

Comparison of N-Gram¹ Rank Frequency Data from the Written Texts of the British National Corpus World Edition (BNC) and the author's Web Corpus

Both sets of texts were preprocessed to provide comparable data.

British National Corpus. For simplicity's sake, all text within <body> tags in the BNC data files was assumed to be written text. It was extracted from the files, then all SGML tags including grammatical markup were stripped from it and SMGL entities were expanded to the corresponding characters. Spaces around orthographic word-interior hyphen and apostrophe were removed. The resulting text data were amalgamated into nine large data files with 87,221,955 tokens total for further processing.

Web Corpus. The 4949 documents which survived the various "filters" and selection processes elaborated elsewhere were combined into a single file with 5,382,595 tokens total to facilitate processing (approximately 1/16 of the size of the BNC written corpus).

Both Corpora. With the author's software kfNgram² frequency lists of 1-, 2-, 3-, 4-, 5-, 25-, and 50-grams in the two corpora were produced. Relevant options chosen were: not case-sensitive, preserve word-interior hyphens and apostrophes, replace numerals with #, sort on the first 2048 characters of each n-gram, floor (i.e. minimum frequency for inclusion in the final list) 50. Standard kfNgram character remapping was chosen, so boundaries between sentences, paragraphs and even entire texts were ignored on the reasonable assumption that the random pseudo-n-grams resulting from this expediency would fall below the relatively high threshold chosen.

The 5000 most frequent alphabetic³ n-grams for each value of n were then imported into a Microsoft Access database for further analysis. Three sets of queries yielded the record sets reproduced below (since these are frequency *ranks*, *lower* numbers reflect *higher* frequencies):

1. N-grams with a rank frequency of 1 to 250 in both corpora
2. N-grams with a rank frequency of 1 to 200 in one corpus and greater than 300 (i.e. relatively less frequent) in the other
3. N-grams with a rank frequency of 1 to 500 in one corpus not among the 5000 most frequent in the other.

Future. In this study no attempt was made to normalize spelling (e.g. *-ize* / *-ise*, *-er* / *-re*, *-or* / *-our*, as well as tendencies to write certain compound nouns with a hyphen, a space or without a space) between the predominantly British BNC texts and the American-biased Web documents, a planned refinement that will enhance comparability in the future.

¹ The term *n*-gram is understood here as a sequence of n words, also variously known as *cluster*, *lexical bundle*, or *chain*. In other fields this term is also used to mean sequence of n characters.

² Information on kfNgram and free download are available at <http://kwicfinder.com/kfNgram/>. Other tools used for this analysis either are already or will soon be available there as well.

³ Since in a preliminary analysis the great variety of numeric data obscured the patterns of linguistic data, all n-grams containing numerals were excluded from this analysis.

Similarities between British National Corpus and Web Corpus Data

Dataset 1:

50 most frequent n-grams from those with a rank frequency of 1 to 250 in both corpora, ordered by rank frequency in BNC and in WC respectively

Top 50 Shared Frequent 1-grams BNC Order		
1-Gram	BNC Rank	Web Rank
the	1	1
of	2	2
to	3	4
and	4	3
a	5	5
in	6	6
is	7	7
that	8	9
for	9	8
was	10	24
it	11	16
on	12	10
with	13	11
as	14	17
be	15	12
he	16	39
by	17	19
i	18	20
at	19	21
are	20	14
not	21	25
from	22	22
his	23	44
this	24	13
had	25	68
but	26	33
have	27	23
you	28	15
which	29	35
or	30	18
an	31	26
they	32	36
she	33	155
her	34	130
were	35	53
their	36	41
been	37	55
has	38	34
all	39	30
one	40	38
will	41	27
there	42	47
we	43	28
if	44	32
would	45	62
can	46	31
more	47	37
when	48	49
so	49	61
who	50	54

