Understanding Higher-Order Correlations Among Semantic Components in Embeddings

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Abstract

Independent Component Analysis (ICA) offers interpretable semantic components of embeddings. While ICA theory assumes that embeddings can be linearly decomposed into independent components, real-world data often do not satisfy this assumption. Consequently, non-independencies remain between the estimated components, which ICA cannot eliminate. We quantified these non-independencies using higher-order correlations and demonstrated that when the higher-order correlation between two components is large, it indicates a strong semantic association between them, along with many words sharing common meanings with both components. The entire structure of non-independencies was visualized using a maximum spanning tree of semantic components. These findings provide deeper insights into embeddings through ICA.

1 Introduction

Embeddings play an important role in natural language processing, ranging from word embeddings (Mikolov et al., 2013) to internal representations in language models (Devlin et al., 2019; Brown et al., 2020; Touvron et al., 2023). Understanding how embeddings represent meaning is crucial for unraveling black box NLP models.

Independent Component Analysis (ICA) (Hyvärinen and Oja, 2000) is an effective method for visualizing and interpreting the geometric structure of embeddings (Musil and Mareček, 2024; Yamagiwa et al., 2023). Just as PCA aims to make coordinate axes uncorrelated, ICA seeks to transform the coordinate axes into statistically independent components. The resulting axes from ICA tend to have sparser component values with a few larger values compared to PCA, which increases interpretability as the axes can be seen as specific semantic components (Fig. 1).

However it has been pointed out that the estimated 'independent components' are only approxi-



Figure 1: Heatmap visualization of 300-dimensional SGNS embeddings transformed by PCA and ICA, with axes sorted by variance and skewness, respectively. Each embedding has been normalized to have a norm of 1 for better visual interpretation. For each axis, the top 4 words (frequency $n_w \ge 100$ in text8) with largest component values were used. The first 100 axes are displayed in the top panels, and the first 5 axes with the word labels are displayed in the bottom panels. See Appendices A, B and G for details.

mately independent (Hyvärinen et al., 2001; Sasaki et al., 2013, 2014). This is because many realworld datasets cannot be accurately represented as a linear combination of independent components, contradicting the assumption of ICA theory.

In this study, we aim to further interpret the results of applying ICA to embeddings by focusing on the non-independence between 'independent components'. We measure the degree of nonindependence by calculating higher-order correlations between components and find that components with large higher-order correlations can be interpreted as having strong semantic associations. The entire structure is revealed by visualizing the maximum spanning tree of semantic components with higher-order correlations as edge weights.

2 Review: ICA-Transformed Embeddings

Procedure of ICA. For a centered embedding matrix $\mathbf{X} \in \mathbb{R}^{n \times d}$ that represents the meanings of n words by d-dimensional vectors, ICA¹ seeks a transformation $\mathbf{S} = \mathbf{XB}$ such that each component S_1, \dots, S_d of the transformed matrix $\mathbf{S} = [S_1, \dots, S_d]$ is as statistically independent as possible². The transformation \mathbf{B} can be expressed as the product of the whitening transformation matrix \mathbf{A} (e.g., PCA transformation) and the orthogonal transformation matrix \mathbf{R}_{ica} , i.e., the resulting \mathbf{S} is represented as

$$\mathbf{S} = \mathbf{X} \mathbf{A} \mathbf{R}_{\text{ica}}.$$
 (1)

Here, \mathbf{R}_{ica} is obtained by minimizing the mutual information³ $I(S_1 \cdots S_d) = \sum H(S_i) - H(S_1 \cdots S_d)$, which is equivalent to maximizing the non-gaussianity⁴ of the distributions of S_i (Hyvärinen and Oja, 2000). The normalized ICA-transformed embeddings, with each embedding in **S** rescaled to a norm of 1, offer high interpretability (Yamagiwa et al., 2023, 2024) and are used for visualizations in this paper.



Figure 2: Scatterplots of normalized word embeddings along the 10th and 20th axes. The axes for PCA and ICA-transformed embeddings were arranged in descending order of variance and skewness, respectively. In both transformations, the components are uncorrelated.

Comparison of PCA and ICA. Figure 2 shows that ICA can find the 'spiky and interpretable shape' of the embedding distribution (e.g., "biology" and "stars" for the 10th and 20th axes, respectively), but PCA cannot. This is because ICA determines the coordinate axes toward high non-gaussianity, while PCA only considers variance information.

3 Higher-Order Correlations Among Estimated Independent Components

Non-Independence in Real-World Data. The 'independent components' estimated by ICA on real-world data are uncorrelated but not completely independent, with dependencies existing between components (Hyvärinen et al., 2001; Sasaki et al., 2013, 2014). This is because ICA assumes a linear decomposition into independent components, an assumption frequently violated in reality.

Higher-Order Correlation. To quantify nonindependencies, methods like mutual information and Hilbert-Schmidt Independence Criterion (HSIC) (Gretton et al., 2005) exist. Here we use the higher-order correlation, the simplest measure in terms of computation and formulation. This measure is expressed as follows:

$$E(S_i^2 S_j^2) = \frac{1}{n} \sum_{t=1}^n \mathbf{S}_{t,i}^2 \mathbf{S}_{t,j}^2.$$
 (2)

Here, **S** is the whitened matrix⁵. This can also be interpreted as the covariance between S_i^2 and S_j^2 , plus one, as $\operatorname{cov}(S_i^2, S_j^2) = \operatorname{E}((S_i^2-1)(S_j^2-1)) =$ $\operatorname{E}(S_i^2S_j^2) - 1$. If S_i and S_j are independent of each other, then $\operatorname{E}(S_i^2S_j^2) = \operatorname{E}(S_i^2)\operatorname{E}(S_j^2) = 1$. Thus, the deviation of $\operatorname{E}(S_i^2S_j^2)$ from 1 is the degree of dependence between S_i and S_j .



Figure 3: Heatmaps of the correlation coefficient $E(S_iS_j)$ and the higher-order correlation $E(S_i^2S_j^2)$ of component pairs (S_i, S_j) from ICA on 300-dimensional SGNS embeddings. See Appendix C for details.

Figure 3 shows that the estimated independent components of the embeddings are uncorrelated but not completely independent, with varying degrees of higher-order correlations across pairs. These $E(S_i^2 S_j^2)$ values provide a useful metric of association, as demonstrated in the following section.

¹For the computation, FastICA (Hyvärinen, 1999) implemented in scikit-learn (Pedregosa et al., 2011) is used.

²The k-th component S_k is also referred to as Axis k.

 $^{{}^{3}}H(X) = -\int P_X(x) \log P_X(x) dx$ is the entropy.

⁴The degree to which a probability distribution deviates from a Gaussian distribution can be measured using statistics based on higher-order moments, such as skewness (the third moment) or the negentropy of the distribution.

⁵The components are (i) centered: $E(S_i) = 0$, the mean of each component is 0, (ii) scaled: $E(S_i^2) = 1$, the variance of each component is 1, and (iii) uncorrelated: $E(S_iS_j) = 0$, the correlations are all zero.

$\begin{array}{c} \mathrm{E}(S_0^2 S_{82}^2) \\ \mathrm{Axis} \ 0 \end{array} $	= 1.927	$\mathrm{E}(S_6^2 S_{96}^2)$	= 2.032	$\mathrm{E}(S^2_{12}S^2_{60})$	$_{5}) = 1.975$	$E(S_{16}^2S_1^2)$	(18) = 2.124	$E(S_{56}^2 S_{126}^2) = 1$.861	$E(S_{63}^2 S_{210}^2) = 2$.964
	Axis 82	Axis 6	Axis 96	Axis 12	Axis 66	Axis 16	Axis 118	Axis 56	Axis 126	Axis 63	Axis 210
dishes b	beer	el	o	rabbi	judah	blood	disorder	cpu	pointer	organization	unesco
sauce b	beers	spanish	portuguese	talmud	israelites	organs	mental	microprocessor	return	international	itu
fried a	ale	nacional	paulo	rabbis	yahweh	liver	disorders	processor	string	organizations	interpol
dish b	brewing	jos	rio	torah	elisha	kidney	symptoms	cpus	pointers	interpol	observer
cooked y	yeast	de	portugal	jewish	isaiah	tissue	bipolar	intel	node	standardization	temporary
	= 0.990 Axis 23	$\frac{\mathrm{E}(S_6^2 S_{13}^2)}{\mathrm{Axis}\; 6}$	= 0.992 Axis 13	$\overline{\mathrm{E}(S_{12}^2S_5^2)}$ Axis 12	$_{7}) = 0.993$ Axis 57	$\overline{\mathrm{E}(S_{16}^2S_5^2)}$ Axis 16	$_{7}) = 0.996$ Axis 57	$\overline{\mathbf{E}(S_{56}^2 S_{197}^2)} = 0.$ Axis 56	.982 Axis 197	$\overline{ \mathbf{E}(S_{63}^2 S_{18}^2) = 1. } $ Axis 63	073 Axis 18
dishes s	statesman	el	windows	rabbi	s	blood	s	cpu	population	organization	actress
sauce a	astronomer	spanish	os	talmud	and	organs	and	microprocessor	median	international	footballer
fried p	philosopher	nacional	unix	rabbis	was	liver	was	processor	estimated	organizations	musician
dish j	johann	jos	linux	torah	in	kidney	in	cpus	residing	interpol	actor
cooked r	mathematician	de	microsoft	jewish	by	tissue	by	intel	total	standardization	singer

Table 1: (Top Row) Six randomly selected pairs of components from the top 50 pairs with the highest $|E(S_i^2 S_j^2) - 1|$ values. For each component, the top 5 words (frequency $n_w \ge 100$ in text8) with the largest component values are listed. (Bottom Row) Component pairs with small $E(S_i^2 S_k^2)$ values. For each component S_i with the smaller axis number in the pairs (S_i, S_j) in the top row, a component S_k with the smallest value of $|E(S_i^2 S_k^2) - 1|$ was selected.

	k = 1	k = 2	k = 3	k = 4	k = 5
List-2 (top- k)	69.0	65.0	64.0	64.5	56.5
List-3 (bottom 30%)	27.0	33.0	32.5	33.5	40.5
Can't decide	4.0	2.0	3.5	2.0	3.0

Table 2: The percentage of each list judged by the GPT model to be more semantically related to List-1.

4 Interpretation of Higher-Order Correlations as Semantic Relevance

4.1 Degree of Semantic Relevance

We show that the values of higher-order correlations $E(S_i^2 S_j^2)$ can be interpreted as the degree of associations between semantic components.

Results: Top Row of Table 1. The meanings of each component, represented by the listed words in component pairs with high $E(S_i^2 S_j^2)$ values, are strongly related. For example, focusing on Axis 0 and Axis 82, a pair with particularly large values of $E(S_i^2 S_j^2)$, we can interpret that Axis 0 has a meaning associated with "dishes" and Axis 82 with "beer", suggesting that there is a semantic relationship between them.

Results: Bottom Row of Table 1. On the other hand, for component pairs with $E(S_i^2 S_j^2)$ values close to 1, indicating that the components are considered independent, there is no clear relevance between the meanings of the components. For example, looking at the pair of Axis 0 and Axis 23, which has a small $E(S_i^2 S_j^2)$ value, we can interpret that Axis 0 represents "dishes" and Axis 23 represents "polymath", and there is no direct semantic relationship between them.

Detailed results are shown in Appendix G.

4.2 Quantitative Evaluation via GPT-40 mini

We conducted experiments to quantitatively evaluate whether higher-order correlations between ICA components represent semantic relationships.

Settings. Our experimental procedure was as follows. We first selected the top 100 ICA components, ranked by skewness. For each component i $(i = 0, \dots, 99)$, we created three word lists: Word list-1 comprised the top 5 words from component *i*, Word list-2 contained the top 5 words from the k-th most correlated component with component i $(k = 1, \ldots, 5)$, and Word list-3 consisted of the top 5 words from a randomly selected low-correlation component (chosen from the bottom 30% of correlated components). Using these lists, we generated pairs (list-1, list-2) and (list-1, list-3), and queried GPT-40 mini to determine which pair was more semantically related⁶. This procedure was executed for all 100 components, resulting in 200 total comparisons for each value of k from 1 to 5. The specific prompt used for GPT-40 mini model is provided in Appendix D.

Results and Discussion. Table 2 shows the result of the experiment. We can see that component pairs with higher-order correlations tend to be more semantically related (69.0% for k = 1 vs 27.0% for bottom 30%), and that semantic relatedness gradually declines as correlation decreases (69.0% at k = 1 to 56.5% at k = 5). These results quantitatively demonstrate that higher-order correlations between ICA components effectively reflect semantic relatedness between corresponding words.

⁶To mitigate potential biases, we randomly shuffled the order of the lists in the pairs and repeated this process with the reversed order: (list-1, list-3) and (list-1, list-2).

$\begin{array}{l} {\rm E}(S_{10}^2S_2^2)=2.323\\ {\rm Axis}\;10 \end{array}$	Axis 2	$E(S_{10}^2S_{16}^2)$ Axis 10	= 1.947 Axis 16	${f E}(S^2_{10}S^2_{160}) = {f Axis} 10$	1.811 Axis 160	$E(S_{27}^2S_{11}^2) = 1$ Axis 27	.643 Axis 11	$E(S_{27}^2S_{64}^2) = Axis 27$	= 1.997 Axis 64	$\begin{array}{c} \mathrm{E}(S^2_{27}S^2_{104})\\ \mathrm{Axis}\ 27 \end{array}$	= 1.605 Axis 104
dna proteins rna mrna	acid hydrogen acids oh	dna proteins rna mrna	blood organs liver kidney	dna proteins rna mrna	evolution evolutionary darwin selection	greek greece athens athenian	gaius caesar augustus lucius	greek greece athens athenian	goddess gods deity deities	greek greece athens athenian	archaeological neolithic bc pottery
w_k	$\mathbf{S}_{k,10}^2\mathbf{S}_{k,2}^2$	w_k	$\mathbf{S}_{k,10}^2\mathbf{S}_{k,16}^2$	$\overline{w_k}$	$\mathbf{S}_{k,10}^2 \mathbf{S}_{k,160}^2$	$\overline{w_k}$	$\mathbf{S}_{k,27}^2\mathbf{S}_{k,11}^2$	w_k	$\mathbf{S}_{k,27}^2\mathbf{S}_{k,64}^2$	w_k	$\mathbf{S}_{k,27}^2 \mathbf{S}_{k,104}^2$
ribose	3755.7	adenylate	2079.8	utr	2381.5	laertius	898.3	demeter	2348.5	tiryns	1690.6
deoxyribose	2963.9	effectors	1842.5	reticulum	1942.0	preveza	788.0	hephaestus	2204.3	knossos	1348.1
phosphodiester	2850.2	antisense	1639.9	genomic	1668.6	xanthippus	764.2	hestia	2021.5	mycenaean	1205.6
biosynthesis	2510.1	cyclase	1638.9	homozygous	1599.1	rhadamanthus	735.5	hera	1744.6	lendering	1124.7
methyltransferase	2482.9	myosin	1201.8	cleaved	1181.0	thracians	711.8	cronos	1720.2	hissarlik	1103.1
pyrimidine	2399.6	axons	1144.2	tubulin	1152.4	alexandri	705.2	aphrodite	1675.9	melos	1006.3

Table 3: For 6 component pairs (S_i, S_j) selected from adjacent component pairs in the MST defined in Sec. 5, the top 6 words and their corresponding $\mathbf{S}_{t,i}^2 \mathbf{S}_{t,j}^2$ values that contribute the most to the $\mathbf{E}(S_i^2 S_j^2)$ value are shown.



Figure 4: Scatter plots of normalized word embeddings for axis pairs (10, 2) and (27, 64) with large values of higher-order correlations. Blue-labeled words are the top 4 words for each axis's component values, while red-labeled words are the top 6 words for the values of $\mathbf{S}_{t,i}^2 \mathbf{S}_{t,j}^2$. See Appendix C for all the pairs in Table 3.

4.3 Decomposition of Semantic Relevance

For a component pair (S_i, S_j) , words w_t with large values of $\mathbf{S}_{t,i}^2 \mathbf{S}_{t,j}^2$ are considered to make a significant contribution to the higher-order correlation $\mathrm{E}(S_i^2 S_j^2) = \frac{1}{n} \sum_{t=1}^n \mathbf{S}_{t,i}^2 \mathbf{S}_{t,j}^2$. Here we investigate words that significantly contribute to the $\mathrm{E}(S_i^2 S_j^2)$ values and gain a more concrete understanding of the relationships between components.

Results. Table 3 presents component pairs selected from the maximum spanning tree T_{150} (Sec. 5) and words significantly contributing to their $E(S_i^2 S_j^2)$ values. These words often relate to the meanings of both components, demonstrating additive compositionality. For example, in the Axis 10 and Axis 2 pair, words like *ribose*, *deoxyribose*, *phosphodiester*, *biosynthesis*, *methyltransferase*, and *pyrimidine* notably contribute to the $E(S_i^2 S_j^2)$ value, linking biomolecules and chemical components. Detailed results are shown in Appendix G.

Visualization. Figure 4 shows word embedding scatter plots for axis pairs (10, 2) and (27, 64) with large higher-order correlations to illustrate the distribution of words with significant contributions

to higher-order correlations. Unlike a typical independent component scatter plot (Fig. 2), these exhibit many words with large component values in both axes, reflecting the meanings of both axes and demonstrating the additive compositionality of embeddings. For the (10, 2) pair, words that notably contribute to the $E(S_i^2 S_j^2)$ (ribose, deoxyribose, phosphodiester, biosynthesis, methyltransferase, and pyrimidine) appear with significant values in both components. This abundance of words sharing both semantic components is characteristic of pairs with large higher-order correlations. Detailed results are shown in Appendix C.

5 Visualization of Non-Independence Structure

In this section, we construct a maximum spanning tree (MST) based on higher-order correlations to visualize the non-independence between estimated independent components.

