# Compatible Sketch Grammars for Comparable Corpora

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### Abstract

Our paper describes an on-going experiment aimed at creating a family of billion-token web corpora that could to a large extent deserve the designation "comparable": corpora are of the same size, data gathered by crawling the web at (approximately) the same time, containing similar web-specific domains, genres and registers, further pre-processed, filtered and deduplicated by the same tools, morphologically annotated by (possibly) the same tagger and made available via Sketch Engine. To overcome the problem of great differences in the existing sketch grammars for the respective languages, a set of "compatible" sketch grammars have been written that will aid contrastive linguistic research and bilingual lexicographic projects. The sketch grammars use a uniform set of rules for all word categories (parts of speech) and the resulting set of tables is displayed in a fixed order in all languages. **Keywords:** comparable web corpora; sketch grammars; bilingual lexicography

## 1 Introduction

Ten years after its introduction to the lexicographic community at the Lorient Euralex Congress (Kilgarriff et al., 2004), Sketch Engine (*SkE*) has become a standard tool in numerous lexicographic projects, as well as in various areas of corpus-based linguistic research. Sketch grammars for corpora in many languages have been written (cf. References). Recently published open-source tools for efficient web crawling (Suchomel a Pomikálek, 2012) stimulate the building of very large web corpora, the analysis of which is hardly imaginable without a powerful summarisation machine such as *SkE*. Newly implemented *SkE* support for parallel and comparable corpora (Kovář, 2013) facilitate its use in the area of bilingual lexicography and contrastive linguistic research.

In bilingual and multilingual linguistic work with *SkE*, we often encounter the problem of sketch grammars defining the collocational profiles of a headword and its translation equivalent for the respective languages. Those sketch grammars have often been created for different purposes, having in mind different user requirements, with resulting word sketches being rather disparate, making its use for contrastive linguistics problematic. Our paper suggests an alternative approach to the creation of sketch grammars, within the framework of which the respective grammars can be made compatible for (almost) all languages.

### 2 The Aranea project

#### 2.1 Why new corpora?

Besides our interest in testing the new corpus-building tools, the motive for starting a new corpus project was the lack of suitable corpora that could be used by students of foreign languages and translation studies at our university. The existing web corpora families that are available for download do not cover all the languages needed. As for corpora stored at the SkE web site<sup>1</sup>, they (1) are not available for download, (2) are mostly too large for classroom use<sup>2</sup>, and (3) have too different sketch grammars, which makes them difficult to use in a mixed-language classroom.

We expect that a set of corpora for several languages of equal size and built by a standardized methodology can not only be used for teaching purposes, but also in other areas of linguistic research (contrastive studies) and in lexicography (both mono- and bilingual).

#### 2.2 The names

For our corpora, we have decided to use "language-neutral" Latin names denoting the language of the texts and the corpus size. The whole corpus family is called *Aranea*, and the respective members bear the appropriate language name, e.g. *Araneum Anglicum, Araneum Francogallicum, Araneum Russicum* for English, French, and Russian, respectively, etc.

Each corpus exists in several editions, differing by their sizes. The basic (medium-sized) version, *Maius* ("greater"), contains approximately 1.2 billion tokens (i.e., over 1 billion words). This size can be reached relatively quickly for all participating languages, and for the "large" ones with plenty of web data available, it usually takes just one or two days of download time. The 10% random sample of *Maius*, called *Minus* ("smaller"), is to be used for teaching purposes (e.g. for lessons in the framework of Corpus Linguistics programmes for students of foreign languages and translation studies). A 1% sample, *Minimum* ("minimal"), is not intended to be used directly by the end users, and is utilized in debugging the processing pipelines and tuning the sketch grammars. And lastly, the largest *Maximum* ("maximal") edition will contain as much data as can be downloaded from the web for the particular language, and its size is mostly determined by the configuration of the server.

<sup>1</sup> http://www.sketchengine.co.uk/

<sup>2</sup> According to our experience, the ideal corpus for teaching corpus linguistics is about BNC-sized, i.e. it contains some 100 million tokens. As it is not easy to prevent students from invoking search operations taking several minutes to evaluate, billion-plus token corpora proved to be quite unsuitable for teaching purposes.

### 2.3 Web crawling

The source data acquisition is being performed by means of *SpiderLing*<sup>3</sup>, a web crawler optimized for collecting textual data from the web. The system contains an integrated character encoding (*chared. py*) and language recognition (*trigrams.py*) module, as well as a tool for boilerplate removal (jusText). The input seed URLs (some 1,000 for each language) have initially been harvested by BootCAT<sup>4</sup> (Baroni and Bernardini; 2004).

Several input parameters of the crawling process are to be set by the user, most notably the language name, a file containing sample text in the respective language (to produce a model for language recognition), a language similarity threshold (a value between 0 and 1; default 0.5), the number of parallel processes, and the crawling time.

In our processing, we usually crawled the web in 24-hour slots (the process could then be re-started) with all other values set to defaults. The only exception was crawling for Slovak and Czech, where we used 7-day slots, as the process was much slower here. The language similarity threshold also had to be changed in case of Slovak and Czech. As these languages are fairly similar, the trigram method did not seem to be able to distinguish between them sufficiently. We have therefore increased the similarity threshold value to 0.65 (saving many "good" documents, and causing many "wrong" ones to pass the filter) and removed the unwanted texts by subsequent filtration based on character frequencies .

### 2.4 Post-download processing

Besides the basic filtration aimed to remove texts with incorrect or misinterpreted character encoding, missing diacritics and texts with non-standard proportion of punctuation and uppercase characters, the main processing operation in this phase is tokenization. As the tokenization strategy has to be compatible with that of the corpus used to train the tagger, we decided to use the tokenizers supplied with Tree Tagger and TaKIPI for the respective languages. In the future, we would like to make use of the *unitok.py* universal tokenizing program developed at Masaryk University in Brno (Jakubíček; 2014).

### 2.5 Deduplication

The whole procedure (Benko; 2013) consists of three stages. The first stage detects near-duplicate documents by means of the Onion (Pomikálek; 2012) utility (similarity threshold 0.95), and the duplicate documents are deleted. The second stage deduplicates the remaining text at the paragraph level using the same procedure and settings. The tokens of the duplicate paragraphs, however, are not deleted but rather they are marked to make them "invisible" during corpus searches, while they can be displayed

<sup>3</sup> http://nlp.fi.muni.cz/trac/spiderling

<sup>4</sup> http://bootcat.sslmit.unibo.it/

as context at the boundary of non-duplicate and duplicate text. In the last stage, we make use of our own tool based on the fingerprint method (with ignoring punctuation, special graphics characters and digits) to deduplicate the text at the sentence level. The tokens of duplicate sentences are marked similarly to the previous stage. This last step can "clean up" the duplicities among the short segments that fail to be detected as duplicates by Onion.

As deduplication is beyond the scope of our paper, we only mention here that the process has typically removed some 20–45% of tokens in the *Maius* versions of our corpora

### 2.6 Morpho-syntactic annotation

For languages covered by the parameter files of Tree Tagger (Schmid; 1994), this tagger has been used to annotate the respective corpora. For Polish, the TaKIPI (Piasecki; 2007), and for Czech, the Morče (Hajič; 2004) taggers were used, respectively. The question of tools for tagging Hungarian and Ukrainian data has not been resolved yet.