Top 50 Shared Frequent 1-grams Web Order		
1-Gram	BNC Rank	Web Rank
the	1	1
of	2	2
and	4	3
to	3	4
a	5	5
in	6	6
is	7	7
for	9	8
that	8	9
on	12	10
with	13	11
be	15	12
this	24	13
are	20	14
you	28	15
it	11	16
as	14	17
or	30	18
by	17	19
i	18	20
at	19	21
from	22	22
have	27	23
was	10	24
not	21	25
an	31	26
will	41	27
we	43	28
your	81	29
all	39	30
can	46	31
if	44	32
but	26	33
has	38	34
which	29	35
they	32	36
more	47	37
one	40	38
he	16	39
about	57	40
their	36	41
new	74	42
other	61	43
his	23	44
information	206	45
our	100	46
there	42	47
may	69	48
when	48	49
these	76	50

Top 50 Shared Frequent 2-grams BNC Order		
2-Gram	BNC Rank	Web Rank
of the	1	1
in the	2	2
to the	3	3
on the	4	4
and the	5	6
to be	6	7
for the	7	5
at the	8	8
it is	9	12
by the	10	11
that the	11	14
with the	12	9
of a	13	15
from the	14	10
it was	15	39
in a	16	16
as a	17	18
with a	18	23
is a	19	13
he was	20	124
for a	21	22
have been	22	34
will be	23	17
had been	24	230
as the	25	26
was a	26	92
is the	27	19
the first	28	27
one of	29	31
to a	30	25
has been	31	30
there is	32	35
and a	33	37
can be	34	21
the same	35	32
into the	36	57
would be	37	60
of his	38	117
is not	40	33
out of	42	87
on a	43	41
this is	44	28
all the	45	54
was the	46	134
to have	47	96
may be	49	38
over the	50	78
they are	51	52
there are	52	42
that it	53	108

Top 50 Shared Frequent 2-grams Web Order		
2-Gram	BNC Rank	Web Rank
of the	1	1
in the	2	2
to the	3	3
on the	4	4
for the	7	5
and the	5	6
to be	6	7
at the	8	8
with the	12	9
from the	14	10
by the	10	11
it is	9	12
is a	19	13
that the	11	14
of a	13	15
in a	16	16
will be	23	17
as a	17	18
is the	27	19
if you	75	20
can be	34	21
for a	21	22
with a	18	23
you can	134	24
to a	30	25
as the	25	26
the first	28	27
this is	44	28
of this	63	29
has been	31	30
one of	29	31
the same	35	32
is not	40	33
have been	22	34
there is	32	35
in this	62	36
and a	33	37
may be	49	38
it was	15	39
such as	71	40
on a	43	41
there are	52	42
number of	65	43
you are	161	44
about the	64	45
should be	54	46
the world	118	47
as well	102	48
the most	66	49
you have	188	50

Top 50 Shared Frequent 3-grams BNC Order		
3-Gram	BNC Rank	Web Rank
one of the	1	1
the end of	2	14
as well as	3	2
part of the	4	5
out of the	5	32
a number of	6	8
there is a	7	11
some of the	8	7
there was a	9	164
end of the	10	34
the fact that	12	36
it was a	13	124
in order to	14	6
there is no	15	18
be able to	16	10
to be a	17	24
it is not	18	25
it would be	19	76
the number of	20	17
at the end	21	56
it is a	22	33
a lot of	23	9
the use of	24	13
in terms of	25	44
that it is	27	47
most of the	28	31
on the other	29	74
the rest of	30	65
members of the	31	42
as a result	32	39
in the first	33	50
at the same	34	45
at the time	35	53
the first time	37	118
for the first	40	84
the same time	41	59
to be the	42	68
have to be	43	91
because of the	44	67
and in the	45	102
in the same	46	96
would have been	47	230
in which the	48	85
it is the	49	66
side of the	50	137
the united states	51	4
this is a	53	19
a series of	54	107
is to be	55	163
many of the	56	70