Settings. The 300 ICA components, originally ordered by skewness with $i = 0, \dots, 299$, were resorted in descending order of semantic component consistency scores to prioritize axes that are more easily interpretable as specific semantic components. The semantic component consistency scores were determined by a word intrusion task (Chang et al., 2009). A higher consistency score indicates easier interpretability. Details of the scoring methods are provided in Appendix E.1. We introduce the notation σ to map the order of consistency scores to the original axis numbers in the skewness order: $\sigma(j)$ represents the axis number in the skewness sort for the axis with the *j*-th highest consistency score. Then, we consider a weighted complete graph G_{150} , with 150 components having high consistency scores $S_{\sigma(i)}$ $(i \in 0, \dots, 149)$ as nodes. For the edge between the node pair (S_i, S_j) ,



Figure 5: Subtrees of MST T_{150} defined in Sec. 5. Each node represents an independent component S_k (i.e., Axis k) estimated by ICA. The label of each node is "k : TopWord(k)", where TopWord(k) is the word with the largest component value along axis k among words with frequency $n_w \ge 100$ in the text8 corpus. The color of the edge between nodes (i, j) represents the magnitude of the $E(S_i^2 S_j^2)$ value between the components, with darker edge colors indicating larger values.

we set $c_{ij} = E(S_i^2 S_j^2)$ as the weight. To visualize and interpret G_{150} , we compute the maximum spanning tree (MST)⁷ T_{150} , a spanning tree that maximizes the sum of c_{ij} in the graph G_{150} . MST was relatively more interpretable than other subgraphs of graph G_{150} , providing a good balance between visibility and element relationships.

Interpretation of the MST. The MST T_{150} represents a graph structure expressing the nonindependence between estimated independent components. Since the edges in T_{150} connect component pairs with large higher-order correlations, we can interpret that there is a strong relationship between the components connected by these edges. Furthermore, the subtrees of T_{150} represent groups of semantically related components, and the components within these groups tend to have similar meanings.

Results and Discussion. Figure 5 shows a part of the MST T_{150} ; the entire MST T_{150} is exhibited in Appendix E.2. The colors correspond to the clusters obtained by applying spectral clustering⁸ (Ng et al., 2001) to T_{150} . The weights used for clustering are the higher-order correlations. From

the MST, we can infer structures such as connections and groupings of meanings among three or more components⁹. For example, semantically related component pairs such as (2: dna, 10: acid) in the pink cluster and (27: greek, 64: goddess) in the cyan cluster are connected by edges in T_{150} . Additionally, groups such as {168: license, 13: windows, 56: cpu} in the yellow cluster and {46: spacecraft, 35: aircraft, 47: ship} in the blue cluster form semantic clusters as sets of nodes connected by edges. The components within these groups can be interpreted as having meanings related to "computer" and "vehicle", respectively.

6 Conclusion

Both ICA and PCA transformations make the components uncorrelated. ICA goes further by making the components nearly independent, but some non-independence still remains. In this study, we used higher-order correlations to quantify the nonindependence between the components in the ICAtransformed word embeddings. By interpreting these as the semantic associations between the components and visualizing the overall structure, we can gain a deeper understanding of the latent semantic structure within the embeddings.

⁷We used minimum_spanning_tree implemented in NetworkX (Hagberg et al., 2008) for the computation of the MST. See Appendix E.2 for details.

⁸We used SpectralClustering implemented in scikit-learn (Pedregosa et al., 2011).

⁹Furthermore, in Appendix F, we conducted a dimensionality reduction experiment that numerically demonstrates how the MST effectively represents a significant structure among the components.

Limitations

- The embeddings used in the experiments are limited to SGNS word embeddings. For a more thorough analysis, it is necessary to conduct experiments using various types of embeddings.
- For large embedding matrices with a high number of data points *n*, ICA may fail to converge within a practical timeframe. To overcome this, we suggest using subsampled data to estimate the ICA transformation matrix, which can then be applied to unseen embedding vectors.
- When *n* is large, calculating higher-order correlations (eq. 2) may become computationally intensive. This calculation is similar to the computation of the variance-covariance matrix and can be approximated by subsampling data points. Further speedup can be achieved by parallelization of the computation.
- Since ICA leverages the non-Gaussianity of embedding distributions, it is not suitable for analysis if the original embeddings follow a multivariate Gaussian distribution.

Ethics Statement

This study complies with the ACL Ethics Policy.

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Code Availability

Code is available at https://github.com/ momoseoyama/hoc.

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A Details of Experimental Settings

The word embeddings used in the experiments were trained using Skip-gram with Negative Sampling (SGNS). The parameters used to train SGNS are summarized in Table 4. The corpus used for training is the text8 corpus (Mahoney, 2011), and the number of vocabulary words is n = 253,854.

Dimensionality Epochs	300 100
Window size h	10
Negative samples ν	5
Learning rate	0.025
Min count	1

Table 4: SGNS parameters.

B Remarks on Axis 57 in Figure 1



Figure 6: Boxplot of correlation coefficients between word frequency n_w and the component values for the 0th to 99th axes of the ICA-transformed embeddings. Axis 57 shows a particularly high correlation coefficient.

An interesting vertical streak is observed in Axis 57 of the heatmap for ICA-transformed embeddings in Fig. 1. This streak can be explained by several factors. As shown in Fig. 6, Axis 57 exhibits a strong correlation between component values and word frequencies n_w , suggesting that Axis 57 is more associated with word frequency than with a specific semantic meaning. Additionally, the words used in Fig. 1 were selected from those appearing more than 100 times in the text8 corpus, resulting in a bias towards high-frequency



Figure 7: Scatter plot of word frequency n_w versus the component values of the 57th axis of the ICAtransformed embeddings. Words used in Fig. 1 are highlighted in dark blue. The regression line and coefficient of determination were calculated for words with a frequency of $n_w \ge 10$.



Figure 8: Scatter plot of word frequency n_w versus the component values of the 0th axis of the ICAtransformed embeddings. The settings are the same as in Fig. 7.

words. This tendency is further illustrated in Fig. 7, which demonstrates that words used in the heatmap $(n_w \ge 100)$ tend to have larger component values along Axis 57. In contrast, Fig. 8 shows that for axes with weak correlation to word frequency, the words used in the heatmap do not exhibit notably large component values. Consequently, large component values were observed along Axis 57 in the heatmap, a pattern that was unique to Axis 57 and not observed in other axes.

C Higher-Order Correlations

C.1 Distribution of Higher-Order Correlations

Figures 9a and 9b show histograms of higher-order correlations $E(S_i^2S_j^2)$ for pairs where i < j and

for all pairs including $E(S_i^4)$ where i = j, respectively. While there are component pairs where $E(S_i^2 S_j^2) < 1$, in Fig. 3, the range of values was truncated between 1.0 and 2.5 for visualization purposes.

C.2 Scatterplots for Independent Axes

Complementary Results for Sec. 4.3. Table 3 in Sec. 4.3 presented words with significant contributions to higher-order correlations for six axis pairs. While the main text illustrated the distribution of these highly contributing words through scatter plots for the two selected pairs, Figure 10 provides scatter plots for all the six pairs.

The Relationship Between the Magnitude of **Higher-Order Correlations and the Appearance** of Scatter Plots. Figure 11 presents the scatter plots of word embeddings for 24 component pairs, each with different higher-order correlation values. We can see that as the magnitude of higherorder correlation increases, the number of words with large component values along both axes increases as well. The selection of these 24 pairs was conducted as follows: First, we considered 150 components $S_{\sigma(0)}, \cdots, S_{\sigma(149)}$ with high semantic consistency (see Appendix E.1 for the calculation method). We then sorted all possible component pairs (S_i, S_j) $(i, j \in \sigma(0), \dots, \sigma(149))$ based on the value of $|E(S_i^2 S_i^2) - 1|$. We established 24 equally spaced grids between the minimum and maximum values, and selected pairs closest to each grid point without repetition.

Words with Significant Contributions to Higher-Order Correlations. We have observed words with significant contributions, i.e., with large values of $S_{t,i}^2 S_{t,j}^2$, to higher-order correlations $E(S_i^2 S_j^2)$ in Table 3 in Sec. 4.3, and will see further examples in Tables 8 and 9 in Appendix G. Such words are labeled in red in the scatter plots in Fig. 4 in Section 4.3, as well as in Figs. 10 and 11 in Appendix C.2. For axis pairs with large higher-order correlations, we observe a large number of words that make significant contributions to the higherorder correlations. The meanings of these words include both axes' meanings, demonstrating the additive compositionality of embeddings.

D Prompt Used for Evaluation by GPT-40 mini

The specific prompt used for the GPT-40 mini model is provided below.



Figure 9: Histograms of higher-order correlations.



Figure 10: Scatter plots of normalized word embeddings for axis pairs in Table 3. Blue-labeled words are the top 4 words for each axis's component values, while redlabeled words are the top 6 words for values of $\mathbf{S}_{t,i}^2 \mathbf{S}_{t,i}^2$.

```
Question:
You are given 2 list pairs (A, B), (C, D).
If one pair is more semantically relevant than
the other, answer the pair.
If you cannot determine, answer "XX".
List pair (A, B): ({wordlist_1}, {wordlist_2})
List pair (C, D): ({wordlist_1}, {wordlist_3})
Output:
"AB" if (A, B) is more semantically related
"CD" if (C, D) is more semantically related
"XX" if equally related, or you can't decide
Respond with only AB, CD, or XX.
```

When conducting the experiment, we took the following steps to eliminate any potential biases arising from the order of word sequences and specific label names.

- To remove the influence of word order within lists, we randomly shuffled the words in wordlist_1, wordlist_2, and wordlist_3.
- 2. To prevent bias in output labels, we conducted the experiment twice, swapping wordlist_2 and wordlist_3 between runs.

3. To account for order bias in the prompt, we randomly alternated the order of the following two lines:

List pair (A, B): ({wordlist_1}, {wordlist_	2})
List pair (C, D): ({wordlist_1}, {wordlist_	3})

E Details of Visualization of Non-Independence Structure

E.1 Scoring ICA Axes: Word Intrusion Task

We assigned a semantic coherence score to each axis of the ICA-transformed embeddings using the word intrusion task method (Chang et al., 2009).

Word Intrusion Task. The word intrusion task is a method used to evaluate the semantic coherence of a set of k words by assessing the ability to identify an intruder word. For instance, consider the set of words {windows, os, unix, linux, microsoft}, which has a consistent theme of operating systems. In this case, an unrelated word such as waterskiing should be easily identifiable as an intruder, as it does not align with the theme of operating systems. In our experiment, we assigned coherence scores to the top k = 5 words (with frequency $n_w \ge 100$ in the text8 corpus) for each axis.

Selection of the Intruder Word. In order to select the intruder word for the set of top k words of each axis $a \in \{1, \ldots, d\}$, denoted as $top_k(a)$, we randomly chose a word from a pool of words that satisfy both of the following criteria simultaneously: (i) the word ranks in the lower 50% in terms of the component value on the axis a, and (ii) it ranks in the top 10% in terms of the component value on some axis other than a. For each axis, L = 100 intruder words are randomly selected, and $W_{int}(a)$ denotes the set of these L intruder words. **Scoring Method.** For the consistency score of the meaning of each axis a, Score(a), we adopted the metric proposed by Sun et al. (2016).

$$Score(a) = \frac{InterDist(a)}{IntraDist(a)}$$

$$IntraDist(a) = \sum_{\substack{w_i, w_j \in top_k(a) \\ w_i \neq w_j}} \frac{\operatorname{dist}(w_i, w_j)}{k(k-1)}$$
$$InterDist(a) = \max_{w \in W_{int}(a)} \sum_{\substack{w_i \in top_k(a) \\ w_i \in top_k(a)}} \frac{\operatorname{dist}(w_i, w)}{k}$$

In this formula, we defined $\operatorname{dist}(w_i, w_j) = \|\mathbf{s}_i - \mathbf{s}_j\|$ for the ICA-transformed embeddings. Here, $\operatorname{IntraDist}(a)$ denotes the average distance between the top k words, and $\operatorname{InterDist}(a)$ represents the average distance between the top words and the intruder words. The score is higher when the intruder words are further away from the set $\operatorname{top}_k(a)$. Therefore, this score serves as a quantitative measure of the ability to identify the intruder word, thus it is used as a measure of the consistency of the meaning of the top k words and the interpretability of axes.

E.2 Entire Visualization of MST

Figure 12 is the visualization of maximum spanning tree (MST) T_{150} defined in Sec. 5. For a graph G_{150} , where the cost between nodes *i* and *j* defined as $c_{ij} = E(S_i^2 S_j^2)$, the algorithm to find the MST *T* is a greedy method that maximizes the total sum of costs, $\sum_{(i,j)\in T} c_{ij}$, subject to *T* being a spanning tree. The greedy algorithm selects edges in decreasing order of c_{ij} while adhering to the tree constraint. Due to the monotonicity of f(x) = 1/x, the decreasing order of c_{ij} is equivalent to the increasing order of $1/c_{ij}$. Thus, computing the MST T_{150} in the graph G_{150} is equivalent to finding the minimum spanning tree, which minimizes the sum of $1/c_{ij}$.

F Dimensionality Reduction via MST

	d=2	d = 5	d = 10	d=20	d=50	d = 100
Random Clustering on components (PCA)	0.04	0.08	0.12	0.16	0.23	0.29
Random Clustering on components (ICA)	0.04	0.08	0.12	0.17	0.24	0.29
Spectral Clustering on MST (PCA)	0.03	0.08	0.13	0.17	0.24	0.30
Spectral Clustering on MST (ICA)	0.06	0.13	0.18	0.23	0.28	0.31

Table 5: Word similarity scores for dimensionality reduction.

We experimentally confirmed that the structure of higher-order correlations between components can be applied to the dimensionality reduction of embeddings. Specifically, we performed Spectral Clustering on the maximum Spanning Tree (MST) T_{300} , which was computed based on the higherorder correlations between components. By reducing the dimensionality of the embeddings through averaging the clustered axes, we verified that the accuracy degradation in Word Similarity Tasks was mitigated compared to random clustering.

Experimental Settings. We conducted our experiments using the 300-dimensional word embeddings (SGNS). These embeddings were subjected to PCA and ICA to obtain components for clustering. We employed two clustering methods: (1) Random Clustering and (2) Spectral Clustering on the maximum Spanning Tree (MST) T_{300} , which was computed based on the higher-order correlations calculated using Eq. 2. Clustering was performed with the number of clusters ranging from 2 to 100. Dimensionality reduction was achieved by averaging the clustered axes, resulting in reduced dimensions from d = 2 to d = 100. The performance of the lower-dimensional embeddings was evaluated through Word Similarity Tasks. For the Word Similarity Tasks, we utilized six datasets: MEN (Bruni et al., 2014), WS353 (Finkelstein et al., 2002), MTurk (Radinsky et al., 2011), RW (Luong et al., 2013), SimLex999 (Hill et al., 2015), and SimVerb-3500 (Gerz et al., 2016). Each dataset comprises word pairs along with gold similarity scores, assigned by human annotators. We employed the Spearman rank correlation coefficient between human ratings and the cosine similarity of the word embeddings as the evaluation metric. The reported values represent the average scores across the six datasets.

Results and Discussion The experimental results are presented in Table 5. We observe that ICAbased methods outperform PCA-based methods. Moreover, our proposed method, Spectral Clustering on the MST of ICA components, consistently achieves the best performance across all dimensions. This can be attributed to the fact that components included in the same cluster on the MST likely have high semantic relevance and play similar roles in representing the meaning of words. These results validate that considering higher-order correlations between axes better preserves semantic relationships in compressed word embeddings, demonstrating the practical utility of our method. It is important to note that this evaluation assesses the performance of clustering using a downstream task of dimensionality reduction, rather than dimensionality reduction itself.

G Supplementary Tables for ICA Components and MST Subtrees

Table 6 shows all components of the ICAtransformed word embeddings used in our experiments. Associated with the experiments in Sec. 4.1, Table 7 shows the top 60 pairs with the highest $E(S_i^2 S_j^2)$ values. Additionally, in Table 8 and Table 9, we report on all component pairs in the subtrees of MST T_{150} shown in Fig. 5, extending the results from the selected pairs previously reported in Sec. 4.3.



Figure 11: Scatter plots of normalized word embeddings for 24 axis pairs. Blue-labeled words are the top 4 words for each axis's component values, while red-labeled words are the top 6 words for values of $\mathbf{S}_{t,i}^2 \mathbf{S}_{t,j}^2$.