### 2.7 Tagging-related filtration

To improve the precision of tag assignments, a series of pre- and post-tagging filters have been developed that fix issues introduced by Unicode encoding of the source text<sup>5</sup>. The filtration fixes known tagger issues for the respective languages, namely the misassigned tags for many punctuation and special graphic characters (that are often tagged as nouns, adjectives, or abbreviations, and sometimes even as verbs with subcategories). For some languages, an additional tag with masked subcategories for gender and number is created, that is later used by some rules within the respective sketch grammars.

### 2.8 Current state of the project

At present, eight language versions of the *Aranea* corpus family have been created, containing both *Maius* and *Minus* editions as follows (in chronological order): *Araneum Russicum* (Russian), *Araneum Francogallicum* (French), *Araneum Germanicum* (German), *Araneum Hispanicum* (Spanish), *Araneum Polonicum* (Polish), *Araneum Anglicum* (English), *Araneum Nederlandicum* (Dutch), and *Araneum Slovacum* (Slovak).

<sup>5</sup> As an example we can point out the problem of the "apostrophe" character in French texts. As much as 8 different Unicode characters representing the apostrophe (with just two of them being "canonical") can be found in the texts collected from the web. As the Tree Tagger French parameter file originated in the pre-Unicode era, even one of the two "canonical" representations would not be processed (i.e., tokenized and lemmatized) properly without special measures, and tokens like "*l*" and "*d*", that belong to the most frequent ones, would be mistagged.

The crawling has also been done for *Araneum Bohemicum* (Czech). This data is now being pre-processed to be ready for annotation that will be performed by the Institute of Theoretical and Computational Linguistics at the Faculty of Arts of Charles University in Prague.<sup>6</sup>

The first stage of our project will be completed by *Araneum Hungaricum* (Hungarian), *Araneum Italicum* (Italian), and *Araneum Ukrainicum* (Ukrainian). With the exception of the last mentioned, we expect to complete the whole venture by the end of 2014.

For all of the languages mentioned, sketch grammars have been written and at least two rounds of testing have been performed for each corpus. The procedure involved is described in the following section.

## 3 Sketch grammars

A sketch grammar<sup>7</sup> is a set of rules based on the CQL (Corpus Query Language<sup>8</sup>) used by the Sketch Engine to generate the respective collocation profiles ("word sketches") for all lexical units (lemmas) in a corpus. The word sketches are pre-computed in advance, which makes the system user-friendly and very fast.

A sketch grammar rule consists of (1) an optional comment indicated by hash "#" character, (2) the rule type marked by an asterisk "\*", (3) the rule name preceded by the equal sign "=", and (4) a list of CQL expressions. For example, a rule describing the relationship between two nouns (in English using the Penn Treebank tagset) might look as follows:

```
# noun followed by another noun
*DUAL
=modifier/modified
2: [tag="NN.*"] 1: [tag="NN.*"]
```

The "1:" label denotes the "keyword", i.e. the lemma the word sketch is created for, and the "2:" label marks the lemma of the collocate. The "\*DUAL" keyword indicates that the rule is to be used twice, the second time with swapped labels, i.e. exchanging the positions of the keyword and the collocate. The text following the slash "/" character will be used as a name for the second use of the rule. In reality, the rules usually look slightly more complex to indicate that "intermediate" words may be present between a keyword and a collocate, or in the vicinity of them.

<sup>6</sup> Besides Ukrainian, Czech is the only language within the *Aranea* project with no free tagging tool available.

<sup>7</sup> https://www.sketchengine.co.uk/documentation/wiki/SkE/GrammarWriting

<sup>8</sup> https://www.sketchengine.co.uk/documentation/wiki/SkE/CorpusQuerying

### 3.1 What's in a name

Unlike Juliet Capulet<sup>9</sup>, we believe that the name is often really important, and the sketch grammar rule name is exactly such a case. On one hand, it is the only component of the sketch grammar that is not predetermined, and thus can be "virtually anything". On the other hand, the name is the only clue for the user about the contents of the respective word sketch tables, and therefore should be as informative as possible. It has, however, to be very short as the name is displayed in the heading of the respective word sketch table within a only a limited space available. Rule names longer than 10–12 characters would increase the table widths, and the resulting word sketches could possibly not fit the screen.

Most sketch grammars used for corpora available at the *SkE* site follow the naming conventions introduced by A. Kilgarriff in the first English and French sketch grammars. These rule names are motivated syntactically, i.e. they denote the syntactic function of the collocate, with that of the keyword being implied. For example the rule name:

#### =modifier/modified

is representing two rule names with readings as follows: "collocate is a modifier of the keyword", and "collocate is modified by the keyword", respectively.

The syntactically motivated rules are transparent and user-friendly for description of basic relationships between subjects, object, modifiers/attributes, and verbs/predicates, but in more complex cases this strategy is not easily applicable. The nature of the problems can be observed in the Czech sketch grammar written by P. Smrž (Kilgarriff et al.; 2004). Some examples of rule names are as follows:

is\_subj\_of/has\_subj is\_obj4\_of/has\_obj4 prec\_prep gen1/gen2

As it can be seen, it is not really easy for the user the figure out "who is who" in the keyword – collocate – syntactic function "puzzle". Moreover, rule names like "prec\_verb" do not denote any syntactic functions but rather just describe collocational relationships.

There are two notable deviations from the "traditional" rule name conventions in the sketch grammars. In the grammar for the Slovenian FidaPLUS corpus<sup>10</sup>, S. Krek (Krek; 2006) uses rule names containing (among other features) Slovenian "case questions". For example, the."*koga-česa*" name means

<sup>9</sup> Juliet: "What's in a name? that which we call a rose / By any other name would smell as sweet" (William Shake-speare: Romeo and Juliet, Act II, Scene 2).

<sup>10</sup> http://www.sketchengine.co.uk/documentation/wiki/Corpora/FidaPLUS

that only collocates of the keyword that are in genitive case are displayed, with the syntactic function of the collocate being implied.

The second notable exception is the sketch grammar written by P. Whilelock (2010) for the Oxford English Corpus<sup>11</sup> (OEC) where the rule names not only name the syntactic function, but also the PoS of the keyword and the collocate and their mutual position within the collocation. For example, the "V\* ADJ" rule name stands for verb modified by an adjective, with askerisk indicating the keyword.

### 3.2 Sketch grammar for Slovak corpora

In our Institute, the *SkE* has been extensively used since autumn 2007 with several Slovak and Czech corpora. These corpora serve as a source of lexical evidence for our monolingual and bilingual lexico-graphic projects, as well as for other linguistic research activities.

The sketch grammar used in our *SkE* installation has been optimized for a lexicographic use, and differs from most "traditional" grammars for corpora stored at the *SkE* web site in several aspects:

- The rule names are not motivated syntactically (i.e., they do not indicate the syntactic relationship between the keyword and the collocate) but rather collocationally
- The right-hand or left-hand position of the collocate towards the keyword is indicated explicitly in the rule name
- The keyword's PoS in the rule is not specified, i.e., it covers any PoS
- Recall is preferred over precision
- The number of rules and the order of resulting tables is fixed
- The object names within the rules are governed by the following rules:
- The keyword is denoted by the X symbol
- The keyword's grammatical attributes (mostly in unary rules) are indicated by lowercase abbreviation, e.g., gen(X) indicates the genitive case of keyword
- The collocate's PoS is indicated by an abbreviation with a leading capital letter, e.g., Aj X indicates a left-hand adjective collocate
- Y indicates a collocate that is from any PoS category
- Z indicates a collocate from any PoS category not covered by the other "explicit" rules

### 3.3 Rule name summary

The core of our grammar consists of rules covering four basic autosemantic word classes. Taking into account our experience with early versions of the grammar, the rules for verbs (Vb X/X Vb) and adverbs (Av X/X Av) do not distinguish the left and right position of the respective collocate.

