Two-dimensional clusters in grammatical relations

Mats Rooth

1 Introduction

If someone asked me to explain the word "product" as used below, I might say that it refers to things like drugs, cars, and software which are developed, produced, sold, and used.

(1) The company announced a new product.

While it is drugs, cars and software which are serving as examples of products, the list of verbs has a role as well. If I merely said that products were things like drugs, cars, and software, someone would hardly be in a position to say whether toothpaste counts as a product. And a definition of "product" as simply "something which is produced" gets a more general sense of the word, including things such as toxic waste produced by an industrial process, and carbon dioxide produced by human respiration.

The explanation of "product" by multiplied example involves the implicit claim that drugs, cars, and software are all developed, and all produced, all sold, and all used. Not only is this true, but in a large enough text corpus we can find examples examples of drugs, cars, and software being *described* as being developed, produced, sold and used, in all combinations:

(2) a. 19516892 Their goal is to develop new drugs to compete in world markets

- b. 44435981 Genzyme sells specialty chemicals used by other companies to produce drugs, diagnostic tests and other products and performs contract research for drug companies.
- c. $_{44222175}$ " We absolutely must be in the U.S. market by 1992 , " he says , " to sell the new drugs our research labs will be producing . "
- d. 35971334 Milton Bass, a New York attorney for Zenith, asserted that the appeals court's ruling will spur civil suits against other drug companies that have " conducted campaigns to frighten doctors and others not to use generic drugs."

- (3) a. 56955552 The Europeans' problem: the huge sums it takes to develop new cars and bring them to market.
 - b. $_{47029320}$ The eight major auto makers didn't produce any cars last week because of the holidays .
 - c. $_{\rm 17150902}$ " This year , for the first time , we've had to work to sell the cars , " says Michael J. Jackson , a Saab dealer in suburban Washington , D.C .
 - d. 61132866 A halt to imports of sedans , plus a requirement that top officials use only Chinese-made cars .
- (4) a. 12402911 " This settlement paves the way for the competition to develop software in the operating system arena . "
 - b. ⁵³⁹⁹⁸⁶¹⁶ He guessed it will take Microsoft six to 12 months to produce the software based on the Sybase technology.
 - c. 34138820 The company operates retail stores that sell computer software
 - d. 17518485 They are writing a book to show campaign managers how to use Lotus 1-2-3 software to analyze local voting habits .

These examples are from a corpus of Wall Street Journal newspaper stories, containing roughly 60 million word-like tokens (Liberman [Liberman, 1992]). The number at the beginning of an example indicates its position in the corpus.

This combinatory pattern evident in these sentences is of independent interest, because it suggests a simple way of capturing selectional patterns relating verbs to their objects, or lexical pairs participating in other grammatical relations. In a number of problems arising in computational linguistics, we need to be able to decide whether a given phrase is an appropriate filler for a grammatical relation assigned by another word. This often comes down to a question of semantic compatibility between the head of the filler phrase and the semantic role associated with the grammatical relation. For instance, in the sentence below, *resulted* and *approved* both have morphological readings as both tensed verbs and past participles.

(5) The charge resulted from a settlement approved yesterday.

The morphological indeterminacy results in syntactic ambiguity. In the first structure in the first row of table 1, *charge* is the subject of *resulted* and *approved* a postmodifier of *settlement*. In the second analysis, *resulted* is a postmodifier of *charge*, and *charge* is the subject of *approved*. Deciding between the syntactic analyses below comes down, at least in part, to a matter of semantic selection. In choosing an analysis, it would be useful to know (among other things) whether *settlement* is a good object for *approve* (it is) and whether *charge* is a good subject for *approve* (it is not). (Note that in terms of the underlying role assigned, the postmodified noun phrases are equivalent to objects of their modifiers.) The sentence below has the same ambiguity,

Table 1: First row: correct and incorrect syntactic analyses for sentence (x). Second row: incorrect and correct syntactic analyses for sentence (y).

and in this case it is the second syntactic analyis which is correct.

(6) Private-sector union contracts signed in the third quarter granted slightly lower wage increases.

Suppose that we wanted to attack such problems using information from a training corpus. Since thousands of verbs and nouns are involved, we can not conclude that a given verb-object pair is impossible, simply because we can not find it in the corpus. Take for instance a slightly more uncommon product verb such as *export*, and a more uncommon product noun, such as *engine*. Although the verb-object pair *export engine* is intuitively plausible, it was not detected at all by the method described below in a six million word training corpsus. A selection model which generalizes among words has the potential of solving the problem, since while the verb export *export* does not occur with *engine*, it occurs with other product nouns, and *engine* occurs with other product verbs.

The purpose of this paper is to develop a mathematical and computational model which captures the notion of a selectional dependency between a set of verbs and a set of nouns, or more generally two sets of words participating in a

	asset	average	bit	pond	cent	cost	debt	dividend	foot	interest	mark	pence	point	price	rate	rating	security	share	stake	stock	tax	unit	value	yen
acquire	16		1			1	2			35							5	77	87	29		19		
boost		1		1		2	1	18		1	1		1	39	21	5		28	59	10	1		19	1
buy	16	2	2	48			2			53	1						36	348	107	190		29		2
climb					8	1					2	10	13	1										
cut						104	10	11					1	66	64	11			5	2	30		5	
decline		2	3		18	2	1						13	9	16			1		3				
drop	1	1	1		19				2		1	2	30	9	6	5								7
dump	1			3													2	10		10				
fall		2	1		132				1		2	14	171	38	33					1				28
gain					20					3	2	11	62		9			25	4		25			28
hold	18			7	1				1	22				3			5	68	121	30		3	1	
increase	6	3			2	25	5	26		8		1	3	26	36	2	1	36	75	2	11		16	
jump		2			3						2	8	9											
lower						20	2			1				23	83	55			16	1	2		4	
plunge					3						2		14	4						2				
purchase	8			5			2		1	17							6	95	24	20		6		
push	1	2		2		1				1			3	44	20		1	4		16	1	1	2	1
raise						23	5	28		8	5			131	149	26		5	74		46		11	1
reduce	9	1			1	76	105	3		5			1	22	55	8		9	41	2	26		21	
retain	1							1		13								17	21	1		3	1	
rise		13	9		136	18			2	2	3	52	125	18	19			1		1		1	2	22
sell	114	2	1	40			6			72	2		1	12	8		48	243	144	149		104		2
slash						17	4	9						20	6				1	1	3		3	
trade	1	1		2	2	2								9			7	22	2	37		5		1

Table 2: Frequency counts for 24 verbs and 24 object heads.

grammatical relation. Section 2 describes a simple categorical selection model, which in section 3 is given a probabilistic twist. Locally optimal probabilistic models can be generated by an incremental procedure similar to Baum-Welch reestimation of hidden Markov models. In section 4 we look at results for a reasonably large sample of verbs an nouns. Section 5 discusses applications of the probabilistic model, giving preliminary results for a parsing problem.

2 Categorical selection types

Table (2) is a matrix of frequency counts for verb-object occurrences of twenty-four verbs and twenty-four nouns. The table is a sub-part of a verb-object matrix derived from an approximately 6 million word sample of the Wall Street Journal, parsed by Donald Hindle with his Fidditch parser.¹ I extracted verb-noun pairs with a Lisp program from list representations of parses, and mapped them to uninflected forms using a full form word list. The resulting list contained 84182 non-zero frequency counts. The frequency matrix was reduced by eliminating rows (corresponding to verbs) with fewer than five non-zero entries, and subsequently eliminating columns with fewer than five non-zero entries. This gave a matrix indexed by 992 verbs and 1027 nouns, containing 55251 non-zero entries. The verbs and nouns in the 24×24 sub-table were selected by hand for illustrative purposes.

Re-arranging the rows and columns in the small table brings out a dependency between the rows and columns. In table 2, most of the non-zero entries

¹The parser is described in [Hindle, 1983] and [Hindle, 1993]. Similar verb-object data is discussed in [Church et al., 199x].

	asset	bond	interest	security	share	stake	stock	unit	average	bit	cent	foot	mark	pence	point	yen	cost	debt	dividend	price	rate	rating	tax	value
acquire	16		35	5	77	87	29	19		1							1	2						
buy	16	48	53	36	348	107	190	29	2	2			1			2		2						
dump	1	3		2	10		10																	
hold	18	7	22	5	68	121	30	3			1	1								3				1
purchase	8	5	17	6	95	24	20	6				1						2						
retain	1		13		17	21	1	3											1					1
sell	114	40	72	48	243	144	149	104	2	1			2		1	2		6		12	8			
trade	1	2		7	22	2	37	5	1		2					1	2			9				
climb											8		2	10	13		1			1				
decline					1		3		2	3	18				13		2	1		9	16			
drop	1								1	1	19	2	1	2	30	7				9	6	5		
$_{\mathrm{fall}}$							1		2	1	132	1	2	14	171	28				38	33			
gain			3		25	4					20		2	11	62	28					9		25	
jump									2		3		2	8	9									
rise			2		1		1	1	13	9	136	2	3	52	125	22	18			18	19			2
plunge							2				3		2		14					4				
boost		1	1		28	59	10		1				1		1	1	2	1	18	39	21	5	1	19
cut						5	2								1		104	10	11	66	64	11	30	5
increase	6		8	1	36	75	2		3		2			1	3		25	5	26	26	36	2	11	16
lower			1			16	1										20	2		23	83	55	2	4
push	1	2	1	1	4		16	1	2						3	1	1			44	20		1	2
raise			8		5	74							5			1	23	5	28	131	149	26	46	11
reduce	9		5		9	41	2		1		1				1		76	105	3	22	55	8	26	21
slash						1	1										17	4	9	20	6		3	3

Table 3: The same counts in another order.

are in the three blocks on the diagonal. We can think of the block organization as capturing three semantic selectional types within this part of the verb-object grammatical relation. The first block corresponds to a notion of exchange of financial instruments or ownership interests. The second block involves measurement of a scalar motion by some dimensioned quantity, and the third block involves change in some scalar quantity, such as a stock price. To represent the blocks, we need not re-order the matrix: we can equate a block with a pair of a subset of the verb set and and a subset of the noun set. A closer examination shows that it is not reasonable to insist that the noun sets for different blocks be disjoint. The noun *stake* occurs freqently with the verbs of the third block (e.g. *boost, increase, raise, and reduce*), as well as with the verbs of the first (e.g. *acquire, buy, sell, and trade*). Here are some example sentences:

- (7) a. 1727999 Most of Japan's big computer companies hold a 1% stake in Ascii, and Mitsui & Co., one of Japan's largest trading companies, plans to boost its stake to 5%.
 - b. 1266211 Though Koito is resisting, and Mr. Pickens has announced plans to increase his stake to 26%, he maintains "there's nothing hostile" about his investment.
 - c. 1690314 Ford will raise its Jaguar stake to the maximum 15% after the 30-day waiting period expires, the Ford executive said.
 - d. 2081122 The sales reduce the group's stake to 740,500 shares.
- (8) a. 5786677 Galesi Group said it is seeking to acquire Lone Star Technologies Inc.'s stake in American Federal Bank for \$58 million.

- b. 1024554 The Italian financier is close to announcing that he's setting up a holding company to buy controlling stakes in Hungarian companies, according to Hungarian sources.
- c. 2668376 Domino's Pizza owner Thomas Monaghan may sell his 97% stake in the chain, which is the nation's largest pizza delivery company.
- d. 4287292 One possibility would be for the U.S. group, formally called Newgateway PLC, to trade its troublesome stake to Isosceles for certain Gateway assets.

The reason for the overlap is that a stake (say in a company) is both something which can be bought or sold, and a scalar quantity which can be increased or decreased.

The verb *increase* is in principle a symmetric example, though this is not really obvious in these data. It occurs both with objects denoting a changing scalar quantity, and with a objects (or pseudo-objects) measuring that change:

- (9) a. 6664778 Jack W. Forrest, Environmental Systems president and chief executive officer, said the change increases the company's effective tax rate to about 35% from 20%.
 - b. 1891048 If Mr. Wanniski's theory is right, that a tax cut increases the value of capital assets held by owners, wouldn't that increase also represent a rather dramatic and totally unjustified inflation of those values?
 - c. 4102768 Georgia Gulf said it increased the exercise price of the rights to \$120 from \$50.
 - d. 3578950 "It has increased the level of caution in the market," said the Chicago trader.
- (10)a. 3337850 Economists said the August civilian unemployment rate will have increased 0.1 percentage point to 5.3%.
 - b. 3854070 Unleaded-gasoline futures were mixed, although the September contract increased 0.22 cent to settle at 54.15 cents a gallon.

In the latter group, the changing scalar quantity is realized as subject.

Given two vocabularies V and N, we define a selection type as a pair $\langle V', N' \rangle$, where $V' \subseteq V$ and $N' \subseteq N$. A selectional model is simply a set of selectional types, and given what was said above, we should not impose any requirement of non-overlap for the noun sets or verb sets of a selection model.

A reasonable selection model for the 24×24 frequency matrix is:

Acquire buy dump hold purchase retain sell	$\left. \left. \left. \left. \begin{array}{c} \text{asset bond} \\ \text{interest security} \\ \text{share stake} \\ \text{stock unit} \end{array} \right. \right\} \right\rangle$
<pre>{ climb decline drop fall gain jump rise plunge increase</pre>	$\left. \left. \left. \left. \left. \begin{array}{l} \operatorname{average \ bit \ cent} \\ \operatorname{foot \ mark \ pence} \\ \operatorname{point \ yen} \end{array} \right. \right. \right\} \right\rangle \right.$
<pre>{ boost cut increase lower push raise reduce slash</pre>	<pre> }, { cost debt dividend price rate rating tax value share stake stock } </pre>

3 Probabilistic selection types

The above construction, because it is categorical, encodes no information about the relative frequency of, for instance, *buy* and *dump* as verbal realizations of the first selectional type. In applications, having access to graded information is useful, in that it allows the large numbers of analyses — such as syntactic parses — to be ranked. Futhermore, once we get beyond simple examples, it is not clear that membership in selectional patterns should be considered discrete.² Among ways of introducing graded distinctions, probabilistic models are appealing, because they have the potential of telling us, in complex situations, how a number of graded distinctions are to be combined. The simple recipe for turning a categorical model into a probability model is replace characteristic functions of sets with probability distributions. In the present case, we redefine a selection type as a pair of discrete distributions, one on the verbs and one on the nouns:³

$$\langle \lambda v p_v^{\tau}, \lambda n p_n^{\tau} \rangle \quad \sum_{v \in V} p_v^{\tau} = 1 \quad \sum_{n \in N} p_n^{\tau} = 1$$

The function $\lambda v p_v^{\tau}$ maps a verb to a number in the interval [0, 1], meeting the constraint that the set of verb probalities sums to one, and similarly for the nouns. In order to use this notation, we must assume that the verb, noun

²Furthermore, I did not say what makes one categorical selectional model better than another, and how they are to be discovered computationally. I have experimented with an incremental search for selection models, using a Solomonoff-Kolmogoroff-Chaitin measure to evaluate the combination of the complexity of the model with the complexity of describing the data matrix given the model. I will not describe this method here, since the search was computationally expensive, and the results only moderately encouraging.

 $^{^{3}\}lambda v p_{v}^{\tau}$ generates a probability distribution $\lambda X \sum_{v \in X} p_{v}^{\tau}$ measuring subsets of V. In the text, I surpress the distinction between discrete probability distributions and their generators.

