

Evolution of word meanings through metaphorical mapping: Systematicity over the past millennium (supplemental material)

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1 Experimental instructions on rating elicitation

1.1 Animacy

Phrases can refer to animate things - that is, things that are alive (whether they can move on their own, like people or can not move on their own like plants). For example, “little baby” refers to something that is alive.

Phrases can also refer to inanimate things - that is, things that are not alive. For example, “heavy rock” refers to something is not alive.

Your task is to rate a list of phrases on how animate what they refer to is. Phrases that refer to living things should receive a high animacy rating. Phrases that refer to non-living things should receive a low animacy rating.

Please read each phrase and its definition carefully. Then, use the scale below to judge the animacy of what each phrase refers to, with 1 meaning the “highly inanimate” and 7 the “highly animate.” For example, you might give “little baby” a 6 or 7 and “heavy rock” a 1 or 2. Please enter a number from the scale next to each phrase.

1.2 Concreteness

Phrases can refer to concrete things - that is, things that can be seen, heard, felt, smelled or tasted. For example, a “red chair” can be experienced by our senses and therefore is high in concreteness.

Phrases can also refer to abstract things - that is, things that cannot be experienced by our senses. For example, “criminal justice” cannot be experienced by the senses and is very abstract.

Your task is to rate a list of phrases on the concreteness of what they refer to. Phrases that refer to objects, materials or persons should generally receive a high concreteness rating. Phrases that refer to things that cannot be experienced by the senses should receive a low concreteness rating.

Please read each phrase and its definition carefully. Then, use the scale below to indicate the concreteness of what each phrase refers to, with 1 meaning the “highly abstract” and 7 the “highly concrete.” For example, you might give “red chair” a 6 or 7 and “criminal justice” a 1 or 2. Please enter a number from the scale next to each phrase.

1.3 Embodiment

Phrases can refer to things that are embodied - that is, things that we experience directly and physically through our bodies. For example, “standing erect” or “throwing the ball” are things that we experience directly through our bodies.

Phrases can also refer to things that are not embodied - that is, things that we do not experience directly and physically through our bodies. For example, “true justice” refers to something that we do not experience directly through our bodies.

Your task is to rate a list of phrases on how embodied what they refer to is. Phrases that refer to things that we experience directly through our bodies should receive high embodiment ratings. Phrases that refer to things that we do not experience directly through our bodies should receive a low embodiment rating.

1.4 Externality

Phrases can refer to external things - that is, things that exist in the world around us. For example, “black dog” refers to something that exists in the external world.

Phrases can also refer to internal things - that is, things that exist within ourselves, such as within our minds. For example, “happy thoughts” refers to something that exists internally.

Your task is to rate a list of phrases on the externality of what they refer to. Phrases that refer to things that exist in the world around us should receive a high externality rating. Phrases that refer to things that exist within ourselves should receive a low externality rating.

Please read each phrase and its definition carefully. Then, use the scale below to indicate the externality of what each phrase refers to, with 1 meaning the “highly internal” and 7 the “highly external.” For example, you might give “black dog” a 6 or 7 and “happy thoughts” a 1 or 2. Please enter a number from the scale next to each phrase.

1.5 Intersubjectivity

Phrases can refer to things that people experience the same way and agree about. For example, we tend to agree about whether something is a “spotted thing” because people perceive spots in similar ways.

Phrases can also refer to things that people experience in different ways, and may not agree about. For example, we tend to disagree about whether something is a “beautiful thing” because people perceive beauty in different ways.

Your task is to rate a list of phrases on how similarly-experienced and agreed upon what they refer to is by different people. Phrases that refer to things that people experience the same way and agree about should receive high ratings. Phrases that refer to things that people experience in different ways and disagree about should receive low ratings.

Please read each phrase and its definition carefully. Then, use the scale below to indicate the how similarly-experienced and agreed about what each phrase refers to is, with 1 meaning “very similarly-experienced and agreed about” and 7 “very differently experienced and disagreed about.” For example, you might give “spotted thing” a 6 or 7 and “beautiful thing” a 1 or 2. Please enter a number from the scale next to each phrase.

1.6 Valence

Some phrases evoke positive emotional responses from people - that is, things that make us feel happy, pleased, satisfied, contented, or hopeful. For example, “happy puppy” refers to something that evokes positive emotional responses.