<sup>11</sup> http://www.sketchengine.co.uk/documentation/wiki/Corpora/OEC

For nouns, two separate rules take into account the position of the collocate (Sb X, X Sb). Similar situations can be found with adjectives (Aj X; X Aj), prepositions (Pp X; X Pp) and for immediate autosemantic collocates (Y X; X Y). The "catch all" rules for the remaining word classes (Z X; X Z) cover mostly numerals and pronouns, as well as some synsemantic word classes.

The remaining two binary (symmetric) rules map the relationship of coordination, i.e., the situation where a keyword and a collocate with compatible morphological tags are separated by a comma (X/Y, X/Y) or a conjunction (X/Y Cj X/Y).

The four trinary rules cover relationships among a keyword, collocate, and preposition in different positions (Pp Y X, Pp X Y, Y Pp X, and X Pp Y).

Our set of rules is complemented by unary rules showing the frequency distribution of the keyword's forms according to grammatical categories and subcategories..

The compatible grammars

In creating sketch grammars for a group of languages, it is convenient not to use the "native" tagsets for the respective languages, but rather to use a common symbolic notation. This can be done, e.g., by means of a macro processor (such as m4). We have, however, decided to adopt a different approach and to create a simple universal tagset ("*Araneum Universal Tagset*" – AUT) similar to that of the *Universal PoS Tagset*<sup>12</sup> (UPT; Petrov et al., 2011), and to map all the respective tagsets into this tagset at the source vertical data level, i.e. to create a new layer of annotation. The *AUT* contains 11 tags for "traditional" part of speech categories, 7 additional tags for other elements, and one tag to indicate errors in the mapping process.

aTag	PoS	аТад	PoS	aTag	PoS
Dt	determiner/article	Рр	preposition	Xx	other (content word)
Nn	noun	Cj	conjunction	Ху	other other (function word)
Aj	adjective	Ij	interjection	Үу	unknown/foreign/alien
Pn	pronoun	Pt	particle	Zz	punctuation
Nm	numeral	Ab	abbreviation/acronym	Er	mapping error
Vb	verb	Sy	symbol		
Av	adverb	Nb	number		

#### Table 1: Araneum Universal Tagset (AUT).

The compatible sketch grammar using *AUT* consists of three sections. The first part (*AUT*-based) contains unary rules showing PoS category distribution for a particular lemma. The second part is

<sup>12</sup> The AUT PoS tags for the eleven "traditional" word classes directly correspond with those of UPT, with the difference being just in the names as we wanted to keep the names of the PoS categories identical with those used in the sketch grammar rule names introduced before the UPT tagset has been published. The additional 7 categories accommodate information provided by the respective "native" tagsets that is being ignored by UPT. For example, the "XX" (other: content word) tag is assigned to participles in Slovak that have a category of their own in the SNK Slovak tagset.

tagset-dependent and contains unary rules showing PoS subcategories provided by the respective tagset. Due to differences in the depth of the morpho-syntactic annotation, the number of subcategories varies among the languages. With verbs, e.g., we have just 5 subcategories for Spanish, while more than 20 for Polish. The final third section (*AUT*-based) covers the collocational relationships of the respective keyword by means of binary, symmetric and trinary rules.

The compatible sketch grammar is basically identical for all the languages with one important exception: the number of intermediate tokens between a keyword and a collocate is increased by one for languages having articles in their language system.

## 4 Discussion and conclusion

A collocationally-based sketch grammar has (against a traditional one) several advantages. It can symmetrically cover all relationships between keywords and collocates of all word classes (parts of speech). As the PoS category is not tested for the keyword, a word sketch can be created even in cases of incorrectly assigned tags. If the same (compatible) sketch grammar is used with corpora for two or more languages, the resulting word sketches can be conveniently used in contrastive linguistic research, as well as within bilingual lexicographic projects.

The disadvantage of our approach is that not all tables for some words represent linguistically relevant relationships, and they may contain a lot of noise. We believe, however, that having a fixed number of tables gives the user a clear overview, and he or she can easily ignore the irrelevant data. In the Appendix, we present the word sketches for the lemma "without" created by means of compatible sketch grammars from four Aranea web corpora..

## 5 Further work

In the near future, we plan to carry out activities within several tracks. Firstly, we would like to improve the quality of the Aranea corpus data itself (by means of better filtration, normalization and deduplication), as well as its morpho-syntactic annotation by means of long-term evaluation of the resulting word sketches. Secondly, we want to include new languages into our Aranea corpus family and to write the respective corpus grammars, at least for the languages taught at Slovak universities. And finally, we plan to tune the global parameters of the compatible sketch grammars, as well as provide language-specific improvements so that the bilingual word sketches provide more relevant results.

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#### Appendix

To demonstrate the compatible word sketches, we present screen shots for the preposition "without" in four languages (English, French, German, and Russian). Prepositions belong to word classes that are usually either not covered by the respective traditional sketch grammars at all, or that produce a limited number of output word sketch tables only.

For all languages involved, we can observe the typical binary collocations with noun and verbs. The collocations with adjectives usually form a multi-word expression that is not fully displayed in the word sketches, but many of those can be easily recognized even without going into the actual concordances.

Note: Due to the longer adjectives in Russian, the interesting table with verbal collocates did not fit onto the screen.

X	X/Y, X/Y	31449	-0.0	X/Y Cj X/	Y 233	89	-0.0	YX	20	1638	-0.1	XY	3	379129	-0.1		
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	whereas	36	2.92	with	70	24	2.62	reproduc	e	355	4.63	doubt		4084	7.08		
	unless	111	2.83	between	2	37	1.13	viagra		318	4.54	notice		3171	6.71		
	albeit	11	2.65	under		111	0.41	survive		662	4.45	hesitatio	n	1133	6.47		
	although	9Z	1.76	beyond		<u>28</u>	0.39	incomple	te	190	4.08	regard		2352	6.21		
	though	160	1.64	against		<u>80</u>	0.17	function		323	4.05	prescrip	tion	1401	6.16		
	despite	42	1.57	except		<u>12</u>	0.09	live		2861	4.0	express		1024	6.13		
	upon	<u>118</u>	1.25	whether		44	-0.0	impossib	le	385	4.0	prior		2708	6.1		
	like	<u>402</u>	1.21	from	6	87	-0.06	exist		1153	3.98	permissi	on	1676	6.09		
	via	45	1.2	at	6	62	-0.08	possible		1451	3.88	Borders		837	6.08		
	because	352	1.2	toward		17	-0.13	cialis		164	3.8	compron	nise	1176	6.06		
	till	14	1.17	upon		45	-0.13	detention	1	<u>184</u>	3.79	delay		1265	5.99		
	within	<u>166</u>	1.17	behind		25	-0.14	proceed		<u>288</u>	3.75	prejudic	e	920	5.93		
	unto	16	1.16	through	1	45	-0.17	reporter		213	3.58	fear		2381	5.87		
	while	253	1.11	into	2	210	-0.18	die		<u>672</u>	3.39	consent		1235	5.83		
	under	169	1.01	for	13	74	-0.23	even		2829	3.38	exception	n	1332	5.7		
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life	3435 3.61	doubt		4205	C 50 C 21		neric		4.33	11	ental		5.95	worry		1337	0.0
buy	120 3.56	hesita	tion		1.081.5	1000	ssible	1826		prop		1536		could		10736	
sentence	259 3.4	delay		1674	6.34	us	eless	106	4.24	adeo	quate		5.95	resort			4.8
prescription	177 3.38	regard	I	2478	6.26	wo	rthless	65	4.15	expl	icit	451	5.81	can		29062	4.8
taxation	116 3.35	prescr	iption	n <u>1463</u>	6.17	ind	lefinite	56	4.11	furt	her	2508	5.2	surviv	е	1130	4.7
imprisonment	<u>111</u> 3.29	Borde	rs	818	5.97	lon	ely	58	3.58	fore	going	174	5.16	allow		4815	4.6
sex	362 3.28	author	rizatio	on <u>989</u>	5.94	cor	isecutive	e <u>68</u>	3.51	sligh	ht	357	5.06	depar	t	694	4.6
Viagra	<u>91</u> 3.26	fear		2517	5.92	usa	able	45	3.49	form	nal	483	4.85	live		4724	4.6
party	<u>829</u> 3.24	prejud	lice	947	5.91	abl	le	1160	3.46	add	ed	238	4.83	imagin	ne	1196	4.5
nothing	<u>650</u> 3.18	except	ion	<u>1407</u>	5.74	dif	ficult	466	3.39	exce	essive	208	4.63	lose		2519	4.5
anything	<u>655</u> 3.14	ado			0 0 1	unt	thinkabl		3.37		sciou	s <u>294</u>	4.62	go		12313	
					5.63		onceival		3.33	addi		d <u>1159</u>		would		13830	