Figure 12: Visualization of the entire MST T_{150} defined in Sec. 5. Each color of the nodes represents one of the ten clusters obtained by Spectral Clustering.

| Axis 0 | Axis 1 | Axis 2 | Axis 3

 | Axis 4 | Axis 5
 | Axis 6 | Axis 7 | Axis 8
 | Axis 9 | Axis 10 | Axis 11 | Axis 12
 | Axis 13 | Axis 14 |
|--|---|--
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---	---	--

dishes	genus	acid

 | india | und
 | el | les | chinese
 | di | dna | gaius | rabbi
 | windows | topological |
| sauce | species | hydrogen | ibn

 | indian | der
 | spanish | du | china
 | italian | proteins | caesar | talmud
 | os | isomorphic |
| fried | extinct | acids | muhammad

 | nehru | die
 | nacional | des | beijing
 | della | rna | augustus | rabbis
 | unix | banach |
| dish | birds | oh | abu

 | hindu | das
 | jos | paris | pinyin
 | luigi | mrna | lucius | torah
 | linux | topology |
| Axis 15 | Axis 16 | Axis 17 | Axis 18

 | Axis 19 | Axis 20
 | Axis 21 | Axis 22 | Axis 23
 | Axis 24 | Axis 25 | Axis 26 | Axis 27
 | Axis 28 | Axis 29 |
| drugs | blood | consonants | actress

 | party | stars
 | japanese | instrument | statesman
 | church | russian | cars | greek
 | album | film |
| heroin | liver | vowels | musician

 | democrats | star
 | japan
tokvo | bass | philosopher
 | communion | russia | car | athens
 | band | directed |
| lsd | kidney | consonant | actor

 | democratic | constellations
 | emperor | guitars | johann
 | orthodox | soviet | chassis | athenian
 | songs | director |
| Axis 30 | Axis 31 | Axis 32 | Axis 33

 | Axis 34 | Axis 35
 | Axis 36 | Axis 37 | Axis 38
 | Axis 39 | Axis 40 | Axis 41 | Axis 42
 | Axis 43 | Axis 44 |
| stations | swedish | university | nolish

 | irish | aircraft
 | http | rail | rifle
 | nitcher | isbn | islands | ing
 | currency | plants |
| fm | sweden | college | poland

 | ireland | flight
 | www | trains | gun
 | sox | press | island | image
 | currencies | plant |
| radio | danish | technology | krak

 | dublin | boeing
 | htm | railway | rifles
 | baseman | ed | archipelago | png
 | euro | flowers |
| broadcast | norwegian | institute | aw

 | ulster | airlines
 | html | train | ammunition
 | pitchers | routledge | atoll | gif
 | dollar | flowering |
| Axis 45 | Axis 46 | Axis 47 | Axis 48

 | Axis 49 | Axis 50
 | Axis 51 | Axis 52 | Axis 53
 | Axis 54 | Axis 55 | Axis 56 | Axis 57
 | Axis 58 | Axis 59 |
| quantum | spacecraft | ship | day

 | court | site
 | coach | infectious | element
 | buildings | appointed | cpu | s
 | imperfect | concerto |
| particles | nasa | ships | observances

 | judge | forum
 | quarterback | infection | metals
 | building | minister | microprocessor | and
 | perfect | fugue |
| physics | astronaut | cruisers | holiday

 | trial | photos
 | bengals | infections | uranium
 | built | appoints | cpus | in
 | present | bwv |
| Axis 60 | Axis 61 | Axis 62 | Axis 63

 | Axis 64 | Axis 65
 | Axis 66 | Axis 67 | Axis 68
 | Axis 69 | Axis 70 | Axis 71 | Axis 72
 | Axis 73 | Axis 74 |
| river | daughter | company | organization

 | goddess | word
 | indah | blue | football
 | gesserit | accusative | game | sexual
 | in | africa |
| tributaries | married | corporation | international

 | gods | meaning
 | israelites | white | cup
 | bene | nouns | games | sex
 | tcp | african |
| rivers | marriage | companies | organizations

 | deity | etymology
 | yahweh | red | fa
 | leto | genitive | gameplay | homosexual
 | protocols | africans |
| navigable | wife | shareholders | interpol

 | deities | term
 | elisha | yellow | club
 | duncan | noun | multiplayer | heterosexual
 | protocol | namibia |
| Axis 75 | Axis 76 | Axis 77 | Axis 78

 | Axis 79 | Axis 80
 | Axis 81 | Axis 82 | Axis 83
 | Axis 84 | Axis 85 | Axis 86 | Axis 87
 | Axis 88 | Axis 89 |
| births | you | painting | fiction

 | canada | serbian
 | philosophy | beer | wimbledon
 | highest | battle | rocks | solids
 | force | austria |
| deaths | know | paintings | novels

 | quebec | serbs
 | philosophical | beers | open
 | elevation | battles | volcanic | faces
 | army | belgium |
| novelists | we | art
nainters | stories

 | canadian | croatia
 | nhilosophers | ale | nnalist
 | II
lowest | fought | granite | cube
 | regiment | Iuxembourg |
| Avic 00 | Axic 01 | A vie 02 | Avic 02

 | Axis 04 | Axic 05
 | Axic 06 | Avic 07 | Axio 08
 | Avic 00 | Avia 100 | Avia 101 | Axic 102
 | Avia 102 | Axis 104 |
| AAI3 30 | Anis of | HAIS 32 | AA13 35

 | -their | Axis 30
 | - | | AAIS 30
 | | AAI3 100 | | AXI3 102
 | | |
| marvel | divided | somerset | snoken

 | neonles | van
 | o | anarcho | australian
 | kentucky | empires | electrical | cryptography
 | light | neolithic |
| superhero | districts | cornwall | language

 | indigenous | netherlands
 | paulo | capitalists | sydney
 | mississippi | emperors | circuits | cipher
 | wavelengths | bc |
| superman | divisions | exeter | dialects

 | minorities | amsterdam
 | rio | economists | melbourne
 | alabama | rulers | current | ciphers
 | laser | pottery |
| Axis 105 | Axis 106 | Axis 107 | Axis 108

 | Axis 109 | Axis 110
 | Axis 111 | Axis 112 | Axis 113
 | Axis 114 | Axis 115 | Axis 116 | Axis 117
 | Axis 118 | Axis 119 |
| italy | buddha | dog | award

 | computation | martial
 | worn | episode | frac
 | morphisms | audio | nazi | si
 | disorder | combustion |
| norway | buddhism | hound | awards

 | artificial | judo
 | wearing | aired | cos
 | homomorphism | lossy | holocaust | units
 | mental | diesel |
| netherlands | mahayana | dogs | prize

 | turing | aikido
 | clothing | show | equation
 | hydrogen | compression | nazis | metre
 | disorders | turbine |
| germany | budullist | biecu | awarded

 | | Karate
 | wear | 1. 107 | eulei
 | wavelenguis | mpeg | camps | Kilografii
 | symptoms | engine |
| AXIS 120 | Axis 121 | AXIS 122 | AXIS 125

 | Axis 124 | Axis 125
 | Axis 120 | AXIS 127 | Axis 128
 | Axis 129 | AXIS 150 | AXIS 131 | AXIS 152
 | AXIS 155 | AXIS 134 |
| winters | families | hip | newspaper

 | israeli | algae
 | pointer | poetry | ball
 | schools | exports | iv | telephone
 | fourth | prix
ground |
| temperatures | older | di | weekly

 | palestinians | fungi
 | string | poem | goal
 | secondary | textiles | vii | mobile
 | fifth | schumacher |
| precipitation | household | rap | newspapers

 | israel | mitochondria
 | pointers | poems | foul
 | education | gwh | vi | cellular
 | sixth | race |
| Axis 135 | Axis 136 | Axis 137 | Axis 138

 | Axis 139 | Axis 140
 | Axis 141 | Axis 142 | Axis 143
 | Axis 144 | Axis 145 | Axis 146 | Axis 147
 | Axis 148 | Axis 149 |
| manuscripts | disk | san | horse

 | frankish | import
 | treaty | colspan | card
 | n | donald | studied | medicine
 | olympics | saint |
| translation | floppy | francisco | horses

 | franks | duplicate
 | signed | align | cards
 | j | duck | born | medical
 | olympic | st |
| translations | disks | california | riding

 | saxon | info
 | agreement | center | dealer
 | q | scrooge | he | doctors
 | athletes | petersburg |
| testament | drives | diego | breed

 | saxons | no
 | signing | motto | betting
 | r | mcduck | career | care
 | sport | patron |
| | | |

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 | 00 | | |
 | • | | |
 | | |
| Axis 150 | Axis 151 | Axis 152 | Axis 153

 | Axis 154 | Axis 155
 | Axis 156 | Axis 157 | Axis 158
 | Axis 159 | Axis 160 | Axis 161 | Axis 162
 | Axis 163 | Axis 164 |
| Axis 150
nuclear | Axis 151
century | Axis 152
inducted | Axis 153
finns

 | Axis 154
york | Axis 155
 | Axis 156
claim | Axis 157
intelligence | Axis 158
dance
 | Axis 159
theatre | Axis 160
evolution | Axis 161
km | Axis 162
ten
 | Axis 163
corpus | Axis 164
iran |
| Axis 150
nuclear
bomb | Axis 151
century
th | Axis 152
inducted
treasure | Axis 153
finns
soviets

 | Axis 154
york
new | Axis 155
list
topics
 | Axis 156
claim
claims
claimed | Axis 157
intelligence
agency | Axis 158
dance
dances
dancing
 | Axis 159
theatre
stage
broadway | Axis 160
evolution
evolutionary | Axis 161
km
harbors | Axis 162
ten
hundred
months
 | Axis 163
corpus
vitamin | Axis 164
iran
iranian |
| Axis 150
nuclear
bomb
bombs
fission | Axis 151
century
th
twentieth
nineteenth | Axis 152
inducted
treasure
apocalypse
fairy | Axis 153
finns
soviets
col
ir

 | Axis 154
york
new
ny
bronx | Axis 155
list
topics
lists
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 | Axis 156
claim
claims
claimed
evidence | Axis 157
intelligence
agency
cia
fbi | Axis 158
dance
dances
dancing
dancers
 | Axis 159
theatre
stage
broadway
theater | Axis 160
evolution
evolutionary
darwin
selection | Axis 161
km
harbors
total
unpaved | Axis 162
ten
hundred
months
thousand
 | Axis 163
corpus
vitamin
esp
mutant | Axis 164
iran
iranian
iraq
persian |
| Axis 150
nuclear
bomb
bombs
fission
Axis 165 | Axis 151
century
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twentieth
nineteenth
Axis 166 | Axis 152
inducted
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apocalypse
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Axis 167 | Axis 153
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Axis 168

 | Axis 154
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 | Axis 156
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Axis 175 | Axis 161
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Axis 176 | Axis 162
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Axis 177
 | Axis 163
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esp
mutant
Axis 178 | Axis 164
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iranian
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Axis 179 |
| Axis 150
nuclear
bomb
bombs
fission
Axis 165
desertification | Axis 151
century
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twentieth
nineteenth
Axis 166
axis | Axis 152
inducted
treasure
apocalypse
fairy
Axis 167
thank | Axis 153
finns
soviets
col
ir
Axis 168
license

 | Axis 154
york
new
ny
bronx
Axis 169
famala | Axis 155
list
topics
lists
see
Axis 170
 | Axis 156
claim
claims
claimed
evidence
Axis 171
monster | Axis 157
intelligence
agency
cia
fbi
Axis 172
hell | Axis 158
dance
dances
dancing
dancers
Axis 173
basque
 | Axis 159
theatre
stage
broadway
theater
Axis 174
park | Axis 160
evolution
evolutionary
darwin
selection
Axis 175
test | Axis 161
km
harbors
total
unpaved
Axis 176
article | Axis 162
ten
hundred
months
thousand
Axis 177
 | Axis 163
corpus
vitamin
esp
mutant
Axis 178
question | Axis 164
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iranian
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persian
Axis 179
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| Axis 150
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bomb
bombs
fission
Axis 165
desertification
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nineteenth
Axis 166
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treasure
apocalypse
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hello | Axis 153
finns
soviets
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Axis 168
license
copyleft

 | Axis 154
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bronx
Axis 169
female
male | Axis 155
list
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Axis 170
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 | Axis 156
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evidence
Axis 171
monster
creature | Axis 157
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Axis 172
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heaven | Axis 158
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 | Axis 159
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Axis 174
park
parks | Axis 160
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Axis 175
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Axis 176
article
main | Axis 162
ten
months
thousand
Axis 177
arthur
merlin
 | Axis 163
corpus
vitamin
esp
mutant
Axis 178
question
debate | Axis 164
iran
iranan
iraq
persian
Axis 179
bah
II |
| Axis 150
nuclear
bomb
fission
Axis 165
desertification
environment
flooding | Axis 151
century
th
twentieth
nineteenth
Axis 166
axis
perpendicular
rotation | Axis 152
inducted
treasure
apocalypse
fairy
Axis 167
thank
hello
please | Axis 153
finns
soviets
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Axis 168
license
copyleft
gpl

 | Axis 154
york
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bronx
Axis 169
female
age | Axis 155
list
topics
lists
see
Axis 170
class
classes
middle
 | Axis 156
claim
claims
claimed
evidence
Axis 171
monster
creature
loch | Axis 157
intelligence
agency
cia
fbi
Axis 172
hell
heaven
paradise | Axis 158
dance
dances
dances
dancers
Axis 173
basque
spain
aragon
 | Axis 159
theatre
stage
broadway
theater
Axis 174
park
parks
national | Axis 160
evolution
evolutionary
darwin
selection
Axis 175
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tests | Axis 161
km
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Table 6: The top 4 words with the largest component values along all axes of ICA-transformed word embedding used in our experiments. Axes are sorted in descending order of skewness.