Top 50 Shared Frequent 3-grams Web Order		
3-Gram	BNC Rank	Web Rank
one of the	1	1
as well as	3	2
the united states	51	4
part of the	4	5
in order to	14	6
some of the	8	7
a number of	6	8
a lot of	23	9
be able to	16	10
there is a	7	11
the use of	24	13
the end of	2	14
if you are	130	16
the number of	20	17
there is no	15	18
this is a	53	19
to be a	17	24
it is not	18	25
would like to	196	28
this is the	70	29
a variety of	114	30
most of the	28	31
out of the	5	32
it is a	22	33
end of the	10	34
in the world	65	35
the fact that	12	36
in addition to	181	37
back to the	58	38
as a result	32	39
of the most	62	40
the development of	57	41
members of the	31	42
in terms of	25	44
at the same	34	45
in the united	190	46
that it is	27	47
the department of	249	49
in the first	33	50
of the world	103	51
at the time	35	53
is one of	91	54
as part of	101	55
at the end	21	56
based on the	205	57
member of the	98	58
the same time	41	59
according to the	102	61
the rest of	30	65
it is the	49	66

Top 50 Frequent Shared 4-grams BNC Order		
4-Gram	BNC Rank	Web Rank
the end of the	1	1
at the end of	2	4
at the same time	3	3
for the first time	4	21
on the other hand	5	14
as a result of	6	7
the rest of the	7	13
in the case of	9	19
one of the most	10	10
by the end of	12	53
is one of the	13	8
on the basis of	14	26
at the time of	15	18
in the form of	16	31
as well as the	17	9
to be able to	18	22
in the middle of	19	67
the top of the	20	32
a member of the	21	17
the fact that the	22	56
a wide range of	24	23
the nature of the	25	50
was one of the	26	60
a great deal of	27	48
at the beginning of	28	40
will be able to	29	16
the middle of the	30	74
it is possible to	31	90
as part of the	34	24
in the context of	35	61
in the united states	37	2
in the course of	38	166
is likely to be	39	198
in terms of the	40	128
it is important to	41	35
a result of the	42	62
in front of the	47	69
in the first place	48	47
the beginning of the	49	45
the time of the	51	70
from time to time	52	27
in the absence of	53	123
it is difficult to	54	184
on the part of	58	107
at the top of	60	75
in the face of	62	206
that there is a	63	112
the size of the	64	51
for a long time	68	116
the role of the	72	77

Top 50 Frequent Shared 4-grams Web Order		
4-Gram	BNC Rank	Web Rank
the end of the	1	1
in the united states	37	2
at the same time	3	3
at the end of	2	4
at the university of	220	5
if you want to	93	6
as a result of	6	7
is one of the	13	8
as well as the	17	9
one of the most	10	10
the rest of the	7	13
on the other hand	5	14
will be able to	29	16
a member of the	21	17
at the time of	15	18
in the case of	9	19
for the first time	4	21
to be able to	18	22
a wide range of	24	23
as part of the	34	24
on the basis of	14	26
from time to time	52	27
the name of the	101	28
in addition to the	94	30
in the form of	16	31
the top of the	20	32
i would like to	113	33
can be used to	127	34
it is important to	41	35
in accordance with the	142	38
for the purpose of	186	39
at the beginning of	28	40
the bottom of the	81	41
a copy of the	172	43
the beginning of the	49	45
the use of the	79	46
in the first place	48	47
a great deal of	27	48
the nature of the	25	50
the size of the	64	51
by the end of	12	53
the fact that the	22	56
one of the best	158	57
as well as a	108	58
was one of the	26	60
in the context of	35	61
a result of the	42	62
a wide variety of	192	64
a large number of	83	66
in the middle of	19	67

Differences between British National Corpus and Web Corpus Data

Dataset 2:

N-grams with a rank frequency of 1 to 200 in one corpus and greater than 300 (i.e. relatively less frequent) in the other

200 most frequent 1-grams in BNC data Ranked 300 or lower in Web data		
1Gram	BNC Rank	Web Rank
mr	123	371
per	139	304
man	146	414
again	151	346
old	153	319
never	155	331
thought	160	729
away	170	513
left	175	391
although	178	394
going	179	323
put	181	349
social	182	488
came	184	566
though	186	507
rather	189	499
always	190	358
got	191	508
until	195	357
cent	196	1648