Av X/X Av	112453	-0.1	ZX	226890	-0.0	<u>XZ</u>	304244	-0.1	<u> Pp X</u>	92448	-0.0	<u>X Pp</u>	99334	-0.0
whatsoever	340	5.61	those	2787	4.04	any	27935	6.89	albeit	112	4.95	into	2483	3.37
ever	3020	5.13	any	3658	3.97	them	5997	4.18	onto	173	3.62	except	139	3.35
indefinitely	128	4.83	themselves	630	3.63	a	49871	3.78	into	2579	3.42	whether	379	3.03
freely	262	4.82	off	1294	3.44	him	2262	3.62	through	1679	3.35	of	38204	2.97
necessarily	454	4.82	i.e.	147	3.42	an	7055	3.48	although	<u>240</u>	2.98	from	5422	2.92
overly	155	4.72	another	<u>911</u>	3.38	some	2749	3.32	than	1688	2.82	unless	119	2.75
even	6980	4.71	them	3308	3.33	it	13245	3.23	across	305	2.73	through	1091	2.72
anywhere	360	4.45	itself	387	3.05	their	6214	3.21	because	971	2.64	upon	330	2.67
too	2634	4.42	yourself	311	3.0	its	3091	3.17	like	1071	2.61	about	2781	2.66
properly	346	4.36	it	11199	2.99	yourself	354	3.1	from	4267	2.58	like	1093	2.63
actually	1420	4.2	these	1877	2.96	the	79951	3.08	except	77	2.52	for	<u>9121</u>	2.5
explicitly	142	4.17	this	6489	2.93	your	5936	3.08	on	6479	2.5	until	310	2.44
easily	607	4.11	himself	318	2.88	her	2447	3.0	for	9024	2.48	behind	140	2.23
overboard	67	4.08	him	1310	2.85	either	373	2.93	at	3684	2.39	on	5230	2.19
completely	592	4.08	no	1735	2.84	whom	248	2.85	upon	269	2.39	at	3079	2.13
physically	161	4.06	to	40462	2.79	these	1714	2.82	whereas	33	2.32	till	35	2.08