$E(S_{63}S_{210}) =$ Axis 63	2.964 Axis 210	$E(S_2^2 S_{114}^2) =$ Axis 2	2.480 Axis 114	$E(S_{10}^2 S_{125}^2) = 2$ Axis 10	.431 Axis 125	$E(S_{58}^2 S_{70}^2) = 2$ Axis 58	2.395 Axis 70	$E(S_{14}^2 S_{113}^2) = 2$ Axis 14	.380 Axis 113	$E(S_{63}^2S_{184}^2) =$ Axis 63	2.330 Axis 184
organization	unesco	acid	morphisms	dna	algae	imperfect	accusative	topological	frac	organization	g
international	itu internol	hydrogen acids	homomorphism	proteins	bacteria fungi	perfect	nouns	isomorphic	cos	international	e
interpol	observer	oh	wavelengths	mrna	mitochondria	present	noun	topology	euler	interpol	fao
$\begin{array}{l} \mathrm{E}(S_2^2S_{10}^2)=2\\ \mathrm{Axis}\; 2 \end{array}$.323 Axis 10	$\begin{array}{l} {\rm E}(S^2_{22}S^2_{59}) = \\ {\rm Axis} \; 22 \end{array}$	2.247 Axis 59	$\begin{array}{l} \mathrm{E}(S^2_{26}S^2_{134})=2\\ \mathrm{Axis}\ 26 \end{array}$.233 Axis 134	$\begin{array}{l} {\rm E}(S_{14}^2S_{114}^2) = \\ {\rm Axis} \ 14 \end{array}$	2.228 Axis 114	$\begin{array}{l} \mathrm{E}(S_2^2S_{53}^2)=2.1\\ \mathrm{Axis}\; 2 \end{array}$	65 Axis 53	$\begin{array}{l} {\rm E}(S_{16}^2S_{52}^2) = 2\\ {\rm Axis} \ 16 \end{array}$	2.158 Axis 52
acid	dna	instrument	concerto	cars	prix	topological	morphisms	acid	element	blood	infectious
hydrogen	proteins	instruments bass	fugue	ford	grand schumacher	isomorphic banach	homomorphism	hydrogen acids	metals elements	organs liver	infection
oh	mrna	guitars	bwv	chassis	race	topology	wavelengths	oh	uranium	kidney	infections
$E(S_{10}^2S_{114}^2) =$	2.150	$E(S_{16}^2S_{118}^2) =$	= 2.124	$E(S_1^2 S_{121}^2) = 2.2$	107	$E(S_{44}^2S_{121}^2) =$	2.096	$E(S_{28}^2 S_{122}^2) = 2$.086	$E(S_{19}^2S_{55}^2) = 2$	2.075
Axis 10	Axis 114	Axis 16	Axis 118	Axis 1	Axis 121	Axis 44	Axis 121	Axis 28	Axis 122	Axis 19	Axis 55
dna	morphisms	blood	disorder	genus	families	plants	families	album	hip	party	appointed
proteins	homomorphism	organs liver	disorders	species	family	plant flowers	family	albums	hop di	parties democrats	cabinet
mrna	wavelengths	kidney	symptoms	birds	household	flowering	household	songs	rap	democratic	appoints
$E(S_{30}^2S_{112}^2) =$	2.060	$E(S_6^2 S_{96}^2) =$	2.032	$E(S_{21}^2 S_{110}^2) = 2$.028	$E(S_{27}^2 S_{64}^2) = 1$.997	$E(S_{13}^2 S_{168}^2) = 1$.991	$E(S_{51}^2 S_{128}^2) =$	1.987
Axis 30	Axis 112	Axis 6	Axis 96	Axis 21	Axis 110	Axis 27	Axis 64	Axis 13	Axis 168	Axis 51	Axis 128
stations	episode	el	0	japanese	martial	greek	goddess	windows	license	coach	ball
fm radio	aired	spanish	portuguese	japan tokyo	judo aikido	greece	gods	os	copyleft	quarterback defensive	scrimmage
broadcast	tv	jos	rio	emperor	karate	athenian	deities	linux	licenses	bengals	foul
$E(S_{12}^2S_{66}^2) = 1$	1.975	$E(S_4^2 S_{106}^2) =$	1.974	$E(S_{56}^2 S_{136}^2) = 1$.967	$E(S_{17}^2 S_{114}^2) =$	1.966	$E(S_{15}^2 S_{118}^2) = 1$.959	$E(S_{10}^2 S_{16}^2) = 1$	1.947
Axis 12	Axis 66	Axis 4	Axis 106	Axis 56	Axis 136	Axis 17	Axis 114	Axis 15	Axis 118	Axis 10	Axis 16
rabbi	judah	india	buddha	cpu	disk	consonants	morphisms	drugs	disorder	dna	blood
talmud rabbis	israelites	indian nehru	buddhism mahayana	microprocessor	floppy disks	vowels	homomorphism hydrogen	drug heroin	mental disorders	proteins	organs liver
torah	elisha	hindu	buddhist	cpus	drives	consonant	wavelengths	lsd	symptoms	mrna	kidney
$\begin{array}{l} \mathrm{E}(S_0^2S_{82}^2)=1\\ \mathrm{Axis}\; 0 \end{array}$.927 Axis 82	$E(S_{53}^2S_{150}^2) = Axis 53$	= 1.915 Axis 150	$E(S_{80}^2 S_{89}^2) = 1.9$ Axis 80	909 Axis 89	$E(S_5^2 S_{59}^2) = 1.$ Axis 5	897 Axis 59	$E(S_{39}^2S_{51}^2) = 1.8$ Axis 39	385 Axis 51	$\begin{array}{l} \mathrm{E}(S^2_{10}S^2_{52}) = \\ \mathrm{Axis} \ \mathrm{I0} \end{array}$	1.875 Axis 52
dishes	beer	element	nuclear	serbian	austria	und	concerto	pitcher	coach	dna	infectious
sauce	beers	metals	bomb	serbs	belgium	der	fugue	sox	quarterback	proteins	infection
fried dish	ale	uranium	bombs	serbia	luxembourg	die das	sonata	baseman	defensive bengals	rna mrna	disease
$E(S^2, S^2) = 1$	1 872	$E(S^2, S^2,)$	- 1 871	$E(S^2S^2) = 1$	869	$E(S^2S^2,) = 1$	867	$F(S^2, S^2,) = 1$	861	$E(S^2, S^2,) =$	1.857
Axis 53	Axis 86	L(1/201/1007.	- 1.011	-100601791 - 10	005	L(080106) = 1		$L(D_{56}D_{126}) = 1$.001	L(0850153) -	1.001
	1 110 00	Axis 39	Axis 128	Axis 6	Axis 173	Axis 8	Axis 106	Axis 56	Axis 126	Axis 85	Axis 153
element	rocks	Axis 39 pitcher	Axis 128 ball	$\frac{Axis 6}{el}$	Axis 173 basque	Axis 8 chinese	Axis 106 buddha	Axis 56 cpu	Axis 126 pointer	Axis 85 battle	Axis 153 finns
element metals	rocks volcanic	Axis 39 pitcher sox	Axis 128 ball scrimmage	Axis 6 el spanish	Axis 173 basque spain	Axis 8 chinese china	Axis 106 buddha buddhism	Axis 56 cpu microprocessor	Axis 126 pointer return	Axis 85 battle battles	Axis 153 finns soviets
element metals elements uranium	rocks volcanic granite geologic	Axis 39 pitcher sox baseman pitchers	Axis 128 ball scrimmage goal foul	Axis 6 el spanish nacional jos	Axis 173 basque spain aragon eta	Axis 8 chinese china beijing pinyin	Axis 106 buddha buddhism mahayana buddhist	Axis 56 cpu microprocessor processor cpus	Axis 126 pointer return string pointers	Axis 85 battle battles defeat fought	Axis 153 finns soviets col ir
element metals elements uranium $E(S_{74}^2 S_{50}^2) = 1$	rocks volcanic granite geologic	$\frac{\text{Axis 39}}{\text{pitcher}}$ $\frac{\text{baseman}}{\text{pitchers}}$ $E(S_{1z}^2 S_{1e}^2) =$	Axis 128 ball scrimmage goal foul 1.834	$\frac{Axis 6}{el}$ spanish nacional jos $E(S_{ev}^2 S_{10c}^2) = 1$	Axis 173 basque spain aragon eta .832	Axis 8 chinese china beijing pinyin $E(S_{17}^2S_{272}^2) =$	Axis 106 buddha buddhism mahayana buddhist 1.828	Axis 56 cpu microprocessor processor cpus $E(S_{T}^2, S_{T}^2, z) = 1$	Axis 126 pointer return string pointers 828	Axis 85 battle battles defeat fought $E(S_{2}^{2}S_{114}^{2}) =$	Axis 153 finns soviets col ir 1.824
element metals elements uranium $E(S_{74}^2S_{89}^2) = 1$ Axis 74	rocks volcanic granite geologic 1.854 Axis 89	$\frac{\text{Axis 39}}{\text{pitcher}}$ $\frac{\text{baseman}}{\text{pitchers}}$ $E(S_{15}^2S_{16}^2) = \frac{\text{Axis 15}}{\text{Axis 15}}$	Axis 128 ball scrimmage goal foul 1.834 Axis 16	$\frac{Axis 6}{el}$ spanish nacional jos $E(S_{83}^2S_{105}^2) = 1$ Axis 83	Axis 173 basque spain aragon eta .832 Axis 105	$\begin{array}{c} Axis 8\\\hline chinese\\china\\beijing\\pinyin\\\hline E(S_{17}^2S_{233}^2) =\\\hline Axis 17\\\hline \end{array}$	Axis 106 buddha buddhism mahayana buddhist 1.828 Axis 233	$\begin{tabular}{c} Axis 56 \\ \hline cpu \\ microprocessor \\ cpus \\ \hline E(S^2_{71}S^2_{143}) = 1 \\ \hline Axis 71 \\ \hline \end{tabular}$	Axis 126 pointer return string pointers 828 Axis 143	$\begin{tabular}{ c c c c } \hline Axis 85 \\ \hline battle \\ battles \\ defeat \\ fought \\ \hline E(S^2_{53}S^2_{114}) = \\ \hline Axis 53 \\ \hline \end{tabular}$	Axis 153 finns soviets col ir 1.824 Axis 114
element metals elements uranium $E(S_{74}^2S_{89}^2) = 1$ Axis 74 africa	rocks volcanic granite geologic 1.854 Axis 89 austria	$\frac{Axis 39}{pitcher}$ baseman pitchers $E(S_{15}^2S_{16}^2) = \frac{Axis 15}{drugs}$	Axis 128 ball scrimmage goal foul 1.834 Axis 16 blood	$\frac{\text{Axis 6}}{\text{el}}$ spanish nacional jos $\frac{\text{E}(S_{83}^2S_{105}^2) = 1}{\text{Axis 83}}$ wimbledon	Axis 173 basque spain aragon eta .832 Axis 105 italy	$\begin{array}{l} \label{eq:action} Axis 8 \\ \hline chinese \\ china \\ beijing \\ pinyin \\ \hline E(S_{17}^2S_{233}^2) = \\ Axis 17 \\ \hline consonants \end{array}$	Axis 106 buddha buddhism mahayana buddhist 1.828 Axis 233 hong	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Axis 126 pointer return string pointers 828 Axis 143 card	$\begin{tabular}{ c c c c } \hline Axis 85 \\ \hline battle \\ battles \\ defeat \\ fought \\ \hline E(S_{53}^2S_{114}^2) = \\ \hline Axis 53 \\ \hline element \\ \hline \end{tabular}$	Axis 153 finns soviets col ir 1.824 Axis 114 morphisms
element metals elements uranium $E(S_{74}^2S_{89}^2) = 1$ Axis 74 africa african officans	rocks volcanic granite geologic 1.854 Axis 89 austria belgium	$\frac{\text{Axis 39}}{\text{pitcher}}$ sox baseman pitchers $E(S_{15}^2S_{16}^2) = Axis 15$ drugs drug baseain	Axis 128 ball scrimmage goal foul 1.834 Axis 16 blood organs liver	$\frac{\text{Axis 6}}{\text{el}}$ $\frac{\text{spanish}}{\text{nacional}}$ $\frac{\text{E}(S_{83}^2S_{105}^2) = 1}{\text{Axis 83}}$ $\frac{\text{wimbledon}}{\text{open}}$	Axis 173 basque spain aragon eta .832 Axis 105 italy norway nortwadende	Axis 8chinesechinabeijingpinyin $E(S_{17}^2S_{233}^2) =$ Axis 17consonantsvowels	Axis 106 buddha buddhism mahayana buddhist 1.828 Axis 233 hong kong wiidanaa	$\begin{array}{c} \mbox{Axis 56} \\ \hline \mbox{cpu} \\ \mbox{microprocessor} \\ \mbox{cpus} \\ \hline \mbox{E}(S_{71}^2S_{143}^2) = 1 \\ \hline \mbox{Axis 71} \\ \hline \mbox{games} \\ \mbox{games} \\ \mbox{games} \\ \hline \mbox{gamma} \\ \hline \mbox{gamma}$	Axis 126 pointer return string pointers 828 Axis 143 card card cards doctor	$\begin{array}{l} \mbox{Axis 85} \\ \hline \mbox{battles} \\ \mbox{defeat} \\ \mbox{fought} \\ \hline \mbox{E}(S^2_{53}S^2_{114}) = \\ \hline \mbox{Axis 53} \\ \hline \mbox{element} \\ \hline \mbox{metals} \\ \mbox{element} \\ \hline \mbox{constraints} \end{array}$	Axis 153 finns soviets col ir 1.824 Axis 114 morphisms homomorphism
element metals elements uranium $E(S_{74}^2S_{89}^2) = 1$ Axis 74 africa african africans namibia	rocks volcanic granite geologic 1.854 Axis 89 austria belgium luxembourg germany	$\frac{\text{Axis 39}}{\text{pitcher}}$ $\frac{\text{pitcher}}{\text{sox}}$ $\frac{\text{baseman}}{\text{pitchers}}$ $\frac{\text{E}(S_{15}^2S_{16}^2) = \frac{\text{Axis 15}}{\text{drugs}}$ $\frac{\text{drugs}}{\text{drug}}$ $\frac{\text{heroin}}{\text{lsd}}$	Axis 128 ball scrimmage goal foul 1.834 Axis 16 blood organs liver kidney		Axis 173 basque spain aragon eta .832 Axis 105 italy norway netherlands germany	$\begin{array}{c} \mbox{Axis 8} \\ \hline \mbox{Chinese} \\ \mbox{Chinese} $	Axis 106 buddha buddhism mahayana buddhist 1.828 Axis 233 hong kong guidance mine	$\begin{array}{c} \mbox{Axis 56} \\ \mbox{cpu} \\ \mbox{microprocessor} \\ \mbox{cpus} \\ \mbox{cpus} \\ \mbox{cpus} \\ \mbox{E}(S_{71}^2S_{143}^2) = 1 \\ \mbox{Axis 71} \\ \mbox{game} \\ \mbox{games} \\ \mbox{games} \\ \mbox{gameplay} \\ \mbox{multiplayer} \end{array}$	Axis 126 pointer return string pointers 828 Axis 143 card cards dealer betting	$\begin{array}{l} \mbox{Axis 85} \\ \hline \mbox{battle} \\ \mbox{battles} \\ \mbox{defeat} \\ \mbox{fought} \\ \hline \mbox{E}(S^2_{53}S^2_{114}) = \\ \mbox{Axis 53} \\ \hline \mbox{element} \\ \mbox{elements} \\ \mbox{uranium} \\ \end{array}$	Axis 153 finns soviets col ir 1.824 Axis 114 morphisms homomorphism hydrogen wavelengths
element metals elements uranium $E(S_{74}^2S_{89}^2) = 1$ Axis 74 africa africans namibia $E(S_{29}^2S_{29}^2) = 1$	rocks volcanic granite geologic 1.854 Axis 89 austria belgium luxembourg germany 1.820	$\begin{array}{l} \text{Axis 39}\\ \text{pitcher}\\ \text{sox}\\ \text{baseman}\\ \text{pitchers}\\ \text{E}(S_{15}^2S_{16}^2) =\\ \text{Axis 15}\\ \text{drugs}\\ \text{drug}\\ \text{heroin}\\ \text{lsd}\\ \text{E}(S_{16}^2S_{16}^2) =\\ \end{array}$	Axis 128 ball scrimmage goal foul 1.834 Axis 16 blood organs liver kidney = 1.811	$\begin{array}{c} \text{Axis 6} \\ \hline \\ \text{el} \\ \text{spanish} \\ \text{nacional} \\ \text{jos} \\ \hline \\ \text{E}(S_{23}^2S_{105}^2) = 1 \\ \text{Axis 83} \\ \hline \\ \text{wimbledon} \\ \hline \\ \text{open} \\ \text{finalist} \\ \text{quarter} \\ \hline \\ \text{E}(S_{2a}^2S_{105}^2) = 1 \end{array}$	Axis 173 basque spain aragon eta .832 Axis 105 italy norway netherlands germany .809	Axis 8 chinese chinese ching beijing pinyin $E(S_{17}^2S_{233}^2) =$ Axis 17 consonants vowel consonant $E(S_{170}^2S_{120}^2) =$	Axis 106 buddha buddhism mahayana buddhist 1.828 Axis 233 hong kong guidance mine 1.800	Axis 56 cpu microprocessor processor cpus $E(S_{71}^2S_{143}^2) = 1$ Axis 71 game games games games gameplay multiplayer $E(S_{72}^2S_{53}^2) = 1$.	Axis 126 pointer return string pointers 828 Axis 143 card cards dealer betting 798	Axis 85 battle battles defeat fought $E(S_{23}^2S_{114}^2) =$ Axis 53 element metals elements uranium $E(S_{23}^2S_{60}^2) = 1$	Axis 153 finns soviets col ir 1.824 Axis 114 morphisms homomorphism hydrogen wavelengths .794