Other phrases evoke negative emotional responses from people - that is, things that make us feel unhappy, annoyed, unsatisfied, melancholic, despairing, or bored. For example, “dying puppy” refers to something that evokes negative emotional responses.

Your task is to rate a list of phrases on how positive or negative what they refer to makes you feel. Phrases that refer to something that makes you feel completely happy, pleased, satisfied, contented, or hopeful should receive a high positivity rating. Phrases that refer to something that makes you feel completely unhappy, annoyed, unsatisfied, melancholic, despairing, or bored should receive a low positivity rating.

Please read each phrase and its definition carefully. Then, use the scale below to indicate the positivity of what each phrase refers to, with 1 meaning the “highly negative” and 7 the “highly positive.” For example, you might give “happy puppy” a 6 or 7 and “dying puppy” a 1 or 2. Please enter a number from the scale next to each phrase.

2 Semantic domains and mean variable ratings

Domain	Anim.	Conc.	Embod.	Exter.	Intersub.	Val.
The world, the earth	5.7	5.41	5.31	6.63	4.5	5.26
Region of the earth	2.35	5.89	2.12	6.65	5.53	4.53
Cardinal points	2.6	3	2.65	5.4	5.4	4.26
Land and islands	2.67	5.87	2.53	6.79	4.59	5
Landscape, high and low land	2.41	5.43	3.07	6.44	4.65	5.26
Level land and marshes	3.95	5.95	3.19	6.56	4.25	4.1
Wild and fertile land	3.76	5.18	3	6.65	3.75	5.45
Body of water	3.71	6.18	3.06	6.76	4.5	5.11
Rivers and streams	5.05	6.42	2.58	6.65	4.86	5.45
Sea	4.06	6.14	3.29	6.89	5.6	4.5
Lakes and pools	3.68	6.63	1.88	6.74	4.56	5.62
Ice	2.35	6.63	3.56	6.39	5.07	3.68
Tides, waves and flooding	3.71	6.26	3.05	6.61	4.69	5.05
Named regions of earth	1.83	4.76	2.85	5.47	3.8	4.32
Geological features	1.47	5.95	3.2	6.65	4.9	4.79
Minerals	2.53	5.95	3.95	6.81	4.73	4.76
Earth science	2.61	4.07	4.18	5.9	4.44	4.59