ord sketches.	VIV VIV	0.4104	0.0	VIVCIVA	410.01	0.0	VV	00007/	0.0	VV	49000	- 0	-
A DESCRIPTION OF THE REAL PROPERTY OF	X/Y, X/Y	34121	12 202	X/Y Cj X/Y einschließlich	10.0	100110-0	<u>YX</u> Kredit	323276		<u>X Y</u> workerig	48339	a setterad	100
Pp(X) <u>505192</u> 3.0	dass ob	10 - X2 - X2	4.32	seitens	1000	3.19	2000 C.3 6555	2342	6.4	vorherig Schufa	1000	4 7.6	
Cj(X) <u>86923</u> 0.9	oder		3.32	and Second	40	2.8	jederzeit		5.36	Zweifel		1 7.5	
	1.	1064		mit	8640	1.652362023	Reporter	414	5.2		COLUMN T	1 7.2	500 C
	d.h. wie		3.05	inklusive zwischen		2.33	gänzlich	475	5.11	Rücksicht Weiteres		9 7.2	
			2.85		382		ganz	8310				0 6.8	
	und	5054		trotz	71	1.8	Fahren		4.63	Einschränkung		2 6.4	
	einschließlich		2.69	mittels	<u>40</u>	1.8	völlig		4.54	Angabe	100	5 6.4	
	bzw.	0.2	2.23	binnen	<u>12</u>	1.79	Fass		4.34	gesondert		Z 6.3	53)
	inklusive	30	2.2	außer		1.55	Abnehmen		4.32	Zustimmung	214	20 au	65 T
	außer	45	2.17	samt		1.54	Girokonto		4.28	Abzug	137	an Uni	
	weil	<u>61</u>	2.1	aufs		1.53	Handy		4.26	Gewähr		4 6.1	-
	als		2.06	außerhalb	39	1.51	Kreditkarte	ene	4.24	Problem	1010-000	0 6.1	2. CO
	infolge	<u>12</u>	1.72	wider	11	1.47	Rechnung	486	4.13	Umweg	119	<u>2</u> 6.1	11
	indem	<u>12</u>	1.6	ans	<u>18</u>	1.4	Leben		4.12	Unterbrechung	117	<u>6</u> 6.1	11
	aufs	20	1.43	ob	71	1.38	allerdings	1516	4.09	ausdrücklich	216	4 6	.1
						and the second			10 St. 12				
	sondern	55	1.37	gegen	<u>269</u>	1.36	<b>Pfanne</b>		4.03	Behinderung	159	<u>6</u> 5.9	3
	sondern	55	1.37	gegen	<u>269</u>	1.36	Pfanne		4.03	Behinderung	159	<u>6</u> 5.9	3
Nn X			1.37				Pfanne	226				1	
	<u>311082</u> 0.3	XNn		<u>606564</u>	0.5	AjX		226 89134	0.2	XAj 2	00309	0.5	Vb X/X Vb
Kredit	<b>311082 0.3</b> 2584 6.56	X Nn Zustin	nmur	<u>606564</u> 1g 5620	<b>0.5</b> 7.5	Aj X gedr	uckt	<u>226</u> <b>89134</b> 973	<b>0.2</b> 7.25	XAj 2 vorherig	00309 4938	<b>0.5</b> 8.37	Vb X/X Vb auskommer
Kredit Publikation	<b>311082 0.3</b> 2584 6.56 1004 5.87	X Nn Zustin Schuf	nmur a	606564 ig 5620 3453	<b>0.5</b> 7.5 7.29	Aj X gedr gänz	uckt lich	226 89134 973 485	<b>0.2</b> 7.25 6.2	X Aj 2 vorherig gesondert	00309 4938 1704	<b>0.5</b> 8.37 7.27	Vb X/X Vb auskommer gestatten st
Kredit Publikation Reporter	311082         0.3           2584         6.56           1004         5.87           415         5.26	X Nn Zustin Schuf Zweif	mmur a el	606564 1g <u>5620</u> 3453 405	0.5 7.5 7.29 7.21	Aj X gedr gänz völli	uckt lich g	226 89134 973 485 1022	<b>0.2</b> 7.25 6.2 4.96	XAj 2 vorherig gesondert ausdrücklich	00309 4938 1704 3061	0.5 8.37 7.27 7.06	<u>Vb X/X Vb</u> auskommer gestatten st funktionier
Kredit Publikation Reporter Fahren	311082         0.3           2584         6.56           1004         5.87           415         5.26           337         4.82	X Nn Zustin Schuf Zweif Ankü	mmur a el ndigu	6006564 lg 5620 3453 405. ng 306	<b>0.5</b> 7.5 7.29 7.21 7.07	Aj X gedr gänz völli anwa	uckt lich g Itlichen	226 89134 973 485 1022 83	0.2 7.25 6.2 4.96 4.73	XAj 2 vorherig gesondert ausdrücklich nennenswert	00309 4938 1704 3061 811	<b>0.5</b> 8.37 7.27 7.06 6.66	Vb X/X Vb auskommen gestatten st funktionier verändern
Kredit Publikation Reporter Fahren Rechnung	311082         0.3           2584         6.56           1004         5.87           415         5.26           337         4.82           739         4.76	X Nn Zustin Schuf Zweif Ankü Rücks	nmur a el ndigu sicht	6006564 1g 5620 3453 405 ng 306 304	<b>0.5</b> 7.5 7.29 7.21 7.07 7.07	Aj X gedr gänz völli anwa gesa	uckt lich g Itlichen mt	226 89134 973 485 1022 83 1581	<b>0.2</b> 7.25 6.2 4.96 4.73 4.62	X Aj 2 vorherig gesondert ausdrücklich nennenswert schriftlich	00309 4938 1704 3061 811 2509	<b>0.5</b> 8.37 7.27 7.06 6.66 6.55	Vb X/X Vb auskommer gestatten st funktionier verändern verlaufen
Kredit Publikation Reporter Fahren Rechnung Handy	311082         0.3           2584         6.56           1004         5.87           415         5.26           337         4.82           739         4.76           708         4.67	X Nn Zustin Schuf Zweif Ankü Rücks Aufwa	mmur a el ndigu sicht and	606564 ng 5620 3453 4053 ng 3067 304 3653	<b>0.5</b> 7.5 7.29 7.21 7.07 7.07 6.93	Aj X gedr gänz völli anwa gesa erho	uckt lich g ltlichen mt ben	226 89134 973 485 1022 83 1581 133	0.2 7.25 6.2 4.96 4.73 4.62 4.52	X Aj 2 vorherig gesondert ausdrücklich nennenswert schriftlich lästig	00309 4938 1704 3061 811 2599 639	<b>0.5</b> 8.37 7.27 7.06 6.66 6.55 6.18	Vb X/X Vb auskommer gestatten st funktionier verändern verlaufen verlieren
Kredit Publikation Reporter Fahren Rechnung Handy Girokonto	311082         0.3           2584         6.56           1004         5.87           415         5.26           337         4.82           739         4.76           708         4.67           340         4.55	X Nn Zustin Schuf Zweif Ankü Rücks Aufwa Einsc	mmur a el ndigu sicht and hränk	606564 ag 5620 3453 4053 ng 3067 304 3653 cung 2510	0.5           7.5           7.29           7.21           7.07           6.93           6.59	Aj X gedr gänz völlij anwa gesa erho Prep	uckt lich g ltlichen mt ben aid	226 89134 973 485 1022 83 1581 133 112	0.2 7.25 6.2 4.96 4.73 4.62 4.52 4.52	X Aj 2 vorherig gesondert ausdrücklich nennenswert schriftlich lästig erkennbar	00309 4938 1704 3061 811 2599 639 856	0.5 8.37 7.27 7.06 6.66 6.55 6.18 6.09	<u>Vb X/X Vb</u> auskommer gestatten st funktionier verändern verlaufen verlieren leben
Kredit Publikation Reporter Fahren Rechnung Handy Girokonto Kreditkarte	311082         0.3           2584         6.56           1004         5.87           415         5.26           337         4.82           739         4.76           708         4.67           340         4.55           402         4.48	X Nn Zustin Schuf Zweif Ankü Rücks Aufwa Einsc Genel	mmur el ndigu sicht and hränk	606564 ng 5620 3453 4053 ng 3067 3044 3653 cung 2510 mg 2522	0.5           7.5           7.29           7.21           7.07           6.93           6.59           6.55	Aj X gedr gänz völlij anwa gesa erho Prep pers	uckt lich g ltlichen mt ben aid onenbezogen	226 89134 973 485 1022 83 1581 133 112 248	0.2 7.25 6.2 4.96 4.73 4.62 4.52 4.5 4.5	X Aj 2 vorherig gesondert ausdrücklich nennenswert schriftlich lästig erkennbar störend	00309 4938 1704 3061 811 2599 639 856 448	0.5 8.37 7.27 7.06 6.66 6.55 6.18 6.09 5.8	<u>Vb X/X Vb</u> auskommer gestatten st funktionier verändern verlaufen verlieren leben laufen
Kredit Publikation Reporter Fahren Rechnung Handy Girokonto Kreditkarte Abnehmen	311082         0.3           2584         6.56           1004         5.87           415         5.26           337         4.82           739         4.76           708         4.67           340         4.55           402         4.48           247         4.43	X Nn Zustin Schuf Zweif Ankü Rücks Aufwa Einsc Genel Weite	mmur a el sicht and hränk hränk	606564 ng 5620 3453 4053 ng 3067 3044 3653 cung 2510 mg 2522 1818	0.5           7.5           7.29           7.21           7.07           6.93           6.55           6.55           6.52	Aj X gedr gänz völli; anwa gesa erho Prep pers kom	uckt lich g ltlichen mt ben aid onenbezogen plett	226 89134 973 485 1022 83 1581 133 112 248 820	0.2 7.25 6.2 4.96 4.73 4.62 4.52 4.5 4.5 4.5 4.38	X Aj 2 vorherig gesondert ausdrücklich nennenswert schriftlich lästig erkennbar störend weit	00309 4938 1704 3061 811 639 856 448 11902	0.5 8.37 7.27 7.06 6.66 6.55 6.18 6.09 5.8 5.58	Vb X/X Vb auskommer gestatten st funktionier verändern verlaufen verlieren leben laufen zögern
Kredit Publikation Reporter Fahren Rechnung Handy Girokonto Kreditkarte Abnehmen Fass	311082         0.3           2584         6.56           1004         5.87           415         5.26           337         4.82           739         4.76           708         4.67           340         4.55           402         4.48           247         4.43           239         4.41	X Nn Zustin Schuff Zweiff Ankü Rücke Aufwa Einsc Genel Weite Angal	mmur a el ndigu sicht and hränk hränk hränk bres pe	606564 ng 5620 3453 4053 ng 3067 3044 3653 cung 2510 mg 2522 1818 4874	0.5           7.5           7.29           7.21           7.07           7.07           6.93           6.59           6.55           6.52           6.49	Aj X gedr gänz völli anwa gesa erho Prep pers kom selbs	uckt lich g ltlichen mt ben aid onenbezogen plett stverständlich	226 89134 973 485 1022 83 1581 133 112 248 820 433	0.2 7.25 6.2 4.96 4.73 4.62 4.52 4.5 4.5 4.38 4.38	X Aj 2 vorherig gesondert ausdrücklich nennenswert schriftlich lästig erkennbar störend weit zusätzlich	00309 4938 1704 3061 811 2599 639 856 448 11902 3407	0.5 8.37 7.27 7.06 6.66 6.55 6.18 6.09 5.8 5.58 5.58	Vb X/X Vb auskommer gestatten st funktionier verändern verlaufen verlieren leben laufen zögern dürfen
Kredit Publikation Reporter Fahren Rechnung Handy Girokonto Kreditkarte Abnehmen Fass Leben	311082         0.3           2584         6.56           1004         5.87           415         5.26           337         4.82           739         4.76           708         4.67           340         4.55           402         4.48           247         4.43           239         4.41           2895         4.37	X Nn Zustin Schuf Zweif Ankü Rücks Aufwa Einsc Genel Weite Angal Grun	mmur a el ndigu sicht and hränk hränk migu eres pe d Grü	606564 Ig 5620 3453 405 ng 3067 3044 3044 3044 3044 3044 4874 Ing 2522 1816 4874 A874 nden 3484	0.5           7.5           7.29           7.21           7.07           7.07           6.93           6.55           6.55           6.52           6.49           6.45	Aj X gedr gänz völli anwa gesa erho Prep pers kom selbs viagr	uckt lich g ltlichen mt ben aid onenbezogen plett stverständlich	226 89134 973 485 1022 83 1581 133 112 248 820 433 61	0.2 7.25 6.2 4.96 4.73 4.62 4.52 4.52 4.5 4.38 4.38 4.27	X Aj 2 vorherig gesondert ausdrücklich nennenswert schriftlich lästig erkennbar störend weit zusätzlich möglich	00309 4938 1704 3061 811 2599 639 856 448 11902 3407 4803	<b>0.5</b> 8.37 7.27 7.06 6.66 6.55 6.18 6.09 5.8 5.58 5.58 5.58 5.58	Yb X/X Vb auskommer gestatten st funktionier verändern verlaren leben laufen zögern dürfen verlassen
Kredit Publikation Reporter Fahren Rechnung Handy Girokonto Kreditkarte Abnehmen Fass Leben Angebot	311082         0.3           2584         6.56           1004         5.87           415         5.26           337         4.82           739         4.76           708         4.67           340         4.55           402         4.48           247         4.43           239         4.41           2895         4.37           1875         4.2	X Nn Zustin Schuff Zweiff Ankü Rücks Aufwa Einsc Genel Weite Angal Gruno Einwi	mmur a el ndigu sicht and hränk hmigu res pe d Grü	606564 Ig 5620 3453 405 ng 3067 304 304 305 1818 4874 nden 3484 Ig 178	0.5           7.5           7.29           7.21           7.07           7.07           6.93           6.55           6.55           6.52           6.49           6.45           6.31	Aj X gedr gänz völli, anwa gesa erho Prep pers kom selbs viagra	uckt lich g ltlichen mt ben aid onenbezogen plett stverständlich a sommen	226 89134 973 485 1022 83 1581 133 112 248 820 433 61 226	0.2 7.25 6.2 4.96 4.73 4.62 4.52 4.5 4.5 4.5 4.38 4.38 4.27 4.26	XAj 2 vorherig gesondert ausdrücklich nennenswert schriftlich lästig erkennbar störend weit zusätzlich möglich ersichtlich	00309         4938           1704         3061           3061         5           639         556           448         11902           3407         4803           3455         5	<b>0.5</b> 8.37 7.27 7.06 6.66 6.55 6.18 6.09 5.8 5.58 5.58 5.58 5.58	Yb X/X Vb auskommer gestatten st funktionier verlandern verlaren leben laufen zögern dürfen verlassen nachdenken
Kredit Publikation Reporter Fahren Rechnung Handy Girokonto Kreditkarte Abnehmen Fass Leben Angebot Tarif	311082         0.3           2584         6.56           1004         5.87           415         5.26           337         4.82           739         4.76           708         4.67           340         4.55           402         4.48           247         4.43           239         4.41           2895         4.37           1875         4.2           439         4.19	X Nn Zustin Schuff Zweiff Ankü Rücks Aufwä Einsc Genel Weite Angal Grund Einwi Probl	mmur a el ndigu sicht and hränk hränk migu eres be d Grü illigur em	606562 Ig 5620 3453 405 ng 3067 304 3653 304 3653 304 3653 1816 1816 4874 nden 3482 Ig 178 7956	0.5           7.5           7.29           7.21           7.07           7.07           6.93           6.55           6.55           6.52           6.49           6.31           6.31	Aj X gedr gänz völli anwa gesa erho Prep pers kom selbe viagra vollk undet	uckt lich g ltlichen mt ben aid onenbezogen plett stverständlich a sommen akbar	226 <b>89134</b> 973 485 1022 83 1581 133 132 248 820 433 61 226 64	0.2 7.25 6.2 4.96 4.73 4.62 4.52 4.52 4.5 4.38 4.38 4.27 4.26 4.24	XAj 2 vorherig gesondert ausdrücklich nennenswert schriftlich lästig erkennbar störend weit zusätzlich möglich ersichtlich fremd	00309 4938 1704 3061 2599 639 856 448 1902 3407 4803 345 827	<b>0.5</b> 8.37 7.27 7.06 6.66 6.55 6.18 6.09 5.8 5.58 5.58 5.58 5.58 5.548 5.34 5.34	Yb X/X Vb auskommer gestatten st funktionier verlaufen verlaufen leben laufen zögern dürfen verlassen nachdenker bleiben
Nn X Kredit Publikation Reporter Fahren Rechnung Handy Girokonto Kreditkarte Abnehmen Fass Leben Angebot Tarif Pfanne Abmahnung	311082         0.3           2584         6.56           1004         5.87           415         5.26           337         4.82           739         4.76           708         4.67           340         4.55           402         4.48           247         4.43           239         4.41           2895         4.37           1875         4.2	X Nn Zustin Schuff Zweiff Ankü Rücks Aufwa Einsc Genel Weite Angal Gruno Einwi	mmur a el ndigu sicht and hränk hmigu eres oe dd Grü illigur em 3	606562 Ig 5620 3453 405 ng 3067 304 3653 304 3653 1816 1816 1816 4874 nden 3482 188 198 178 2956 1758	0.5           7.5           7.29           7.21           7.07           7.07           6.93           6.55           6.55           6.52           6.49           6.45           6.31	Aj X gedr gänz völli anwa gesa erho Prep pers kom selbe viagra vollk undet	uckt lich g ltlichen mt ben aid onenbezogen plett stverständlich a sommen akbar merziell	226 89134 973 485 1022 83 1581 133 112 248 820 433 61 226 64 153	0.2 7.25 6.2 4.96 4.73 4.62 4.52 4.5 4.5 4.5 4.38 4.38 4.27 4.26	XAj 2 vorherig gesondert ausdrücklich nennenswert schriftlich lästig erkennbar störend weit zusätzlich möglich ersichtlich	00309           4938           1704           3061           811           2599           639           856           448           11002           3407           4803           345	<b>0.5</b> 8.37 7.27 7.06 6.66 6.55 6.18 6.09 5.8 5.58 5.58 5.58 5.58 5.58 5.58 5.58	Yb X/X Vb auskommer gestatten st funktioniere verlaufen verlaufen laufen laufen zögern dürfen verlassen nachdenken

