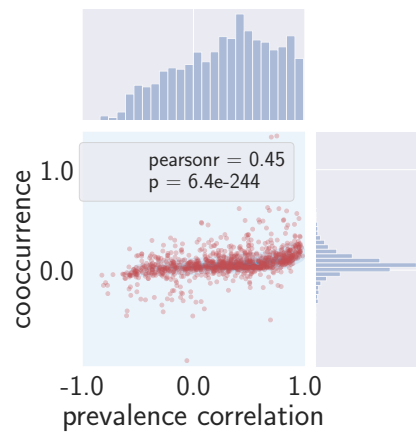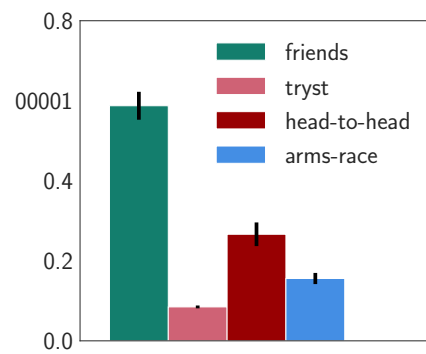# Idea relations

February 11, 2021

1 Overall distributions

(a) Joint distribution between PMI and prevalence correlation.

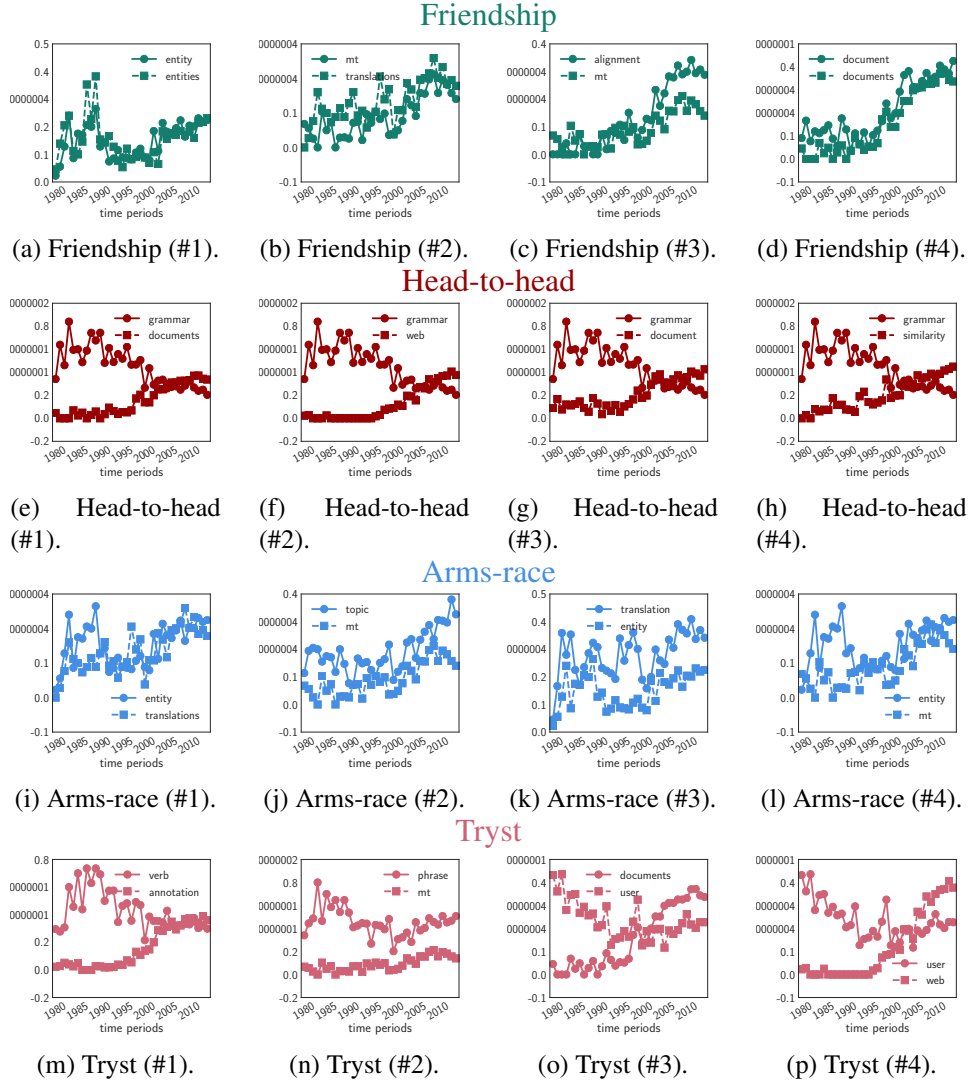(b) Strength of the top 25 pairs in each category.

2 Top relation plots

Figure 2: Top four figures in each category, more careful investigation is required to interpret these results. Also explore further down the list (e.g., top 50) to get a better understanding.

3 Relation tables

Table 1: Relation between ideas. This table shows top pairs. In the table/ directory, there is another file with top 50 pairs, which is worth further investigation.

combined	pmi	correlation	first	second
			friends	
0.999	1.335	0.748	entity	entities
0.925	1.324	0.699	mt	translations
0.902	1.038	0.869	alignment	mt
0.825	0.906	0.912	chinese	mt
0.821	1.045	0.786	alignment	translations
0.656	0.692	0.948	alignment	chinese
0.652	0.846	0.771	answer	questions
0.628	0.663	0.946	annotated	annotation
0.617	0.648	0.951	documents	web
0.596	0.796	0.749	chinese	translations
			head-to-head	
0.769	-0.919	-0.837	grammar	documents
0.556	-0.702	-0.792	grammar	web
0.513	-0.675	-0.760	grammar	document
0.447	-0.615	-0.726	grammar	similarity
0.277	-0.489	-0.565	argument	chinese
0.273	-0.453	-0.601	rule	documents
0.258	-0.489	-0.529	alignment	argument
0.242	-0.406	-0.596	argument	mt
0.234	-0.282	-0.832	grammar	precision
0.231	-0.491	-0.471	np	documents
			arms-race	
-0.356	-0.702	0.507	entity	translations
-0.343	-0.496	0.692	topic	mt
-0.209	-0.434	0.482	translation	entity
-0.205	-0.715	0.286	entity	mt
-0.196	-0.301	0.650	topic	translations
-0.190	-0.226	0.839	annotation	mt
-0.181	-0.297	0.610	tag	translations
-0.171	-0.290	0.589	translation	topic
-0.165	-0.312	0.529	languages	entities
-0.153	-0.212	0.724	annotation	translations
			tryst	
-0.122	0.211	-0.575	verb	annotation
-0.121	0.456	-0.266	phrase	mt
-0.110	0.295	-0.373	documents	user
-0.107	0.403	-0.266	user	web
-0.106	0.189	-0.563	user	automatically
-0.102	0.344	-0.295	document	user
-0.095	0.158	-0.601	argument	annotation
-0.094	0.178	-0.530	rule	mt
-0.091	0.244	-0.372	annotation	parser
-0.086	0.199	-0.433	annotated	verb