Universe and space	3.65	4.38	3.18	6.56	4.12	5.11
Celestial sphere	2.93	3.19	2.5	4.72	5.38	5.43
Sky	3.06	5.53	2.18	6.5	4.88	5.29
Heavenly body	3.45	6.16	4.06	6.41	4.56	5.67
Planets and satellites	3.9	5.4	3.56	6.8	4.75	5.55
Stars	3.35	5.23	2.38	6.79	3.64	6.2
Sun	2.83	6.44	3.4	6.88	4.73	5.47
Constellations and comets	3.8	5.72	1.82	5.89	4.27	5.79
Astronomy	2.8	4.64	2.45	5.78	4.8	5.35
Astrology	2.1	3.68	2.37	3.83	3.55	4.14
Atmosphere and weather	2.94	4.64	4.29	6.28	3.47	4.9
Life	5.94	2.88	5.88	2.94	5.4	5.89
Birth	4.73	3.94	5.18	4.42	5.38	5.84
Age	2.65	4.84	4.65	4.72	4.85	4.05
Biological sex	4.11	6.06	6.29	4.28	3.65	4.7
Absence of life	1.44	2.81	2.95	3.4	3.81	2.05
Biology	4.24	5.11	4.65	5.71	5.07	5.55
Biological processes	5.65	4.59	5.29	3.95	4.33	5.3
Natural habitats and taxonomies	4.2	5.37	2.76	6.05	4.12	4.95
The human body	5.94	6.11	6.81	5.33	3.76	4.85
Bodily shape and strength	4.3	4.88	5.63	5.06	4.4	5.4
Body parts	5.5	6.27	5.56	6.11	3.67	4.05
Skin	5.2	6.47	5.12	6.4	4.93	4.63
Hair	3.9	6.39	6.28	6.33	5.8	4.43
Bodily tissue	5.47	6.53	6.1	5.33	5.2	4.41
Bones, muscles and cartilage	4.6	5.77	6.29	5	5.13	4.45
Sense and speech organs	5.55	6.06	6.47	4.83	3.88	5.26
Internal organs	6.13	6.33	6.35	4.94	5.1	4.18
Digestive organs	6.2	6.53	6.06	4.95	5.15	3.82
Bodily secretion	4	5.5	5.38	6.06	4.35	3.2
Bodily excretion	4.8	5.56	5.69	5.83	4.25	2.41
Sex organs	5.85	6.53	5.59	5.3	4.75	4.88
Respiratory system	5.82	5.59	6	4.94	4.65	4.75
Vascular system	5.4	4.86	6.41	4.35	5.53	4.85
The brain and nervous system	5.88	6	5.67	5.05	5.6	4.76
Human anatomy	5.6	5.89	5.85	5.24	5.5	4.71
Death	3	4.05	5.53	3.62	4.05	1.63
Dead person	2.6	5.18	5.12	6.3	4.88	1.7
Manner of death	3.17	4.75	5.06	2.94	4.4	2.8
Cause of death	3.41	3.5	5.25	5.17	4.8	2.05
Killing	4.05	5.11	5.35	5.86	4.73	1.45
Burial and cremation	3.47	5.28	4.82	5.65	4.2	2.32
Mourning and obsequies	5.24	2.27	4.86	2.06	3.33	1.53
Health	4.8	4	6.47	2.89	4	6
Ill-health	3.87	4.53	5.35	3.4	4.56	1.58

