References

dangerous

aggression crucifixion outburst



The PoCSverse Meaning 90 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring

meaning
Ousiograms

Extremousionyms

Dimension names

Safety bias

Applications
The Ouslometer

Correspondences Trait space

Character space

Extra

References

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The PoCSverse Meaning 91 of 103

Measuring essential meaning

History Definition

Problems

Remeasuring meaning

Dusiog

imension names

Safety bias

Applications

The Ousiometer Correspondence Trait space

Character space Nutshell

Extra

References

dangerous organisms of the control o

outburst

Outline

Applications

Nutshell

The PoCSverse Meaning 92 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Ousiograms

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space

Nutshell

Extra

References

dangerous Jerusses

aggression outburst



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

The PoCSverse Meaning 93 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications

Trait space Character space

Nutshell

outburst

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

Safety bias of communication refines Pollyanna Principle of positivity The PoCSverse Meaning 93 of 103

Measuring essential meaning History

Definitions Emotions

Problems

Remeasuring meaning

Ousiogr

Extremousionyms Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space

Nutshell

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References

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killer
aggression
pissed
crucifixion
lurid
outburst

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

The PoCSverse Meaning 93 of 103

Measuring essential meaning History

Emotions

Problems

Remeasuring meaning

Ousiograms Extremousionym

Safety bias

Safety bias

Applications

The Ousiometer Correspondences Trait space

Character space

Nutshell

Extra

References

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killer
aggression
pissed
crucifixion
lurid
outburst

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.

The PoCSverse Meaning 93 of 103

Measuring essential meaning History

Definitions Emotions

Problems

Remeasuring meaning

Dusiogram

Dimension names

Safety bias

Applications

The Ousiometer Correspondence Trait space

Character space

Nutshell

Extra

References

dangarous seasoning of the control o

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.

The PoCSverse Meaning 93 of 103

Measuring essential meaning History

Problems

Remeasuring meaning

Ousiograms Extremousionyms

Safety bias

Applications

Correspondences
Trait space
Character space

Nutshell

Extra

References

dangarous open dangar

- 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.

The PoCSverse Meaning 93 of 103

Measuring essential meaning

Problems

meaning

Safety bias

Applications

Trait space Character space

Nutshell

- 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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- 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]

The PoCSverse Meaning 93 of 103

Measuring essential meaning History

Definitions Emotions

Problems

Remeasuring meaning

Ousiograms Extremousionyms

Safety bias

Sarety bias

Applications

The Ousiometer

Trait space
Character space

Nutshell

Extra

References

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- 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.
- 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]

The PoCSverse Meaning 93 of 103

Measuring essential meaning History

Definition: Emotions

Problems

Remeasuring meaning

Ousiograms Extremousionyms

Dimension names

Safety bias

Applications

Correspondences
Trait space
Character space

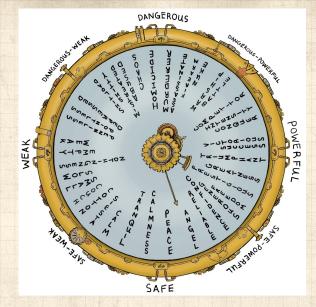
Nutshell

Extra

References

dangerous opening of the control of

pissed rucifixion lurid outburst squander



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

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

The PoCSverse Meaning 94 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiog

Dimension names

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character spac

Nutshell

Extra

References

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happy	Synonyms	Valence	Arousal	Dominance	Goodness	Energy	Structure	Power	Danger	Structure
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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										
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	at ease	_	_	_	_	_	_	_	_	_
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glad 0.44 0.26 0.24 0.45 0.27 0.19 0.52 -0.10 0.19										
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"Semantic differential profiles for 1,000 most frequent English words."

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

Dimension	Scale
Evaluation	Good-Bad
	Pleasant-Unpleasant
Activity	Active-Passive
	Lively-Still
Potency	Strong-Weak
	Tough-Tender
Stability	Rational-Emotional
	Tamed-Untamed

The PoCSverse Meaning 96 of 103

Measuring essential meaning

Definitions 1

Emotions

Problems

Remeasuring meaning

Ousiogr

Dimension names

Safety bias

Applications

The Ousiometer

Trait space

Character space Nutshell

Extra

References

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Remeasuring meaning:

Confusion and Conflation:



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Test whether EPA and VAD match.



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

The PoCSverse Meaning 97 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiogra

Dimension names

Safety bias

Applications

The Ousiometer

Trait space Character spa

Nutshell

Extra

References

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References I

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The PoCSverse Meaning 98 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space

Extra

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The PoCSverse Meaning 99 of 103

Measuring essential meaning History

Problems

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Remeasuring meaning

Dusiograms

Safety bias

Applications

Correspondence: Trait space

Character space Nutshell

Extra

References

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Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiogran

Dimension names

Safety bias

Applications

The Ousiometer Correspondence

Trait space Character space

Nutshell

Extra

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Measuring essential meaning

Problems

meaning

Safety bias

Applications The Ousiometer

Correspondences Trait space

Character space

Extra

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Measuring essential meaning History

Definition:

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer Correspondences

Trait space Character space

Nutshell

Extra

References

pissed crucifixion lurid outburst squander

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The PoCSverse Meaning 103 of 103

Measuring essential meaning

Definition

Problems

Remeasuring meaning

Ousiogran

Dimension names

Safety bias

Applications

The Ousiometer

Trait space Character space

Nutshell

Extra

References

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The PoCSverse Meaning 104 of 103

Measuring essential meaning

Problems

Remeasuring meaning

Safety bias

Applications The Ousiometer

Correspondences Trait space Character space

References dangerous

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The PoCSverse Meaning 105 of 103

Measuring essential meaning

Definitions

Problems

Remeasuring meaning

Ousiograms Extremousionyms

Safety bias

Applications

The Ouslometer Correspondence Trait space

Character space

Extra

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pissed crucifixion lurid outburst squander

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The PoCSverse Meaning 106 of 103

Measuring essential meaning

History Definitions

Definition: Emotions

Problems

Remeasuring meaning

Ousiograms

Dimension names

Safety bias

Applications

The Ousiometer

Correspondences Trait space

Character space

Nutshell

Extra

References

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