Av X/X Av	173826	0.4	ZX	285861	0.3	XZ	356121	0.4	<u>Pp X</u>	67488	0.1	<u>X Pp</u>	111231	0.3
jemals	724	6.31	man	8344	4.02	jegliche	4363	7.76	dank	<u>140</u>	3.13	seitens	198	4.65
jederzeit	<u>1696</u>	6.07	14	690	3.93	irgendwelche	1088	6.08	pro	258	2.87	durchs	80	3.87
vorher	1598	5.93	diese	1417	3.91	dabei	6094	5.38	bei	5283	2.86	ans	124	3.79
jedoch	4386	5.15	nicht	20169	3.85	irgendeine	556	4.95	einschließlich	51	2.85	auf	15175	3.71
allerdings	2735	5.01	wer	<u>1280</u>	3.83	allzu	476	4.74	gegenüber	221	2.71	außer	138	3.48
ganz	9471	4.96	keine	4041	3.74	dafür	1743	4.61	inklusive	49	2.7	aufs	105	3.43
niemals	434	4.86	daher	740	3.57	jede	5801	4.4	trotz	135	2.67	von	16501	3.42
leider	1386	4.66	solche	1093	3.54	zu	52715	4.36	nach	2766	2.58	durch	3718	3.34
irgend	<u>201</u>	4.65	sie	<u>6700</u>	3.53	nichts	1282	4.16	innerhalb	209	2.49	binnen	56	3.32
kaum	<u>1261</u>	4.63	niemand	<b>25</b> 7	3.45	keine	4669	3.94	für	7039	2.48	über	3330	3.0
freilich	204	4.62	eine	37041	3.41	solche	1384	3.85	wegen	200	2.46	an	7594	2.92
also	3264	4.58	jemand	317	3.39	jedwede	159	3.75	seit	561	2.46	innerhalb	277	2.84
bisher	1131	4.56	was	2380	3.32	darauf	740	3.74	zeit	20	2.46	per	225	2.79
auch	35534	4.56	er	5165	3.25	jemand	424	3.71	von	8310	2.43	in	22140	2.69
sofort	1136	4.53	nichts	655	3.24	viele	4400	3.71	mittels	<u>63</u>	2.36	mit	8122	2.52
meistens	430	4.52	es	9643	3.23	darüber	<u>676</u>	3.69	binnen	20	2.23	gegen	606	2.5