Mental health	4.24	2.24	5.18	1.56	3.6	4.3
Healing and treatment	3.85	3.74	5.72	4.1	4.2	5.9
Humankind	6.41	5.11	4.08	4.8	4.25	4.53
Person	6.55	6.53	6.44	5.06	5	5.75
Male person	6.47	6	5.76	6.44	4.47	4.57
Female person	6.95	5.87	6.24	6	4.24	5.6
Baby and young person	6.67	6.21	6.19	6.43	4.13	5.95
Adult and middle-aged person	5.9	6	5.85	5.38	3.95	4.62
Old person	5.95	6.24	5.82	5.56	4.4	4.55
Races and nations	3.55	4.94	3.8	4.9	3.7	4.42
Animals	6.71	6.31	3.69	6.83	5	5.57
Animal categories, habitats and behaviour	4.7	3.56	2.5	5.81	5.15	4.39
Groups of animals	5.8	6.06	2.82	6.05	6	4.81
Animal bodies	6.7	5.86	4.41	6.82	5.53	4.76
Insects and other invertebrates	6.7	5.71	4.38	6.72	5.07	3.25
Fish	6.5	6.56	2.88	6.44	5.75	4.32
Amphibians	6.35	6.44	4.69	6.48	4.2	5
Reptiles	6.44	6.37	4.78	6.83	5.8	4.12
Birds	6.68	6.69	5.82	6.65	4.76	5.29
Classes of mammals	6.05	4.86	4.41	6.25	5.35	5.05
Felines	6.42	5.21	3.71	6.35	4.38	4.9
Canines	6.06	6.38	3.5	6.38	5.87	5.9
Other clawed mammals	6.72	5.57	4.94	7	3.71	3.95
Rhinoceroses and general ungulates	6.71	5.86	3.71	6.43	5.32	4.09
Horses and elephants	6.59	6.4	4	6.82	5.53	4.95
Pigs	6.7	6.56	3.45	6.82	5.87	3.76
Ruminants	6.29	6.44	4.31	6.29	4.4	3.42
Bats, aardvarks, flying lemurs and tree-shrews	6.64	6	4.72	6.65	5.93	3.65
Primates	5.85	6.38	5.29	6.42	3.8	4.59
Zoology and taxidermy	4.11	4.92	4.39	6.1	3.87	3.68
Plants	5.67	6.75	3.59	6.65	4.07	5.76
Flowers and grasses	4.39	5.79	4	6.8	4.53	5.9
Trees and shrubs	5.13	6.36	2.35	6.8	5.14	5.42
Cacti, ferns, moss and algae	5.13	6.13	3.12	6.62	4.93	3.9
Cultivated plants	4.61	6.56	3.92	6.72	5.13	4.74
Weeds	5.59	6.58	3.69	6.58	4.4	2.5
Botany	3.75	4.5	3.69	6.12	4.87	4.71
Food and eating	4.47	5.59	6.25	5.83	4.93	5.57
Drinks and drinking	2.8	5.88	6.41	5.9	4.88	4.79
Farming	5.56	5.64	4.35	6.11	5.13	4.71
Hunting and fishing	5.25	6.16	5.9	6.32	4.47	3.47
Textiles	2	6.14	4	6.68	5.67	4.42
Clothing	2.22	6.29	4.71	6.41	4.73	5.1
Physical sensation	4.4	4.13	5.59	2.94	4.1	5.14
Sleep	3.9	4.71	5.82	3.05	5.8	6.19
Awake	5.32	3.75	6.47	3.06	4.6	5.44
Weariness	3.73	3.11	5.5	1.72	3.7	2.48
Invigoration	5.94	2.29	4.33	2.95	4.1	6.4
Sexual relations	5.33	4.42	6.06	3.76	4.6	5.55
Drug use	3.71	4	5.78	4.5	4.6	1.63
Poison	3	6.11	5.59	5.6	4.27	1.33
Touch	5.1	5.21	6.38	5.1	4.47	5.65
Taste	4.5	4.86	5.19	2.89	4.06	5.33
Smell	3.76	4.47	6.06	3.4	4	4.68
Sight	3.9	3.88	5.53	3.52	4.89	5.75
Hearing and Noise	2.73	4.13	5.06	3.68	5.27	4.91
Cleanness	3.11	4.63	5.17	5.47	4.67	6.15
Dirtiness	2.65	4.82	3.76	5.29	3.6	1.95
Alchemy	2.75	2.25	2.47	4.35	4.47	3.95
Chemistry	3.35	3.64	4.47	5.22	4.71	4.94
Weight, heat and cold	2.13	6.37	5.63	6.05	4.41	3.8
Solidity and density	1.8	4.47	3.63	5.39	4.12	4.68
Lack of density	1.8	4.58	3.29	4.8	3.6	2.79
Granular texture	2.3	6.26	4.94	6.45	4.07	3.64
Fine and coarse texture	2.79	5.81	5.92	5.11	4.27	4.45
Strength	3.8	4.22	5.94	4.56	4.25	5.76

