Table 1S. Developed classification of cue – associate relation types with speech formulas and examples

Relation Type	Subtype	Speech Formula	Examples
1. Formal-based	Phonological (PHON)	Is there a similarity in sound, but not in	мир 'world'' –
		meaning?	nup 'feast''
	Morphological	Is there a similarity in the form?	person 'человек'
	(MORPH)		– люди 'people',
			friend '∂pyz' -
			friendship
			'дружба'
2 Meaning-based			
2.1. Language-based (LANGUAGE)			
	2.1.1. Syntagmatic (cue	Is this a phrase?	
	and associate are of		
	different part-of-speech)		
	- Predicative (PRED)		душа – раду-
			emcя "soul is
			happy"
	- Attributive CHAR		бабушка – ста-
			рая "granny —
			old"
	- Object (OBJ)		встретить –
			тебя "to meet —
			you"

	- Adverbials (ADV)		dunami
	- Advertials (ADV)		думать – ycepдно "think — hard"
	2.1.2. Paradigmatic (cue and associate are of the same part-of-speech)		
	- General synonymy (SIMIL)	A is B, A supposes B	настоящий — искренний "real — sincere"
	- Hyponyms (HYP)	A is part of B and the other way around	дерево – клен "tree — maple"
	- Antonyms (ANT)	A is the opposite of B	ненавидеть — любить "hate — love"
2.2. World-knowledge based (THEMATIC)	Cue and associates are the components of the same situation (FRAME)	A - where? – B A - when? in what period? B A often has B (B is typical, common, characteristic of A)	бабушка — де- ревня "granny — village" бабушка — лето "granny — summer"
			бабушка – мор- щины "granny — wrinkles"

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Cause-effect relationships	A is the effect of B/thus B	обещать –
between cue and associate	A is the cause of B/ because B	надеяться
(CAUSE)		"promise —
		hope"
		stupid — small
		"глупый – ма-
		ленький"
Functional relations	role of A IN B / A in order to B – or the	глаз – видеть
between cue and response	other way around	"eye — see"
(FUNC)	-	
,	A is the source of B / the source of A is B	мама – жизнь
		"mum — life"
An associate contains a	A manifests B	granny — love
reference to some mental	A causes B	"бабушка – лю -
category related to a cue	A triggers B	бовь"
word (MENTAL)		
,		mum — love
		"мама – лю -
		бовь"
Response is an attitude to	B is the emotional assessment of A	war — terror
a cue word (AFFECT)		"война – ужас"
Stimulus and a response	A is B for respondent	плохо – болеть,
are contextual synonyms	A is, for example, B	"badly — to be
or a response illustrates a		ill"
cue word (SPECIFIC)		

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			счастье— дети "happiness— children"
			want — dream "хотеть – меч- тать"
	Precedents, i.e., allusions to literature, art, etc., symbols (PRECED)	A and B belong to one cultural artefact	мир – голубь "peace — dove"
			дерево — война и мир "tree — war and peace"
INDIV	None of the annotators could explain or classify as any type of the cue – associate relationships	None of the above	help — white "помощь – бе- лое"
			a lot — of peace "много – мира"
			enemy – black hole "враг – черная дыра"