· [· · · ·	type	1.204			2.315	type 3.481					
fall	.344	point	.364	raise	.265	rate	.238	sell	.319	share	.340
rise	.343	cent	.281	reduce	.189	price	.207	buy	.288	stake	.198
gain	.128	pence	.080	cut	.162	cost	.143	hold	.095	stock	.172
drop	.059	yen	.071	lower	.109	stake	.108	acquire	.093	interest	.078
decline	.038	price	.060	increase	.100	debt	.071	purchase	.063	asset	.065
climb	.028	rate	.059	boost	.073	tax	.063	increase	.030	unit	.059
jump	.020	tax	.021	push	.036	rating	.059	trade	.027	security	.038
plunge	.019	average	.017	slash	.034	dividend	.050	boost	.024	bond	.037
increase	.006	cost	.016	sell	.010	value	.044	retain	.019	debt	.004
push	.005	bit	.011	decline	.009	interest	.006	gain	.011	price	.002
trade	.003	mark	.011	drop	.006	stock	.003	dump	.009	average	.002
reduce	.002	foot	.004	trade	.005	mark	.003	push	.009	yen	.002
boost	.001	stock	.002	hold	.002	average	.002	reduce	.008	bit	.001
sell	.001	value	.002	retain	.001	asset	.002	raise	.003	mark	.001
cut	.001	interest	.002	acquire	.001	yen	.001	decline	.001	foot	.001
hold	.001	unit	.001	gain	.000	share	.000	rise	.001	value	.000
raise	.000	asset	.000	rise	.000	point	.000	plunge	.001	rate	.000
buy	.000	share	.000	plunge	.000	cent	.000	drop	.000	point	.000
slash	.000	rating	.000	fall	.000	pence	.000	slash	.000	cost	.000
lower	.000	stake	.000	climb	.000	bond	.000	lower	.000	cent	.000
acquire	.000	debt	.000	purchase	.000	security	.000	cut	.000	dividend	.000
purchase	.000	dividend	.000	buy	.000	bit	.000	fall	.000	tax	.000
retain	.000	security	.000	jump	.000	unit	.000	jump	.000	pence	.000
dump	.000	bond	.000	dump	.000	foot	.000	climb	.000	rating	.000

Table 4: Parameters of a selection model.

and type sets are (or have been rendered) disjoint: we do not want to identify the verb probability $p_{\text{increase/V}}^{\tau}$ with the noun probability $p_{\text{increase/N}}^{\tau}$. We also add a probability distribution over the types. Using an initial segment of the natural numbers to index the types, a probabilistic selection model for V and N with k types then consists of a probability distribution $\lambda \tau p_{\tau}$ over the set of integers $\{1, ..., k\}$ (= T), and for each type τ in $\{1, ..., k\}$, a pair of probability distributions $\langle \lambda v p_{\tau}^{\tau}, \lambda n p_{\eta}^{\tau} \rangle$, as described above.

Derivatively, for any type τ we construct a probability distribution on $V \times N$ as a product :

 $p_{v,n}^\tau = p_v^\tau p_n^\tau$

We constuct a probability distribution on $T \times V \times N$ as a disjoint union of these products:

$$p_{\tau,v,n} = p_\tau p_v^\tau p_n^\tau$$

Such a model can by used to assign probabilities to verb-object pairs. In the probility space just defined, if a verb-noun pair is generated, it is generated in some type, and we obtain the probability for the verb-noun pair by summing over the types:

$$p_{v,n} = \sum_{\tau} p_{\tau,v,n} = \sum_{\tau} p_{\tau} p_v^{\tau} p_n^{\tau}$$

In section 5, such probabilities are used to compare two grammatical analyses. Table 3 gives the parameters of a selection model of order three for the 24×24 data.⁴ Notice that the noun *stake* is ranked high in both the second and third types.

 $^{^4\}mathrm{Or}$ rather, as one can discover by summing the first column of numbers, the approximate parameters.

	type	1.204			type	2.315		type 3 .481						
fall	.344	point	.364	raise	.265	rate	.238	sell	.319	share	.340			
rise	.343	cent	.281	reduce	.189	price	.207	buy	.288	stake	.198			
gain	.128	pence	.080	cut	.162	cost	.143	hold	.095	stock	.172			
drop	.059	yen	.071	lower	.109	debt	.071	acquire	.093	interest	.078			
decline	.038	average	.017	increase	.100	tax	.063	purchase	.063	asset	.065			
climb	.028	bit	.011	boost	.073	rating	.059	trade	.027	unit	.059			
jump	.020	mark	.011	push	.036	dividend	.050	retain	.019	security	.038			
nlunge	019	foot	004	slash	034	value	044	dumn	009	bond	037			

Table 5: The same model, with verbs and nouns represented only where they are most likely to be generated.

Estimating a model

Given a selection model and observed verb-object pair $\langle v, n \rangle$, the probability that it is generated in type τ is:

$$\frac{p_{\tau,v,n}}{p_{v,n}}$$

Multiplying by the frequency $f_{v,n}$, we obtain the expected number of occurrences of the event $\langle \tau, v, n \rangle$ given the observed frequency and the model:

$$e_{\tau,v,n} = f_{v,n} \frac{p_{\tau,v,n}}{p_{v,n}}$$

This forms a basis for re-estimating the probability parameters:

$$e_{\tau,v} = \sum_{n} e_{\tau,v,n} \quad e_{\tau,n} = \sum_{v} e_{\tau,v,n} \quad e_{\tau} = \sum_{v,n} e_{\tau,v,n}$$
$$q_{v}^{\tau} = \frac{e_{\tau,v}}{e^{\tau}} \qquad q_{n}^{\tau} = \frac{e_{\tau,n}}{e^{\tau}} \qquad q_{\tau} = \frac{e^{\tau}}{\sum_{n,v} f_{n,v}}$$

The probabilities q, the parameters of the new model, are computed as relative frequencies of expected numbers of events, as determined by the old model. For instance, the probability of the verb *fall* within type 1 would the expected number of occurences of *fall* in that type (given the data and model), divided by the expected number of occurrences of that type of verb-object pair.

The formulas are similar to the Baum-Welch re-estimation formulas for hidden Markov models (Baum 1972).⁵ Adapting Baum's result for HMMs, it can be shown that an iterative re-estimation of parameters produces local improvements in the probability of the observed data given the model, and converges to a local maximum of this probability. Table 3 was derived in one hundred iterations starting from a random state, using the frequency data in

⁵Selection models as described here can be viewed as zero-order HMMs, augmented with a second surface vocabulary and associated emission probabilities. That is, given a state (or type), two surface symbols are independently generated. Furthermore, as used here, the types are hidden in the sense that they are given no prior interpretation, and are not observed in the data.

Table 2. Table 3 is a different way of looking at the same model: each verb or noun is is shown only in the type where it is most likely to be generated, i.e. where $p_{\tau}p_v^{\tau}$ (or $p_{\tau}p_n^{\tau}$) is maximal. This representation reconstructs the three eight-by-eight boxes of table 2.

4 Results for a larger data matrix

Storage requirements for the estimation algorithm are modest. There are |T||V| + |T||N| + |T| probability parameters. The re-estimation formulas sum over non-zero frequencies, and the expectations can be computed by summing iteratively over such frequencies. In each step, a frequency $f_{v,n}$ is apportioned among the types according to the ratio $\frac{p_{\tau,v,n}}{p_{v,n}}$, and the portion for a type τ is added to running subtotals of $e_{\tau,v}$ and $e_{\tau,n}$. This procedure requires intermediate storage of the same size as the probability model. Since no random access to the frequencies is required there is no need to represent a $V \times N$ matrix. (This might turn out to be useful. In a larger data matrix based on 60 million words of text, about 3500 verb roots occur with five or more different nouns, and about 7500 noun roots, not counting proper nouns or numbers, occur with five or more verbs. One of these numbers would be multiplied if verbs with complements accompanied by prepositions were included as separate entries.)

The algorithm was implemented in Common Lisp. Tables 4 and 4 give the most probable nouns and verbs in each type of a probability model for the 992×1027 matrix with thirty-two types, obtained with four hundred iterations. The three blocks of 2 are represented here: type 3 is the product type (e.g. *develop software*), changing dimensioned objects (*raise price*) are in type 8, and scalar increments (*rise cent*) in type 26. Type 30 is a related one where the object typically denotes a scalar motion event, such as a decline or an increase. The nouns of types 19 and 29 primarily name people. In the nouns, the split seems to amount roughly to a distinction between powerful, active people (executives, lawyers, officials) and weak or passive ones (workers, clients, and shareholders). Looking at the verbs, the type 19 people are appointed and replaced; the type 29 people are given orders and permissions.⁶

Several types are dominated by a common and semantically empty verb, such as be(12), have(23), or make(31). In these cases, the noun sets are not intuitively coherent, presumably because these verbs impose such weak selectional restrictions. The verb sets are not particularly coherent either, though this is balanced by the fact that most of the verbs have low probabilities. These common verbs also occur in many other types, for instace be in top position in type 32, which is an intuitively coherent type.

 $^{^{6}}$ In verb group 19, a number of items resulting from parsing errors are evident. Presumably, *manage* comes from *managing director* misidentified as a verb phrase.