Weakness	2.59	3.31	5.35	2.65	4.53	1.68
Hardness	1.87	4.4	5.22	5.71	3.13	3.57
Softness	2.15	4.5	4.35	5.65	3.47	5.68
Unctuousness	3.33	3.06	4.48	2.24	3.33	2.24
Semi-fluidity	2.8	4.95	4.12	6.22	4.31	4.29
Liquid	4.12	5.71	3.12	6.41	4.92	4.32
Water	3.41	6.25	4.24	6.19	5.7	5.95
Humidity	2.35	5.18	3.48	6.24	5.4	3.42
Wetness	2.93	5.81	4.88	6.28	4.2	3.85
Leaking and outpouring	2.8	4.47	3.81	6.05	4.87	3.15
Flowing and floating	3.85	5.05	4.19	4.78	3.87	5.22
Dryness	1.78	5.63	5.61	5.57	4.33	3.1
Gas	3.85	4.81	2.31	6.1	5.35	3.41
Air	3.45	4.16	3.75	5.83	4.6	5.2
Physics and mechanics	3.05	4.5	3.95	5.58	4.41	4.43
Electromagnetism and atomic physics	2.72	4.5	3.76	5.35	4.05	4.38
Light	3.3	5.32	4.48	6.43	4.6	6
Flickering and glowing light	3.27	5.13	3.18	6.06	4.07	4.48
Illumination	3.3	5.89	3.75	6	4.87	5.58
Reflection	2.7	6	2.77	5.71	4.47	5.16
Natural light	2.13	4.47	3.24	5.85	3.93	6.21
Artificial light	3	3.67	2.88	5.47	4.47	4.35
Fireworks	3.65	6.56	3.24	6.72	4.47	5.36
Transparency and opacity	2.11	3.8	2.7	4.56	4.4	4.68
Darkness	1.61	3.89	3.53	5.6	3.9	2.26
Colour	2	5.11	2.71	5.41	4.65	5.71
Individual colours	2	4	2.06	5.1	4.07	4.74
Pattern and variegation	2.95	4.69	3.69	5.35	3.94	4.37
Good condition	2.65	4.17	4.24	4.21	3.64	5.74
Bad condition	2.44	2.56	3.5	4.14	4	1.45
Existence and its attributes	3.8	2.11	3	2.26	3.87	4.9
Creation	3.7	3.58	3.5	5.35	4.33	5.81
Destruction	3.78	4	4.43	5.19	4.73	2.05
Causation	4.2	2.29	2.94	3.7	4.2	4.45
Occurrence	3.25	3.47	2	4.4	4.47	4.45
Space	3.05	4.44	2.6	5.94	4.27	4.63
Distance	1.82	4.38	3.15	5.95	3.53	4.26
Size and spatial extent	2.22	5.56	3.1	5.88	4.31	4.47
Shape	3.65	5.68	3.76	5.76	4.2	4.79
Place and position	1.82	4.77	4.41	6.16	5.2	4.67
Relative position	2.5	2.53	4.25	5.15	3.67	3.9
Direction	2.65	3.31	2.46	5.05	4.57	4.89
Time	3.55	2.86	2.65	4.1	5.33	3.95
Duration in time	2.71	3.61	3.29	4.06	4.53	4.35
Occasion	2.9	3.78	2.29	4.06	4.24	6.15
Period of time	2.18	3.58	2.89	4.95	4.6	4.21
Day and evening	2.4	4.69	3.11	6.25	5.06	5.05
Night	1.72	5	2.24	6.12	4.89	4.1
Measurement of time and relative time	2.12	4	2.47	4.59	5	4.47
Suitability of time	2	2.64	2.35	4.26	4.13	5.05
Frequency	2.25	2.88	2.12	4.78	3.73	4.21
Change and permanence	2.28	1.84	2.82	3.06	3.79	4.37
Movement	4.41	4.22	5.5	5.81	4.63	5.15
Types of movement	4.65	4.29	6.22	4.67	3.06	5.05
Progressive movement	3.76	3	5.41	3.24	4.36	5.45
Rate of movement and swift movement	3.35	4.26	5.76	5.33	4.93	4.79
Slow movement	3.72	4.26	4.15	5.53	4.6	3.52
Movement in a specific direction	3.6	4.23	5.2	5.11	4.24	4.53
Transference	4.18	3.22	5.71	5.33	4.13	4.45
Impulse	4.83	2.91	3.44	3.06	3.94	4.85
Impact	3.82	5.31	6.18	5.74	4.27	2.32
Immobility and restlessness	3.4	3.26	5.85	3.33	4.13	2.16
Operation and influence	2.4	2.4	3.12	3.78	4.42	4.65
Action	4.24	3	4.94	4.29	4.4	4.76
Preparation and undertaking	5.33	2.57	4.28	3.72	4.4	5.29
Repetition	3	4.21	4.18	3.82	3.87	3.67

