Distributional evidence for word class: Corpus data

Goal: To use corpus data to explore patterns of distribution for distinguishing word classes

- KOTONOHA (少納言/Syoonagon) corpus the Balanced Corpus of Contemporary Written Japanese (BCCWJ) [https://shonagon.ninjal.ac.jp/] [how to use]
- Can narrow corpus search by year range or by text genre; all subcorpora included here

About the corpus counts reported here:

- Collected on February 26, 2019
- The Syoonagon corpus searches for exact-string matches only
- "Control cases" and/or percentages are provided below because raw numbers of hits are usually not useful; overall frequencies vary widely for different lexical items
- (1) If a word is immediately followed by case markers -ga/-o/-ni, is it guaranteed to be a N?

	raw hits	% of total
行ったが itta ga 'go-past' + ??	348	93.0%
行ったを itta o	0	0%
行ったに itta ni	26	7.0%
total	374	

	raw hits	% of total
自転車が zitensya ga 'bicycle NOM'	279	19.5%
自転車を zitensya o	591	41.3%
自転車に zitensya ni	560	39.2%
total	1430	

- -ga: nominative marker for N, or 'but, although' (which can follow V and A)
- -ni: multiple uses, not all of which require it to follow N
- -o: accusative marker for N
- (2) If a word is preceded by a demonstrative such as *sono* 'that', is it guaranteed to be a N?

	raw hits	% of total
高いです takai desu 'high copula'	649	95.2%
その高い sono takai	33	4.8%
total	682	

	raw hits	% of total
自転車です zitensya desu 'bicycle copula'	18	54.5%
その自転車 sono zitensya	15	45.5%
total	33	

• An adjective or other modifier can intervene between a demonstrative and its N

- (3) X no N: What word class is X?
 - ・ "の報告": Examples from search results (報告 hookoku 'report')

故障の報告	故障	kosyoo	'breakdown, failure'
<u>松村さん</u> の報告	松村さん	Matumura-san	personal.name-HONORIFIC
他 の報告	他	hoka	'other'
協会など の報告	協会	kyookai	'association'
	など	nado	'etc.; things like that'
<u>次長から</u> の報告	次長	zityoo	'vice-chief; assistant manager'
	から	kara	'from'
大坂へ の報告	大阪	Oosaka	'Osaka' (place name)
	^	e	'to, toward'

(4) 'i-adjectives' and 'na-adjectives' with forms of the copula: Are the patterns different?

(oops! this is old data from Google — needs updating)

	raw G-hits	% of total
高いです takai desu 'high cop-fml'	45,800,000	54.1%
高いだ takai da COP-INFML'	1,030,000	1.2%
高いでした takai desita cop-past-fml'	3,680,000	4.3%
高いだった takai datta cop-past'	70,600	0.1%
高かったです takakatta desu 'high-PAST COP-FML'	34,000,000	40.2%
高かっただ takakatta da COP-INFML'	82,500	0.1%
total	84,663,100	

	raw G-hits	% of total
静かです sizuka desu 'quiet cop-fml'	2,320,000	7.7%
静かだ sizuka da	2,590,000	8.6%
静かでした sizuka desita	21,600,000	72.0%
静かだった sizuka datta	3,500,000	11.7%
_		
_		
total	30,010,000	

Key to color codes:

very rare	0-4.9%
rare	5- 14.9%
frequent	15-64.9%
very frequent	65– 100%