200 most frequent 1-grams in Web data Ranked 300 or lower in BNC data		
1gram	BNC Rank	Web Rank
available	301	123
c	451	192
computer	708	182
contact	933	194
data	490	120
file	1773	186
free	433	146
including	327	196
links	2274	187
list	808	167
name	363	160
news	688	139
page	1011	70
please	924	184
program	2380	113
project	638	199
s	755	89
search	1367	135
services	332	111
site	1054	67
software	1018	173
students	642	147
systems	521	193
university	586	114
using	344	150

200 most frequent 2-grams in BNC data Ranked 300 or lower in Web data		
2-gram	BNC Rank	Web Rank
against the	195	501
and he	143	560
as he	170	945
can not	135	4008
had to	117	385
he had	39	446
he said	74	384
i don't	155	330
i had	181	389
it would	127	303
like a	171	465
of her	131	817
per cent	48	623
she had	83	2699
she was	55	739
that there	187	327
the government	159	305
the house	179	520
the whole	192	403
there were	148	416
they had	186	693
this was	191	515
to her	200	1752
to his	175	460
was to	184	707
when he	153	474
who had	193	1026

200 most frequent 2-grams in Web data Ranked 300 or lower in BNC data		
2-gram	BNC Rank	Web Rank
all of	459	112
based on	326	133
be used	363	163
department of	987	152
for more	1317	162
go to	480	193
have the	312	158
how to	475	76
in addition	542	178
information about	2183	195
information on	2314	153
like to	424	197
list of	1248	190
new york	966	122
of your	432	137
on this	584	141
return to	833	157
that are	753	146
the state	468	167
the united	306	119
the university	1123	116
to help	342	184
to provide	394	168
to this	404	183
to use	321	103
united states	640	98
university of	2233	86
use the	796	175
when you	514	200
you may	898	181
you to	492	155
you will	337	89

200 most frequent 3-grams in BNC data Ranked 300 or lower in Web data		
3-gram	BNC Rank	Web Rank
a great deal	154	371
a matter of	113	338
a range of	187	311
and it was	84	385
and so on	127	367
and that the	182	372
as a whole	165	632
away from the	121	657
between the two	185	569
but it was	80	635
by the end	179	745
by the time	192	827
cent of the	93	2631
for a moment	174	3848
had to be	69	532
has to be	119	457
he did not	169	1117
he had been	77	2034
he was a	106	869
in favour of	197	2865
in relation to	108	347
in the middle	116	348
in the uk	88	588
is likely to	115	411
it had been	117	1866
it is possible	184	320
it was not	71	555
it was the	38	343
of the house	161	678
on to the	76	836
per cent of	11	638
secretary of state	100	1880
so that the	157	363
that he had	82	1271
that he was	52	470
that of the	180	612
that there was	158	980
the age of	152	484
the back of	124	1505
the centre of	164	4926
the effect of	156	650
the house of	122	860
the idea of	120	595
the level of	188	321
the middle of	163	472
the prime minister	155	3177
the secretary of	134	1726
the united kingdom	159	1101
the work of	168	314
to have been	60	462
to say that	183	536
was going to	149	989
was in the	177	945
was one of	133	369

200 most frequent 3-grams in BNC data Ranked 300 or lower in Web data		
3-gram	BNC Rank	Web Rank
was to be	128	2394
would be a	172	376
would have to	138	364
would not be	198	687

200 most frequent 3-grams in Web data Ranked 300 or lower in BNC data		
3-gram	BNC Rank	Web Rank
a copy of	762	161
a list of	626	60
a part of	760	182
a set of	413	193
all of the	565	20
around the world	1725	125
at the university	1605	71
can be found	1252	108
due to the	312	126
each of the	373	99
go to the	389	112
his or her	623	148
history of the	743	175
if you want	546	48
if you would	4128	194
in accordance with	496	90
in new york	710	183
in the future	412	122
information about the	1457	113
information on the	2488	116
more than one	445	173
name of the	1099	184
of the united	661	81
of the university	1992	178
return to the	677	117
that can be	548	88
the ability to	586	100
the history of	316	101
the office of	2187	191
the purpose of	398	95
the state of	518	179
the university of	468	12
there are many	444	180
to create a	742	199
to find out	395	177
to the top	1281	200
to use the	354	110
version of the	666	156
what is the	724	136
with respect to	1127	130
you do not	1213	167
you have a	556	83
you want to	4843	22