$\begin{array}{l} \text{element} \\ \text{metals} \\ \text{elements} \\ \text{uranium} \\ \text{E}(S_{74}^2 S_{89}^2) = 1 \\ \text{Axis 74} \\ \text{africa} \\ \text{african} \\ \text{africans} \\ \text{namibia} \\ \text{E}(S_{30}^2 S_{132}^2) = \\ \text{Axis 30} \end{array}$	rocks volcanic granite geologic L.854 Axis 89 austria belgium luxembourg germany 1.820 Axis 132	$\begin{array}{l} \operatorname{Axis}39\\ \operatorname{pitcher}\\ \operatorname{sox}\\ \operatorname{baseman}\\ \operatorname{pitchers}\\ \operatorname{E}(S_{15}^2S_{16}^2)=\\ \operatorname{Axis}15\\ \operatorname{drugs}\\ \operatorname{drugs}\\ \operatorname{drug}\\ \operatorname{heroin}\\ \operatorname{lsd}\\ \operatorname{E}(S_{10}^2S_{160}^2)=\\ \operatorname{Axis}10 \end{array}$	Axis 128 ball scrimmage goal foul 1.834 Axis 16 blood organs liver kidney = 1.811 Axis 160	$\begin{array}{c} \mbox{Axis 6} & \mbox{f} & \mbox{iii} & \mbox{f} \\ \hline \mbox{el} & \mbox{spanish} & \mbox{nacional} & \mbox{jos} & \mbox{spanish} & \mbox{nacional} & \mbox{spanish} & \mbo$	Axis 173 basque spain aragon eta .832 Axis 105 italy norway netherlands germany .809 Axis 195	$\begin{array}{c} \mbox{Axis 8} \\ \mbox{chinese} \\ \mbox{china} \\ \mbox{beijing} \\ \mbox{pinyin} \\ \mbox{E}(S_{17}^2S_{233}^2) = \\ \mbox{Axis 17} \\ \mbox{consonants} \\ \mbox{vowel} \\ \mbox{vowel} \\ \mbox{consonant} \\ \mbox{E}(S_{10}^2S_{103}^2) = \\ \mbox{Axis 101} \end{array}$	Axis 106 budha buddhayana buddhist 1.828 Axis 233 hong kong guidance mine 1.800 Axis 103	$\begin{array}{l} \mbox{Axis 56} \\ \mbox{cpu} \\ \mbox{microprocessor} \\ \mbox{cpus} \\ \mbox{E}(S_{143}^2) = 1 \\ \mbox{Axis 71} \\ \mbox{games} \\ ga$	Axis 126 pointer return string pointers 828 Axis 143 card card cards dealer betting 798 Axis 88	$\begin{array}{l} \mbox{Axis 85} \\ \mbox{battle} \\ \mbox{battles} \\ \mbox{defeat} \\ \mbox{fought} \\ \mbox{E}(S_{23}^2S_{114}^2) = \\ \mbox{Axis 53} \\ \mbox{element} \\ \mbox{uranium} \\ \mbox{E}(S_{24}^2S_{59}^2) = 1 \\ \mbox{Axis 4} \end{array}$	Axis 153 finns soviets col ir 1.824 Axis 114 morphisms homomorphism hydrogen warogen warogen ydrogen Xr94 Axis 89
$\begin{array}{l} \text{element} \\ \text{metals} \\ \text{elements} \\ \text{uranium} \\ \text{E}(S_{74}^2 S_{89}^2) = 1 \\ \text{Axis 74} \\ \text{african} \\ \text{african} \\ \text{africans} \\ \text{namibia} \\ \text{E}(S_{30}^2 S_{132}^2) = \\ \text{Axis 30} \\ \\ \text{stations} \end{array}$	rocks volcanic granite geologic 1.854 Axis 89 austria belgium luxembourg germany 1.820 Axis 132 telephone	$\begin{array}{c} \operatorname{Axis} 39 \\ \operatorname{pitcher} \\ \operatorname{sox} \\ \operatorname{baseman} \\ \operatorname{pitchers} \\ \operatorname{E}(S_{15}^2S_{16}^2) \\ \operatorname{drugs} \\ \operatorname{drugs} \\ \operatorname{drug} \\ \operatorname{drug} \\ \operatorname{heroin} \\ \operatorname{lsd} \\ \end{array}$	Axis 128 ball scrimmage goal foul 1.834 Axis 16 blood organs liver kidney = 1.811 Axis 160 evolution	$\begin{array}{c} \mbox{Axis 6} \\ \hline \mbox{el} \\ \mbox{spanish} \\ \mbox{nacional} \\ \mbox{jos} \\ \mbox{E}(S^2_{85}S^2_{105}) = 1 \\ \mbox{Axis 83} \\ \mbox{wimbledon} \\ \mbox{open} \\ \mbox{finalist} \\ \mbox{quarter} \\ \hline \mbox{E}(S^2_{86}S^2_{195}) = 1 \\ \mbox{Axis 85} \\ \mbox{Axis 86} \\ \mbox{Axis 86} \\ \hline \mbox{rocks} \\ \hline \mbox{rocks} \\ \hline \end{array}$	Axis 173 basque spain aragon eta .832 Axis 105 italy norway netherlands germany .809 Axis 195 cretaceous	$\begin{array}{l} \label{eq:action} \begin{tabular}{lllllllllllllllllllllllllllllllllll$	Axis 106 buddha buddhism mahayana buddhist 1.828 Axis 233 hong guidance mine 1.800 Axis 103 wavelength	$\begin{array}{l} \mbox{Axis 56} \\ \mbox{cpu} \\ \mbox{microprocessor} \\ \mbox{cpus} \\ \mbox{E}(S_1^2,S_{143}^2) = 1 \\ \mbox{Axis 71} \\ \mbox{games} \\ \mbox{games} \\ \mbox{gameplayer} \\ \mbox{E}(S_{35}^2,S_{68}^2) = 1.2 \\ \mbox{Axis 35} \\ \mbox{axis axis} \\ \mbox{axis} \\ \mbo$	Axis 126 pointer return string pointers 828 Axis 143 card card cards dealer betting 798 Axis 88 force	$\begin{array}{l} \mbox{Axis 85} \\ \mbox{battles} \\ \mbox{battles} \\ \mbox{defeat} \\ \mbox{fought} \\ \mbox{E}(S^2_{33}S^2_{14}) = \\ \mbox{Axis 53} \\ \mbox{elements} \\ \mbox{elements} \\ \mbox{elements} \\ \mbox{E}(S^2_{4}S^2_{89}) = 1 \\ \mbox{Axis 4} \\ \mbox{india} \\ \end{array}$	Axis 153 finns soviets col ir 1.824 Axis 114 morphisms homomorphism hydrogen wavelengths 7.794 Axis 89 austria
element metals elements uranium $E(S_{74}^2S_{29}^2) = 1$ africa african african african african $E(S_{30}^2S_{132}^2) = 4$ Axis 30 stations fm radio	rocks volcanic granite geologic 1.854 Axis 89 austria belgium luxembourg germany 1.820 Axis 132 telephone phone mobile	$\begin{array}{l} \operatorname{Axis}{39}^{1287} \\ \operatorname{pitcher} \\ \operatorname{sox} \\ \operatorname{baseman} \\ \operatorname{pitchers} \\ \operatorname{E}(S_{15}^2S_{16}^2) = \\ \operatorname{Axis}{15} \\ \\ \operatorname{drug} \\ \operatorname{heroin} \\ \operatorname{lsd} \\ \\ \operatorname{E}(S_{10}^2S_{160}^2) = \\ \operatorname{Axis}{10} \\ \\ \\ \operatorname{dna} \\ \operatorname{proteins} \\ \\ \\ \operatorname{ma} \\ \end{array}$	Axis 128 ball scrimmage goal foul 1.834 Axis 16 blood organs liver kidney = 1.811 Axis 160 evolutionary darwin	$\begin{array}{c} \mbox{Axis 6} & \mbox{fills} \\ \mbox{el} \\ \mbox{spanish} \\ \mbox{nacional} \\ \mbox{jos} \\ \mbox{E}(S^2_{85}S^2_{105}) = 1 \\ \mbox{Axis 83} \\ \mbox{winbledon} \\ \mbox{open} \\ \mbox{finalist} \\ \mbox{quarter} \\ \mbox{E}(S^2_{86}S^2_{105}) = 1 \\ \mbox{Axis 85} \\ \mbox{Axis 86} \\ \mbox{rocks} \\ \mbox{volcanic} \\ \mbox{granite} \\ \mbox{granite} \end{array}$	Axis 173 basque spain aragon eta .832 Axis 105 italy norway netherlands germany .809 Axis 195 cretaceous geologic enoch	$\begin{array}{c} \mbox{Axis 8} \\ \hline \mbox{Chinese} \\ \mbox{Consonant} \\ Co$	Axis 106 buddha buddhism mahayana buddhist 1.828 Axis 233 hong kong guidance mine 1.800 Axis 103 wavelength light wavelengths	$\begin{array}{l} \label{eq:constraint} \begin{array}{l} \mbox{Axis 56} \\ \mbox{cpu} \\ \mbox{microprocessor} \\ \mbox{cpus} \\ \mbox{processor} \\ \mbox{cpus} \\ \mbox{cms} \\ \mbox{sins 71} \\ \mbox{axis 71} \\ \mbox{axis 71} \\ \mbox{axis 71} \\ \mbox{multiplayer} \\ \mbox{E}(S^2_{35}S^2_{88}) = 1.2 \\ \mbox{Axis 35} \\ \mbox{aircraft} \\ \mbox{flight} \\ \mbox{hore in 6} \\ hore in$	Axis 126 pointer return string pointers 828 Axis 143 card cards dealer betting 798 Axis 88 force army military	$\begin{array}{l} \mbox{Axis 85} \\ \hline \mbox{battles} \\ \mbox{battles} \\ \mbox{defeat} \\ \mbox{fought} \\ \hline \mbox{E}(S^2_{33}S^2_{14}) = \\ \mbox{Axis 53} \\ \hline \mbox{elements} \\ \mbox{elements} \\ \mbox{elements} \\ \mbox{E}(S^2_{33}S^2_{89}) = 1 \\ \mbox{Axis 4} \\ \hline \mbox{india} \\ \hline \mbox{india} \\ \mbox{nehm} \\ \mbox{nehm} \\ \hline \end{array}$	Axis 153 finns soviets col ir 1.824 Axis 114 morphisms hydrogen wavelengths .794 Axis 89 austria belgium luxembourg
element metals elements uranium $E(S_{74}^2 S_{69}^2) = 1$ africa african african african african $E(S_{30}^2 S_{132}^2) =$ Axis 30 stations fm radio broadcast	rocks volcanic granite geologic 1.854 Axis 89 austria belgium luxembourg germany 1.820 Axis 132 telephone phone mobile cellular	$\begin{array}{c} \operatorname{Axis} 39^{128'} \\ \operatorname{Axis} 39^{128'} \\ \operatorname{pitcher} \\ \operatorname{sox} \\ \operatorname{baseman} \\ \operatorname{pitchers} \\ \operatorname{baseman} \\ \operatorname{pitchers} \\ \operatorname{fugs} \\ \operatorname{drug} \\ \operatorname{drug} \\ \operatorname{drug} \\ \operatorname{heroin} \\ \operatorname{lsd} \\ \operatorname{E}(S_{10}^2S_{160}^2) \\ \operatorname{Axis} 10 \\ \operatorname{dna} \\ \operatorname{proteins} \\ \operatorname{ma} \\ \operatorname{man} \\ \operatorname{man} \\ \end{array}$	Axis 128 ball scrimmage goal foul 1.834 Axis 16 blood organs liver kidney = 1.811 Axis 160 evolutionary darwin selection	$\begin{array}{c} \begin{array}{c} \text{Axis 6} \\ \hline \\ \text{el} \\ \text{spanish} \\ \text{nacional} \\ \text{jos} \\ \hline \\ E(S_{82}^2 S_{105}^2) = 1 \\ \text{Axis 83} \\ \hline \\ \text{wimbledon} \\ \text{open} \\ \text{finalist} \\ \text{quarter} \\ \hline \\ E(S_{86}^2 S_{195}^2) = 1 \\ \text{Axis 86} \\ \hline \\ \text{rocks} \\ \text{volcanic} \\ \text{granite} \\ \text{geologic} \end{array}$	Axis 173 basque spain aragon eta .832 Axis 105 italy norway netherlands germany .809 Axis 195 cretaceous geologic epoch extinction	$\begin{array}{l} \label{eq:action} \mbox{Axis 8} \\ \hline \mbox{chinese} \\ \mbox{chinese} \\ \mbox{chinese} \\ \mbox{chinese} \\ \mbox{beijing} \\ \mbox{pinyin} \\ \hline \mbox{E}(S^2_{17}S^2_{233}) = \\ \mbox{Axis 17} \\ \hline \mbox{consonant} \\ \mbox{vowel} \\ \mbox{consonant} \\ \hline \mbox{consonant} \\ \hline \mbox{E}(S^2_{10}S^2_{103}) = \\ \mbox{Axis 101} \\ \hline \mbox{voltage} \\ \mbox{electrical} \\ \mbox{current} \\ \mbox{current} \\ \hline \end{array}$	Axis 106 buddha buddhism mahayana buddhist 1.828 Axis 233 hong kong guidance mine 1.800 Axis 103 wavelength light wavelengths laser	$\begin{array}{l} \label{eq:constraint} \begin{array}{l} \mbox{Axis 56} \\ \mbox{cpu} \\ \mbox{microprocessor} \\ \mbox{cpus} \\ \mbox{processor} \\ \mbox{cpus} \\ \mbox{axis 71} \\ \mbox{axis 71} \\ \mbox{games} \\ \mbox{gameplay} \\ \mbox{gameplayer} \\ \mbox{E}(S^2_{35}S^2_{88}) = 1.2 \\ \mbox{Axis 35} \\ \mbox{aircraft} \\ \mbox{flight} \\ \mbox{boeing} \\ \mbox{airlines} \end{array}$	Axis 126 pointer return string pointers 828 Axis 143 card cards dealer betting 798 Axis 88 force army military regiment	$\begin{array}{l} \mbox{Axis 85} \\ \hline \mbox{battles} \\ \mbox{battles} \\ \mbox{defeat} \\ \mbox{fought} \\ \hline \mbox{E}(S^2_{33}S^2_{14}) = \\ \mbox{Axis 53} \\ \hline \mbox{elements} \\ \mbox{elements} \\ \mbox{elements} \\ \mbox{E}(S^2_{33}S^2_{89}) = 1 \\ \mbox{Axis 4} \\ \hline \mbox{india} \\ \hline \mbox{india} \\ \mbox{indian} \\ \mbox{nehru} \\ \mbox{hindu} \\ \end{array}$	Axis 153 finns soviets col ir 1.824 Axis 144 morphisms hydrogen wavelengths .794 Axis 89 austria belgium luxembourg germany
element metals elements uranium $E(S_{74}^2S_{89}^2) = \pm$ Axis 74 africa african africans namibia $E(S_{30}^2S_{132}^2) =$ Axis 30 stations fm radio broadcast $E(S_{107}^2S_{138}^2) =$ Axis 107	rocks volcanic granite geologic 	$\begin{array}{l} {\rm Axis 39} \\ {\rm Axis 39} \\ {\rm pitcher} \\ {\rm sox} \\ {\rm baseman} \\ {\rm pitchers} \\ {\rm baseman} \\ {\rm pitchers} \\ {\rm E}(S_{15}^2S_{16}^2) = \\ {\rm Axis 15} \\ {\rm drugs} \\ {\rm drug} \\ {\rm heroin} \\ {\rm lsd} \\ {\rm E}(S_{10}^2S_{160}^2) = \\ {\rm Axis 10} \\ {\rm dna} \\ {\rm proteins} \\ {\rm rna} \\ {\rm E}(S_{15}^2S_{44}^2) = \\ {\rm Axis 15} \\ {\rm Axis 15} \\ {\rm Axis 15} \\ {\rm Axis 16} \\ {\rm Axis 15} \\ {\rm Axis 15} \\ {\rm Axis 16} \\$	Axis 128 ball scrimmage goal foul 1.834 Axis 16 blood organs liver kidney = 1.811 Axis 160 evolutionar darwin selection 1.793 Axis 44	$\begin{array}{l} \begin{array}{l} \mbox{Axis 6} & 6 \\ \hline \mbox{el} \\ \mbox{spanish} \\ \mbox{nacional} \\ \mbox{jos} \\ \hline \mbox{E}(S_{83}^2S_{105}^2) = 1 \\ \mbox{Axis 83} \\ \hline \mbox{winbledon} \\ \mbox{open} \\ \mbox{finalist} \\ \mbox{quarter} \\ \hline \mbox{quarter} \\ \hline \mbox{finalist} \\ \mbox{quarter} \\ \hline \mbox{finalist} \\ \mbox{quarter} \\ \hline \mbox{finalist} \\ \mbox{quarter} \\ \hline \mbox{for S}_{125} = 1 \\ \hline \mbox{Axis 86} \\ \hline \mbox{for S}_{125} = 1 \\ \hline \mbox{finalist} \\ \mbox{geologic} \\ \hline \mbox{finalist} \\ \hline \mbox{finalist} \\ \mbox{geologic} \\ \hline \mbox{finalist} \\ \hline \mbox{finalist} \\ \mbox{finalist} \\ \mbox{finalist} \\ \mbox{finalist} \\ \mbox{finalist} \\ \mbox{finalist} \\ \hline \mbox{finalist} \\ \hline \mbox{finalist} \\ fina$	Axis 173 basque spain aragon eta .832 Axis 105 italy norway netherlands germany .809 Axis 195 cretaceous geologic epoch extinction .793 Axis 129	$\begin{array}{l} \begin{array}{l} \mbox{Axis 8} \\ \hline \mbox{chinese} \\ \mbox{chinese} \\ \mbox{chinese} \\ \mbox{chinese} \\ \mbox{beijing} \\ \mbox{pinyin} \\ \hline \mbox{E}(S_{17}^2S_{233}^2) = \\ \hline \mbox{Axis 17} \\ \hline \mbox{consonant} \\ \mbox{vowel} \\ \mbox{vowel} \\ \mbox{vowel} \\ \mbox{vowel} \\ \mbox{vowel} \\ \mbox{vowel} \\ \mbox{consonant} \\ \hline \mbox{E}(S_{101}^2S_{103}^2) = \\ \hline \mbox{Axis 101} \\ \mbox{voltage} \\ \mbox{electrical} \\ \mbox{current} \\ \hline \mbox{E}(S_{20}^2S_{40}^2) = 1 \\ \hline \mbox{E}(S_{20}^2S_{40}^2) = 1 \\ \hline \mbox{Axis 20} \\ \hline \mbox{Axis 20} \\ \hline \end{array}$	Axis 106 buddha buddhism mahayana buddhist 1.828 Axis 233 hong kong guidance mine 1.800 Axis 103 wavelength light wavelengths laser 2.788 Axis 46	$\begin{array}{l} \label{eq:constraints} \begin{array}{l} \mbox{Axis 56} \\ \mbox{cpu} \\ \mbox{microprocessor} \\ \mbox{cpus} \\ \mbox{E}(S_{71}^2S_{143}^2) = 1 \\ \mbox{Axis 71} \\ \mbox{games} \\ \mbox{gameplay} \\ \mbox{multiplayer} \\ \mbox{E}(S_{32}^2S_{63}^2) = 1.2 \\ \mbox{Axis 35} \\ \mbox{aircraft} \\ \mbox{flight} \\ \mbox{boeing} \\ \mbox{airlines} \\ \mbox{E}(S_{32}^2S_{124}^2) = 1.2 \\ \mbox{Axis 3} \\ \mbox{Axis 4} \\ \m$	Axis 126 pointer return string pointers 828 Axis 143 card cards dealer betting 798 Axis 88 force army military regiment 786 Axis 124	$\begin{array}{l} \mbox{Axis 85} \\ \hline \mbox{battles} \\ \mbox{battles} \\ \mbox{defeat} \\ \mbox{fought} \\ \hline \mbox{E}(S_{33}^2S_{114}^2) = \\ \mbox{Axis 53} \\ \mbox{element} \\ \mbox{metals} \\ \mbox{elements} \\ \mbox{elements} \\ \mbox{axis 4} \\ \mbox{indian} \\ \mbox{nehru} \\ \mbox{hindu} \\ \hline \mbox{E}(S_{23}^2S_{119}^2) = 1 \\ \mbox{Axis 4} \\ \mbox{indian} \\ \mbox{nehru} \\ \mbox{hindu} \\ \hline \mbox{E}(S_{23}^2S_{119}^2) = 1 \\ \mbox{Axis 26} \\ \hline \mbo$	Axis 153 finns soviets col ir 1.824 Axis 114 morphisms homomorphism hydrogen wavelengths .794 Axis 89 austria belgium luxembourg germany 1.785 Axis 119
