

Lexical preferences in the Perfect construction

Martijn van der Klis
 UiL OTS, Utrecht University



The PERFECT (e.g. “Mary has read Alice”) forms an interesting category both within languages and cross-linguistically. In this study, we aim to find verbs appearing more or less frequently than expected in the PERFECT construction. We use a collocation analysis following Stefanowitsch and Gries (2003).

As Goldberg et al. (2004) state, high-frequency collexemes could facilitate language learners to note correlations between meaning of the word and the construction itself. We set out to find whether these collexemes exist for English, and whether there is any variation in genre or across languages.

Genre variation (BNC)

data: BNC, >100 occurrences, -be, have, got

Spoken

Fiction

Newspapers

Academic

lemma	#perfects	#total	logpvF	lemma	#perfects	#total	logpvF	lemma	#perfects	#total	logpvF	lemma	#perfects	#total	logpvF
hear	1078	5198	∞	hear	966	14127	247,2	become	679	5880	67,4	show	2001	16202	290,8
see	2547	32843	251,5	see	1911	47716	197,9	appoint	165	722	52,9	report	554	3588	117,5
finish	516	2589	209,0	happen	564	8625	135,3	agree	330	2304	52,2	develop	771	6799	92,8
lose	511	2659	199,6	change	343	4348	103,9	decide	350	2661	46,9	argue	684	6019	82,7
change	489	3364	139,7	finish	287	3167	101,2	change	295	2141	43,5	prove	409	2799	79,7
happen	553	5967	78,8	meet	455	7453	99,1	launch	231	1484	42,8	become	1120	12701	68,8
decide	242	1751	65,3	lose	327	4959	79,4	sign	235	1535	42,3	suggest	877	9763	57,1
mention	232	1747	59,4	forget	278	4650	59,0	criticise	125	583	37,3	change	437	3990	48,9
make	1211	19656	58,1	tell	963	29214	56,4	prove	263	2031	34,3	demonst.	283	2297	40,8
notice	160	1008	51,4	learn	197	2952	48,9	lose	495	4930	33,4	evolve	117	541	39,6
live	118	3693	-1,3	keep	136	12614	-13,0	claim	127	3764	-10,1	base	105	5780	-37,7
play	121	3986	-2,0	take	498	35941	-14,2	hold	147	4652	-14,8	give	678	21020	-39,5
talk	214	7950	-7,3	ask	263	21724	-15,5	use	191	5662	-14,9	allow	103	6258	-46,0
go	2397	71338	-10,3	turn	137	17916	-36,8	go	763	17900	-16,8	involve	126	7018	-46,3
keep	108	6822	-26,4	feel	125	24245	-79,5	keep	139	4708	-17,7	include	128	7340	-50,3
look	325	20496	-78,7	want	128	27022	-95,5	run	133	4974	-23,2	mean	119	7087	-50,8
say	1341	63330	-136,8	know	426	55008	-112,5	know	150	8009	-63,9	follow	132	8474	-65,9
do	3996	171766	-317,4	think	322	46886	-113,3	look	100	7320	-79,5	provide	300	14316	-75,6
think	203	52349	-∞	do	1501	141078	-160,8	do	797	27762	-112,5	know	129	10438	-100,9
know	237	61719	-∞	say	563	109254	-∞	say	435	53576	-∞	do	629	44497	-∞

Variation between languages (EuroParl)

data: EuroParl (year 2000), >50 occurrences, -be, have, got

English

French

Dutch

lemma	#perfects	#total	logpvF	lemma	#perfects	#total	logpvF	lemma	#perfects	#total	logpvF
hear	303	965	84,6	voter	803	2030	261,9	gebeuren	197	207	127,9
mention	360	1568	60,3	dire	1632	8220	147,6	overtuig.	258	349	110,5
table	247	928	53,9	décider	442	1202	130,3	leiden	184	222	94,4
receive	269	1075	52,9	recevoir	341	905	104,1	indienen	394	759	93,4
show	300	1358	46,8	déclarer	332	919	95,6	baseren	251	431	73,2
prove	157	577	35,8	déposer	260	645	87,1	besluiten	246	473	58,7
say	936	7260	27,4	évoquer	306	941	75,5	bekennen	188	333	52,2
become	317	1852	27,2	souigner	444	1943	56,6	bereiden	205	417	44,1
reach	216	1125	25,0	traire	99	170	51,9	verrichten	167	312	42,3
lose	120	541	19,4	accomplir	205	632	50,6	aantonen	117	178	42,1
continue	53	1949	-28,9	considérer	58	1811	-30,0	geven	299	2652	-25,6
apply	54	1974	-29,1	souhaiter	70	2518	-47,7	zien	156	1887	-37,4
use	104	2880	-29,8	constituer	66	2608	-53,3	zorgen	72	1252	-40,6
go	153	3789	-32,6	croire	55	2462	-55,4	stellen	332	3283	-43,0
provide	96	2865	-33,1	penser	56	4627	-143,5	komen	458	4157	-43,3
include	84	2760	-35,9	savoir	78	5488	-159,4	maken	475	4280	-43,6
consider	52	2191	-36,8	falloir	86	6083	-177,3	houden	195	2456	-52,2
support	84	3052	-44,5	vouloir	164	9820	-266,1	blijven	63	1730	-80,8
do	734	15177	-91,9	pouvoir	641	18449	-285,1	vinden	108	2539	-107,2
like	89	6813	-169,0	devoir	229	20524	-∞	gaan	137	5086	-284,4

Legend

lemma: canonical form

perfects: number of occurrences of the lemma in the PERFECT construction

total: total occurrences of the lemma (as a verb) in the corpus

logpvF: log-transformed p-value on the Fischer exact test:

$$p = \frac{\binom{a+b}{a} \binom{c+d}{c}}{\binom{a+b+c+d}{a+c}}$$

	PERFECT	~PERFECT
lemma	a	b
~lemma	c	d

Conclusion

Across genres, we find inchoative verbs like “change”, “become” and “evolve” to appear more frequent. Also, telic verbs like “win” and “lose” are attracted. Verbs of perception (“see”, “hear”) are more frequent in the spoken and fiction register, while we find reporting verbs (“show”, “report”) typically in the PERFECT construction in academic prose. Cognitive state verbs like “think” and “know” are typically repelled.

Across languages, the picture is not clear. We do find cognitive state verbs to be repelled in French as well, but we find “say” and “dire” as attracted in both French and English, which goes against our monolingual analysis. All in all, the role of the lexicon in the PERFECT is not to be dismissed: not all verbs are equally willing to appear in a PERFECT, and these dissimilarities could well prove to be of interest for getting closer to a semantics of the PERFECT.