200 most frequent 4-grams in BNC data Ranked 300 or lower in Web data		
4-gram	BNC Rank	Web Rank
the way in which	23	650
the back of the	33	444
in the light of	45	411
in the same way	46	366
at the age of	67	398
in an attempt to	69	324
on the one hand	70	532
at a time when	71	727
the other side of	73	369
the side of the	76	419
there has been a	77	353
on the other side	78	327
it is clear that	80	466
i don't want to	82	999
for the rest of	85	306
it would have been	90	413
nothing to do with	97	884
are likely to be	104	304
other side of the	106	839
the case of the	109	417
on the edge of	110	1014
by the fact that	112	671
in a number of	115	307
that it would be	116	506
it would be a	118	832
at the expense of	120	811
at the start of	123	918
in the hands of	125	387
turned out to be	126	424
as a means of	129	565
the heart of the	145	330
of a number of	150	440
as far as the	152	982
to deal with the	156	423
that it is not	166	348
one of the few	167	503
of the fact that	171	501
on top of the	174	762
the same time the	179	352
in spite of the	185	435
for the sake of	188	584
the creation of a	189	474
but it is not	191	816

200 most frequent 4-grams in Web data Ranked 300 or lower in BNC data		
4-gram	BNC Rank	Web Rank
in an effort to	314	183
all over the world	316	83
of the united states	322	11
to the top of	324	82
can be found in	334	65
is part of the	336	105
some of the most	341	150
in the field of	357	190
to make sure that	359	172
is based on the	396	149
the purpose of the	401	152
the results of the	411	154
if you have a	421	36
the best way to	423	81
in the area of	491	159
to return to the	505	79
the president of the	534	193
to the united states	596	173
the story of the	612	163
have the right to	615	176
a few of the	712	125
in the near future	716	197
if you wish to	934	85
of the university of	985	49
if you do not	1069	55
of the department of	1153	169
the purpose of this	1205	162
the united states the	1310	153
if you are a	1689	106
you don't have to	1623	99
take a look at	2040	44
the office of the	2088	179
a look at the	2099	141
if you would like	2264	25
having regard to the	2372	148
if you have any	2518	29
if you are not	2313	127
for a period of	2438	165
is a member of	2455	160
on a regular basis	2775	110

Differences between British National Corpus and Web Corpus Data

Dataset 3:

N-grams with a rank frequency of 1 to 500 in one corpus not among the 5000 most frequent in the other.

500 most frequent 1-grams in BNC data
Missing among 5000 most frequent in Web data

[None]

500 most frequent 1-grams in Web data Missing among 5000 most frequent in BNC data		
Rank	1-Gram	Freq
72	web	6360
117	internet	3740
158	http	2918
178	click	2637
231	center	2138
234	online	2121
236	copyright	2111
237	email	2110
252	e-mail	1980
283	server	1792
314	u.s	1669
318	©	1640

500 most frequent 2-grams in BNC data Missing among 5000 most frequent in Web data		
BNC Rank	2-Gram	Freq
297	as she	11719
439	she could	8859
449	at her	8803
463	the police	8653
485	see p	8346

500 most frequent 2-grams in Web data Missing among 5000 most frequent in BNC data		
Web Rank	2-gram	Freq
64	web site	1716
84	the internet	1487
100	click here	1354
110	this site	1281
113	the web	1264
140	home page	1119
151	all rights	1016
154	rights reserved	1005
160	this page	976
232	more information	782
243	copyright ©	745
282	contact us	661
299	the u.s	635
302	the program	631
307	links to	629
318	click on	615
395	here for	529
399	real estate	525
419	welcome to	502
426	web page	495
440	space ghost	485
463	to top	467
477	site is	455
493	check out	445