$\begin{array}{l} \text{element}\\ \text{metals}\\ \text{elements}\\ \text{uranium}\\ \hline \text{E}(S_{74}^2S_{89}^2)=1\\ \text{Axis 74}\\ \text{africa}\\ \text{africana}\\ \text{africana}\\ \text{africans}\\ \text{namibia}\\ \hline \text{E}(S_{30}^2S_{132}^2)=\\ \hline \text{Axis 30}\\ \text{stations}\\ \text{fm}\\ \text{radio}\\ \text{broadcast}\\ \hline \text{E}(S_{107}^2S_{138}^2)=\\ \hline \text{Axis 107}\\ \hline \text{dog} \end{array}$	rocks volcanic granite geologic 1.854 Axis 89 austria belgium luxembourg germany 1.820 Axis 132 telephone phone mobile cellular = 1.793 Axis 138 horse	$\begin{array}{l} \operatorname{Axis}{39} \\ \operatorname{Axis}{39} \\ \operatorname{pitcher}{39} \\ \operatorname{pitcher}{30} \\ \operatorname{baseman}{30} \\ \operatorname{pitchers}{30} \\ \operatorname{baseman}{30} \\ \operatorname{baseman}{30} \\ \operatorname{cs}{30} \\ $	Axis 128 ball scrimmage goal foul 1.834 Axis 16 blood organs liver kidney = 1.811 Axis 160 evolutionar darwin selection 1.793 Axis 44 plants	$\begin{array}{c} \begin{array}{c} \mbox{Axis 6} \\ \hline \\ \mbox{el} \\ \mbox{spanish} \\ \mbox{nacional} \\ \mbox{jos} \\ \hline \\ \mbox{E}(S_{33}^2S_{105}^2) = 1 \\ \mbox{Axis 83} \\ \hline \\ \mbox{winbledon} \\ \mbox{open} \\ \mbox{finalist} \\ \mbox{quarter} \\ \hline \\ \mbox{quarter} \\ \hline \\ \mbox{rocks} \\ \hline \\ \mbox{rocks} \\ \hline \\ \mbox{rocks} \\ \hline \\ \mbox{solution} \\ \mbox{geologic} \\ \hline \\ \hline \\ \mbox{E}(S_{32}^2S_{129}^2) = 1 \\ \mbox{Axis 32} \\ \hline \\ \mbox{axis 32} \\ \hline \\ \hline \\ \mbox{university} \\ \hline \end{array}$	Axis 173 basque spain aragon eta .832 Axis 105 italy norway netherlands germany .809 Axis 195 cretaceous geologic epoch extinction .793 Axis 129 schools	$\begin{array}{c} \label{eq:constraint} \begin{array}{c} \mbox{Axis 8} \\ \hline \mbox{chinese} \\ \mbox{chinese} \\ \mbox{chinese} \\ \mbox{chinese} \\ \mbox{beijing} \\ \mbox{pinyin} \\ \hline \mbox{E}(S_{17}^2S_{233}^2) = \\ \hline \mbox{Axis 17} \\ \hline \mbox{consonant} \\ \mbox{consonant} \\ \hline \mbox{consonant} \\ \hline \mbox{consonant} \\ \hline \mbox{E}(S_{101}^2S_{103}^2) = \\ \hline \mbox{Axis 101} \\ \mbox{voltage} \\ \mbox{electrical} \\ \mbox{current} \\ \hline \mbox{E}(S_{20}^2S_{46}^2) = 1 \\ \hline \mbox{Axis 20} \\ \hline \mbox{stars} \\ \hline \end{array}$	Axis 106 buddha buddhism mahayana buddhist 1.828 Axis 233 hong kong guidance mine 1.800 Axis 103 Axis 103 wavelength light wavelength laser 2.788 Axis 46 spacecraft	$\begin{array}{l} \label{eq:constraints} \begin{array}{l} \mbox{Axis 56} \\ \mbox{cpu} \\ \mbox{microprocessor} \\ \mbox{cpus} \\ \mbox{E}(S_{71}^2S_{143}^2) = 1 \\ \mbox{Axis 71} \\ \mbox{games} \\ \mbox{gameplay} \\ \mbox{gameplay} \\ \mbox{multiplayer} \\ \mbox{E}(S_{32}^2S_{63}^2) = 1.2 \\ \mbox{Axis 35} \\ \mbox{aircraft} \\ \mbox{flight} \\ \mbox{boeing} \\ \mbox{airlnes} \\ \mbox{E}(S_{32}^2S_{124}^2) = 1.2 \\ \mbox{Axis 3} \\ \mbox{al} \\ \mbox{Axis 3} \\ \mbox{al} \end{array}$	Axis 126 pointer return string pointers 828 Axis 143 card cards dealer betting 798 Axis 88 force army military regiment 786 Axis 124 israeli	$\begin{array}{l} \label{eq:action} \begin{array}{l} \mbox{Axis 85} \\ \hline \mbox{battles} \\ \mbox{battles} \\ \mbox{defeat} \\ \mbox{fought} \\ \hline \mbox{E}(S^2_{33}S^2_{114}) = \\ \mbox{Axis 53} \\ \hline \mbox{element} \\ \mbox{metals} \\ \mbox{elements} \\ \mbox{elements} \\ \mbox{elements} \\ \mbox{E}(S^2_{4}S^2_{89}) = 1 \\ \mbox{Axis 4} \\ \hline \mbox{india} \\ \mbox{indian} \\ \mbox{nehru} \\ \mbox{hindu} \\ \hline \mbox{E}(S^2_{23}S^2_{119}) = \\ \mbox{Axis 26} \\ \mbox{Axis 26} \\ \hline \mbox{cars} \end{array}$	Axis 153 finns soviets col ir 1.824 Axis 114 morphisms homomorphism hydrogen wavelengths .794 Axis 89 austria belgium luxembourg germany 1.785 Axis 119 combustion
element metals elements uranium $E(S_{74}^2S_{89}^2) = 1$ Axis 74 africa african africans africans africans $E(S_{30}^2S_{132}^2) =$ Axis 30 stations fm radio broadcast $E(S_{107}^2S_{138}^2) =$ Axis 107 dog hound dogs	rocks volcanic granite geologic 1.854 Axis 89 austria belgium luxembourg germany 1.820 Axis 132 telephone phone mobile cellular = 1.793 Axis 138 horse horse	$\begin{array}{l} \operatorname{Axis}39\\ \operatorname{Axis}39\\ \operatorname{pitcher}\\ \operatorname{sox}\\ \operatorname{baseman}\\ \operatorname{pitchers}\\ \operatorname{baseman}\\ \operatorname{pitchers}\\ \operatorname{E}(S_{15}^2S_{16}^2) = \\ \operatorname{Axis}15\\ \operatorname{drugs}\\ \operatorname{drug}\\ \operatorname{drug}\\ \operatorname{drug}\\ \operatorname{drug}\\ \operatorname{mna}\\ \operatorname{mrna}\\ \operatorname{E}(S_{15}^2S_{44}^2) = \\ \operatorname{Axis}15\\ \operatorname{drugs}\\ \operatorname{drugs}$	Axis 128 ball scrimmage goal foul 1.834 Axis 16 blood organs liver kidney = 1.811 Axis 160 evolutionar darwin selection 1.793 Axis 44 plants plants plants	$\begin{array}{c} \begin{array}{l} \mbox{Axis 6} & \mbox{Axis 5} \\ \hline \mbox{el} \\ \mbox{spanish} \\ \mbox{nacional} \\ \mbox{jos} \\ \hline \mbox{E}(S_{33}^2S_{105}^2) = 1 \\ \mbox{Axis 83} \\ \hline \mbox{minledon} \\ \mbox{open} \\ \mbox{finalist} \\ \mbox{quarter} \\ \hline \mbox{E}(S_{36}^2S_{125}^2) = 1 \\ \mbox{Axis 86} \\ \hline \mbox{rocks} \\ \mbox{volcanic} \\ \mbox{geologic} \\ \hline \mbox{E}(S_{32}^2S_{129}^2) = 1 \\ \mbox{Axis 32} \\ \hline \mbox{university} \\ \mbox{college} \\ \mbox{techenous} \\ \hline \mbox{techenous} \\ \hline \mbox{techenous} \\ \hline \mbox{minlegenous} \\ \hline \mbox{techenous} \\ \hline \$	Axis 173 basque spain aragon eta .832 Axis 105 italy norway netherlands germany .809 Axis 195 cretaccous geologic epoch extinction .793 Axis 129 schools schools	$\begin{array}{c} \mbox{Axis 8} \\ \hline \mbox{Chinese} \\ \mbox{chinese} \\ \mbox{chinese} \\ \mbox{chinese} \\ \mbox{chinese} \\ \mbox{Chinese} \\ \mbox{Constant} \\ \hline \mbox{E}(S^2_{17}S^2_{233}) = \\ \mbox{Axis 17} \\ \hline \mbox{consonant} \\ \mbox{consonant} \\ \mbox{consonant} \\ \hline \mbox{consonant} \\ \mbox{consonant} \\ \hline \mbox{Consonant} \\ \mbox{consonant} \\ \hline co$	Axis 106 buddha buddhism mahayana buddhist 1.828 Axis 233 hong kong guidance mine 1.800 Axis 103 wavelength light wavelength light wavelength laser 2.788 Axis 46 spacecraft nasa	$\begin{array}{l} \label{eq:constraints} \begin{array}{l} \mbox{Axis 56} \\ \mbox{cpu} \\ \mbox{microprocessor} \\ \mbox{cpus} \\ \mbox{E}(S_{71}^2S_{143}^2) = 1 \\ \mbox{Axis 71} \\ \mbox{games} \\ \mbox{gameplay} \\ \mbox{multiplayer} \\ \mbox{E}(S_{32}^2S_{68}^2) = 1.2 \\ \mbox{Axis 35} \\ \mbox{aircraft} \\ \mbox{flight} \\ \mbox{boeing} \\ \mbox{airlnes} \\ \mbox{E}(S_{32}^2S_{124}^2) = 1.2 \\ \mbox{Axis 3} \\ \mbox{al} \\ \mbox{al} \\ \mbox{multiplayer} \\ \mbox$	Axis 126 pointer return string pointers 828 Axis 143 card cards dealer betting 798 Axis 88 force army military regiment 786 Axis 124 israeli palestinian palestinian	$\begin{array}{l} \label{eq:action} Axis 85\\ \hline battle \\ battles \\ defeat \\ fought \\ \hline E(S_{53}^2S_{114}^2) = \\ Axis 53 \\ element \\ metals \\ elements \\ uranium \\ \hline E(S_4^2S_{59}^2) = 1 \\ Axis 4 \\ india \\ indian \\ nehru \\ hindu \\ \hline E(S_{20}^2S_{119}^2) = \\ Axis 26 \\ \hline cars \\ ford \\ cars \\ ford \\ cars \\ \end{array}$	Axis 153 finns soviets col ir 1.824 Axis 114 morphisms homomorphism hydrogen wavelengths .794 Axis 89 austria belgium luxembourg germany 1.785 Axis 119 combustion diesel twebine
element metals elements uranium $E(S_{74}^2S_{89}^2) = 1$ Axis 74 africa african africans namibia $E(S_{30}^2S_{32}^2) =$ Axis 30 stations fm radio broadcast $E(S_{107}^2S_{138}^2) =$ Axis 107 dog hound dogs breed	rocks volcanic granite geologic L.854 Axis 89 austria belgium luxembourg germany 1.820 Axis 132 telephone phone mobile cellular 1.793 Axis 138 horse horses riding breed	$\begin{array}{l} \operatorname{Axis}39\\ \operatorname{Axis}39\\ \operatorname{pitcher}\\ \operatorname{sox}\\ \operatorname{baseman}\\ \operatorname{pitchers}\\ \operatorname{E}(S_{15}^2S_{16}^2) = \\ \operatorname{Axis}15\\ \operatorname{drugs}\\ \operatorname{drug}\\ \operatorname{drug}\\ \operatorname{drug}\\ \operatorname{drug}\\ \operatorname{drug}\\ \operatorname{drug}\\ \operatorname{drus}\\ \operatorname{mna}\\ \operatorname{mrna}\\ \operatorname{E}(S_{15}^2S_{44}^2) = \\ \operatorname{Axis}15\\ \operatorname{drugs}\\ \operatorname{drug}\\ \operatorname{drug}\\ \operatorname{drug}\\ \operatorname{drug}\\ \operatorname{heroin}\\ \operatorname{lsd}\\ \end{array}$	Axis 128 ball scrimmage goal foul 1.834 Axis 16 blood organs liver kidney = 1.811 Axis 160 evolutionar darwin selection 1.793 Axis 44 plants plants plants flowering	$\begin{array}{c} \begin{array}{l} \mbox{Axis 6} & 6\\ \hline \\ \mbox{el} \\ \mbox{spanish} \\ \mbox{nacional} \\ \mbox{jos} \\ \hline \\ \mbox{E}(S_{33}^2S_{105}^2) = 1\\ \mbox{Axis 83} \\ \hline \\ \mbox{winbledon} \\ \mbox{open} \\ \mbox{finalist} \\ \mbox{quarter} \\ \hline \\ \mbox{el} \\ \hline \\ \mbox{cocks} \\ \mbox{volcanic} \\ \mbox{geologic} \\ \hline \\ \mbox{E}(S_{32}^2S_{129}^2) = 1\\ \mbox{Axis 32} \\ \hline \\ \mbox{university} \\ \mbox{college} \\ \mbox{technology} \\ \mbox{institute} \\ \hline \end{array}$	Axis 173 basque spain aragon eta .832 Axis 105 italy norway netherlands germany .809 Axis 195 cretaceous geologic epoch extinction .793 Axis 129 schools schools secondary education	$\begin{array}{c} \mbox{Axis 8} \\ \hline \mbox{Chinese} \\ \mbox{Chinese} $	Axis 106 buddha buddhism mahayana buddhist 1.828 Axis 233 hong kong guidance mine 1.800 Axis 103 wavelength light wavelength laser 1.888 Axis 46 spacecraft nasa astronauts	$\begin{array}{l} \mbox{Axis 56} \\ \mbox{cpu} \\ \mbox{microprocessor} \\ \mbox{cpus} \\ \mbox{E}(S_{12}^2S_{13}^2) = 1 \\ \mbox{Axis 71} \\ \mbox{games} \\ \$	Axis 126 pointer return string pointers 828 Axis 143 card cards dealer betting 798 Axis 88 force army military regiment 786 Axis 124 israeli palestinians israel	$\begin{array}{l} \mbox{Axis 85} \\ \mbox{battles} \\ \mbox{battles} \\ \mbox{defeat} \\ \mbox{fought} \\ \mbox{E}(S_{23}^2S_{14}^2) = \\ \mbox{Axis 53} \\ \mbox{element} \\ \mbox{metals} \\ \mbox{elements} \\ \mbox{metals} \\ \mbox{elements} \\ \mbox{metals} \\ \mbox{indian} \\ \mbox{metals} \\ \mbox{indian} \\ \mbox{metric} \\ \mbox{metals} \\ \mbox{indian} \\ \mbox{metric} \\ \mbox{metals} \\ \mbox{indian} \\ \mbox{metric} \\ \mbox{metals} \\ \mbox{indian} \\ \mbox{metals} \\ \mbox{metals} \\ \mbox{indian} \\ \mbox{metals} \\$	Axis 153 finns soviets col ir 1.824 Axis 114 morphisms homomorphism hydrogen wavelengths 7.94 Axis 89 austria belgium luxembourg germany 1.785 Axis 119 combustion diesel turbine engine