	typ	010.010				- 7	2.021			
	meet 23606	stan	dard .06	597	end	.10515	yea	ar .1187	73	
	set .15089	re	ecord .05	5207	trade	.07562	Frida	y .0973	33	
	be .04807		goal .04	920	say	.06728	wee	k .0897	(7	
	keep .04205		need .04	453	work	.06685	mont	h .0807	(4	
	hit .03637	require	ment 04	152	begin	06120	da	iy .0648	58	
	miss .03403	,	level .03	1004	spend	.05970	tin	1e .0408	90	
	exceed .03322	der	nand .03	062	announce	02880	toda	y .0400	79	
	reach .02533	τ	arget .02	903	close	.02038	Iuesda	iy .0351	(3 21	
	f. [6]] 01523		nign .02	675	open	02420	nou Manda	11 .0280 0270	51	
	coticfy 01220		stage .02	0155	start	01716	Monda	uy .0272	24 59	
	Satisty .01330		data 01	860	expire	01618	Wedneede	.v. 0240	27	
	surpass 01169	Dav	mont 01	819	liaik	01545	capit	iy .0⊿⊿o al .0211	16	
	surpass .0110c	pay	ntion 01	764	Tast weit	01206	capit	ar .021.	22	
	establish .01120	expect	ation .01	622	fellow	01147	ia nigi	-+ 015	55	
	stress .00919		limit 01	598	TOTIOW	01147	nigi	10 .0102	20	
	emminate .00856		1111110 .01	.000	serve	.01117		41 .010.	50	
type	3.032	0.0		type	4.029	0007	_	ty	vpe 5.035	10070
use .1586.	product .076	39 cont	inue .060	515	operatio	on .08078	comple	ete .081	.98 sa	le 10672
develop .09290	system .044	59 b	egin .050	547	effo	rt .0770a	3 finan	.ce .056	acquisitio	n .06132
produce .0861	drug 034	06 Ιaι 10	10ch .04	128	progra	m .06099) inclu	de .046	93 transactio	n .05817
introduce .0327	technology .031		auct .031	107	campaig	gn .0296.		De .03/	00 chang	ge .04977
market .0295.	computer .022	50 res 48 ovr	une 020	540 598 :	productio	02943		ay .032	76 purchas	$\frac{1}{2}$ $\frac{1}$
seli .02776	5 country .019	40 exp. 75	and .026	176	nvestigatio	0220: 02020	appro	ve .031	10 merge	er .03092
abin 02140	car .018	10 S	hart 02^4	110	servi	ce .02028 ce .01670	eprese	ac 025		er 02709
ship .0210;	line 016	66	00 .022	150	proce	ss .01070		.ce .0⊿0 ak .020	72 notio	n 02040
got 0160	version 015	00	halt $01/$	156	nogotiatio	n = 01/1/		CK .022	208 takeove	n = 0.02278
distribute 0114	machine 014	10 fo	11an 01	335	negotiatite	nt 0140	7 invol	ve 017	58 projec	1 01333
test 0114	nroceed 013	98	han 013	304	activi	tv = 01383	B prope	se 017	02 jssu	e 01792
manufacture 0110'	Drogram 019	30	trict 011	189	nracti	ce 01200) prope	ore 016	570 offerin	g 01475
promote 0103	ton 019	26 8110	port 011	187	practi to	lk 01264	4 expe	ect .015	570 mor	re 01278
install 0098	software 011	78 000	rsee 011	148	levelonme	nt 01256	3 fall	ow .014	96 10	se 01205
build .0097	model .011	46	plan .011	145		se .01224	4 disci	188 .014	74 investmer	nt .01098
Sana 10001.	wpa 6 024			++++++	u .7 099				9 041	
C1 14790	ype 6 .024	11100	1 .	type	e 7.023	00070		type	8.041	59.40
THE .14730	suit	.11129	play .	09030	money	20070	. raise	00040	price .1	5348
follow .09798	case	.06304	spend.	07740	3	07810	increase	09248	rate .1	5152
settle .04932	report	.00176	raise .	00364 02705	role	05401	poost	01753	stake .0	4/34
deny .03748	decision	04991	be.	03728	i rund	03401	reauce	04800	question .u	3490
issue .03688	charge	.04782	get .	03375	cash	03552	lower	02500	rating .0	3048
near .03011	Tawsuit	02674	lose .	03312	101	02000	cut	03309	varue .u	2001
say .02876	statement	03074	cost .	03330	time	02000	say	02311	sale .u	2044
Lain = 02220	appear	02439	save .	03039	donar	02012	oner	02240	earning .0	2019
bring .02329	complaint	02390	use .	02121	part	010057	pusn	01979	lawal 0	2303
be .02301	ellegation	02312	lond	02140 01760		01680	expect	01407	deller 0	2135
confirm .02157	anegation	02142	Tend .	01700	game	015080	keep	01407	donar .u	1719
appear .02020	ruing	01561	pay .	01720	capital	01308	dauble	01198	capital .0	1661
include .02019	pian	.01301	invest .	01090	b total	01420	double	01191	revenue .u	1560
neview .01744	action	01405	rivo	01690		01300	hring	01162	size .0	1260
reverse .01527	rumor	01400	give .	01520	, ine	01291	Dring	01002	cost .u	1267
see .01321	Tecommendation	.01402	auu .	01520	year	.01132	namtam	.01042	production o	1307
type	9.023		ty	/pe 1(0.014			type	11 .032	
reject .08033	bid .157	95	hold .426	525	company	.29762	pay	21425	cost	.13843
consider .06539	proposal .117	81 acq	uire .048	866	meeting	.09623	reduce	14585	debt	.08962
accept .05285	offer 114	93	call .044	100	stake	.05578	. cut	09985	tax	.05801
support 03535	plan .060	08 at	tend .029	986	talk	.04176	increase	03444	dividend	.03704
decline .03064	comment 031	93 sche	dule $.024$	436	hearing	.03762	cover	.02748	price	.03451
drop 02975	request .025	91 1	eave .024	133 c	onference	.03723	include	.02187	5	02684
close .02525	1dea .023	31	say .023	172	position	.02211	De	01433	Iee	.02370
SHOMIT UZ4UL		(4)	tell .02.	111	election	01579	repay	01333	expense	.02319
L- 02280	attempt .017	16 1	orce .uz.	111				.01515	dench	02104
be .02389	claim .013	46 f	11 0.1.*	705	concern	01267	lasan	01956		
be .02389 receive .02352	claim .013 effort .013	46 f 19 fo	llow .017	705 0	concern discussion	.01367	keep	01256	interest	01868
be .02389 receive .02352 approve .02158	claim .013 effort .013 issue .013	46 f 19 fo 01	llow .015 be .015	705 290 207	concern discussion post stock	.01367 .01207 .01060	keep limit	.01256 .01225 .01161	interest bill	.01868
be .02389 receive .02352 approve .02158 launch .02135 back 01941	claim .013 effort .013 issue .013 strategy .012	46 f 19 fo 01 16 1 75 cor	llow .017 be .012 nine .012	705 290 207	concern discussion post stock hostage	.01367 .01367 .01207 .01060 .01017	keep limit control avoid	01256 01225 01161 00944	interest bill loan	.01868 .01818 .01785
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771	claim .013 claim .013 effort .013 issue .013 strategy .012 option .011 application .010	46 f 19 fo 01 16 r 75 cor 93	llow .013 be .012 nine .012 ntrol .010 seek .000	705 290 207 057 993	concern discussion post stock hostage	.01367 .01207 .01060 .01017 .00770	keep limit control avoid trim	.01256 .01225 .01161 .00944 .00897	interest bill loan capital-gains premium	.01911 .01868 .01818 .01785 .01715
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711	claim .013 effort .013 issue .013 strategy .012 option .011 application .010	46 f 19 fo 01 16 r 75 cor 93	llow .017 be .012 nine .012 ntrol .010 seek .009	705 (290 207 057 993 783	concern discussion post stock hostage party sossion	.01316 .01367 .01207 .01060 .01017 .00770 .00729	keep limit control avoid trim	.01256 .01225 .01161 .00944 .00897	interest bill capital-gains premium	.01818 .01818 .01785 .01715 .01678
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 .01688	claim .017 claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .010 \$ 000	46 f 19 fo 01 16 r 75 cor 93 44 ex 88	llow .017 be .012 nine .012 ntrol .010 seek .009 pect .007 alue .007	705 (290 207 057 993 783 756	concern discussion post stock hostage party session interest	$\begin{array}{c} .013167\\ .01367\\ .01207\\ .01060\\ .01017\\ .00770\\ .00729\\ .00715\end{array}$	keep limit control avoid trim raise	.01256 .01225 .01161 .00944 .00897 .00868 .00847	interest bill capital-gains premium amount force	.01868 .01818 .01785 .01715 .01678 .01579
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688	claim .013 claim .013 issue .013 strategy .012 option .011 application .010 amendment .010 \$.009	46 f 19 fo 01 16 r 75 cor 93 44 ex 88 v	llow .017 be .012 nine .012 ntrol .010 seek .009 pect .007 alue .007	705 290 207 057 993 783 756	concern discussion post stock hostage party session interest	$\begin{array}{c} .013167\\ .01367\\ .01207\\ .01060\\ .01017\\ .00770\\ .00729\\ .00715\end{array}$	keep limit control avoid trim raise collect	.01256 .01225 .01161 .00944 .00897 .00868 .00847	interest bill capital-gains premium amount force	.01811 .01868 .01818 .01785 .01715 .01678 .01579
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .017711 announce .01688	attempt .017 claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .010 \$.009 2 .093	46 f 19 fo 01 fo 16 r 75 cor 93 ex 44 ex 88 v	llow .015 be .015 nine .015 ntrol .010 seek .009 pect .007 alue .007	705 290 207 057 993 783 756 e 13	concern discussion post stock hostage party session interest	.01367 .01207 .01060 .01017 .00770 .00729 .00715	keep limit control avoid trim raise collect	.01256 .01225 .01161 .00944 .00897 .00868 .00847 type	interest bill loan capital-gains premium amount force 14.030	.01811 .01868 .01818 .01785 .01715 .01678 .01579
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 announce .01688 type 1 be .86747	claim .013 cffort .013 issue .013 strategy .012 option .011 application .010 amendment .010 \$.009 2 .093 part .03984	46 f 19 fo 01 fo 16 r 75 cor 93 ex 44 ex 00 cor	llow .017 be .012 nine .012 itrol .010 seek .009 pect .007 alue .007 typ do .20440	705 290 207 057 993 783 756 e 13	concern discussion post stock hostage party session interest 025 business	.01367 .01207 .01060 .01017 .00770 .00729 .00715	keep limit control avoid trim raise collect	.01256 .01225 .01161 .00944 .00897 .00868 .00847 type .10237	interest bill loan capital-gains premium amount force 14.030 interest	.01868 .01818 .01785 .01715 .01678 .01579
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01771 announce .01688 <u>type 1</u> be .86747 become .02744 ford .01012	claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .010 \$.009 2 .093 part .03984 way .02670 time .02661	46 f 19 fo 01 16 r 75 cor 93 44 ex 88 v rt	llow .017 be .012 nine .012 ntrol .010 seek .009 pect .007 typ do .2044(n .1072(705 290 207 057 993 783 756 e 13 .	concern discussion post stock hostage party session interest 025 business job thing	.01367 .01207 .01060 .01017 .00770 .00729 .00715	shash keep limit control avoid trim raise collect show reflect	.01256 .01225 .01161 .00944 .00897 .00868 .00847 type .10237 .05022 .03955	interest bill loan capital-gains premium amount force 14.030 interest growth	.01311 .01868 .01818 .01785 .01715 .01678 .01579
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .86747 become .02744 find .01918 coo .00620	claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .0100 2 .093 part .03984 way .02670 time .02601 president .02546	46 f 19 fo 01 16 r 75 cor 93 44 ex 88 v 0 ru	llow .017 be .012 nine .012 ntrol .010 seek .009 pect .007 typ do .20440 n .10720 be .09109	705 290 207 057 993 783 756 e 13 0 6 9 9	concern discussion post stock hostage party session interest 025 business job thing	.01367 .01207 .01060 .01017 .00770 .00729 .00715 .09334 .05915 .03691	keep limit control avoid trim raise collect show reflect express	.01256 .01225 .01161 .00944 .00897 .00868 .00847 type .10237 .05022 .03955 .03120	interest bill loan capital-gains premium amount force 14.030 interest growth value	.01868 .01868 .01785 .01715 .01678 .01579 .05279 .03758 .03260
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .017711 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00639	claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .010 \$.009 2 .093 part .03984 way .02670 time .02601 president .02546 .company .01500	46 f 19 fo 01 16 r 75 cor 93 44 ex 88 v rt crea for	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	705 290 207 057 993 783 756 • 13 • • • • • • • • • • • • • • • • • • •	concern discussion post stock hostage party session interest 025 business job thing company work	.01367 .01207 .01060 .01017 .00770 .007729 .00715 .00334 .05915 .03691 .03633	keep limit control avoid trim raise collect show reflect express see	.01256 .01225 .01161 .00944 .00897 .00868 .00847 type .10237 .05022 .03955 .03130 02787	interest bill loan capital-gains premium amount force 14.030 interest growth value economy	.01868 .01818 .01735 .01715 .01678 .01579 .05279 .03279 .03047
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01771 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383	claim .013 claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .010 \$.009 2 .093 part .03984 way .02670 time .02601 president .02546 company .01500 reason .01314	46 f 19 fo 01 0 16 r 75 cor 93 44 ex 88 v crea for lease	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	705 (290 207 057 993 783 756 e 13 (0 6 9 9 0 (8 6 8 6	concern discussion post stock hostage party session interest <u>025</u> business job thing company work	$\begin{array}{c} .01367\\ .01207\\ .01060\\ .01017\\ .00770\\ .007729\\ .00715\\ \hline \\ 155112\\ .09334\\ .05915\\ .03691\\ .03633\\ .02406\\ \end{array}$	shash keep limit control avoid trim raise collect show reflect express see improve slow	.01256 .01225 .01161 .00944 .00897 .00868 .00847 .00237 .05022 .03955 .03130 .02787	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand	.01868 .01818 .01785 .01715 .01678 .01579 .05279 .03758 .03269 .03047 .03012
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 evet .00381	claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .010 2 .093 part .03984 way .02670 time .02546 company .01500 reason .01314 lot .01245	46 f 19 fo 01 r 75 cor 93 44 ex 88 v cr creat for lea	$\begin{array}{cccc} \text{llow} & 017\\ & \text{be} & 012\\ & \text{trol} & 012\\ \text{trol} & 010\\ \text{seek} & 000\\ & \text{seek} & 000\\ \hline \\ & \text{pect} & 000\\ \hline \\ \hline \\ & \text{typ}\\ \text{do} & 20444\\ \hline \\ & \text{to} & 2044\\ \hline \\ & \text{to} & 2044\\ \text{te} & 06320\\ \text{te} & 06320\\ \text{te} & 06326\\ \hline \\ & \text{m} & 05173\\ \text{ve} & 03484\\ \hline \\ & \text{ve} & 03483\\ \hline \end{array}$	705 290 207 057 993 783 783 756 e 13 0 6 9 0 6 8 6 8 8	concern discussion post stock hostage party session interest 025 business job thing company work venture lot	$\begin{array}{c} .01367\\ .01367\\ .01207\\ .01060\\ .01017\\ .00770\\ .00729\\ .00715\\ \hline \\ \hline \\ .00734\\ .05915\\ .03691\\ .03633\\ .02406\\ .01903\\ \end{array}$	shavn keep limit control avoid trim raise collect show reflect express see improve slow	.01256 .01225 .01161 .00944 .00897 .00868 .00847 .00868 .00847 .05022 .03955 .03130 .02787 .01794	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand	.01868 .01818 .01785 .01715 .01678 .01579 .05279 .03758 .03269 .03047 .03012 .02552
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01771 announce .01688 type 1 be .686747 become .02744 find .01918 see .00639 give .00630 include .00383 get .00316 identify .00295	claim .013 cffort .013 issue .013 strategy .012 option .011 application .010 amendment .010 9 2 .093 part .03984 way .02670 time .02546 company .01500 reason .01314 lot .01245 problem .01181	46 f 19 fo 01 f 16 r 75 cor 93 44 ex 88 v (rr 10 crea for lea: g	llow .017 be .012 nine .012 ntrol .010 steek .000 pect .007 alue .007 typ do .20444 un .10720 be .09100 te .06320 m .05173 ve .03494 et .03494 et .03494	705 290 207 057 993 783 756 e 13 0 6 9 0 6 8 8 8 8 8	concern discussion post stock hostage party session interest 	.01367 .01207 .01060 .01017 .00770 .00770 .00729 .00715 .005915 .03691 .03633 .02406 .01963	shash keep limit control avoid trim raise collect express see improve slow say enhance	.01256 .01225 .01161 .00944 .00897 .00868 .00847 .05022 .03955 .03130 .02787 .01795 .01794	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign	.01868 .01818 .01785 .01715 .01678 .01579 .05279 .03758 .03269 .03047 .03012 .02552 .02153
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01771 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257	claim .013 cffort .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .0100 \$.009 2 .093 part .03984 way .02670 time .02601 president .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181	46 f 19 fo 01 f 16 1 75 cor 93 44 ex 88 v rr 1 crea for 1 lea g fin sta	llow .017 be .017 mine .012 titrol .010 seek .009 pect .007 typ do .20444 in .10720 be .0910 te .06320 m .05177 ve .03490 et .03489 ind .0189	705 290 207 057 993 783 756 e 13 0 6 9 0 6 8 8 8 8 1 gov	concern discussion post stock hostage party session interest .025 business job thing company work venture lot rernment	0.01367 .01207 .01060 .01017 .00770 .00779 .00715 .00734 .05915 .03693 .02406 .01903 .01850 .01547	shash keep limit control avoid trim raise collect show reflect express see improve slow say enhance continue	.01256 .01225 .01161 .00944 .00897 .00868 .00847 .00868 .00847 .00522 .03955 .03130 .02787 .01795 .01794 .01613 .01535	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return	.01868 .01818 .01785 .01715 .01678 .01579 .05279 .03758 .03269 .03047 .03012 .02552 .02153 .02080
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257 citie .00247	claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .010 2 .093 part .03984 way .02670 time .02546 company .01500 reason .01314 lot .01245 problem .01181 issue .01158	46 f 19 fo 01 f 16 r 75 cor 93 44 ex 88 v 6 7 10 10 10 10 10 10 10 10 10 10	llow .017 be.017 mine.017 titrol.010 (seek.000 pect.007 alue.007 typ do .20444 in .10720 be.09100 te.06320 m.05177 ve.03490 et.03489 ad .0189 mrt.01575	705 6 290 207 57 993 783 756 6 8 6 9 0 6 8 6 8 6 8 6 8 9 0 6 8 6 9 9 0 6 9 9 0 6 9 9 0 7 9 9 9 9 9 9 9	concern discussion post stock hostage party session interest 025 business job thing company work venture lot vernment fund program	01367 01207 01060 01017 .00770 .00729 .00715 15112 03691 03693 .02406 01903 .01903 .019547 .01358	keep limit control avoid trim raise collect show reflect express see improve slow say enhance continue pursue	$\begin{array}{c} .01256\\ .01255\\ .01161\\ .00944\\ .00897\\ .00868\\ .00847\\ \hline type\\ .10237\\ .05022\\ .03955\\ .03130\\ .02787\\ .01795\\ .01795\\ .01794\\ .01611\\ .01535\\ .01512\\ \end{array}$	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence	.01868 .01818 .01818 .01715 .01678 .01579 .05279 .03758 .03269 .03047 .03012 .02552 .02153 .02080 .02062