樹

X	X/Y, X/Y	165883	-0.2	X/YCjX/Y	89170	-0.1	<u>YX</u>	638024	-0.1	<u>X Y</u>	878596	-0.1
Pp(X) <u>1012928</u> -0.6	sauf	248	3.9	avec	11553	4.27	reporter	975	5.06	doute	85421	9.99
Cj(X) <u>10088</u> -0.0	jusque	599	3.29	hors	<u>104</u>	2.71	non	5532	4.86	cesse	20493	9.02
1	malgré	217	3.13	soit	77	2.17	c'est-à-dire	804	4.49	oublier	15100	7.48
	hormis	51	3.03	malgré	78	1.8	fonctionner	1169	4.48	fil	7755	7.07
	hors	147	3.01	parce	36	1.58	organisme	1212	4.2	précédent	6972	6.97
	avec	4598	2.94	entre	519	1.56	répéter	637	4.16	préavis	3701	6.96
	depuis	869	2.89	sauf	41	1.52	rester	3613	4.16	autorisation	5545	6.84
	chez	541	2.89	en	5765	1.48	accepter	1380	4.15	autant	9143	6.81
	vers	626	2.88	sous	284	1.45	presque	971	4.14	relâche	3002	6.72
	pendant	439	2.83	pendant	<u>162</u>	1.45	vivre	2985	4.14	compter	12738	6.67
	sous	725	2.77	contre	250	1.37	consommer	669	4.14	frontière	4720	6.61
	dès	262	2.63	à	7766	1.37	interdire	864	4.01	conteste	2740	6.6
	à	18464	2.62	dès	98	1.29	mourir	943	3.98	faille	3165	6.6
	au	7379	2.59	du	9242	1.28	vétérinaire	364	3.94	consentement	2514	6.28
	devant	323	2.58	jusque	137	1.22	voiture	857	3.87	moindre	3757	6.26
	en	12377	2.58	de	23057	1.17	dérouler	816	3.85	limite	4816	6.24

<u>Nn X</u>	526473	-0.1	X Nn	969635	-0.1	AjX	118195	-0.1	XAj	167461	-0.1	<u>Vb X/X</u>	1329224	
reporter	920	5.16	doute	96148	10.11	vétérinaire	260	5.06	lucratif	2851	8.2	<u>Vb</u>	1329224	-0.1
organisme	1441	4.53	cesse	20510	8.93	impossible	736	5.01	préalable	4847	7.94	oublier	<u>16163</u>	7.3
journée	1822	4.3	fil	7829	7.02	tierce	139	4.55	moindre	5688	7.7	compter	14308	6.6
voiture	1075	4.28	préavis	3832	6.89	modifiable	97	4.54	expresse	1296	7.5	parler	12885	5.94
nuit	1242	4.16	autorisation	6013	6.88	gratuit	747	4.34	nul	2863	7.15	soucier	<u>2432</u>	5.7
Internet	1353	4.07	précédent	6605	6.82	accessible	517	4.29	apparent	1106	6.93	tarder	2551	5.7:
réseau	2004	4.07	relâche	3004	6.59	possible	1898	4.26	frais	3179	6.59	laisser	<u>9961</u>	5.64
acceptation	367	4.02	faille	3200	6.49	utilisable	108	4.08	frontière	1676	5.97	attendre	7517	5.6;
amour	1131	3.91	conteste	2760	6.47	remboursable	69	3.93	égal	1040	5.64	perdre	5087	5.3
jour	4405	3.88	limite	5331	6.32	sexuel	320	3.89	réel	2466	5.61	pouvoir	54251	5.34
médecin		3.88	surprise	3308	6.29	correct	133	3.85	gras	748	5.6	passer	13149	5.20
licenciement	300	3.86	consentement		CHERCENTER IN	partiel	173	3.8	fixe	640	5.5	<b>hésiter</b>	2779	5.1
connexion	400	3.79	souci	3214	6.03	réalisable	63	3.71	excessif	420	5.44	savoir	12005	5.10
monde	3438	3.77	hésitation	2068	6.02	estre	81	3.7	supplémentaire	1195		rester	7627	5.0
sexe		3.74	arrêt	3353	6.0	immédiat	197	3.67	valable	526	5.37	vivre	6437	5.08
gens	1270	3.74	frontière	3229	5.98	inconcevable		3.66	explicite	298	1979 T.M.	bouger	1713	5.0
			L	-		L						regarder	3542	5.0

Av X/X Av	287079	-0.1	<u>ZX</u>	526005	-0.1	XZ	554614	-0.1	Pp X	258101	-0.1	<u>X Pp</u>	349901	-0.1
autant	10797	7.41	ceci	1004	4.96	aucun	36125	8.34	devant	691	3.61	jusque	<u>1966</u>	4.88
toutefois	3317	6.99	cela	6226	4.58	quoi	3522	5·73	chez	870	3.52	pour	27339	4.31
jamais	<u>11860</u>	6.7	la le	9272	4.47	OGM_	963	5.49	vers	992	3.49	avec	9295	3.94
trop	11522	6.58	la	2222	4.32	lalle	10965	4.71	du	42461	3.48	pendant	1000	3.89
forcément	1325	5.84	se	32382	4.28	la	2817	4.65	à	31897	3.41	sur	13933	3.83
nécessairement	855	5.74	un	77428	4.26	toi	<u>1128</u>	4.64	de	<u>107821</u>	3.4	à	<u>42038</u>	3.8
rien	6754	5.71	on	10142	4.24	eux	1697	<b>4.46</b>	pendant	677	3.39	depuis	<u>1684</u>	3.78
vraiment	3859	5.5	elle	9775	4.24	lequel	3094	4.41	après	<u>1187</u>	3.35	de	137573	3.75
non	7636	5.4	il	25892	4.1	lui	6975	4.33	dans	<u>11797</u>	3.18	au	15714	3.68
priori	564	5.33	votre	5454	4.07	у	7918	4.32	pour	11453	3.06	par	11444	3.67
réellement	<u>926</u>	5.33	vous	12695	4.07	leur	7251	4.22	avec	4790	2.99	devant	715	3.59
c'est-à-dire	989	5.31	tu	<u>2004</u>	3.99	se	30956	4.21	sur	7429	2.92	dans	15547	3.58
exprès	387	5.23	ce	38418	3.91	me	6916	4.14	au	<u>9114</u>	2.9	vers	1043	3.52
presque	<u>1466</u>	5.05	у	5689	3.85	son	19423	4.14	derrière	177	2.85	contre	<u>1189</u>	3.51
préalablement	416	5.02	leur	5436	3.81	que	19955	4.11	contre	726	2.83	envers	242	3.43
apparemment	419	4.92	qui	24786	3.8	votre	5045	3.96	en	14810	2.83	quant	240	3.42