Table 7: Complementary experimental results to Table 1. The top 60 pairs with the highest $E(S_i^2 S_j^2)$ values are presented. For each component, the top 4 words with the largest component values are listed.

		$E(S_2^2 S_{119}^2) = 1.7$	55	$\mathbf{E}(S^2_{132}S^2_{30}) = 1$.820	$E(S_{132}^2S_{73}^2) = 1.$	693	$E(S_{132}^2S_{62}^2) = 1.6$	332	${\rm E}(S^2_{136}S^2_{56})=1$.967
Axis 2	Axis 10	Axis 2	Axis 119	Axis 132	Axis 30	Axis 132	Axis 73	Axis 132	Axis 62	Axis 136	Axis 56
acid	dna proteins	acid	combustion diesel	telephone	stations	telephone	ip ten	telephone	company	disk floppy	cpu microprocessor
acids	rna	acids	turbine	mobile	radio	mobile	protocols	mobile	companies	disks	processor
oh	mrna	oh	engine	cellular	broadcast	cellular	protocol	cellular	shareholders	drives	cpus
w_k	$S_{k,2}^2 S_{k,10}^2$	w_k	$S_{k,2}^2 S_{k,119}^2$	w_k	$S_{k,132}^2 S_{k,30}^2$	w_k	$S_{k,132}^2 S_{k,73}^2$	w_k	$S_{k,132}^2 S_{k,62}^2$	w_k	$S_{k,136}^2 S_{k,56}^2$
ribose	3755.7	pyrolysis	2794.4	digitalized	4726.8	multipoint	2062.7	esat	3145.5	sata	3427.5
deoxyribose	2963.9	syngas	2056.9	arabsat	4657.2	pstn	1996.9	telecoms	2547.9	udma	2519.7
phosphodiester	2850.2	gasification	1783.5	landlines	4453.9	wimax v.dsl	18/3.8	nynex	2155.9	backplanes	2008.9
methyltransferase	2482.9	dehydrogenation	1623.0	intersputnik	3053.5	svcs	1361.2	haitel	1657.3	megabytes	1890.1
pyrimidine	2399.6	tert	1230.2	telex	2722.4	isdn	1235.8	openreach	1529.2	eisa	1859.5
$E(S_{10}^2S_{16}^2) = 1.947$	7	$E(S_{10}^2 S_{160}^2) = 1.8$	811	$E(S_{140}^2 S_{56}^2) = 1$	1.615	$E(S_{13}^2 S_{56}^2) = 1.7$	32	$E(S_{13}^2S_{168}^2) = 1.9$	991	$E(S_{13}^2S_{73}^2) = 1.$	740
Axis 10	Axis 16	Axis 10	Axis 160	Axis 140	Axis 56	Axis 13	Axis 56	Axis 13	Axis 168	Axis 13	Axis 73
proteins	organs	proteins	evolutionary	duplicate	microprocessor	os	microprocessor	os	copyleft	os	tcp
rna	liver	rna	darwin	info	processor	unix	processor	unix	gpl	unix	protocols
mrna	kidney	mrna	selection	no	cpus	linux	cpus	linux	licenses	linux	protocol
w_k	$S_{k,10}^2 S_{k,16}^2$	w_k	$\mathbf{S}_{k,10}^2 \mathbf{S}_{k,160}^2$	w_k	$S_{k,140}^2 S_{k,56}^2$	w_k	$S_{k,13}^2 S_{k,56}^2$	w_k	$\mathbf{S}_{k,13}^2 \mathbf{S}_{k,168}^2$	w_k	$S_{k,13}^2 S_{k,73}^2$
adenylate	2079.8	utr	2381.5	superpipelined	5652.9	xcode	2609.7	qpl	5678.2	netware	1799.2
effectors	1842.5	reticulum	1942.0	strongarm	3220.2	powerpc	2046.7	lgpl trolltech	4519.9	netbios	1543.2
cvclase	1638.9	homozygous	1599.1	spechaserate	1524.5	glibc	1355.1	gpl	3325.2	elut	1239.0
myosin	1201.8	cleaved	1181.0	insubstantial	1387.8	irix	1177.1	gnu	2826.1	wfw	1179.9
axons	1144.2	tubulin	1152.4	eisa	1027.8	efi	1161.1	bsd	2822.7	dhcpv	1115.5
$E(S_{15}^2S_{118}^2) = 1.95$ Axis 15	59 Axis 118	$E(S_{15}^2S_{44}^2) = 1.79$ Axis 15	93 Axis 44	$E(S_{16}^2S_{248}^2) = 1$ Axis 16	.499 Axis 248	$E(S_{16}^2S_{147}^2) = 1.$ Axis 16	717 Axis 147	$E(S_{16}^2S_{72}^2) = 1.62$ Axis 16	28 Axis 72	$E(S_{16}^2S_{52}^2) = 2.$ Axis 16	158 Axis 52
druge	disorder	druge	nlante	blood	increase	blood	madicina	blood	cavual	blood	infactious
drug	mental	drug	plant	organs	increased	organs	medical	organs	sex	organs	infection
heroin	disorders	heroin	flowers	liver	increasing	liver	doctors	liver	homosexual	liver	disease
lsd	symptoms	lsd	flowering	kidney	increases	kidney	care	kidney	heterosexual	kidney	infections
wk	$S_{k,15}^2 S_{k,118}^2$	<i>w</i> _k	$S_{k,15}^2 S_{k,44}^2$	wk	$S_{k,16}^2 S_{k,248}^2$	<i>w</i> _k	$S_{k,16}^2 S_{k,147}^2$	w_k	$S_{k,16}^2 S_{k,72}^2$	wk	$S_{k,16}^2 S_{k,52}^2$
adhd	3505.8	peyote	3197.5	esophagus	2274.6	aortic	1726.9	erectile	2001.5	abscess	1932.6
anticonvulsants	3047.9	purpurea	2926.6	lobes	1462.4	brainstem	1537.1	dildo	1788.8	multifocal	1440.2
lorazepam	1604.8	deliriants	2397.0	ligamentum	1024.8	laparoscopic	1509.4	deferens	1431.5	esophagitis	1187.4
anticonvulsant	1487.1	diplopterys	2395.1	transversal	1011.2	angioplasty	1447.4	rectal	1352.0	efferent	1160.5
somnolence	1426.1	cabrerana	2237.7	vena	1005.6	cardiology	1433.3	urogenital	1344.7	mitral	1143.5
$E(S_{16}^2 S_{118}^2) = 2.12$ Axis 16	24 Axis 118	$E(S_{30}^2S_{112}^2) = 2.0$ Axis 30)60 Axis 112	$E(S_{30}^2S_{123}^2) = 1$ Axis 30	1.570 Axis 123	$E(S_{36}^2S_{50}^2) = 1.6$ Axis 36	88 Axis 50	$E(S_{36}^2S_{73}^2) = 1.4$ Axis 36	19 Axis 73	$E(S_{168}^2 S_{193}^2) = 1$ Axis 168	1.495 Axis 193
blood	disorder	stations	episode	stations	newspaper	http	site	http	ip	license	rights
organs	mental										0
-	memai	fm	aired	fm	daily	www	website	www	tcp	copyleft	legislation
liver	disorders	fm radio broadcast	aired show	fm radio	daily weekly	www htm	website forum	www htm	tcp protocols	copyleft gpl	legislation act
liver kidney	disorders symptoms	fm radio broadcast	aired show tv	fm radio broadcast	daily weekly newspapers	www htm html	website forum photos	www htm html	tcp protocols protocol	copyleft gpl licenses	legislation act laws
liver kidney wk	disorders symptoms $\mathbf{S}_{k,16}^2 \mathbf{S}_{k,118}^2$	fm radio broadcast w_k	aired show tv $\mathbf{S}_{k,30}^2 \mathbf{S}_{k,112}^2$	fm radio broadcast w _k	daily weekly newspapers $\mathbf{S}_{k,30}^{2}\mathbf{S}_{k,123}^{2}$	www htm html wk	website forum photos $\mathbf{S}_{k,36}^2 \mathbf{S}_{k,50}^2$	www htm html wk	tcp protocols protocol $\mathbf{S}_{k,36}^2 \mathbf{S}_{k,73}^2$	copyleft gpl licenses w _k	legislation act laws $\mathbf{S}_{k,168}^2 \mathbf{S}_{k,193}^2$
liver kidney w_k atrophy beminaresis	$\frac{disorders}{symptoms}$ $\frac{S_{k,16}^2S_{k,118}^2}{2110.2}$ 1877 5	fm radio broadcast w_k rebroadcast fon	aired show tv $\mathbf{S}_{k,30}^2 \mathbf{S}_{k,112}^2$ 1729.4 1635.4	fm radio broadcast w_k canwest	daily weekly newspapers $S_{k,30}^2 S_{k,123}^2$ 1941.7 1343 4	www htm html w_k shtml geocities	website forum photos $S_{k,36}^2 S_{k,50}^2$ 1537.9 1230.3	www htm html wk mtu stateful	tcp protocols protocol $\mathbf{S}_{k,36}^2 \mathbf{S}_{k,73}^2$ 1425.4 1352.4	copyleft gpl licenses w_k copyleft magnature	legislation act laws $S_{k,168}^2 S_{k,193}^2$ 1648.0 1131.0
liver kidney wk atrophy hemiparesis axonal	$\frac{disorders}{symptoms}$ $\frac{S_{k,16}^2S_{k,118}^2}{2110.2}$ 1877.5 1465.9	fm radio broadcast w_k rebroadcast fsn etv	aired show tv $\mathbf{S}_{k,30}^2 \mathbf{S}_{k,112}^2$ 1729.4 1635.4 1600.9	fm radio broadcast w_k canwest ctv wqxr	$\begin{array}{c} \text{daily} \\ \text{weekly} \\ \text{newspapers} \\ \hline \mathbf{S}_{k,30}^2 \mathbf{S}_{k,123}^2 \\ \hline 1941.7 \\ 1343.4 \\ 1276.0 \\ \end{array}$	www htm html w_k shtml geocities jeancocteau	website forum photos $S_{k,36}^2 S_{k,50}^2$ 1537.9 1230.3 871.2	www htm html w_k mtu stateful proxying	tcp protocols protocol $\mathbf{S}_{k,36}^{2}\mathbf{S}_{k,73}^{2}$ 1425.4 1352.4 1324.2	copyleft gpl licenses w_k copyleft magnatune rightsholder	$\begin{array}{c} \text{legislation} \\ \text{act} \\ \text{laws} \\ \hline \mathbf{S}_{k,168}^2 \mathbf{S}_{k,193}^2 \\ \hline 1648.0 \\ 1131.9 \\ 839.7 \end{array}$
liver kidney w_k atrophy hemiparesis axonal dysfunction	$\frac{\text{disorders}}{\text{symptoms}}$ $\frac{\text{S}_{k,16}^2\text{S}_{k,118}^2}{2110.2}$ 1877.5 1465.9 1380.2		aired show tv $\mathbf{S}_{k,30}^2 \mathbf{S}_{k,112}^2$ 1729.4 1635.4 1600.9 1534.6		$\begin{array}{c} \text{daily} \\ \text{weekly} \\ \text{newspapers} \\ \hline \mathbf{S}_{k,30}^2 \mathbf{S}_{k,123}^2 \\ 1941.7 \\ 1343.4 \\ 1276.0 \\ 1144.2 \end{array}$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{array}{c} \text{website} \\ \text{forum} \\ \text{photos} \\ \hline \mathbf{S}^2_{k,36} \mathbf{S}^2_{k,50} \\ 1537.9 \\ 1230.3 \\ 871.2 \\ 758.0 \\ \end{array}$	www htm html w_k mtu stateful proxying mpls	$\frac{\text{tcp}}{\text{protocols}} \\ \frac{\mathbf{S}_{k,36}^{2} \mathbf{S}_{k,73}^{2}}{1425.4} \\ 1352.4 \\ 1324.2 \\ 1264.5 \\ \end{array}$	$\frac{copyleft}{gpl}$ licenses $\frac{w_k}{copyleft}$ magnatune rightsholder redistribute	$\begin{array}{c} \text{legislation} \\ \text{act} \\ \text{laws} \\ \hline \mathbf{S}_{k,168}^2 \mathbf{S}_{k,193}^2 \\ 1648.0 \\ 1131.9 \\ 839.7 \\ 809.7 \end{array}$
liver kidney wk atrophy hemiparesis axonal dysfunction neuropathy	$\frac{\text{disorders}}{\text{symptoms}}$ $\frac{\text{S}_{k,16}^2 \text{S}_{k,118}^2}{2110.2}$ 1877.5 1465.9 1380.2 1300.1	fm radio broadcast w_k rebroadcast fsn etv upn wxyz	aired show tv $\mathbf{S}_{k,30}^2 \mathbf{S}_{k,112}^2$ 1729.4 1635.4 1635.4 1600.9 1534.6 1441.3	$\begin{array}{c} {\rm fm} \\ {\rm radio} \\ {\rm broadcast} \\ \hline \\ \hline \\ \hline \\ \hline \\ {\rm canwest} \\ {\rm ctv} \\ {\rm wqxr} \\ {\rm superstation} \\ {\rm wanbao} \\ \end{array}$	$\begin{array}{c} \text{daily} \\ \text{weekly} \\ \text{newspapers} \\ \hline \mathbf{S}^2_{k,30} \mathbf{S}^2_{k,123} \\ 1941.7 \\ 1343.4 \\ 1276.0 \\ 1144.2 \\ 1116.1 \\ 09000 \end{array}$	www htm html w_k shtml geocities jeancocteau lfc uchicago	website forum $B_{k,30}^2 S_{k,50}^2$ 1537.9 1230.3 871.2 758.0 644.7	www htm html wk stateful proxying mpls vpns	tcp protocols protocol $\mathbf{S}_{k,36}^{2}\mathbf{S}_{k,73}^{2}$ 1425.4 1352.4 1324.2 1264.5 798.6	copyleft gpl licenses w_k copyleft magnatune redistribute copyrights	legislation act laws $S_{k,168}^2 S_{k,193}^2$ 1648.0 1131.9 839.7 809.7 676.5 (72.2
liver kidney wk atrophy hemiparesis axonal dysfunction neuropathy myopathy	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	fm radio broadcast w_k rebroadcast fsn etv upn wxyz whdh	$\begin{array}{c} \text{aired} \\ \text{show} \\ \text{tv} \\ \hline \mathbf{S}^2_{k,30} \mathbf{S}^2_{k,112} \\ 1729.4 \\ 1635.4 \\ 1600.9 \\ 1534.6 \\ 1441.3 \\ 1392.0 \\ \hline \end{array}$	fm radio broadcast w_k canwest ctv wqxr superstation wanbao aor	$\begin{array}{c} \text{daily} \\ \text{weekly} \\ \text{newspapers} \\ \hline \mathbf{S}^2_{k,30} \mathbf{S}^2_{k,123} \\ 1941.7 \\ 1343.4 \\ 1276.0 \\ 1144.2 \\ 1116.1 \\ 998.0 \\ \end{array}$	www htm html wk shtml geocities jeancocteau lfc uchicago artchive	website forum photos \$\$^2_{k,36}\$\$^2_{k,50}\$ 1537.9 1230.3 871.2 758.0 644.7 593.3	www htm html wk stateful proxying mpls vpns kleirrock	$\begin{array}{c} \text{tcp} \\ \text{protocols} \\ \text{protocol} \\ \hline \mathbf{S}_{k,36}^2 \mathbf{S}_{k,73}^2 \\ 1425.4 \\ 1352.4 \\ 1324.2 \\ 1264.5 \\ 798.6 \\ 796.1 \\ \end{array}$	copyleft gpl licenses w_k copyleft magnatune redistribute copyrights circumvention	$\begin{array}{c} \text{legislation} \\ \text{act} \\ \text{laws} \\ \hline \mathbf{S}_{k,168}^2 \mathbf{S}_{k,193}^2 \\ 1648.0 \\ 1131.9 \\ 839.7 \\ 809.7 \\ 676.5 \\ 653.3 \\ \hline \end{array}$
$\label{eq:constraint} \begin{split} & \underset{k \neq 0}{\text{liver}} \\ & \underset{k \neq 0}{\text{kidney}} \\ & \underset{k \neq 0}{\text{atrophy}} $	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c} \mbox{fm} & \\ \mbox{radio} & \\ \mbox{broadcast} & \\ \hline \hline w_k & \\ \hline \mbox{rebroadcast} & \\ \mbox{fsn} & \\ \mbox{etv} & \\ \mbox{upn} & \\ \mbox{wyz} & \\ \mbox{whdh} & \\ \hline \mbox{E}(S_{14}^2S_{121}^2) = 2.6 \\ \mbox{Axis } 44 & \\ \end{array}$	$\begin{array}{c} \text{aired} \\ \text{show} \\ \text{tv} \\ \hline \mathbf{S}_{k,30}^2 \mathbf{S}_{k,112}^2 \\ 1729.4 \\ 1635.4 \\ 1600.9 \\ 1534.6 \\ 1441.3 \\ 1392.0 \\ \hline 1996 \\ \text{Axis 121} \end{array}$	$\begin{array}{l} \mbox{fm} \\ \mbox{radio} \\ \mbox{bound} \\ \mbox{walk} \\ \mbox{ctv} \\ \mbox{wqxr} \\ \mbox{superstation} \\ \mbox{wanbao} \\ \mbox{aor} \\ \mbox{E}(S^2_{15}S^2_{103}) = 1 \\ \mbox{Axis 45} \end{array}$	daily weekly newspapers S ² _{k,30} S ² _{k,123} 1941.7 1343.4 1276.0 1144.2 1116.1 998.0	$\label{eq:www} \begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{array}{c} {}_{\scriptstyle \mbox{website}} \\ {}_{\scriptstyle \mbox{form}} \\ {}_{\scriptstyle \mbox{photos}} \\ \hline \\ S^2_{k,30} S^2_{k,50} \\ 1537.9 \\ 1230.3 \\ 871.2 \\ 758.0 \\ 644.7 \\ 593.3 \\ \hline \\ 616 \\ {}_{\scriptstyle \mbox{Axis } 193} \\ \hline \end{array}$	$\label{eq:www} \begin{split} & \mbox{htm} \\ & \mbox{htm} \\ & \mbox{htm} \\ \hline \\ \hline \\ \hline \\ w_k \\ \hline \\ mtu \\ stateful \\ proxying \\ mpls \\ vpns \\ kleinrock \\ \hline \\ E(S^2_{66}S^2_{101}) = 1.6 \\ Axis 56 \end{split}$	$\begin{array}{c} tcp \\ protocol \\ \hline \\ \mathbf{S}^{2}_{k,36}\mathbf{S}^{2}_{k,73} \\ 1425.4 \\ 1352.4 \\ 1352.4 \\ 1324.2 \\ 1264.5 \\ 798.6 \\ 798.6 \\ 796.1 \\ \hline \\ 393 \\ Axis 101 \end{array}$	$\label{eq:copyleft} \begin{array}{c} \mbox{copyleft} \\ \mbox{gpl} \\ \mbox{icenses} \\ \mbox{copyleft} \\ \mbox{redistribute} \\ \mbox{copyinghts} \\ \mbox{circumvention} \\ \mbox{E}(S^2_{56}S^2_{71}) = 1. \\ \mbox{Axis 36} \end{array}$	$\begin{array}{c} \text{legislation} \\ \text{act} \\ \text{laws} \\ \hline \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8$
$\label{eq:weight} \begin{split} & \underset{k \neq 0}{\text{liver}} \\ & \underset{k \neq 0}{\text{wk}} \\ & \underset{k \neq 0}{\text{atrophy}} \\ & \underset{k \neq 0}{\text{hemiparesis}} \\ & \underset{k \neq 0}{\text{atrophy}} \\ & \underset{k \neq 0}{\text{hemiparesis}} \\ & \underset{k \neq 0}{\text{dysfunction}} \\ & \underset{k \neq 0}{\text{hemiparesis}} \\ & \underset{k \neq 0}{hemi$	$\begin{array}{c} \frac{1}{10000000000000000000000000000000000$	$\label{eq:constraints} \begin{array}{c} \mbox{fm} & \\ \mbox{radio} & \\ \mbox{broadcast} & \\ \mbox{wbroadcast} & \\ \mbox{rebroadcast} & \\ \mbox{rebroadcast} & \\ \mbox{rebroadcast} & \\ \mbox{rebroadcast} & \\ \mbox{whyn} & \\ \mbox{whyn} & \\ \mbox{rebroadcast} & \\ \$	$\begin{array}{c} \text{aired} \\ \text{show} \\ \text{tv} \\ \hline \mathbf{S}^2_{k,30} \mathbf{S}^2_{k,112} \\ 1729.4 \\ 1635.4 \\ 1600.9 \\ 1534.6 \\ 1441.3 \\ 1392.0 \\ \hline \end{array} \\ \begin{array}{c} \text{yp} \\ \text{Axis 121} \\ \hline \\ \text{families} \\ \end{array}$	$\begin{array}{c} {\rm fm} \\ {\rm radio} \\ {\rm broadcast} \\ \hline \\ w_k \\ {\rm canwest} \\ {\rm ctv} \\ {\rm canwest} \\ {\rm ctv} \\ {\rm wanbao} \\ {\rm aor} \\ \hline \\ {\rm E}(S^2_{45}S^2_{103}) = 1 \\ {\rm E}(S^2_{45}S^2_{103}) = 1 \\ {\rm quantum} \end{array}$	daily newspapers S ² _{k,30} S ² _{k,223} 1941.7 1343.4 1276.0 1144.2 1116.1 998.0 	$\label{eq:www} \\ \begin{array}{c} \mbox{htm} \\ \mbox{htm} \\ \mbox{wk} \\ \hline \\ \mbox{shtml} \\ \mbox{geocities} \\ ge$	$\begin{array}{c} \text{website} \\ \text{forum} \\ \text{photos} \\ \hline \mathbf{S}_{k,30}^2 \mathbf{S}_{k,50}^2 \\ 1230,3 \\ 871,2 \\ 758,0 \\ 644,7 \\ 593,3 \\ \hline 616 \\ \hline Axis 193 \\ \hline rights \\ \end{array}$	$\label{eq:constraints} \begin{array}{c} \text{www} \\ \text{htm} \\ \text{htm} \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \hline \\$	$\begin{array}{c} tcp \\ protocol \\ \hline \\ \mathbf{S}_{k,30}^2\mathbf{S}_{k,73}^2 \\ \hline \\ 1425.4 \\ 1352.4 \\ 1352.4 \\ 1324.2 \\ 1264.5 \\ 798.6 \\ \hline \\ 798.6 \\ \hline \\ 796.1 \\ \hline \\ \hline \\ \hline \\ 003 \\ \hline \\ \mathbf{Axis 101} \\ \hline \\ \hline \\ \mathbf{voltage} \\ \end{array}$	$\begin{array}{c} \mbox{copyleft} \\ \mbox{gpl} \\ \mbox{licenses} \\ \hline \\ \hline \\ \mbox{w}_k \\ \hline \\ \mbox{copyleft} \\ \mbox{copyleft} \\ \mbox{copyrights} \\ \mbox{circumvention} \\ \mbox{E}(S_{56}^2S_{71}^2) = 1.: \\ \mbox{Axis 56} \\ \hline \\ \mbox{cpu} \end{array}$	legislation act laws S ² _{k,108} S ² _{k,103} 1648.0 1131.9 839.7 809.7 676.5 653.3 5992 Axis 71 game