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257 cite .00242 represent .00242	claim .013 cffort .013 issue .013 strategy .012 option .011 application .010 amendment .0100 <u>amendment .0100</u> <u>2 .093</u> part .03984 way .02670 time .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 issue .01024	46 f 19 fo 01 r 16 r 75 93 44 ex 88 v 6 r 16 r 16 r 16 r 17 cor 93 cor 95	llow .017 be .017 mine .012 titrol .010 seek .003 pect .007 alue .007 typ to .2044 un .10722 be .09103 te .06322 m .05173 ve .03494 et .03498 ad .01899 rt .01577 ee .01485	705 6 290 207 57 993 783 756 6 9 0 6 8 6 8 8 1 gov 9 2	concern discussion post stock hostage party session interest 025 business job thing company work venture lot rernment fund program deal	0.01367 .01207 .01007 .01017 .00770 .00729 .00715 .05015 .03691 .03691 .03633 .02406 .01903 .01850 .01850 .018547 .013547	siasi keep limit control avoid trim raise collect express see improve slow say enhance continue pursue grow	$\begin{array}{c} .01256\\ .01255\\ .01161\\ .00944\\ .00897\\ .00868\\ .00847\\ \hline type\\ .10237\\ .05022\\ .03955\\ .03130\\ .02787\\ .01794\\ .01611\\ .01535\\ .01512\\ .01502\\ \end{array}$	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence ability	.01868 .01818 .01785 .01715 .01678 .01579 .05279 .03269 .03269 .03047 .03269 .03012 .02552 .02153 .02080 .02062 .02002
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00639 give .00383 get .00316 identify .00295 remain .00227 cite .00224 represent .00221 seem .00217	claim .013 cffort .013 issue .013 strategy .012 option .011 application .010 amendment .0100 2 .093 part .03984 way .02670 time .02601 president .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 issue .01158 case .01024 unit .00933	46 f 19 fo 01 fo 16 r 75 go 93 44 888 v v creat fit state g fit state s elimina keet	llow .017 be .017 nine .011 itrol .010 seek .000 pect .007 typ do .20444 m .10722 be .09109 te .0632 m .05177 ve .0349 et .0348 nd .0189 rt .0177 see .01488 te .0107 see .01488	705 4 290 207 57 993 783 783 783 783 783 783 783 783 783 78	concern discussion post stock hostage party session interest job thing company work venture lot rernment fund program deal ad	01367 01207 01060 01017 00700 00715 00715 00715 005915 03691 03633 005915 036691 03633 002406 01903 01850 01547 011358 011439	siasi keep limit control avoid trim raise collect express see improve slow say enhance continue pursue grow finel	.01256 .01252 .01161 .00944 .00897 .00868 .00847 .05022 .03955 .03130 .02787 .01795 .01794 .01611 .01535 .01512 .01503	interest bill loan capital-gains premium amount force <u>14.030</u> interest growth value economy concern demand sign performance return confidence ability	.01868 .01868 .01818 .01785 .01715 .01678 .01579 .05279 .03758 .03269 .03047 .03012 .02552 .02153 .02080 .02080 .02062 .02002 .01637
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00381 get .00381 cidentify .00295 remain .00257 cite .00242 represent .00222 seem .00217 prove .00217	claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .0100 \$.009 2 .093 part .03984 way .02670 time .02546 company .01500 reason .01314 lot .01245 problem .01181 issue .01158 case .01024 unit .00933 sign .00926	446 f 19 fo 01 r 16 r 75 cor 93 44 ex 88 v 16 crea 6 rr 1 crea 6 rr 1 crea 8 s 8 elimina kee 10 crea	$\begin{array}{llllllllllllllllllllllllllllllllllll$	705 6 290 7 207 993 783 756 e 13 . 6 9 0 6 8 6 6 8 8 1 gov 9 9 2 2 7 9	concern discussion post stock hostage party session interest 025 business job thing company work venture lot vernment fund program deal ad risk	01367 01207 01060 01017 .00770 .007729 .00715 03691 03633 .02406 01903 .01903 .019545 01903 .019545 .01903 .019547 .01358 .01143 .01143 .01382	keep limit control avoid trim raise collect show reflect express see improve slow say enhance continue pursue grow fuel indicate	$\begin{array}{c} 0.1256\\ 0.01225\\ 0.01161\\ 0.0944\\ 0.0897\\ 0.00847\\ 0.00847\\ 0.00847\\ 0.00847\\ 0.00847\\ 0.00847\\ 0.00847\\ 0.01375\\ 0.01794\\ 0.01794\\ 0.01794\\ 0.01505\\ 0.01503\\ 0.01460\\ \end{array}$	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence ability strength	.01868 .01818 .01818 .01715 .01678 .01579 .05279 .03758 .03269 .03047 .03012 .02552 .02153 .02080 .02080 .02062 .02002 .02002 .01637 .01435
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 <u>type 1</u> be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257 cite .00242 represent .00227 seem .00217 prove .00217 allow .00201	claim .013 cffort .013 issue .013 strategy .012 option .011 application .010 amendment .010 amendment .010 president .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 issue .01158 case .01024 unit .00933 sign .00926 thing .00897	46 f 19 fo 01 fo 16 r 75 93 44 ex 88 v 6 r 16 r 16 r 16 r 17 cor 93 cor 93 cor 93 cor 93 cor 10 cor 93 cor 95 cor 9	llow .017 be .017 mine .0112 mine .0112 mine .010 seek .000 pect .007 do .20444 m .0072 be .09100 te .06324 m .05177 ve .03499 rt .01577 see .01488 te .01488 te .00978 see .00978	705 (290 (207) 557 (993) 756 (993) 756 (6) 9) 9 (9) 9) 2 (7) 9) 8 (6) 9) 9) 2 (7) 9) 8 (9) 9)	concern discussion post stock hostage party session interest .025 business job thing company work venture lot rernment fund program deal ad risk vear	0.01367 .01207 .01060 .01017 .00770 .00729 .00715 .009334 .05915 .03691 .03633 .02406 .01903 .03633 .02406 .01963 .01850 .01850 .01850 .018547 .01388 .01143 .01139 .00949	siasi keep limit control avoid trim raise collect express see improve slow say enhance continue pursue grow fuel indicate cite	$\begin{array}{c} 0.1256\\ 0.1225\\ 0.01261\\ 0.0161\\ 0.0944\\ 0.0897\\ 0.0847\\ \hline 0.00847\\ \hline 0.03955\\ 0.03955\\ 0.3130\\ 0.02787\\ 0.03955\\ 0.3130\\ 0.02787\\ 0.1794\\ 0.1611\\ 0.1535\\ 0.01794\\ 0.1611\\ 0.1512\\ 0.1503\\ 0.01460\\ 0.01430\\ \hline \end{array}$	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence ability strength inflation benefit	.01868 .01818 .01785 .01715 .01678 .01579 .05279 .03269 .03047 .02552 .02153 .02080 .02080 .02062 .02002 .01637 .01435 .01353
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .66747 become .02744 find .01918 see .00639 give .00630 include .00383 get .00316 identify .00295 remain .00257 cite .00242 represent .00221 seem .00217 prove .00201 want .00200	claim .013 claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .0100 \$.009 2 .093 part .03984 way .02670 time .02601 president .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 issue .01158 case .01024 unit .00933 sign .00926 thing .00897 tareet .00818	46 f 19 fo 01 fo 16 r 75 93 44 ex 88 v 44 ex 1 c 2 c 1 c 2	$\begin{array}{llllllllllllllllllllllllllllllllllll$	705 (290) 557 (993) 783 (e 13) 6 (9) 6 (9) 6 (9) 6 (9) 7 (8) 6 (9) 7 (9) 8 (6) 9) 7 (9) 8 (7) 9) 9) 7 (9) 9) 7 (9) 7 (9) 7 (9) 7 (9) 7 (7) 7 (9) 7 (9) 7 (7) 7 (9) () () () () () () () () () () () () (concern discussion post stock hostage party session interest 	01367 01207 01060 01017 00700 00715 00715 00715 005915 03691 03633 002406 01903 01856 01903 01857 01547 01358 001547 01358 001547 01358 001547	siasi keep limit control avoid trim raise collect express see improve slow say enhance continue pursue grow fuel indicate cite repressen	$\begin{array}{c} 0.1256\\ 0.01225\\ 0.01161\\ 0.0944\\ 0.0897\\ 0.00868\\ 0.00847\\ \hline type\\ 1.0237\\ 0.05022\\ 0.3955\\ 0.03130\\ 0.05022\\ 0.3955\\ 0.01795\\ 0.01795\\ 0.01795\\ 0.01794\\ 0.01611\\ 0.01535\\ 0.01505\\ 0.01503\\ 0.01430\\ 0.01430\\ 0.01363\\ \end{array}$	interest bill loan capital-gains premium amount force <u>14.030</u> interest growth value economy concern demand sign performance return confidence ability strength inflation benefit	.01868 .01868 .01785 .01715 .01678 .01579 .05279 .03758 .03269 .03047 .03012 .02552 .02080 .02062 .02062 .020637 .01435 .01353 .01348
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257 cite .00242 represent .00222 seem .00217 prove .00217 allow .00201 want .00200	claim .013 cffort .013 strategy .012 option .011 application .010 amendment .010 2 .093 part .03984 way .02670 time .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 issue .01158 case .01024 unit .00933 sign .00926 thing .00818 guestion .00776	446 f 19 fo 01 fo 16 r 75 cor 93 44 ex 44 ex 44 ex v v v v crea for lea: for lea: s elimina ket lo expe ent	llow .017 be .012 mine .012 tirtol .010 seek .003 pect .007 alue .007 typ do .20444 in .10727 be .09100 te .06327 m .05177 ve .03488 ad .0189 rt .01577 ep .00987 se .00977 ct .00977 ct .00977	705 (290) 207) 557 993 783 e 13 , 0 6 9	concern discussion post stock hostage party session interest 025 business job thing company work venture lot vernment fund program deal ad risk year system room	0.01367 0.01367 0.01067 0.01017 .00770 .007729 .00715 .03691 0.3633 .02406 0.01903 .01850 .01435 .01143 .011388 .01143 .013682 .00982 .00982 .00984 .00785 .007855 .007855 .0078555 .007855555	keep limit control avoid trim raise collect show reflect express see improve slow say enhance continue pursue grow fuel indicate cereent expect	$\begin{array}{c} .01256\\ .01225\\ .01225\\ .01161\\ .00944\\ .00897\\ .00868\\ .00847\\ \hline \\ .00847\\ .00864\\ .00847\\ .00$	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence ability strength inflation benefit support	$\begin{array}{c} .01868\\ .01818\\ .01818\\ .01715\\ .01715\\ .01678\\ .01579\\ \hline \\ .07597\\ .05279\\ .03758\\ .03269\\ .03047\\ .03012\\ .02552\\ .02153\\ .02080\\ .02062\\ .02080\\ .02062\\ .02002\\ .01637\\ .01435\\ .01353\\ .01348\\ .01302\\ \end{array}$
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257 cite .00242 represent .00217 prove .00217 allow .00200 mark .00197	claim .013 cffort .013 issue .013 strategy .012 option .011 application .010 amendment .010 amendment .010 2 .093 part .03984 way .02670 time .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 issue .01024 unit .00933 sign .00926 thing .00926 thing .00818 question .00776	46 f 19 fo 01 fo 16 r 75 cor 93 44 ex 88 v 6 rr 16 crea for 16 crea for 16 crea for 16 creation 16 creation 17 creation 18 creatio	llow .017 be .017 mine .0112 mine .0112 mine .0110 seek .000 pect .0007 do .20444 m .0072 be .09100 te .06324 m .05177 ve .03499 rt .01577 see .01488 se .00979 ct .00977 er .00822 sh .0079	705 (290 (207) 357 (393) 783 (56) 99 (99) 99) 99) 99) 99) 99) 99	concern discussion post stock hostage party session interest 	0.01367 .01367 .01060 .01017 .00770 .00715 .00715 .009334 .05915 .03691 .03633 .02406 .01903 .03633 .02406 .01963 .01850 .01850 .01850 .01850 .018547 .01388 .01143 .01139 .00949 .000949 .0000949 .0000949 .0000000000	siasi keep limit control avoid trim raise collect express see improve slow say enhance continue pursue grow fuel indicate cote cote express say	$\begin{array}{c} 0.1256\\ 0.01225\\ 0.01161\\ 0.0944\\ 0.0897\\ 0.00868\\ 0.00847\\ \hline \\ 10237\\ 0.05022\\ 0.3955\\ 0.03130\\ 0.05022\\ 0.3955\\ 0.01794\\ 0.01795\\ 0.01794\\ 0.01795\\ 0.01794\\ 0.01611\\ 0.01505\\ 0.01503\\ 0.01430\\ 0.01430\\ 0.01430\\ 0.01363\\ 0.01304\\ \hline \end{array}$	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence ability strength inflation benefit support	$\begin{array}{c} .01868\\ .01818\\ .01818\\ .01735\\ .01715\\ .01678\\ .01579\\ \hline \end{array}$
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .06674 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257 cite .00242 represent .00222 seem .00217 prove .00217 allow .00201 want .00200 mark .00197	attempt .011 claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .010 y .009 2 .093 part .03984 way .02670 time .02601 president .02546 company .01314 lot .01245 problem .0181 case .01024 unit .00933 sign .00926 thing .00897 target .00817 question .00776 type .14672	46 f 19 fo 01 fo 16 r 75 93 44 ex 88 v 6 r rcea for for lea sta s elimina kee lo expe ent establing 15.022 arrecer	llow .017 be .017 inter .011 inter .011 inter .010 seek .000 pect .0007 typ do .20444 in .10722 be .0910 te .06321 m .05177 ve .03494 de .01489 ret .01597 see .01488 te .01077 see .01488 se .00977 ct .00978 se .00978	705 (220 (2207 (207 (207 (207 (207 (200 (20) (200 (concern discussion post stock hostage party session interest 025 business job thing company work venture lot rernment fund program deal ad risk year system room	.01367 .01367 .01367 .01367 .01607 .01017 .00770 .00715 .00715 .005915 .03661 .03633 .01547 .01547 .01547 .01547 .01547 .01547 .01388 .01143 .00982 .00982 .00784 type 1 13355	siasii keep liimit control avoid trim raise collect express see improve slow say enhance continue pursue grow fuel indicate expect 6.016	01225 01225 01161 00944 00897 00868 00847 10237 05022 03955 03130 02787 01795 01795 01795 01795 01794 01535 01505 01503 01460 01430 01363 01304	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence ability strength inflation benefit support improvement	$\begin{array}{c} .01868\\ .01868\\ .01818\\ .01785\\ .01715\\ .01678\\ .01579\\ \hline \\ .05279\\ .03269\\ .03047\\ .03012\\ .02552\\ .03047\\ .03012\\ .02552\\ .02153\\ .02080\\ .02062\\ .021637\\ .01435\\ .01353\\ .01348\\ .01302\\ \end{array}$
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00257 remain .00257 ret .00242 represent .00222 seem .00217 prove .00217 allow .00201 want .00200 mark .00197	claim .013 cffort .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .0100 \$.009 2 .093 part .03984 way .02670 time .02601 president .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 issue .01158 case .01024 unit .00933 sign .00926 thing .00897 target .00818 question .00776 type reach .14872	446 f 19 fo 01 fo 16 r 75 cora 93 44 88 v crea for crea for for la sta s elimina kee lo extabili 15 .022 agreem. agreem.	llow .017 be.017 nine.011 nine.011 seek.005 pect.007 typ do.20444 nn.10722 be.09109 te.0632 nm.05175 ve.0349 et.0348 nd.0189 rt.0177 se.00975 et.00975 et.00975 et.00975 et.00975 et.00975 et.00975 et.00975	705 (220) 2207 2577 2577 2577 2577 2577 207 207 207 200 200 200 200 200 200 2	concern discussion post stock hostage party session interest job thing company work venture lot rernment fund program deal ad risk year system scom	.01367 .01367 .01367 .01367 .01007 .01017 .00770 .00715 .00715 .005915 .03691 .036691 .03638 .01903 .015475 .036691 .03638 .01547 .01547 .01548 .01143 .00982 .00984 .00784 type 1 .13358 .03695 .03869	siasii keep limit control avoid trim raise collect show reflect express see improve slow say enhance continue grow fuel indicate cite represent expect slow	.01256 .01225 .01161 .00944 .00897 .00868 .00847 .00868 .00847 .010237 .05022 .03955 .03130 .02787 .01795 .01795 .01794 .01611 .01535 .01505 .01505 .01505 .01505 .01505 .01460 .01460 .01460 .01363 .01304 .01364 .01304	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence ability strength inflation benefit support improvement	$\begin{array}{c} .01868\\ .01848\\ .01848\\ .01785\\ .01715\\ .01678\\ .01779\\ .05797\\ .05279\\ .03758\\ .03269\\ .03047\\ .03012\\ .02552\\ .02153\\ .02080\\ .02062\\ .02002\\ .01637\\ .01435\\ .01348\\ .01302\\ \end{array}$
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257 cite .00242 represent .00222 seem .00217 prove .00217 allow .00200 mark .00197	claim .013 cffort .013 strategy .012 option .011 application .010 amendment .010 amendment .010 2 .093 part .03984 way .02670 time .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 chairman .01181 chairman .01181 chairman .01181 guestion .00933 sign .00926 thing .00936 target .00818 question .00776 type reach .14872 sign .11051 announce .08203	46 f 19 fo 01 fo 16 r 75 cora 93 44 488 v 6 rn 1 crea 6 rn 1 crea 6 for 1 sta 8 einimia 8 einimia 8 einimia 15 .022 agreem p	llow .017 be .017 mine .0112 mine .0112 seek .000 pect .0007 do .20444 m .0072 be .09100 te .06324 m .05177 ve .03499 et .03499 et .03498 et .03498 et .03499 et .03499 et .00975 ct .00977 er .00822 sh .00978 ent .2375 lan .1544 bill .0800	705 (290 (290) 207 (207) 207 (200) 207 (200) 207 (200) 207 (200) 200 (200 (200) 200 (200) 200 (200) 200 (200 (200) 200 (200 (200) 200 (200 (200) (200 (concern discussion post stock hostage party session interest 025 business job thing company work venture lot cernment fund program deal ad risk year system room	.01367 .01367 .01367 .01367 .01060 .01017 .00770 .00715 .00715 .005915 .03691 .03633 .02406 .011358 .01143 .013547 .001358 .00949 .00784 .13358 .08268 .08268 .08268 .06240	siasii keep limit control avoid trim raise collect show reflect express sous slow say enhance continue pursue grow fuel indicate expresent expresent expect 6.016 let divide war	.01225 .01225 .01161 .00944 .00897 .00868 .00847 .0237 .05022 .03955 .03130 .02787 .01795 .01795 .01794 .01611 .01535 .01503 .01460 .01430 .014304 .014304 .014304 .01504 .01504 .01450 .01450 .01450 .01450 .01450 .01450 .01450 .01450 .01450 .01450 .01450 .01450 .01450 .01450 .01450 .01450 .01450 .01504.	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence ability strength inflation benefit support improvement 2776 273	$\begin{array}{c} .01868\\ .01818\\ .01818\\ .01785\\ .01715\\ .01678\\ .01579\\ \hline \\ .07597\\ .05279\\ .03758\\ .03269\\ .03047\\ .03012\\ .02552\\ .02153\\ .02080\\ .02062\\ .02002\\ .02002\\ .01637\\ .01353\\ .01353\\ .01348\\ .01302\\ \end{array}$