500 most frequent 3-grams in Web data Missing among 5000 most frequent in BNC data		
BNC Rank	3-Gram	Freq
39	can not be	7109
83	read in studio	5019
141	video-taped report follows	3765
213	she had been	3084
297	the labour party	2610
336	that she had	2443
359	of state for	2360
383	my hon friend	2291
394	so far as	2260
417	but there was	2197
461	on the floor	2030
488	but he was	1964
494	the sound of	1957
495	they had been	1957
497	he had to	1953

500 most frequent 3-grams in Web data Missing among 5000 most frequent in BNC data		
Web Rank	3-Gram	Freq
3	all rights reserved	1002
21	click here to	534
23	for more information	524
26	on the web	480
27	on the internet	479
43	table of contents	371
52	click here for	352
62	click on the	330
64	you need to	325
73	back to top	294
75	this web site	286
77	world wide web	285
87	top of page	273
97	how do i	263
119	you will be	241
128	you would like	229
145	inc all rights	218
155	on this site	209
165	this site is	201
171	the world wide	195
185	of the corporation	187
190	welcome to the	182
201	the mutual fund	176
210	frequently asked questions	171
215	you have any	171
228	percent of the	167
232	more information on	166
240	you will find	164
241	allows you to	163
242	be sure to	163
253	you can find	161
254	you can use	161

500 most frequent 3-grams in Web data Missing among 5000 most frequent in BNC data		
Web Rank	3-Gram	Freq
256	available on the	160
257	of the internet	160
285	you can also	153
288	check out the	151
303	this page is	148
315	you will need	145
316	more information about	144
318	to the internet	144
323	your web site	143
327	cost to advertiser	141
333	feel free to	140
336	terms and conditions	140
352	in the u.s	136
353	on the net	136
360	new york city	135
388	learn more about	130
389	return to top	130
402	you wish to	128
407	the web site	127
415	portion of the	125
416	a web site	124
435	university of texas	122
450	are interested in	119
468	how to use	117
480	in the state	116
481	links to other	116
483	take a look	116
485	the internet and	116
497	microsoft internet explorer	114
499	where you can	114

500 most frequent 3-grams in BNC data Missing among 5000 most frequent in Web data		
BNC Rank	5-gram	Freq
12	ask the secretary of state	590
13	at the back of the	574
14	at the end of a	459
15	at the start of the	458
16	award type research grant project	430
17	but at the same time	426
18	at the other end of	365
19	as in the case of	291
20	at the foot of the	268
21	for now our next bulletin	262
22	department of trade and industry	235
23	award type research development substantive	231
24	development substantive award ref no	231
25	all from us for now	229
26	evening anne dawson wesley smith	226
27	does my right hon friend	224
28	by the secretary of state	218
30	bbc summary of world broadcasts	186
31	and up at two marks	182
33	ask the prime minister if	180
34	as a matter of fact	177
35	and down at two marks	171
36	before the end of the	163
37	at the time of writing	152
38	barnes reports video-taped report follows	148
40	at the end of this	145
41	at the heart of the	141
42	at the expense of the	129
43	bed and breakfast beach charges	125
44	and summarised in appendix a	123
45	between fields is fully described	123
46	fields is fully described in	123
47	description the use of keys	122
48	detailed description the use of	122
49	economy economic indicators gdp growth	119
50	a you must provide the	117
51	appendix a you must provide	117
52	as a result of a	115
53	by the court of appeal	115
54	on the other side of	115
55	and in the case of	112
56	award type research grant award	112
57	by the hon member for	110
58	economic and social history discipline	109
60	barnett reports video-taped report follows	102
61	the end of the year	100
62	at a time when the	99
63	as a member of the	98
64	follows read in studio voice	98
65	by the house of lords	97
66	as the case may be	95
67	does my hon friend agree	94