Continuation	3.24	2.79	2.41	4.06	3.75	4.32
Completion	2.6	2.81	3.19	3.5	4.47	6
Cessation	3.11	4.42	4.19	4.58	4.9	3.67
Inaction	2.83	2.71	3.47	2.33	4.14	1.82
Endeavour	4.15	2.18	3.33	2.67	4.07	5.05
Difficulty	3.12	2	3.67	2.47	3.3	2.91
Easiness	2.55	1.94	3.29	2.43	3.67	5.29
Restoration and recovery	3.29	3.5	5	4.17	4	5.82
Advantage	2.3	2.32	2.53	3.59	3.93	5.67
Safety	2.88	2.73	2.56	3.74	3.71	6.26
Prosperity and success	3.65	3	3.06	3.25	3.4	5.88
Disadvantage and harm	3.16	2.56	4.35	3.05	3.7	1.57
Adversity	2.25	2.58	3.24	3.76	3.87	3
Failure	1.9	2.82	3	2.53	4.13	1.9
Vigorous action and degrees of violence	3.4	4	5.18	4.59	3.5	1.63
Slow action and degrees of caution	2.72	2.63	3.62	3.9	4.4	4.1
Behaviour and conduct	4.4	3	5	2.47	4.27	4.68
Ability	3.14	2.79	3.85	2.81	4.2	5.89
Relationship	4.15	3.13	4.18	3.33	4.07	5.65
Contrast	2.7	3.64	2.41	3.78	3.47	4.18
Difference	2.78	2.73	2.89	2.89	3.4	4.38
Uniformity and stereotypicality	1.83	2.42	2.15	3.35	3.25	2.63
Variety	2.88	2.95	1.88	5.59	4.07	5.48
Similarity	2.32	3.14	2.81	3.52	3.95	4.76
Imitation	4.29	3.06	5.17	3.65	3.47	2.71
Accompaniment	2.3	3.84	3.6	4.82	4.5	5.16
Exemplification and specificity	4.56	1.94	3.06	3.65	3.87	5.06
Order	1.76	2.85	2.88	2.72	3.43	5.6
Disorder	2.47	3.36	3.94	3.9	3.6	1.8
Sequence	1.93	3.86	2.48	4.57	4.75	4.76
Number	2.06	4.5	1.92	4.75	3.94	4.55
Mathematics	1.79	3.91	2.12	3.83	5.87	4.75
Computing	4	3.79	3.53	3.94	4.93	5.12
Measurement of length	1.75	5.05	2.94	5.61	5.73	4.26
Measuring instrument	2.27	5.78	3.85	6.25	4.19	4.41
Measurement of weight	2.27	5.95	3.84	5.85	5.33	3.6
Greatness and intensity	2.5	3.11	3.35	4.32	3.4	5
Sufficiency and abundance	2.9	3.19	3.39	4.83	3.67	5.75
Increase in quantity	3.7	4.79	3.9	5.17	4.13	5.15
Moderateness and smallness of quantity	2.27	2.89	3.28	4.53	4.2	3.91
Insufficiency	2.78	1.94	2.88	3.9	4	1.82
Decrease in quantity	2.67	5.13	3.18	4.65	6.2	3.1
Wholeness	3.07	2.4	2.81	3.33	5.2	5.9
Completeness	2.94	2.31	3.82	3.4	4.6	6.2
Incompleteness	1.94	2.5	2.47	3.5	3.85	2.5
Part-whole relationships	3.26	3.84	2.85	4.59	5.13	4.41
Supernatural	2.89	2.09	3.2	2.81	3.1	4.9
Deity	4.27	2.82	2.15	2.65	3.05	5
Angel	6.44	4.44	3.38	4.5	3.87	6.05
Devil	5	2	3.05	3.35	3.6	1.4
Heaven	3.2	2	4.24	3	3.87	6.2
Hell	2.59	2.29	3.43	2.81	3.6	1.6
Mind	4.95	2.35	3.38	1.35	4.38	5.84
Intellect	4.15	1.76	4.12	1.44	3.67	5.57
Consciousness	5	2.71	5	1.94	3.63	5.68
Character and mood	2.8	2.13	4.12	1.35	3.4	4.73
Psychology	3.11	3.14	3.48	2.94	4.69	5.1
Thought	4.35	2.5	3.67	1.12	3.6	5.67
Perception and cognition	3.61	2.28	5	1.39	4.13	5.6
Imagination	3.6	1.56	4.59	1.3	4.18	6
Understanding	4.15	1.94	4.19	1.48	3.87	5.89
Cleverness	3.69	2.53	3.56	1.45	4	6.09
Wisdom	2.7	1.89	3.06	1.5	3.47	6
Reason and argument	3.83	2.95	3.59	2.44	4.67	4.63
Lack of understanding	2.15	2.26	4.15	1.65	3.73	2.21
Stupidity	3.06	2.11	3.12	1.6	3.47	1.63