cane

X		X/Y, X/Y	16565	-0.2		9119	-0.1	<u>YX</u>	424569	-0.3	XY	620883	-0.3
Pp(X)	749749 -2.3	безо	15	3.46	<u>X/Y</u>	9119	-0.1	обойтись	12297	8.55	исключение	<u>9151</u>	7.69
iom(X)	6477 -0.0	вне	90	3.05	вне	76	2.84	обходиться	5964	8.15	сомнение	8080	7.63
en(X)	737804 -1.3	кроме	230	2.46	У	526	0.2	остаться	14808	6.92	весть	4171	7.49
at(X)	<u>1640</u> -0.0	ради	54	1.86	помимо	12	-0.07	пропасть	2590	6.68	попечения	2636	7.02
cc(X)	<u>1003</u> -0.0	посредством	<u>18</u>	1.21	вместо	<u>16</u>	-0.28	невозможный	2621	6.53	преувеличение	2256	6.76
oc(X)	2266 -0.0	вместо	39	0.99	против	44	-0.28	оставить	4941	6.24	особый	9784	6.71
ns(X)	559 -0.0	путем	24	0.98	вокруг	14	-0.74	невозможно	2174	<b>6.0</b> 7	труд	8844	6.61
		помимо	24	0.91	для	445	-0.81	немыслимый	954	5.93	лишний	4748	6.58
		среди	74	0.65	со	90	-0.84	оставлять	1678	5.37	учет	6474	6.55
		выше	<u>16</u>	0.6	до	<u>163</u>	-0.86	пропавшими	485	5.2	малое	1960	6.51
		возле	11	0.56	из-за	22	-0.91	практически	2233	5.14	предварительный	2943	6.33
		от	782	0.4	от	<u>294</u>	-1.01	оставаться	3850	5.12	малейший	2032	6.25
		для	989	0.35	после	78	-1.19	прожить	741	4.98	присмотр	1582	6.25
		из	<u>811</u>	0.33	среди	<u>18</u>	-1.39	жить	4890	4.89	посредник	1786	6.21
		У	552	0.27	из	<u>23</u> 7	- <b>1.</b> 44	вообще	2127	4.79	согласие	2584	6.19
		внутри	22	0.27	c	<u>296</u>	-2.38	почти	1985	4.67	разбор	1567	6.16

MIA	304009	-0.3	AINI	044250	-0.4	ALA	00900	-0.2	AAJ	194940	-0.3	VUA
оставление	423	5.12	сомнение	9447	7.64	немыслимый	1008	7.55	малейший	2061	7.24	обой
кредит	1386	4.88	исключение	9375	7.52	пропавшими	471	7.31	предварительный	3438	7.19	обход
репортер	312	4.68	весть	4173	7.12	невозможный	2767	7.25	видимый	1687	7.12	остат
дым	377	4.51	труд	10846	6.8	пропавшим	<u>176</u>	5.94	лишний	4940	7.08	остав
участок	1432	4.4	согласие	4377	6.69	худой	324	5.78	особый	10017	6.96	проп
кофе	432	4.26	попечения	2737	6.66	мыслимый	187	5.55	посторонний	1570	6.9	остав
чай	565	4.17	преувеличение	2603	6.56	предпринимательский	249	5.14	уважительный	761	6.6	прож
лицо	2825	4.14	ведомо	2464	6.49	минеральный	263	4.66	должный	<u>1241</u>	6.53	жить
секс	396	4.02	учет	6771	6.48	неполный	156	4.63	невозможный	1714	6.32	остав
отпуск	412	4.01	разрешение	4377	6.35	исковый	124	4.43	дополнительный	4464	6.13	преде
наличные	219	3.98	ограничение	3996	6.31	ровный	205	4.27	излишний	669	5.86	смоч
квартира	1366	3.95	усилие	4131	6.25	гладкий	146	4.12	надлежащий	563	5.67	мысл
бой	<u>586</u>	3.93	малое	<u>1968</u>	6.12	земельный	290	3.92	немыслимый	397	5.53	позво
жизнь	5441	3.92	потеря	3707	6.11	апелляционный	83	3.91	хирургический	475	5.48	мочь
столбик	187	3.91	ущерб	2715	6.09	длительный	397	3.85	единый	2288	5.27	спран
заработок	387	3.84	вмешательство	2359	6.03	Послеоперационный	39	3.82	специальный	3111	5.13	выжі

Av X/X Av	100363	-0.2	ZX	231029	-0.2	XZ	226728	-0.3	Pp X	70963	-0.1	<u>X Pp</u>	79547	-0.1
невозможно	7192	8.32	куда	<u>1227</u>	5.54	всякий	21391	8.49	ко	271	3.49	со	2113	3.69
немыслимо	439	6.99	тут	1299	4.65	какой-либо	10149	8.07	сверх	23	2.68	над	724	3.57
нельзя	4436	6.65	даже	4526	4.49	никуда	887	6.39	за	2747	2.45	для	6323	3.02
извне	300	5.98	ж	324	<b>4</b> .4	никак	1459	6.18	на	12506	2.44	на	16431	2.83
практически	3089	5.85	никак	412	4.35	таковой	1174	6.03	обо	39	2.41	к	4975	2.75
трудно	1261	5.83	поэтому	1540	4.28	оное	252	5.04	до	1499	2.34	с	8158	2.4
сложно	797	5.79	ведь	1216	4.15	оный	281	4.87	во	994	2.33	от	3131	2.4
вообще	3670	5.78	теперь	<u>1167</u>	4.12	чей-либо	190	4.68	посреди	19	2.29	0	2583	2.28
скучно	252	5.77	здесь	1347	4.05	какой	2738	3.89	в	23004	2.25	из-за	206	2.24
вовсе	983	5.53	не	40489	3.96	ничто	1527	3.82	через	483	2.21	об	527	2.21
бесплатно	507	5.37	бы	4480	3.82	то	13929	3.79	при	<u>1481</u>	2.2	свыше	40	2.21
можно	13945	5.32	весь	8436	3.81	они	13906	3.63	к	3292	2.16	около	223	2.2
почти	2600	5.25	тоже	1295	3.73	она	<u>9102</u>	3.56	из	2797	2.11	до	1265	2.09
желательно	325	4.96	туда	277	3.73	он	15472	3.55	00	486	2.09	пред	27	2.07
возможно	826	4.93	как-то	277	3.62	пять	539	3.45	сквозь	<u>29</u>	2.09	между	375	2.04
тяжело	302	4.91	просто	1910	3.61	ваш	2980	3.43	под	609	2.06	в	19486	2.01