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257 cite .00242 represent .00222 seem .00217 prove .00217 allow .00200 mark .00197	claim .013 claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .010 % .009 2 .093 part .03984 way .02670 time .02601 president .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 issue .01128 case .01024 unit .00933 sign .00926 thing .00817 target .00818 question .00776 type reach .14872 sign .11051 announce .08203 approve .06145	46 f 46 f 19 fo 01 f 16 r 75 93 44 ex 88 v v crea for leas s elimina kee lo expet establii 15 .022 agreement p o	llow .017 be .017 inter .011 inter .011 inter .010 seek .000 pect .0007 te .0632 m .0517 ve .03490 te .0632 se .0097 te	705 (220) 2200 (207) 257 (207) 257 (207) 257 (207) 257 (207) 278 (207) 275 (concern discussion post stock hostage party session interest 025 business job thing company work venture lot rernment fund program deal ad risk year system room	.01367 .01367 .01367 .01367 .01367 .0160 .01017 .00770 .00715 .00715 .00715 .005915 .03691 .03633 .01850 .01860 .01934 .01934 .03633 .01850 .01850 .01850 .01850 .01138 .01143 .00826 .00784 1.13358 .00826 .03868 .06249 .05310	siasii keep limit control avoid trim raise collect show reflect express see improve slow say enhance continue pursue grow fuel indicate continue expect 6.016 let divide warr	.01225 .01225 .01161 .00944 .00897 .00868 .00847 .005022 .03955 .03130 .02787 .01795 .01795 .01795 .01795 .01795 .01795 .01503 .01611 .01503 .01430 .01430 .01304 .01304 .01304	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence ability strength inflation benefit support improvement 276 273 134	.01868 .01818 .01785 .01715 .01678 .01579 .05279 .03269 .03047 .03012 .02552 .02153 .02080 .02062 .02002 .01637 .01435 .01348 .01302
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be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 <u>type 1</u> be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257 cite .00242 represent .00217 prove .00217 allow .00201 want .00200 mark .00197	attempt .017 claim .013 effort .013 issue .013 strategy .012 option .011 application .010 amendment .010 away .02670 president .0293 part .03984 way .02670 president .02546 company .0100 reason .01314 lot .01245 problem .01181 case .01024 unit .00933 sign .00926 thing .00818 question .00776 type reach .14872 sign .11051 annouce .08203 approve .06145 pass .04008 be .03342 negotiate .02940 say .026200 introduce <td>46 f 46 f 19 fo 01 fo 16 r 75 cor 93 44 44 ex 44 ex 44 ex 44 ex 6 rr 1 creat afor leat 15 .022 agreenn p 1 let accord settlem d meas:</td> <td>llow .017 be .017 nine .011 nine .012 nine .012 nine .012 nine .011 nitrol .010 seek .000 alue .000 typ .000 do .0010 te .0032 m .0517 ve .0349 et .0349 ret .0157 ee .0148 te .0077 et .0079 ent .2375 se .0079 ent .2375 ent .2375 act .046 ion .0388 ion .0384 ion .0384 ion .024 of .023 ent .0222 eal .0192</td> <td>705 (2207 (2207 (2207 (2207 (207 (</td> <td>concern discussion post stock hostage party session interest </td> <td>.01367 .01367 .01367 .01367 .01367 .01367 .01060 .01017 .00770 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .003633 .02406 .01143 .01138 .01143 .01139 .00849 .00849 .03554 .03554 .03554 .03554 .03554 .03554 .032821 .02297 .02297</td> <td>siasi keep limit control avoid trim raise collect express see improve slow say enhance grow fuel indicate continue pursue grow fuel indicate cottinue expresent cite terpresent divide warr messs bo collect indicate collect indicate continue grow fuel indicate collect indicate indico indicate indicate indico indicate indico indicate</td> <td>01225 01225 01161 00944 00897 00868 00847 type 10237 05022 03955 03130 02787 01795 01794 01611 01535 01503 01430 0145 0 0145 0 0161 0 015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence ability strength inflation benefit support improvement 2776 273 134 376 598 597 243</td> <td>.01868 .01818 .01785 .01715 .01678 .01579 .05279 .03269 .03047 .03012 .02552 .02153 .02080 .02002 .02002 .01637 .01353 .01348 .01302</td>	46 f 46 f 19 fo 01 fo 16 r 75 cor 93 44 44 ex 44 ex 44 ex 44 ex 6 rr 1 creat afor leat 15 .022 agreenn p 1 let accord settlem d meas:	llow .017 be .017 nine .011 nine .012 nine .012 nine .012 nine .011 nitrol .010 seek .000 alue .000 typ .000 do .0010 te .0032 m .0517 ve .0349 et .0349 ret .0157 ee .0148 te .0077 et .0079 ent .2375 se .0079 ent .2375 ent .2375 act .046 ion .0388 ion .0384 ion .0384 ion .024 of .023 ent .0222 eal .0192	705 (2207 (2207 (2207 (2207 (207 (concern discussion post stock hostage party session interest 	.01367 .01367 .01367 .01367 .01367 .01367 .01060 .01017 .00770 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .003633 .02406 .01143 .01138 .01143 .01139 .00849 .00849 .03554 .03554 .03554 .03554 .03554 .03554 .032821 .02297 .02297	siasi keep limit control avoid trim raise collect express see improve slow say enhance grow fuel indicate continue pursue grow fuel indicate cottinue expresent cite terpresent divide warr messs bo collect indicate collect indicate continue grow fuel indicate collect indicate indico indicate indicate indico indicate indico indicate	01225 01225 01161 00944 00897 00868 00847 type 10237 05022 03955 03130 02787 01795 01794 01611 01535 01503 01430 0145 0 0145 0 0161 0 015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence ability strength inflation benefit support improvement 2776 273 134 376 598 597 243	.01868 .01818 .01785 .01715 .01678 .01579 .05279 .03269 .03047 .03012 .02552 .02153 .02080 .02002 .02002 .01637 .01353 .01348 .01302
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be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257 cite .00242 represent .00222 seem .00217 prove .00217 allow .00201 want .00200 mark .00197	claim .013 clfort .013 effort .013 strategy .012 option .011 application .010 amendment .010 2 .093 part .03984 way .02670 time .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 issue .01158 case .01024 unit .00933 sign .00926 thing .00818 question .00776 type reach .14872 sign .11051 announce .08203 approve .06145 pass .04008 be .03342 negotiate .02940 say .02620 introduce .01946 terminate .01562 spend .01310 veto .01293	46 f 46 f 19 fo 01 fo 16 r 75 cora 93 44 44 ex 44 ex 6 r 10 r 11 crea 12 agreem. 15 .022 agreem. p 1 contr legislat let acc settlem. d meas: p packat	$\begin{array}{llllllllllllllllllllllllllllllllllll$	705 (29) 200 (20) 207 (20) 2757 (20) 2758 (20) 2756 (20) 299 (20) 20 (concern discussion post stock hostage party session interest 025 business job thing company work venture fund program deal ad risk year system receive declare gei publist issue carcy receive delivee include	.01367 .01367 .01367 .01367 .01367 .01060 .00010 .00770 .00715 .00715 .00715 .00734 .05915 .03661 .03663 .01435 .01547 .01547 .01547 .01547 .01547 .01547 .01547 .01547 .01547 .01547 .01358 .004741 .13358 .005426 .00784 type 1 .13358 .062496 .05310 .043554 .02297 .014731 .02476 .02476 .02476 .02476 .02297 .014731	siasii keep limit control avoid trim raise collect show reflect express see improve slow say enhance continue grow fuel indicate continue express slow say enhance continue express slow say enhance continue express slow say fuel indicate cite represent <u>express</u> slow sig stc arti informati senter	01225 01225 01161 00944 00897 00868 00847 type 10237 03130 03130 03130 03130 03130 03130 03130 03130 03130 03130 01794 01795 01795 01795 01795 01795 01795 01795 01795 01795 01795 01503 01460 01430 01460 01430 01430 01430 01463 01460 01430 01430 01460 01430 01460 01430 01460 01430 01460 01460 01430 0125 01502 01502 01503 01503 01460 0140 01512 01502 01502 01502 01460 01460 01460 01460 01460 01460 01512 0150	interest bill loan capital-gains premium amount force economy concern demand sign performance return confidence ability strength inflation benefit support improvement 2773 134 176 273 134 176 278 283 351	.01868 .01818 .01785 .01715 .01678 .01579 .05797 .05279 .03758 .03269 .03047 .03012 .02552 .02153 .02062 .02062 .02002 .01637 .01435 .01353 .01348 .01302
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 <u>type 1</u> be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257 cite .00242 represent .00222 seem .00217 allow .00201 want .00200 mark .00197	claim .013 cffort .013 issue .013 strategy .012 option .011 application .010 amendment .010 2 .093 part .03984 way .02670 time .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 chairman .01181 chairman .01188 case .01024 unit .00933 sign .00926 thing .00937 target .00818 question .00776 reach .14872 sign .11051 announce .08203 approve .06145 pass .04008 be .03342 negotiate .02940 say .02620 introduce .01946 terminate .01562 spend .01310 veto .01293 adopt .01238	46 f 19 fo 01 fo 16 r 75 cora 93 44 44 ex 44 ex 44 ex 6 rr 1 crea 6 rr 1 crea 8 v 6 extended 15 .022 agreem p 1 let accord settlem. d meas: p packa let let	llow .017 be .017 nine .011 nine .012 nine .012 nine .012 nine .011 nitrol .010 seek .000 alue .000 typ do do .2044 n .0517 ve .0349 et .0349 rt .0157 ee .0148 te .0079 et .0082 se .0079 ent .2375 ent .2375 ent .2375 ent .0246 on .038 et .0247 ord .0238 ent .0224 eal .0192 cat .0153 age .0145 vel<	705 (2207 (2207 (2207 (2207 (207 (concern discussion post stock hostage party session interest 025 business job thing company work venture lot cernment fund program deal ad risk year system room senc carry received declare gublisf issu read declare gublisf issu read deliver include	.01367 .01367 .01367 .01367 .01367 .01367 .01367 .01060 .01017 .00770 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .003633 .02406 .01550 .01547 .01358 .01547 .00826 .01143 .00826 .01358 .00849 .06249 .04355 .02800 .02290 .01517 .01435 .01435 .01435 .01435	siani keep limit control avoid trim raise collect express see improve slow say enhance continue pursue grow fuel indicate continue expresent expresent expect 6.016 let divide warra messas bo n sigg stc arti informati senter	01225 01225 01161 00944 00897 00868 00847 type 10237 05022 03955 03130 02787 01795 01794 01611 01535 01794 01611 01512 01503 01460 01430 01460 01430 01460 01430 01460 01430 01460 01430 01460 01430 01460 01430 01460 01430 01460 01430 01460 01430 01460 01430 01460 0140 014	interest bill loan capital-gains premium amount force 14.030 interest growth value economy concern demand sign performance return confidence ability strength inflation benefit support improvement 276 273 134 369 597 543 543 544 553 1447	.01868 .01818 .01785 .01715 .01678 .01579 .05279 .03758 .03269 .03047 .03012 .02552 .02153 .02080 .02062 .02002 .01637 .01353 .01348 .01302
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 review .01711 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00260 include .00383 get .00257 cite .00242 represent .00222 seem .00217 allow .00201 want .00197	claim .013 cffort .013 issue .013 strategy .012 option .011 application .010 amendment .010 amendment .010 y .009 2 .093 part .03984 way .02670 time .02601 president .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 issue .011245 problem .01181 chairman .01181 issue .011245 unit .00933 sign .00926 thing .00818 question .00776 type reach .14872 sign .11051 announce .08203 approve .06145 pass .04008 be .03342 negotiate .02940 say .02620 introduce .01946 terminate .01238 propose .01138	46 f 46 f 19 fo 01 f 16 r 75 93 44 ex 88 v v v agreem agreem let accos settlem d meas p packt le resolut	llow .017 be .017 nine .011 nine .012 nine .011 nine .012 nine .011 nine .011 seek .000 alue .007 te .0910 te .0632 m .0517' ve .03490 et .0140' .0187' .0140' .0187' .0097' ee .0148' .0077' .0140' .0097' .0097' ee .0148' .0152' .0097' ee .0140' .0079' .0079'' eet .0079'' eat .016'' .01012'' .012'' ord .012'' ord .012'' ord .012'' ord .012'' ord .012''	705 (2007) 2207 (2007) 2007 (2007) 2993 (783) 7783 (783) (78	concern discussion post stock hostage party session interest 	.01367 .01367 .01367 .01367 .01367 .01367 .01367 .01060 .01017 .00715 .00715 .00793 .00715 .00793 .00795 .00795 .03633 .03633 .01437 .01358 .01435 .01143 .00982 .00784 type 1 .13358 .005310 2.05310 2.05310 2.05310 2.02821 .03554 .03554 .03554 .03554 .02800 c.02297 .01473 .01473 .01473 .01473	siasii keep limit control avoid trim raise collect show reflect express see improve slow say enhance continue pursue grow fuel indicate continue continue expect 6.016 let divide warr messa bo n sign stc informati senter pr	01225 01225 01161 00944 00897 00868 00847 type 10237 05022 03955 03130 02787 01795 01795 01795 01795 01795 01795 01795 01505 01503 01430 01430 01430 01430 01430 01363 01364 ter .062 nd .052 nd .052 cd .022 cd .022	interest bill loan capital-gains premium amount force <u>14.030</u> <u>interest</u> growth value economy concern demand sign performance return confidence ability strength inflation benefit support improvement <u>276</u> 273 134 277 278 273 134 276 275 275 275 275 275 275 275 275 275 275	.01868 .01818 .01785 .01715 .01678 .01579 .05279 .03269 .03047 .03047 .02552 .02153 .02080 .02062 .02002 .01637 .01435 .01353 .01348 .01302
be .02389 receive .02352 approve .02158 launch .02135 back .01941 withdraw .01771 announce .01688 type 1 be .86747 become .02744 find .01918 see .00639 give .00600 include .00383 get .00316 identify .00295 remain .00257 cite .00242 represent .00222 seem .00217 prove .00217 allow .00201 want .00197	claim .013 clfort .013 effort .013 strategy .012 option .011 application .010 amendment .010 2 .093 part .03984 way .02670 time .02546 company .01500 reason .01314 lot .01245 problem .01181 chairman .01181 issue .01158 case .01024 unit .00933 sign .00926 thing .00818 question .00776 type reach .14872 sign .11051 announce .08203 approve .06145 pass .04008 be .03342 negotiate .02940 say .02620 introduce .01946 terminate .01562 spend .01310 veto .01238 propose .01171 forge .01171	46 f 46 f 19 fo 01 16 r 75 cor 93 44 ex 88 v 6 r 16 r 175 cor 93 44 ex 88 v 10 crea 10		705 (29) 2200 (2007) 257 (20) 257 (20) 257 (20) 257 (20) 257 (20) 257 (20) 257 (20) 257 (20) 252 (20)	concern discussion post stock hostage party session interest job thing company work venture lot rernment fund program deal ad risk year system receive usrite declare gei publish issue carry receive gubish serve ubordinat, serve	.01367 .01367 .01367 .01367 .01367 .01367 .01017 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .00715 .03661 .03663 .01435 .001547 .011358 .001547 .011358 .001473 .001547 .008266 .00982 .00982 .00982 .00473 .03554 .02297 .01473 .01435 .01473 .01473 .01473 .01473 .01473 .01473	siasii keep limit control avoid trim raise collect show reflect express sse improve slow say enhance continue pursue grow fuel indicate continue expect 6.016 let divide warza messa boo n sig stc arti informati senter present	012256 01225 01161 00944 00897 00868 00847 type 10237 01305 005022 03955 002787 01795 01795 01794 01611 01535 01502 01503 01460 01430 01461 01502 01502 01502 01503 01503 01502 01503 01503 01503 01460 01430 01460 01430 01460 01430 01460 01430 01460 0140 0140 01502 01502 01502 01502 01502 01502 01503 01502 01503 01460 01460 01460 01460 01460 01460 01460 01460 01460 01460 01460 01460 01460 0140 0152 01502 01502 01502 01503 01460 01460 01400 0140 01512 01502 01502 01503 01460 01460 01400 01400 01502 01502 01503 01502 01502 01503 01502 01503 01460 01612 01502 01503 01460 01502 01502 01503 01502 01503 01502 01502 01502 01502 01503 01502 01502 01502 01503 01502 01502 01502 01503 01502 01503 01502 01502 01503 01502 01502 01502 01503 01502 01502 01503 01502 01502 01503 01502 01505 01503 01505 01503 01505 01503 01505	interest bill loan capital-gains premium amount force economy concern demand sign performance return confidence ability strength inflation benefit support improvement 273 134 176 276 273 134 176 276 273 134 176 276 276 277 135 176 276 277 135 176 276 277 135 176 276 277 135 176 276 277 176 276 277 177 176 276 277 177 177 177 177 177 177 177 177 177	.01868 .01818 .01785 .01715 .01678 .01579 .05797 .05279 .03758 .03269 .03047 .03012 .02552 .02153 .02062 .02002 .01637 .01435 .01353 .01348 .01302