Foolishness	4.11	2.75	3.53	1.71	3.27	2.79
Intellectual weakness	3.94	2.21	2.83	1.17	4	2.29
Foolish person	6.33	2.89	3.31	2.71	3.8	2.7
Intelligibility	4.61	2.93	4	2.71	3.6	5.62
Memory, commemoration and revocation	5.06	3.06	4.75	1.59	4	5.32
Knowledge and experience	3.67	2.56	4.41	1.83	4.47	6.15
Lack of knowledge	2.05	2.21	2	1.82	4.8	1.95
Truth and falsity	2.55	2.86	2.15	3.47	4.2	4.09
Secrecy and concealment	2.67	2.95	2.94	1.89	5.2	3.3
Belief and opinion	4	2.07	2.47	1	2.73	5.24
Disbelief and uncertainty	2.1	1.89	3.24	1.44	4	2.6
Expectation and prediction	2.75	1.89	2.63	2.22	4	4.74
Philosophy	2.81	1.83	3.18	2.45	3.47	5.1
Attention and inattention	4.78	1.87	3.31	1.65	4.27	4
Enquiry and discovery	5.29	2.69	4.67	3.18	4.27	5.64
Answer and argument	3.8	3.18	3.47	2.78	4.13	4.24
Judgement	3.41	2.93	3.85	1.71	3.27	4.53
Importance	2	2.95	3.43	1.83	3.18	5.4
Unimportance	1.65	1.88	1.94	1.53	4.2	1.79
Esteem	4.41	2.43	3.41	1.35	4.85	6.25
Contempt	3.73	2.33	4.57	1.25	3.8	2.16
Aesthetics and good taste	3.44	2.33	3.29	2	4.47	6.05
Tastelessness	1.87	2.5	2.62	2.69	3.4	2.16
Fashionableness	3.83	2.95	3.63	4.22	3.12	4.6
Beauty and ugliness	2.93	3.89	5.45	3.42	3.6	3.76
Good	2.35	2.44	3.11	2.75	2.93	6.11
Bad	1.9	2.13	3.12	2.33	3.87	1.74
Emotion	2.86	2.11	4.12	1.19	3.9	5.05
Strong emotion and lack of emotion	4.61	3	3.77	1.52	3.44	3.53
Excitement	4.4	3.09	4.53	1.52	3.8	6.4
Composure	3.4	2.44	4.86	1.35	4.07	6
Pleasure	4.4	2.89	4.29	1.35	4.67	6.3
Emotional suffering	3.72	2.42	3.81	1.13	3	1.71
Anger	4.2	2.5	3.76	2.29	3.87	1.79
Love and friendship	4.1	2.75	4.41	1.18	3.35	6.12
Hatred and hostility	3.9	2.71	3.44	1.39	3.64	1.42
Indifference	3.1	1.88	3.5	1.53	3.2	3.2
Pity and pitilessness	3.75	2.63	4	1.52	4.6	2.25
Jealousy	3	2.82	4.15	1.11	4.53	1.62
Gratitude and ingratitude	3.75	2.39	3.06	1.35	4.07	4.74
Pride	3.06	2.47	3.35	1.12	3.47	5.95
Humility	3.41	2.44	3.59	1.22	4.81	5.48
Fear	3.93	1.88	5	1.67	3.93	2.05
Courage	1.95	3.07	3	1.65	3.53	6.47
Will and personal choice	3.15	1.74	3.71	1.47	4.2	5.37
Necessity and inclination	2.73	1.88	2.75	1.19	3.88	4.05
Willingness and desire	4.06	2.39	4.19	1.17	4.13	6
Intention and planning	4.1	3	3.81	1.67	3.64	4.86
Decision-making	3.83	2.64	3.86	1.45	3.47	5
Motivation, demotivation and persuasion	4.37	2.95	3.56	1.85	3.73	5.75
Possessing and lacking	3	3.56	3.89	4.29	3.8	3.21
Wealth	1.7	5.17	3.95	5.78	3.3	5.37
Poverty	2.33	3.06	3.76	4.7	4	1.67
Obtaining	3.6	3.64	4.12	4.41	4.2	5.18
Loss	2.7	2.94	3	3	4.44	1.65
Retaining	3.6	2.68	3.14	3.56	4.8	5.1
Relinquishing	3.56	2.93	3.89	3.29	3.8	3
Giving	3.67	3	3.88	3.28	3.4	5.95
Taking and thieving	4.18	3.88	5.95	5.05	4.45	1.67
Providing and storing	3.39	3.28	4.63	4.61	5.07	5.16
Language	3.3	4.19	4.29	4	4.8	5.65
Languages of the world	3.35	4	2.94	3.06	4.65	5.21
Speaking	5.2	4.21	5.81	4	4	4.89
Study of language	3.1	3.17	3.47	3.78	4.65	5.2
Naming	3.88	2.6	3.86	2.95	4.67	4.58
Expression of opinion	4.95	2.53	4.44	3.39	5	5.5