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BNC Rank	5-gram	Freq
68	conference on security and co-operation	93
69	a point of order mr	92
70	clare lafferty reports video-taped report	91
71	during the course of the	90
72	for foreign and commonwealth affairs	90
74	anne still to come on	89
76	an example of this option	88
77	example of this option is	88
78	far eastern economic review of	88
79	and business studies primary subject	87
80	business studies primary subject area	87
81	for the first time since	87
82	towards the end of the	87
83	evening anne dawson harriet ryley	85
84	agree with my hon friend	84
85	award type research contract award	84
86	be in a position to	83
87	an integral part of the	82
88	does the secretary of state	82
89	a breach of the peace	80
90	dinner bed and breakfast beach	80
91	discipline unknown subject area unknown	79
92	am grateful to my hon	77
93	and if he will make	77
94	and social history primary subject	77
95	economic and social history primary	77
96	at the centre of the	76
97	and co-operation in europe csce	75
98	anne dawson wesley smith video-taped	75
99	by my right hon friend	75
100	dawson wesley smith video-taped report	75
101	elected for a five-year term	74
102	first quarter net profit up	73
103	on the edge of the	73
104	contact sema software technology technical	72
105	award type unknown award ref	71
106	between the government and the	71
107	in the same way as	71
109	can be found in appendix	70
110	cases are referred to in	70
111	a bottle of sparkling wine	69
112	erika barnes reports video-taped report	69
113	the end of the century	69
114	the other end of the	69
115	agreement on tariffs and trade	68
116	are referred to in the	68
117	for the rest of the	68
118	the secretary of state for	68
120	there is no doubt that	68
121	both sides of the house	67
122	the department of the environment	67
123	and limitations no special lifespan	66
124	department unknown institution london	66

500 most frequent 3-grams in BNC data Missing among 5000 most frequent in Web data		
BNC Rank	5-gram	Freq
	university	
125	for the benefit of the	66
126	in the wake of the	66
127	at a meeting of the	65
128	at the far end of	65
129	in the centre of the	65
130	in the house of commons	65
131	the way in which the	65
132	commonwealth of independent states cis	64
133	department department of economics institution	64
134	following cases are referred to	64
135	at the same time it	63
136	committee of the red cross	62
137	facts are stated in the	62
139	are required to use this	61
140	cases were cited in argument	61
141	clark reports video-taped report follows	61
142	commission of the european communities	61
143	as my hon friend the	60
144	court of appeal held that	60
145	dinner or lunch bed and	60
146	additional cases were cited in	59
147	and methodology primary subject area	59
148	computing and methodology primary subject	59
149	contract for the sale of	59
150	debt service ratio as of	59
151	effect of an accounting change	59
152	at the head of the	58
153	by my hon friend the	58
154	cumulative effect of an accounting	58
155	in the direction of the	58
156	a loss last time of	57
157	at the request of the	57
158	cent of gross domestic product	57
159	does the minister agree that	57
160	first lateral arm plate the	57
161	and for the first time	56
162	and i am sure that	56
163	compagnie des machines bull sa	56
165	per cent of the vote	56
166	the turn of the century	56
167	after the second world war	55
168	am grateful to the hon	55
169	as well as in the	55
170	department department of psychology institution	55
172	at a press conference on	54
173	at half-past two o'clock prayers	54
174	on the side of the	54
176	the department of trade and	54
177	the end of the day	54
178	cent of the vote and	53

500 most frequent 3-grams in BNC data Missing among 5000 most frequent in Web data		
BNC Rank	5-gram	Freq
179	child in the family of	53
180	a contract for the sale	52
181	are stated in the judgment	52
182	arm plate the oral shield	52
183	breakfast supplements per person per	52
184	it is not surprising that	52
186	the end of the war	52
187	and breakfast supplements per person	51
188	and international relations primary subject	51
189	and social history subject area	51
190	asset no mouse no others	51
191	bed and breakfast supplements per	51
192	economic and social history subject	51
193	following additional cases were cited	51
194	and breakfast beach charges are	50
195	at an additional cost of	50
196	decision of the court of	50
197	in the first half of	50
198	in the hands of the	50
199	of the second world war	50
200	to be one of the	50

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Web Rank	5-Gram	Freq
2	if you would like to	109
4	messages sorted by date thread	74
5	on the world wide web	74
6	sorted by date thread subject	74
7	by date thread subject author	72
9	university of texas at austin	62
10	if you have any questions	61
11	the university of texas at	57
15	img src http broccoli.mfn.ki.se aj	51
16	src http broccoli.mfn.ki.se aj gifs	51
17	user interfaces for information visualization	51