Table 6: Half of a 32 type selection model.

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 | type | 17 .020 |
 | | typ | e 18 | .021
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 | increase
expand
 | .08773
.07881 | marke
pressur | t .25364
e .06255
 | violate
impose | .07151 | | law
right
 | .08733
.08309 | |
 |
|
 | put
 | .06053 | busines | s .03365
 | adopt | .04096 | | rule
 | .07114 | |
 |
|
 | enter
be
 | $.05256 \\ 03619$ | boar
canacit | d 02548
v 02433
 | ease | .03129
03047 | | policy
 | $05715 \\ 04352$ | |
 |
|
 | grow
 | .02317 | industr | y .02232
 | include | .02975 | r | estriction
 | .04050 | |
 |
|
 | tap
 | .01821 | membershi | p .02207
 | tighten | 02341 | | credit
 | 0.03410 | |
 |
|
 | keep
 | .01791 | econom | y .01522
 | enforce | .02030 | r | egulation
 | .03290
.02586 | |
 |
|
 | open
 | .01550 | are | a .01442
 | use | .01698 | | security
 | .02519 | |
 |
|
 | serve
hit
 | .01435
.01415 | bas
en | e .01225
d .01221
 | change
break | .01655 | ' | control
 | .02277
.02191 | |
 |
|
 | putt
 | .01408 | competitio | n .01185
 | extend | .01587 | | standard
 | .01958 | |
 |
|
 | affect
 | .01397 | countr | y .01128
 | lift | .01441 | req | uirement
 | .01490
.01227 | |
 |
|
 | help
 | .01200 | hea | d .01125
 | remove | .01323 | | duty
 | .01227 | |
 |
| type 19
 | .031
 | | | type 2
 | 0.015 | | |
 | type | 21 016 |
 |
| say .26679
 | director .(
 | 08356 | assume
611 | .05587
 | positi | ion $.12$ | 880
505 | join
 | .12423 | firm | n .13008
 |
| manage .07970
 | official .(
 | 05558 | retain | .04323
 | cont | rol .00 | 908 | cap
 | .07303 | group | 5 .05734
 |
| be .06654
 | analyst (
 | 04518 | return | .03565
 | pov | ver .04 | 743 | bank
 | .07174 | company | y .05733
 |
| tell .03499
 | xecutive .(
 | $04354 \\ 04324$ | be
share | .02827
.02387 r
 | ıma
esponsibil | age .04
itv .03 | $\frac{092}{439}$ | consult
head
 | .05825 | attention
concern | 1.0534
1.03268
 |
| include .03194
 | manager .(
 | 03607 \$ | strengthen | .02213
 | p | ost .03 | 189 | draw
 | .04459 | force | e .02934
 |
| name .02965
hire 02161
 | partner .(
 | $02709 \\ 02248$ | maintain | .02148
02047
 | c
vi | all .03 | 184
745 | indicate
 | .03417 | coupor | 1 .02364
+ 02076
 |
| market .01336
 | trader .(
 | 01837 | bear | .01857
 | ho | me .01 | 714 | trade
 | .01944 | indicato | r .01819
 |
| act .00933
 | board .(
 | 01599 | change | .01815
 | ownersh | nip .01 | 703 | attract
 | .01666 | uni
œ | t .01787
 |
| oust $.00929$
 | lawver .(
 | $01408 \\ 01362$ | 1mprove
use | .01648
 | J | der .01 | $595 \\ 501$ | stage
 | .01528 | board | e .01772
1.01306
 |
| ask .00854
 | company (
 | 01347 | shift | .01626
 | na | me .01 | 296 | focus
 | .01419 | operation | 1 .01214
 |
| appoint .00786 cc
replace .00770
 | nsultant .(
 | 01221 | place | $.01532 \\ 01465$
 | ti | tle .01 | $\frac{296}{233}$ | turn
 | .01066 | tean | n .01078
v 01048
 |
| type
 | e 22 .025
 | 01100 | | tvpe
 | 23 .053 | | | create
 | type 2 | 4.058 | , .01040
 |
| operate .23
 | 595 offi
 | cer .080 |)99 ha | ve .88780
 | 6 los | s .0358 | 89 | sell
 | .24706 | $_{\rm share}$ | .17737
 |
| build .12
 | 124 pla
 | ant .080
offt .057 | 029
795 | be $.02008$
 | 8 shar
1 offec | e .0301
+ 0281 | 26
58 | buy
 | .21141 | stock | .09721
 |
| close .03
 | 310 syst
 | em .040 | 020 g | et .00734
 | impac | t .0260 | 06 j | purchase
 | 04274 | company | .03334
 |
| manufacture .029
 | 973 st
 | ore .034 | 167 lo | se .0064
 | 1 sal | e 022 | 17 | own
 | 03560 | interest | .03095
 |
| run .01
 | 790 operati
 | ion .027 | 793 lin | it .0057
 | incom | e .0199 | 99 | total
 | 03328 | unit | .03044
 |
| turn .01
 | 747 off
 | fice 025 | 522 la | ck .00458
 | 8 problem | n .018 | 42 | hold
 | .02227 | bond | .02452
 |
| establish .010
move .013
 | 589 cen
551
 | ter 023
car 017 | 76 increa
748 ci | se .0043:
te .00373
 | 2 righ
5 pla | .t .0154
n 014' | 49
73 | be
 | 01894 | business | .02242
 |
| be .01
 | 425 compa
 | any .016 | 572 ca | st .00360
 | 6 tim | e .013 | 34 | prefer
 | 01360 | operation | .01475
 |
| fly .01:
 | 396 ho
 | me .016 | 534 ad | d 00228
 | 6 chanc
1 troubl | e .0128 | 82
57 | trade
 | .01205 | dollar | .01390
 |
| say .01
 | 300 n
 | ile .014 | 44 fe | ed .00228
 | commen | t .0120 | 08 | offer
 | .00840 | issue | .01091
 |
|
 | 149 build
 | | 9.1 1.1 |
 | | 010/ | 10 |
 | | 1 4 | 00996
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| maintain .01
 | 147 DUIIG
 | ing .011 | 27 consid | er .00198
er .0010.
 | s valu | e .0109 | 35 | inanaoaa
 | .00702 | product | 00055
 |
| lease .01
 | 147 01110
25.031
 | ing .011
eye .011 | 27 me | er .00198
an .00194
type 26
 | 1 asse | e .0109
t .0100 | 35
35 | increase
tv
 | .00702
.00684 | product
car | .00955
 |
| receive 1552
 | 147 0
25.031
6 approval
 | ing 011
eye 011 | 27 consid
27 me
rise | er 00198
an 00194
type 26
22903
 | 4 asse
.054
% .7 | e .0109
t .0109
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maintain 01. lease 0.11 receive 1.552 get .1454 win 1.162 seek .1126 gain .0719 obtain .0362 give .0281 require .0242 need .0212 lose .0194 grant .0142 demand .0124 secure .0103 award .0097 take .71341 trade .21074 handle .00380	225.031 6 approval 6 approval 7 contract 2 control 8 order 5 support 4 share 2 license 2 access 4 help 8 benefit 6 vote 2 right 0 loan 5 supcort 8 benefit 6 vote 2 control 8 share 2 license 4 help 8 benefit 6 vote 8 socs 9 stention 8 damage 2 license 4 help 8 benefit 6 vote 8 cod 8 socs 9 stention 8 damage 2 license 4 help 8 benefit 6 vote 8 socs 9 stention 8 damage 2 license 4 help 8 benefit 6 vote 8 damage 2 license 4 help 8 damage 2 license 4 help 8 benefit 6 vote 8 damage 2 license 4 help 8 damage 8 dam	$\begin{array}{c c} \operatorname{ing} & \operatorname{oll} \\ \operatorname{oge} & \operatorname{oll} \\ \hline \\ & \operatorname{oge} & \operatorname{oll} \\ \hline \\ & \operatorname{oge} & \operatorname{oll} \\ & \operatorname{oge} & \operatorname{oge} \\ & \operatorname{oge} \\ & \operatorname{oge} & \operatorname{oge} \\ & \operatorname{oge} \\ & \operatorname{oge} & \operatorname{oge} \\ & $	increase climb acquire soar allov te	er .0019; an .0019; type 26 .22903 .13168 .12219 .08785 .03445 .02992 .02925 .02474 .02385 .02474 .02385 .02474 .02385 .02474 .02292 .02291 .02001 .01167 .01167 .01167 .01089 i .00896 type w .05595 e .04996	0 Valu asse .054 % .7 point .0 cent .0 yen .0 price .0 rate .0 year .0 average .0 cost .0 bit .0 demand .0 range .0 29 .052 compa peoj invest	e .0103 t .0104 74167 07754 05860 01537 01498 00935 00935 00935 000776 00451 00328 00253 00250 00244 00231 00224 00244 00244 00244 00244 00244 00244 00244 00244 00244 00244 0026 00250 00244 0026 0026 0026 0026 0026 0026 00	pro cha disc disc cla cha cc cha cc cla cc ca ca ca ca ca ca ca ca ca ca ca ca	receive increase ty vide.2266 offer .1129 offer .2266 offer .1129 offer .112	$\begin{array}{c c} 0.00702\\ 0.00684\\ \hline \\ 0.00684\\ \hline \\ 11\\ 18\\ 16\\ 17\\ 13\\ 16\\ 17\\ 13\\ 10\\ 17\\ 10\\ 17\\ 10\\ 10\\ 17\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$	29 service .0 way .0 mation .0 detail .0 hand .0 ha	00955 5067 4967 4959 4282 4176 2648 2517 1551 1346 1045
maintain 01. lease 0.11 receive 1.552 get .1454 win 1.162 seek .1126 gain .0719 obtain .0362 give .0281 require .0242 need .0212 lose .0194 grant .0142 demand .0124 secure .0103 award .0097 await<.0078	25.031 approval contract contract contract control support damage 2 license 2 license 2 access 4 help 8 benefit 6 vote 2 right 1 damage 2 license 4 help 8 benefit 6 vote 6 systerday place advantage step	$\begin{array}{c c} \operatorname{ing} & \operatorname{oll} \\ \operatorname{eye} & \operatorname{oll} \\ \hline \\ & \operatorname{ogo} & \operatorname{oll} \\ \hline \\ & \operatorname{ogo} & \operatorname{oll} \\ & \operatorname{ogo} & \operatorname{oll} \\ & \operatorname{ogo} & \operatorname{oll} \\ & \operatorname{oll} & \operatorname{oll} \\ \\ \\ \\ \\ & \operatorname{oll} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	27 me rise yield fall be own drop jump grow increase climb decline gain hold buy acquire soar allow giv te hel	$\begin{array}{rcrc} \ (0019)\\ an \ (0019)\\ \hline (10019)\\ $	0 Vaiu asse .054 % .7 point .0 cent .0 yen .0 price .0 rate .0 year .0 average .0 cost .0 bit .0 demand .0 range .0 29 .052 compa peop invest	e .010 t .0100 t .0100 74167 07754 05860 01537 01498 00969 00935 00776 00328 00276 00223 00224 002244 002244 002241 002244 002240 00250 000500 000500 000500 000500 000500000000	pro cha disc disc crel 287 791 724 802	receive increase ty vide.2265 offer .1125 offer .1125 give .0682 give .0682 give .0682 give .0682 give .0682 give .0682 give .0682 give .0682 give .0196 seek .0199 suss .0193 suss .0193 uss .0193 uss .0193 uss .0194 give .0194 seek .0196 give .0197 give .019	$\begin{array}{c c} 0.00702\\ \hline 0.00684\\ \hline 0.$	29 service .0 way .0 mation .0 detail .0 hand	.00955 5067 4967 4529 4282 4176 2648 2517 1436 1346 1346 1346 1069 1045 1006 0998 0987 .17676 .10309 .09973 .08199
maintain 01. lease 0.11 receive 1.552 get .1454 win 1.162 seek .1126 gain .0719 obtain .0362 give .0281 require .0249 lose .0194 grant .0142 demand .0124 demand .0124 secure .0103 award .0097 await .0078 take .71341 trade .21074 handle .00334 call .00334 isolude .00234	22 .031 6 approval 6 approval 7 contract 2 control 8 order 5 support 4 share 2 license 2 access 4 help 8 benefit 6 vote 2 control 8 benefit 6 vote 8 contract 1 contract 8 contract 4 share 2 license 4 help 8 benefit 6 vote 8 contract 1 contract 4 share 2 license 4 help 8 benefit 6 vote 8 contract 2 control 8 contract 1 contract 4 share 2 license 4 help 8 benefit 6 vote 8 contract 2 control 2 control 2 contract 2 control 8 contract 2 control 2 control 8 contract 2 contract 2 control 8 contract 2 control 2	$\begin{array}{c c} \operatorname{ing} & \operatorname{oll} \\ \operatorname{eye} & \operatorname{oll} \\ \hline \\ & \operatorname{ogo} & \operatorname{oll} \\ \hline \\ & \operatorname{ogo} & \operatorname{ogo} & \operatorname{oll} \\ \hline \\ & \operatorname{ogo} & \operatorname{oll} & \operatorname{oll} \\ & \operatorname{oll} & \operatorname{oll} & \operatorname{oll} \\ \\ & \operatorname{oll} & \operatorname{oll} & \operatorname{oll} & \operatorname{oll} \\ \\ & \operatorname$	27 me rise yield fall be own drop jump grow increase climb decline gain hold buy acquire soar fill be own drop	er .0019; an .0019; type 26 .22903 .13168 .12219 .08785 .03445 .02992 .02585 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02322 .02291 .02001 .01557 .01167 .01689 i .00896 i .00896 i .00896 i .04996 p .04348 k .03069 p .04348 k .03260 .02260	.054 .054 .054 .054 .054 .054 .054 .054	e .010 t .0100 t .0100 74167 07754 05860 01537 01498 00969 00935 00776 00328 00276 00223 00224 00224 00224 00224 00224 00224 00224 00224 00224 00224 00224 0025 00250 00200 00250 00000 00000 00000 00000 00000 00000 000000	pro cha disc disc c incl ob r rela 287 791 724 802 600	receive increase ty vide.2265 offer .1129 give .0682 give .0682 get .0322 get .0322 get .0322 get .0322 use .0196 sceek .0196 sceek .0196 sceek .0196 sceek .0197 use .0197 use .0197 sceek .0196 get .0322 use .0197 sceek .0196 sceek .0196 sceek .0197 sceek .0196 sceek .0197 sceek .0	$\begin{array}{c c} 0.00702\\ 0.00684\\ \hline \\ 0.00684\\ \hline \\ 0.00684\\ \hline \\ 0.0068\\ \hline 0.0068\\ \hline 0.0068\\ \hline 0.0$	29 service .0 way .0 mation .0 detail .0 hand .0 name .0 data. 0 benefit .0 term .0 centive .0 loan .0 reason .0 reason .0 loan .0 l	.00955 5067 4967 4529 4282 4176 2648 2517 1436 1346 1346 1069 1045 1006 0998 0987 .09973 .08199 .05284 04715