Refusal	2.85	2.12	3.88	3.1	4.55	3
Curse	2.85	3.69	2.88	3.52	4.31	2.35
Society	4.76	3	3	4.63	3.53	3.95
Kinship and relationship	5.28	1.93	3.15	2.52	4.4	5.58
Kinship group and family	5.8	3.53	5.18	4.63	3.47	5.81
Family members and genealogy	5.56	4.11	3.38	4.7	4.67	6
Marriage	4.25	4.09	4.12	3.5	5.6	5.53
Social communication and culture	5.15	2.32	4.18	3.59	3.43	5.7
Solitude and social isolation	3.27	3.56	3.92	2.78	4.4	3.3
Social attitudes	2.75	1.68	3.06	2.14	3.67	4.2
Social position	4.18	2.77	3.71	3.29	3.87	3.82
Social discord and harmony	4.45	1.68	3.13	3.43	4.32	3.1
Inhabiting and population	5.2	3.88	3.82	5.79	3.85	4.32
Buildings and inhabited places	1.67	6.53	4.82	6.5	4.25	4.64
War and armed hostility	5.35	4.24	5	5.55	3.8	1.63
Military forces	5.87	6	4.05	5.95	4.38	3.05
Weapons and armour	2.37	6.28	5	6.67	5.2	2.63
Air and sea hostilities	4.12	4.58	2.95	4.94	4.33	2
Peace and absence of war	2.83	2.09	2.71	5.14	4.63	6.33
Command and control	3.53	3	4.47	4.06	4.4	3.62
Rule and government	2.4	2.35	2.24	4.29	3.88	3.33
Politics	4.61	3.06	2.15	4.81	3.8	3.29
Political office	2.71	3.94	3.33	5.41	4.47	2.86
Authority, rebellion and freedom	2.6	2.71	3.53	3	3.3	4.09
Punishment	4.55	3.16	4	4.06	3.89	1.79
Law	2.7	2.47	1.94	4.05	4.73	4.53
Morality and immorality	2.76	1.65	3.28	1.47	3.79	4.55
Virtue	3.45	1.58	3.65	1.72	3.47	6.33
Moral evil	3.53	1.47	2.53	1.67	4.13	1.32
Guilt	3.78	1.89	4.25	1.28	4.06	2
Licentiousness	4.65	2.36	3.82	2.62	3.85	1.9
Education	4.53	3.81	3.94	3.24	3.9	6.14
Faith	3.65	1.86	2.76	1.48	3.25	5.29
Religious groups	5.22	4.58	4.65	5.11	3.93	3.77
Church government	5.94	4.6	3.71	4.75	4.47	2.56
Worship	4	2.27	4.5	2.86	4.07	4.29
Religious places and artefacts	2.87	5.18	4.12	5.76	4	5.25
Communication and disclosure	4.47	3.42	4.71	3.61	3.73	5
Representation	3.87	4	3.89	4.33	4.4	5.05
Signs and signals	1.45	5.75	4.12	5.44	3.88	4.5
Insignia and heraldry	1.59	5.06	2.7	5.06	4.2	4.74
Information and advertising	2.47	4.37	2.4	3.17	3.87	4.2
Records and monuments	2.47	5.86	3.47	6.1	4.8	5.65
Writing	4.47	4.33	5.76	5.56	4.79	4.86
Printing and publishing	4.12	4.93	2.12	6.39	4.2	4.55
Reading	3.29	3.47	4.71	2.53	4.31	5.95
Books	1.25	6.72	3	6.17	4.41	5.65
Journalism	3.33	4.13	4	4.8	4.6	3.71
Television and broadcasting	2.05	5.11	2.65	6.57	4.9	4.82
Correspondence and telecommunications	3.8	4.31	3.82	3.89	4.21	4.32
Travel and journeys	4.71	4.84	5.5	5.05	4	5.86
Transport	4.55	5.21	5.25	6.33	4.53	4.44
Railways	2.29	6	3.53	6.76	4.93	4.29
Navigation	2.33	3.74	4.06	4.8	3.93	4.58
Air and space travel	4	5	4.63	6.24	5.47	5.42
Occupations and work	4.45	4.68	4.65	5.88	4.33	4.85
Industry	3.2	2.8	4.65	6.3	3.33	4.45
Workers and workplaces	5.3	5.41	4.24	6.15	5.27	4.55
Tools and equipment for work	2.4	6.24	4.38	6.5	3.87	5.14
Containers	1.6	5.93	3	6.56	4.88	4.18
Machines	3	6.09	3.48	6.82	4.53	4.43
Materials and fuel	2.39	5.71	2.47	6.1	3.82	4.24
Trade and commerce	3.15	3.67	4	5.3	4.07	4.55
Money	2	5.29	2.56	6.56	4.33	5.05
Leisure and games	4.18	2.88	4.22	4.1	4.88	5.37
Social events	4.9	3.53	3.92	4.83	4.69	4.47

The arts	4.05	3.5	4.45	3.33	4.33	5.95
Music	4	4.33	4.67	5	4.47	6.45
Visual arts	3.76	3.44	4.08	4.25	2.93	6
Literature	2.18	5.12	3.75	6.05	4.27	5.55
Performance arts and film	4.05	4.28	3.54	4.5	4	5.37
Sport	5.22	4	5.29	6	4.45	4.79
Types of sport	4.05	5.11	5.17	6.16	4.1	4.9
Dance	4.83	5.69	6.3	5.56	3.47	5.86