maintain 01. lease 0.11 receive .1552 get .1454 win .1162 seek .1126 gain .0719 obtain .0362 give .0281 require .0249 lose .01142 demand .0124 demand .0124 demand .0124 demand .0124 secure .01033 award .0097 await<.0078	25.031 6 approval 6 approval 7 contract 2 control 8 order 5 support 4 share 2 license 2 access 2 access 4 help 8 benefit 6 vote 2 right 1 damage 2 license 4 help 8 benefit 6 vote 4 share 2 access 4 help 8 benefit 6 vote 8 stept 2 access 4 help 8 benefit 6 access 4 help 8 benefit 6 vote 8 stept 1 damage 2 stept 1 damage 1 damage 1 damage 1 damage 2 stept 1 damage 1 damage 1 damage 1 damage 1 damage 1 damage 1 damage 1 damage 1 damage 1 damage 2 stept 1 damage 1 d	$\begin{array}{c c} \operatorname{ing} & \operatorname{oll} \\ \operatorname{eye} & \operatorname{oll} \\ \end{array} \\ \hline \begin{array}{c} \operatorname{ogo} & \operatorname{oll} \\ \operatorname{oll} \operatorname$	27 me rise yield fall be own drop jump grow increase climb decline gain hold buy acquire soar fill be own drop jump grow increase climb decline gain hold buy acquire soar fill soar fill fall be own hold buy acquire soar fill fall fall fill be own hold buy acquire soar fill	er .0019; an .0019; type 26 .22903 .13168 .12219 .08785 .03445 .02992 .02585 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02585 .02474 .02585 .02474 .02585 .02474 .02585 .02474 .02585 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .025555 .02474 .02555 .02555 .02474 .02555 .02474 .02555 .02474 .025555 .02474 .025555 .02474 .025555 .02474 .025555 .02474 .025555 .02474 .025555 .02474 .025555 .02555 .02555 .02555 .02555 .02555 .02555 .025555 .025555 .025555 .025555 .02555555555 .025555555555	0 Vaiu asse .054 % .7 point .0 cent .0 yen .0 price .0 rate .0 year .0 average .0 cost .0 bit .0 demand .0 range .0 29 .052 compa peop invest governme custom employ worl	e .010 t .0100 t .0100 74167 07754 05860 01537 01498 00935 00924 00226 0026 0026 0006	35 prov cha disc c disc c c disc c c r c disc c c c r c disc c c c c c disc c c c c c c c disc c c c c c c disc c c c c c c c c c c c c c c c c c c	receive increase ty vide .2265 fffer .1122 sigve .0682 give .0682 give .0682 give .0682 get .0326 be .0196 seek .0193 vuss .0137 lear .0114 ude .0111 tain .0108 sees .0090 report post say expect include operate show	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	29 service .0 way .0 mation .0 detail .0 hand .0 name .0 data .0 benefit .0 term .0 centive .0 loan .0 reason .0 reason .0 reason .0 loan .2 loa .037 los .0 gain earning profit income sale decline	.00955 5067 4967 4529 4282 4176 2648 2517 1436 1346 1346 1069 1045 1006 0998 0987 .09973 .08199 .05284 .04575
maintain 01. lease 0.11 lease 0.11 receive 1.552: get 1.454. win 1.162: seek 1.126: gain 0.719: obtain 0.362: give 0.249: lose 0.242: lose 0.212: lose 0.124: secure 0.103: award 0.097. await 0.078: type: take take 7.1341 trade 2.1074 handle 0.0324 call .00324 call .00324 sec .00265 find .00205	25 .031 approval contract contrac	$\begin{array}{c c} \operatorname{ing} & \operatorname{oll} \\ \operatorname{eye} & \operatorname{oll} \\ \hline \\ \operatorname{ogo} & \operatorname{oll} \\ \operatorname{oll} & \operatorname{oll} \\ \operatorname{oll} & \operatorname{oll} \\ \operatorname{oll} & \operatorname{oll} \\ \operatorname{oll} \\$	27 me rise yield fall be own drop jump grow increase climb decline gain hold buy acquire soar allov giv te hel as requir sa attrac	er .0019; an .0019; type 26 .22903 .13168 .12219 .08785 .03445 .02992 .02585 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .025555 .02474 .025555 .02474 .025555 .025555 .0255555 .0255555555555	.054 .054 .054 .054 .054 .054 .054 .054	e .010 t .0100 t .0100 t .0100 74167 07754 05860 01537 01498 00969 00935 00969 00935 00264 00244 00244 00231 00224 00244 00244 00244 00244 00241 00244 00	pro cha disc disc c incl ob r rel 287 791 724 802 600 555 435 987	receive increase ty vide .2265 ffner .1122 ffner .1122 give .0682 ffnd .0455 dose .0326 get .0326 be .0196 seek .0193 use .0127 lear .0114 ude .0111 tain .0108 teed .0108 tease .0090 report post say expect include operate show attribute	$\begin{array}{c c} 0.00702\\ 0.00684\\ \hline \\ 0.00684\\ \hline \\ 10\\ 10\\ 11\\ 10\\ 10$	229 service .0. mation .0. detail .0. hand .0. hand .0. hand .0. hand .0. data .0. benefit .0. term .0. figure .0. figure .0. figure .0. figure .0. loan .0. reason .0. reason .0. reason .0. reason .0. loas. loas. gain earning profit income sale decline increase	00955 5067 4967 4529 4282 4176 2648 2517 1551 1436 1346 1069 1045 1069 1045 1069 1045 1069 1045 0998 0998 0997 09973 08199 05284 04715 04575 04519 04515 00
maintain 01. lease 0.11 lease 0.11 get 1.454. win 1.162. get 1.454. win 1.162. get 1.454. gain 0.719. obtain 0.362. give 0.249. lose 0.242. lose 0.242. lose 0.024. grant 0.124. secure 0.0103. award 0.097. await 0.078. take 7.1341 trade 2.1074 handle 0.0324 scall 0.0324 call .00324 sce 0.0264 find .00205 offset .0024 represent .0024	25.031 approval contract	$\begin{array}{c c} \operatorname{ing} & \operatorname{oll} \\ \operatorname{eye} & \operatorname{oll} \\ \end{array} \\ \hline \begin{array}{c} \operatorname{ogo} & \operatorname{oll} \\ \operatorname{oll} \operatorname$	27 me rise yield fall be own drop jump grow increase climb decline gain hold buy acquire soar allov giv te hel as requir sa attrac forc represen	er .0019; an .0019; type 26 .22903 .13168 .12219 .08785 .03445 .02992 .02585 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02325 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02355 .02474 .02585 .02474 .02585 .02474 .02585 .02474 .02585 .02474 .02585 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .025555 .02474 .025555 .02474 .025555 .02474 .025555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .02555 .02474 .00167 .0167 .0167 .00167 .00469 p.04369 .04595 .02474 .003555 .02474 .003555 .02474 .003555 .02474 .003555 .02474 .003555 .02474 .003555 .02474 .003555 .004769 p.04369 .04595 .02474 .00368 .00469 p.04369 .00469 p.04369 p.04369 .02369 .02474 .00368 .00469 p.04369 .02369 .02369 .02476 .02369 .02476 .02369 .02476 .02369 .02476 .02369 .02476 .02369 .02476 .02369 .02476 .02369 .02476 .02369 .02476 .02369 .02476 .02369 .02476 .02134 .0214 .021444 .021444 .021444 .021444 .02	.054 .054 .054 .054 .054 .054 .054 .054	e .010 t .0100 t .0100 t .0100 74167 07754 05860 01537 01498 00969 00935 00969 00935 00264 00244 00231 00224 00244 00231 00244 00244 00231 mt .02 mt .02 mt .02 mt .02 mt .02 mt .01 mt .0	pro cha disc cc disc cc incl ob relu 287 791 724 802 6000 5555 4355 9887 928	receive increase ty vide .2265 fifer .1122 give .0682 give .0682 give .0682 get .0326 be .0196 seek .0193 cuss .0132 uss .0127 lear .0114 tain .0108 ease .0090 report say expect include operate show attribute follow	$\begin{array}{c c} 0.00702\\ \hline 0.00684\\ \hline 0.$	229 service .0. mation .0. detail .0. hand .0. hand .0. hand .0. hand .0. data .0. benefit .0. term .0. figure .0. figure .0. figure .0. loan .0. reason .0. reason .0. reason .0. reason .0. loas. loas. loas. loas. earning profit income sale decline increase result result	.00955 5067 4967 4529 4282 4176 2648 2517 1551 1436 1346 1076 1069 1045 1069 1045 1098 0998 0997 .09973 .08199 .05284 .04575 .04515 .04515 .04515 .02973
maintain 01. lease 0.11 lease 0.11 receive 1.1552 get 1.454. win 1.1622 seek 1.126. gain 0.719. obtain 0.3622. give 0.2492 lose 0.02492 lose 0.02492 lose 0.0144 grant 0.01242 demand 0.01242 demand 0.01244 secure 0.1033 award 0.0078. trade 2.1074 handle .00380 offer .00343 include .00324 see .00264 find .00205 offset .00204 represent .00148	25 .031 approval contract contrac	ing .011 eye .011 .09046 .08712 .04008 c.02775 .02298 .01866 2.01866 2.01866 2.01866 2.01867 0.01258 0.01258 0.01258 0.01258 0.01258 0.01257 .01227 c.01227 .01140 0.01266 c.01406 c.01075 .05361 .03615 .03615 .03290 0.0319 .02457 .02322 .01873 .01862	Image: Constant of the consta	$\begin{array}{r} {\rm er} & .0019;\\ {\rm an} & .0019;\\ {\rm an} & .0019;\\ {\rm type} & 26;\\ .22903;\\ .13168;\\ .12219;\\ .02992;\\ .02992;\\ .02992;\\ .02992;\\ .02292;\\ .02001;\\ .02322;\\ .02201;\\ .02322;\\ .02001;\\ .01557;\\ .011657;\\ .01089;\\ {\rm i};\\ .00896;\\ {\rm i};\\ .00089;\\ {\rm i};\\ .00896;\\ {\rm i};\\ .00089;\\ {\rm i};\\ .0008;\\ .0008;\\ {\rm i};\\ .0008;\\ $.054 .054 .054 .054 .054 .054 .054 .054	e .010 t .0100 74167 07754 05860 01537 01498 00969 00935 00256 00276 00276 00276 00276 00276 00275 00276 002231 002231 00224 002231 00224 002231 00244 00231 00244 00231 00244 00244 00231 00244 00	pro- cha disc disc c cha incl ob relo 287 791 724 802 287 791 724 802 802 987 791 724 802 802 802 803 803 803 803	receive increase ty vide .2266 fifer .1122 give .0682 give .0682 give .0682 get .0320 be .0196 seek .0196 seek .0192 use .0127 lear .0112 tain .0108 ease .0090 report say expect include operate show attribute follow have generate	$\begin{array}{c c} 0.00702\\ \hline 0.00684\\ \hline pe 27.0\\ \hline 0.0684\\ \hline 11\\ \hline 18\\ \hline 18\\ \hline 18\\ \hline 19\\ \hline 17\\ \hline 19\\ \hline 10\\ \hline 17\\ \hline 17\\ \hline 10\\ \hline 10$	reduct car 29 service .0. detail .0 hand .0 hand .0 hand .0 hand .0 hand .0 data .0 benefit .0 term .0 dise .0 figure .0 figure .0 loan .0 record .0 0.037 loss gain earning profit income sale decline increase result rise result	.00955 5067 4967 4529 4282 4176 2648 2517 1436 1346 1076 1069 1045 1006 0998 0997 .0998 0997 .0997 .05284 .04715 .04519 .04247 .02973 .02688
maintain 01. lease 0.11 lease 0.11 receive 1.1552 get 1.454. win 1.1622 seek 1.126. gain 0.719. obtain 0.3622. give 0.2492 lose 0.02492 lose 0.02422 lose 0.0144 grant 0.01242 demand 0.01244 secure 0.1033 award 0.0078. trade 2.1074 handle .00380 offer .00343 include .00324 see .00264 find .00205 offset .00204 represent .00179 enjoy .00148 accent .00148	25.031 approval contract contral contract contral	$\begin{array}{c c} \operatorname{ing} & \operatorname{oll} \\ \operatorname{ope} & \operatorname{oll} \\ \end{array} \\ \hline \begin{array}{c} \operatorname{ope} & \operatorname{oll} \\ \operatorname{ope} & \operatorname{oll} \\ \operatorname{ope} & \operatorname{ope} \\ \operatorname{ope} \\ \operatorname{ope} & \operatorname{ope} \\ \operatorname{ope} \\ \operatorname{ope} & \operatorname{ope} \\ \operatorname{ope} \\ \operatorname{ope} \\ \operatorname{ope} & \operatorname{ope} \\ \operatorname$	27 me rise yield fall be own drop jump grow increase climb decline gain hold buy acquire soar alloo giv te hel as attrac forc represen protec leav	$\begin{array}{r} {\rm er} & .0019;\\ {\rm an} & .0019;\\ {\rm an} & .0019;\\ {\rm type} & 26;\\ .22903;\\ .13168;\\ .12219;\\ .02992;\\ .02992;\\ .02992;\\ .02292;\\ .02292;\\ .02292;\\ .02292;\\ .02292;\\ .02201;\\ .01257;\\ .01167;\\ .01089;\\ {\rm i};\\ .00896;\\ {\rm i};\\ .01089;\\ {\rm i};\\ .00896;\\ {\rm i};\\ .01089;\\ {\rm i};\\ .00896;\\ {\rm i};\\ .00896;\\ {\rm i};\\ .01089;\\ {\rm i};\\ .01089;\\ {\rm i};\\ .00896;\\ {\rm i};\\ .00896;\\ {\rm i};\\ .00896;\\ {\rm i};\\ .00896;\\ {\rm i};\\ .0016;\\ .0016;\\ {\rm i};\\ .0016;\\ {\rm i};\\ .0016;\\ .0016;\\ {\rm i};\\ .0016;\\ .0016;\\ {\rm i};\\ .0016$.054 .054 .054 .054 .054 .054 .054 .054	e .010 e .010 t .0100 74167 07754 05860 01537 01498 00969 00935 00765 00451 00328 00250 00244 00231 00244 00231 00244 00231 00244 00244 00231 00244 00244 00231 00244	pro- cha disc cha disc c cha cha cha c cha cha cha cha cha ch	receive increase ty vide .2266 fifer .1122 give .0682 give .0682 give .0682 get .0320 get .0320 get .0320 use .0127 lear .0112 tain .0108 ear .0114 ude .0111 tain .0108 ear .0114 report post say expect include operate show attribute follow have generate poduce	$\begin{array}{c c} 0.00702\\ 0.00684\\ \hline pe 27.0\\ 0.0684\\ \hline pe 27.0\\ 0.684\\ \hline pe 27.0\\ \hline pe 27.0\\ 0.684\\ \hline pe 27.0\\ \hline$	rotuct car 29 service .0. detail .0 hand .0 hand .0 hand .0 hand .0 hand .0 benefit .0 term .0 data .0 benefit .0 term .0 dise .0 figure .0 ifigure .0 ifigure .0 loan .0 reason .0 record .0 0.037 loas gain earning profit increase result rise drop revenue event	00955 5067 4967 4529 4282 4176 2648 2517 1436 1346 1076 1069 1045 1006 0998 0997 0998 0997 09973 005284 .04519 .04519 .02678 .02688 .02411 01580 .01580
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Table 7: The other half.

5 Application to parsing

A casual examination of clusters can at most suggest that the right sort of thing is going on; the point is to use such representations to do something that we want to do for an independent reason. In the introduction, I said that resolving many parsing ambiguities comes down to evaluating selectional compatibility between two lexical items. Given a probabilistic selection model, we can assign a probability to any verb-object pair drawn from the lexicon of 992 verbs and 1027 nouns. In order to evaluate parses, we need to include other grammatical relations. In some cases, such as subjects, this is fairly straightforward. In others, such as second complements of verbs, getting access to frequency counts is not straightforward, since identifying second complements — such as prepositional phrases — requires resolving attachment ambiguities. This can not be done systematically without the kind of lexical information we are trying to induce. Presumably, a procedure learning selectional restrictions for second complements would have to initially consider several attachments, and iteratively learn the lexical information required for disambiguation. This method is applied to simpler data (paying attention just to prepositions and not the heads of their objects) in Hindle and Rooth [Hindle and Rooth, 1993].

To investigate the possibility of disambiguating syntactic ambiguities with selectional information, I considered the past participle vs. tensed verb ambiguity of *sold* in positions immediately following a noun phrase. In the first example below, *sold* is a tensed verb, and the preceding noun *administration* is the head of its subject, describing the agent. In the second example, *sold* is a participial post-modifier, and the preceding noun phase denotes the sold object.

- (11)a. 10604815 evidence that the Reagan administration sold arms to Iran
 - b. 3001228 represented payments for arms sold to Nicaraguan insurgents

The situation is actually more complex, since *sold* occurs frequently in the middle construction, with a syntactic subject filling the semantic role of a sold object, rather than the seller:

(12) $_{2979922}$ The franchise sold in 1979 for \$11 million

To sidestep this problem, I defined the problem to be solved as one of identifying the semantic relation (seller or sold object) of the noun phrase, rather than identifying a grammatical relation or part of speech. In other words, the middle constructions are grouped with the postmodifiers. By hand, I classified the first relevant occurrence of each noun-*sold* pair in the full Wall Street Journal corpus from [Liberman, 1992]. Of the 1027 nouns in the model, 220 were represented in this configuration, of which 87 were past tense verbs, 118 were participial postmodifiers, and 15 middle constructions. An augmented selection model was obtained (in a somewhat ad hoc way) by adding two additional verbs sold/VBN and sold/VBD to the verb set. Training material consisted similar but independent data.⁷ The model was used to classify the 220 test examples by means of the ratio:

 $\frac{p_{\text{sold/VBD},n}}{p_{\text{sold/VBD},n} + p_{\text{sold/VBN},n}}$

Pairs with a score greater than 0.5 were assigned to the seller role, and those with a lower score to the sold object role. Of the 118 post-modifier pairs, 110 were correctly classified into the sold object role. Of the 87 ordinary subjectverb items, 69 were correctly classified into the seller role. Of the 15 instances of the middle construction, 11 were correctly classified into the sold object role. This gives an rate of correct classification of 86.4%. The disambiguation scores are listed in tables 5, 5, and 5. Appositely, the least ambiguous instance of the seller role is the noun *seller*. The least ambiguous example of the sold object role is *output*. Many of the problematic nouns — those with scores below 0.5 in table 5 — name institutions which can be agents, but can also be bought and sold, for instance *company*, *airline*, and *store*. Since companies are actually described in the Wall Street Journal both as being sold and as selling things, we would not expect a selectional approach to be uniformly successful in this case. However, we want to resolve clear cases correctly — artefacts, materials, and financial instruments are unambiguos sold objects, and people are unambiguous sellers. With few exceptions, such clear cases are resolved correctly.

6 Matrix formulation

The definition of $p_{v,n}$ from section 3 can be written as a matrix product. Let L be the $V \times k$ matrix representing the verb probabilities, $L_{i,\tau} = p_i^{\tau}$, let R be the $N \times k$ matrix representing the noun probabilities, $R_{j,\tau} = p_j^{\tau}$, and let D be a diagonal matrix representing the type probabilities, $D_{\tau,\tau} = p_{\tau}$. Then a derived probability distribution on $V \times N$ is given by a matrix product:

$$LDR^{T} \qquad [L_{v/t}D_{t/t}[R_{n/t}^{T}]_{t/n}]_{v/n}$$
(1)

In the version on right, the subscripts give matrix dimensions in categorial notation, v being the verb cardinality, t the type cardinality, and n the noun cardinality; R^T is the transpose of the matrix R, $[R^T]_{i,j} = R_{j,i}$.

Proposition. Suppose L,D, and R are probability matrices as described above, that is:

$$\forall \tau \left[\sum_{i} L_{i,\tau} = 1\right] \quad \forall \tau \left[\sum_{j} R_{j,\tau} = 1\right] \quad \sum_{\tau} D_{\tau,\tau} = 1$$

⁷In writing this section, I found that the training data and my record of how they were constructed had been lost. Therefore, the evaluation will be redone, and final results may differ from those described here.

output	.00000	volume	.00001	suit	.01225	gasoline	.04458
bill	.04526	missile	.05726	movie	.07933	system	.08979
technology	.09182	package	.09475	film	.09783	advertising	.11294
material	.11427	shoe	.11488	oil	.12449	product	.12479
chip	.12479	plant	.12868	device	.13161	merchandise	.13183
good	.13240	car	.13363	machine	.13475	operation	.13514
barrel	.13680	building	.13923	loan	.14066	document	.14141
gold	.14160	copy	.14185	debt	.14402	truck	.14454
debenture	.14468	bond	.14542	brand	.14633	$_{\rm share}$.14641
gas	.14673	food	.14708	coverage	.14758	certificate	.14839
inventory	.14886	stake	.14924	asset	.14957	acre	.15149
phone	.15157	property	.15334	note	.15414	version	.15509
warrant	.15515	ticket	.15528	block	.15751	card	.15806
pound	.16148	business	.16485	home	16962	contract	.17100
computer	.17181	steel	.17360	show	.17449	amount	.17630
dollar	.18039	program	.18111	aircraft	.18204	insurance	.18227
engine	.18332	book	.18543	site	.19478	line	.19487
land	.19565	drug	.19588	security	.19686	weapon	.19701
test	.19931	tape	.20481	item	.21203	house	.21365
rest	.21706	plane	.21825	station	.21854	piece	.22123
paper	.22272	mark	.22307	import	.22753	arm	.23139
model	.23296	magazine	.23470	$_{\mathrm{call}}$.24358	billion	.24488
service	.25488	issue	.25688	work	.25714	policy	.26237
energy	.26286	supply	.26545	position	.29452	vehicle	.29797
thrift	.30081	collection	.30386	list	.33147	ad	.33409
million	.33923	game	.34198	one	.34246	shipment	.38118
art	.38336	article	.39738	newspaper	.39756	type	.41898
set	.43282	transaction	.45646				
hospital	.55241	kind	.68506	player	.69998	export	.71760
switch	.74617	agent	.75588	animal	.84308	premium	.84474

Table 8: Disambiguation scores for NP/postmodifier combinations. Items above the line are correctly classified.

trade	.00001	effort	.08683	plan	.11405	shop	.14468
estate	.16620	division	.17522	store	.17609	unit	.23540
subsidiary	.26404	account	.27786	network	.32662	fund	.32709
company	.36211	trust	.39613	partnership	.40965	concern	.43930
airline	.44054	institution	.46481				
giant	.50438	team	.54480	parent	.59502	organization	.63279
operator	.63752	utility	.63796	insurer	.64974	bank	.66487
industry	.66728	couple	.67811	manager	.68160	maker	.70603
country	.71725	firm	.72093	manufacturer	.72645	shareholder	.74399
foreigner	.75349	room	.75649	lender	.75983	group	.77943
corporation	.78073	husband	.80379	publisher	.80626	developer	.81175
nation	.83127	stockholder	.83832	state	.87692	family	.88925
school	.89850	broker	.90178	individual	.90353	executive	.90404
producer	.90640	agency	.91013	partner	.93265	customer	.94037
wife	.94645	chairman	.94838	holder	.95723	board	.95960
man	.96147	department	.96479	father	.96875	dealer	.97063
people	.97064	member	.97166	investor	.97463	brother	.97580
employee	.97603	plaintiff	.97753	world	.97878	government	.98305
defendant	.98917	farmer	.99021	friend	.99417	lawyer	.99551
trader	.99737	official	.99850	client	.99883	owner	1.00000
administration	1.00000	analyst	1.00000	buyer	1.00000	director	1.00000
foundation	1.00000	officer	1.00000	participant	1.00000	president	1.00000
seller	1.00000						

Table 9: Disambiguation scores for agent/verb combinations. Items below the line are correctly classified.

offering	.13354	metal	.14244	apartment	.14495	stock	.14550
franchise	.15312	membership	.16785	future	.19601	seat	.27562
price	.43852	hundred	.44699	$\operatorname{conference}$.49000		
other	.57470	thing	.65876	target	.99409	run	.99997

Table 10: Disambiguation scores for middle constructions. Items above the line are correctly classified.

Then $\sum_{i,j} [LDR^T]_{i,j} = 1$. In the verification below, M_i and M_{j} denote the *i*th row and *j*th column of a matrix M, respectively.

$$\begin{split} [DR^T]_{\tau,j} &= D_{\tau} \cdot [R^T]_{\cdot j} \\ &= D_{\tau} \cdot R_j. \\ &= D_{\tau,\tau} R_{j,\tau} \qquad (\text{since } D \text{ is diagonal}) \\ [LDR^T]_{i,j} &= L_i \cdot [DR^T]_{\cdot j} \\ &= \sum_{\tau} L_{i,\tau} [DR^T]_{\tau,j} \\ &= \sum_{\tau} L_{i,\tau} D_{\tau,\tau} R_{j,\tau} \qquad (\text{previous equality}) \\ \sum_{i,j} [LDR^T]_{i,j} &= \sum_{i,j} \sum_{\tau} L_{i,\tau} D_{\tau,\tau} R_{j,\tau} \qquad (\text{previous equality}) \\ &= \sum_{\tau} D_{\tau,\tau} \left(\sum_i L_{i,\tau} \left(\sum_j R_{j,\tau} \right) \right) \\ &= \sum_{\tau} D_{\tau,\tau} \left(\sum_i L_{i,\tau} \right) \qquad (\text{second assumption}) \\ &= 1 \qquad (\text{third assumption}) \end{split}$$

So, we are justified in describing the matrix product as a probability distribution on $V \times N$. This representation is reminiscent of singular value decompositon of matrices (SVD): in fact the such a decompositon takes exactly the form (1). However, the constraints on L and R are different: in SVD, they are orthonormal, meaning that any two distinct rows a null dot product, and the dot product on any row with itself is 1. These conditions are different from those imposed by the interpretation as probability matrices. One symptom of this is that a SVD approximation of a frequency matrix may contain negative entries.

A further difference has to do with the relation between the product matrix and the original data. In SVD, the product provides the best least squares fit to the frequency matrix, of a given rank. What is being optimized in the probability model is most easily understood as the probability of the observed sequence of verb-noun pairs. This can be written:

$$\prod_{v,n} p_{v,n}^{f_{v,n}}$$

In entropy terms, we seek to minimize

$$\sum_{v,n} f_{v,n} \left(-\log_2 p_{v,n} \right)$$

This is quite different from the least-squares criterion.

References

- [Church et al., 199x] Church, K. W., Gale, W. A., Hanks, P., and Hindle, D. (199x). Using statistics in lexical analysis. In Zernik, editor, Lexical acquisition: exploiting on-line resources to build a lexicon.
- [Hindle, 1983] Hindle, D. (1983). User manual for fidditch, a deterministic parser. Technical Memorandum 7590-142, Naval Research Laboratory.
- [Hindle, 1993] Hindle, D. (1993). A parser for text corpora. In Atkins, B. and Zampolli, A., editors, *Computational Approaches to the Lexicon*. Oxford University Press, Oxford.
- [Hindle and Rooth, 1993] Hindle, D. and Rooth, M. (1993). Structural ambiguity and lexical relations. *Computational Linguistics*, 18:xx-yy.
- [Liberman, 1992] Liberman, M. (1992). ACL-DCI CD ROM 1. Association for Computational Linguistics.