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{array}{c} \begin{array}{c} \text{mean}\\ \text{disorders}\\ \text{symptoms}\\ \hline \mathbf{S}^2_{k,16} \mathbf{S}^2_{k,118}\\ 2110.2\\ 1877.5\\ 1465.9\\ 1380.2\\ 1300.1\\ 1288.3\\ \end{array} \\ \begin{array}{c} \text{mean}\\ \text$	$\label{eq:starsess} \begin{array}{c} \mathrm{fm} & \\ \mathrm{radio} \\ \mathrm{broadcast} \\ \mathrm{rebroadcast} \\ \mathrm{fsn} \\ \mathrm{etv} \\ \mathrm{upn} \\ \mathrm{wxyz} \\ \mathrm{whdh} \\ \mathrm{E}(S_{44}^2S_{121}^2) = 2.0 \\ \mathrm{Axis} \\ \mathrm{44} \\ \\ \mathrm{plants} \\ \mathrm{plant} \end{array}$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{array}{c} {\rm fm} \\ {\rm radio} \\ {\rm broadcast} \\ \hline \\ w_k \\ {\rm canwest} \\ {\rm ctv} \\ {\rm ctv} \\ {\rm wqxr} \\ {\rm superstation} \\ {\rm wanbao} \\ {\rm aor} \\ \hline \\ {\rm E}(S_{45}^2S_{103}^2) = 1 \\ \hline \\ {\rm Axis 45} \\ \hline \\ {\rm quantum} \\ {\rm particles} \end{array}$	$\begin{array}{c} \text{daily} \\ \text{weekly} \\ \text{newspapers} \\ \hline \mathbf{S}_{k,30}^2 \mathbf{S}_{k,123}^2 \\ 1941.7 \\ 1343.4 \\ 1276.0 \\ 1144.2 \\ 1116.1 \\ 998.0 \\ \hline \textbf{c}_{k1} \mathbf{S}_{k1} \\ \textbf{c}_{k1} \mathbf{S}_{k1} \\ \textbf{c}_{k1} \\ \textbf{c}_{k1$	$\begin{array}{c} \text{www} \\ \text{htm} \\ \text{htm} \\ \\ \text{shml} \\ \text{geocities} \\ \text{geocities} \\ \text{geocities} \\ \text{geocities} \\ \text{idead} \\ \text{artchive} \\ \text{E}(S^2_{40}S^2_{103}) = 1. \\ \text{Axis } 49 \\ \text{court} \\ \text{judge} \end{array}$	$\begin{array}{c} \text{website} \\ \text{forum} \\ \text{photos} \\ \hline \mathbf{S}_{k,30}^2 \mathbf{S}_{k,50}^2 \\ 1230.3 \\ 871.2 \\ 758.0 \\ 644.7 \\ 593.3 \\ \hline 616 \\ Axis 193 \\ \hline rights \\ legislation \\ \hline \end{array}$	$\label{eq:stars} \begin{array}{c} \text{www} \\ \text{htm} \\ \text{htm} \\ \text{htm} \\ \text{stars} \\ \text{wk} \\ \text{stars} $		$\begin{array}{c} \text{copyleft} \\ \text{gpl} \\ \text{licenses} \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ $	legislation act laws
liver kidney w_k atrophy hemiparesis axonal dysfunction neuropathy myopathy $E(S_{160}^2S_{12}^2) = 1.70$ Axis 169 female male age infort	$\frac{\text{disorders}}{\text{symptoms}} \\ \frac{\text{symptoms}}{\text{S}_{k,16}^2 \text{S}_{k,118}^2} \\ 2110.2 \\ 1877.5 \\ 1465.9 \\ 1380.2 \\ 1380$	fm radio broadcast w_k rebroadcast fsn etv upn wxyz whdh $E(S_{44}^2S_{121}^2) = 2.0$ Axis 44 plant plant flowers flowers	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	fm radio broadcast w_k canwest ctv wqxr superstation wanbao aor $E(S_{45}^2S_{103}^2) = 1$ Axis 45 quantum particles patricles	daily weekly newspapers 1941.7 1343.4 1276.0 1144.2 1116.1 998.0 1.765 <u>Axis 103</u> wavelength light wavelength baset	www htm html w_k shtml geocities jeancocteau Ifc uchicago artchive $E(S_{49}^2S_{133}^2) = 1.$ Axis 49 court judge courts trial	website forum photos \$\$^2_{k,30}\$\$^2_{k,50}\$ 1537.9 1230.3 871.2 758.0 644.7 593.3 616 <u>Axis 193</u> rights legislation act have	www htm html w_k mtu stateful proxying mpls kleinrock kleinrock kleinrock $E(S_{56}^2S_{101}^2) = 1.6$ Axis 56 cpu microprocessor processor	$\begin{array}{c} tcp \\ protocols \\ protocol \\ \hline S_{k,36}^2 S_{k,73}^2 \\ 1425.4 \\ 1352.4 \\ 1352.4 \\ 1324.2 \\ 1264.5 \\ 798.6 \\ 796.1 \\ \hline y01age \\ electrical \\ circuits \\ current \\ \end{array}$	copyleft gpl licenses w_k copyleft magnatune rightsholder redistribute copyrights circumvention $E(S_{56}^2S_{11}^2) = 1.4$ Axis 56 cpu microprocessor processor	$\begin{array}{c} \text{legislation} \\ \text{act} \\ \text{laws} \\ \hline \\ \mathbf{S}_{k,108}^2 \mathbf{S}_{k,103}^2 \\ 1648.0 \\ 1131.9 \\ 839.7 \\ 809.7 \\ 676.5 \\ 653.3 \\ \hline \\ 592 \\ \hline \\ \text{Axis } 71 \\ \hline \\ \text{games} \\ \\ \text{gameplay} \\ \\ gametay antipication of the set of the $
liver kidney w_k atrophy hemiparesis axonal dysfunction neuropathy myopathy $E(S_{160}^2S_{72}^2) = 1.70$ Axis 169 female male age infant w_k	$\begin{array}{c} \text{isorders} \\ \text{disorders} \\ \text{symptoms} \\ \hline \mathbf{S}_{k,16}^2 \mathbf{S}_{k,118}^2 \\ 2110.2 \\ 1877.5 \\ 1465.9 \\ 1380.2 \\ 1300.1 \\ 1288.3 \\ 01 \\ \hline \text{Axis 72} \\ \text{sexual} \\ \text{sex} \\ \text{homosexual} \\ \text{heterosexual} \\ \text{heterosexual} \\ \hline \mathbf{S}_{1}^2 = \mathbf{S}_{1}^2 \mathbf{S}_{1}^2 \\ \end{array}$	fm radio broadcast w_k rebroadcast fsn etv upn wxyz whdh $E(S_{44}^2S_{121}^2) = 2.0$ Axis 44 plant plant flowers flowering w_k	aired show tv $S_{k,30}^{2}S_{k,112}^{2}$ 1729.4 1635.4 1600.9 1534.6 1441.3 1392.0 906 Axis 121 families family older household $S_{k,32}^{2}$	fm radio broadcast w_k canwest ctv wqxr superstation wanbao aor $E(S_{45}^2S_{103}^2) = 1$ Axis 45 quantum particles physics w_k	daily weekly newspapers \$2,30\$2,123 1941.7 1343.4 1276.0 1144.2 1116.1 998.0 1.765 Axis 103 wavelength light wavelength light \$2"-\$2".	www htm html w_k shtml geocities jeancocteau Ifc uchicago artchive $E(S_{49}^2S_{133}^2) = 1.$ Axis 49 court judge courts trial w_k	$\begin{tabular}{ c c c c c } \hline website & & & & & & & & & & & & & & & & & & &$	www htm html w_k mtu stateful proxying mpls vpns kleinrock kleinrock $E(S_{56}^2S_{101}^2) = 1.6$ Axis 56 cpu microprocessor processor processor w_k	$\begin{array}{c} {}^{\rm tcp} \\ {}^{\rm protocols} \\ {}^{\rm protocols} \\ {}^{\rm protocol} \\ {}^{\rm s}_{k,36} {}^{\rm s}_{k,73} \\ {}^{\rm s}_{1425,4} \\ {}^{\rm s}_{1324,2} \\ {}^{\rm s}_{1264,5} \\ {}^{\rm s}_{796,1} \\ {}^{\rm s}_{203} \\ {}^{\rm Axis\ 101} \\ \\ {}^{\rm voltage} \\ {}^{\rm electrical} \\ {}^{\rm circuits} \\ {}^{\rm current} \\ \\ {}^{\rm S}_{k}^{\rm cs} {}^{\rm s}_{k}^{\rm cs} \\ {}^{\rm s}_{k}^{\rm cs} {}^{\rm s}_{k}^{\rm cs} \\ \end{array}$	copyleft gpl licenses w_k copyleft magnatune rightsholder redistribute copyrights circumvention $E(S_{56}^2S_{11}^2) = 1.4$ Axis 56 cpu microprocessor processor cpus w_k	$\begin{array}{c} \mbox{legislation} \\ \mbox{act} \\ \mbox{last} \\ \mbox{legislation} \\ \mbox{S}^{2}_{k,108} S^{2}_{k,108} \\ \mbox{I648,0} \\ \mbox{I131,9} \\ \mbox{839,7} \\ \mbox{839,7} \\ \mbox{839,7} \\ \mbox{653,3} \\ \mbox{653,3} \\ \mbox{592} \\ \mbox{Axis 71} \\ \mbox{games} \\ games$
liver kidney w_k atrophy hemiparesis axonal dysfunction neuropathy myopathy $E(S_{160}^2S_{72}^2) = 1.70$ Axis 169 female male age infant w_k methylice methylice male male methylice m	$\frac{\mathbf{S}_{k,10}^{2}}{\mathbf{S}_{k,10}^{2}} = \frac{\mathbf{S}_{k,10}^{2}}{\mathbf{S}_{k,10}^{2}} = \frac{\mathbf{S}_{k,10}^{2}}{\mathbf{S}_{k,10}$	fm radio broadcast radio w_k rebroadcast fsn etv upn wxyz whdh $E(S_{44}^2S_{121}^2) = 2.0$ Axis 44 plants plant flowers flowering w_k radial radio for the second se	aired show tv V $S_{k,30}^2S_{k,112}^2$ 1729.4 1635.4 1635.4 1635.4 1635.4 1441.3 1392.0 996 Axis 121 families family older household $S_{k,44}^2S_{k,121}^2$	$\begin{array}{c} \mbox{fm} \\ \mbox{radio} \\ \mbox{radio} \\ \mbox{wk} \\ \mbox{canwest} \\ \mbox{canwest} \\ \mbox{canwest} \\ \mbox{canwest} \\ \mbox{superstation} \\ \mbox{wapra} \\ \mbox{aor} \\ \mbox{radio} \\ r$	daily weekly newspapers 2 ⁸ , ₃₀ 8 ² , ₁₂₃ 1941.7 1343.4 1276.0 1144.2 1116.1 998.0 1.765 <u>Axis 103</u> wavelength light wavelength light sage 2009.7	www htm html w_k shtml geocities jeancoteau Ifc uchicago artchive $E(S_{49}^2S_{133}^2) = 1.$ Axis 49 court judge courts trial w_k behave	website forum photos \$\$^2_{k,30}\$\$^2_{k,50}\$\$ 1537.9 1230.3 871.2 758.0 644.7 593.3 616 Axis 193 rights legislation act laws \$\$^2_{k,49}\$\$^2_{k,193}\$\$ 0.64.7	www htm html w_k mtu stateful proxying mpls vpns kleinrock E $(S_{56}^2S_{101}^2) = 1.4$ Axis 56 cpu microprocessor processor cpus w_k k_k	tcp protocols protocol $S_{k,36}^2 S_{k,73}^2$ 1425.4 1352.5 1555.5 15	$\begin{array}{c} \text{copyleft} \\ \text{gpl} \\ \text{licenses} \\ \hline \\ $	$\begin{array}{c} \text{legislation} \\ \text{act} \\ \text{laws} \\ \hline \\ 8_{k,108}^2 S_{k,103}^2 \\ 1648.0 \\ 1131.9 \\ 839.7 \\ 676.5 \\ 653.3 \\ \hline \\ 653.3 \\ \hline \\ 653.3 \\ \hline \\ 8_{2}me \\ games \\ games$
$\label{eq:starting} \begin{split} & \underset{k \neq k}{\text{liver}} \\ & \underset{k \neq k}{\text{wk}} \\ & \underset{k \neq k \neq k}{\text{atrophy}} \\ & k \neq k \neq$	$\frac{\mathbf{S}_{k,10}^{2}}{\mathbf{S}_{k,10}^{2}} \\ \frac{\mathbf{S}_{k,10}^{2} \mathbf{S}_{k,118}^{2}}{\mathbf{S}_{k,10}^{2} \mathbf{S}_{k,118}^{2}} \\ \frac{\mathbf{S}_{k,10}^{2} \mathbf{S}_{k,10}^{2}}{\mathbf{S}_{k,10}^{2} \mathbf{S}_{k,10}^{2}} \\ \frac{\mathbf{S}_{k,10}^{2} \mathbf{S}_{k,10}^{2}}{\mathbf{S}_{k,10}^{2} \mathbf{S}_{k,10}^{2}} \\ \frac{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,10}^{2}}{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,10}^{2}} \\ \frac{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,10}^{2}}{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,10}^{2}} \\ \frac{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,10}^{2}}{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,10}^{2}} \\ \frac{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,10}^{2}}{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,10}^{2}} \\ \frac{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2}}{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2}} \\ \frac{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2}}{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2}} \\ \frac{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2}}{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2}} \\ \frac{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2}}{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2}} \\ \frac{\mathbf{S}_{k,100}^{2} \mathbf{S}_{k,100}^{2} \mathbf$	$\begin{array}{c} \mbox{fm} & \\ \mbox{radio} & \\ \mbox{radio} & \\ \mbox{value} & \\ \m$	$\begin{array}{c} {\rm aired} \\ {\rm show} \\ {\rm tv} \\ {\rm V} \\ 1729.4 \\ 1635.4 \\ 1635.4 \\ 1635.4 \\ 1636.4 \\ 1441.3 \\ 1392.0 \\ 196 \\ \hline {\rm Axis121} \\ {\rm families} \\ {\rm family} \\ {\rm older} \\ {\rm household} \\ \hline {\rm S}^2_{k,44} {\rm S}^2_{k,121} \\ 4158.0 \\ 4064.1 \\ \end{array}$	$\begin{array}{c c} \mbox{fm} & \mbox{radio} \\ \mbox{radio} & \mbox{radio} \\ \ \hline \mbox{wk} & \ \hline \mbox{canwest} & \ \ \mbox{canwest} & \ \hline \mbox{canwest} & \ \ \ \mbox{canwest} & \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	$\begin{array}{c} \text{daily} \\ \text{weekly} \\ \text{newspapers} \\ \hline \\ \hline \\ 8^2_{k,30} 8^2_{k,123} \\ 1941.7 \\ 1343.4 \\ 1276.0 \\ 1144.2 \\ 1116.1 \\ 998.0 \\ \hline \\ \hline \\ 165 \\ \hline \\ \\ \text{Axis 103} \\ \hline \\ \text{wavelength} \\ \\ \text{light} \\ \\ \text{wavelength} \\ \\ \\ \text{laser} \\ \hline \\ \hline \\ 8^2_{k,45} 8^2_{k,103} \\ \hline \\ 3078.7 \\ 2079.4 \\ \end{array}$	www htm html html w_k shtml geocities jeancocteau lfc uchicago artchive $E(S_{4g}^2S_{123}^2) = 1.$ Axis 49 court judge court trial w_k habeas declaratory	$\begin{array}{c} \text{website} \\ \text{forum} \\ \text{photos} \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	www htm html html w_k		$\begin{array}{c} \text{copyleft} \\ \text{gpl} \\ \text{licenses} \\ \hline \\ $	$\begin{array}{c} \text{legislation} \\ \text{act} \\ \text{laws} \\ \hline \\ & \mathbf{S}_{k,108}^2 \mathbf{S}_{k,103}^2 \\ & 1648.0 \\ 1131.9 \\ & 839.7 \\ & 809.7 \\ & 653.3 \\ \hline \\ & 653.3 \\ \hline \\ & 592 \\ \hline \\ & \text{Axis } 71 \\ \hline \\ & \text{games} \\ & ga$
$\label{eq:starting} \begin{split} & \underset{k \neq 0}{\underset{k \atopk \\{k \neq 0}{k \atopk \atopk \atopk \atopk \atopk \\k \atopk \atopk \\k \atopk \atopk \\k \atopk \atopk \\k \atopk \atopk$	$\begin{array}{c} \text{minula} \\ \text{disorders} \\ \text{symptoms} \\ \hline \mathbf{S}^2_{k,10} \mathbf{S}^2_{k,118} \\ 2110.2 \\ 180.2 \\ 1877.5 \\ 1465.9 \\ 1380.2 \\ 1300.1 \\ 1288.3 \\ 101 \\ \hline \textbf{Axis 72} \\ \hline \textbf{sexual} \\ \text{sex} \\ \text{homosexual} \\ \text{heterosexual} \\ \textbf{sex} \\ \text{homosexual} \\ \textbf{sex} \\ 1240.5 \\ 1191.4 \\ 981.2 \\ \end{array}$	$\begin{array}{c} \mbox{fm} & \\ \mbox{radio} & \\ \mbox{radio} & \\ \mbox{washing} & \\ \mbox{weights} & \\ \mbox{weights} & \\ \mbox{weights} & \\ \mbox{weights} & \\ \mbox{radio} & \\ rad$	$\begin{array}{c} {\rm aired} \\ {\rm show} \\ {\rm tv} \\ {\rm tv} \\ \hline {\rm S}^2_{k,30} {\rm S}^2_{k,112} \\ {\rm I}729.4 \\ {\rm I}635.4 \\ {\rm I}600.9 \\ {\rm I}534.6 \\ {\rm I}441.3 \\ {\rm I}392.0 \\ \hline {\rm g}6 \\ {\rm Axis\ I}21 \\ {\rm families} \\ {\rm family} \\ {\rm older} \\ {\rm household} \\ {\rm S}^2_{k,44} {\rm S}^2_{k,121} \\ {\rm I}365.0 \\ {\rm I}652.5 \\ \hline {\rm I}652.5 \\ \hline {\rm I}652.5 \\ \hline {\rm I}652.5 \\ \hline {\rm I}650.0 \\ {\rm I}650.0 \\ {\rm I}652.5 \\ \hline {\rm I}650.0 \\ {\rm I}60.0 \\ {I}60.0 \\ {\rm I}60.$	$\begin{array}{c} {\rm fm} \\ {\rm radio} \\ {\rm broadcast} \\ \hline \\ {\rm wex} \\ {\rm canwest} \\ {\rm ctv} \\ {\rm wayr} \\ {\rm superstation} \\ {\rm wayras} \\ {\rm aor} \\ \hline \\ {\rm E}(S_{45}^2S_{103}^2) = 1 \\ {\rm Axis} 45 \\ \hline \\ {\rm quantum} \\ {\rm particles} \\ {\rm particle} \\ {\rm physics} \\ \hline \\ \hline \\ \hline \\ \hline \\ {\rm wesons} \\ {\rm gluons} \\ {\rm photon} \\ \end{array}$	$\begin{array}{c} \text{daily} \\ \text{weekly} \\ \text{newspapers} \\ \hline $\mathbf{S}_{k,30}^2 \mathbf{S}_{k,123}^2$ \\ \text{newspapers} \\ $\mathbf{S}_{k,30}^2 \mathbf{S}_{k,123}^2$ \\ \text{newspapers} \\ 1343.4 \\ 1276.0 \\ 1144.2 \\ 1116.1 \\ 998.0 \\ \hline $\mathbf{S}_{k,30}^2$ \\ \text{newspapers} \\ \hline $\mathbf{S}_{k,45}^2 \mathbf{S}_{k,103}^2$ \\ \hline $\mathbf{S}_{k,45}^2 \mathbf{S}_{k,10}^2$ \\ \hline $\mathbf{S}_{k,45}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2$ \\ \hline $\mathbf{S}_{k,45}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2$ \\ \hline $\mathbf{S}_{k,45}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2$ \\ \hline $\mathbf{S}_{k,45}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2$ \\ \hline $\mathbf{S}_{k,45}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2$ \\ \hline $\mathbf{S}_{k,45}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2$ \\ \hline $\mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,$	$\label{eq:constraints} \begin{array}{c} \text{www} \\ \text{htm} \\ \text{htm} \\ \hline \\ \text{wk} \\ \hline \\ \text{shtml} \\ \text{geocities} \\ \text{jeancoteau} \\ \text{Ifc} \\ \text{uchicago} \\ \text{artchive} \\ \hline \\ \text{E} (S_{12}^2 S_{193}^2) = 1. \\ \text{Axis 49} \\ \hline \\ \hline \\ \text{court} \\ \text{judge} \\ \hline \\ \hline \\ \text{court} \\ \hline \\ \text{judge} \\ \hline \\ \hline \\ \text{court} \\ \hline \\ \text{trial} \\ \hline \\ \hline \\ \text{wk} \\ \hline \\ \text{habeas} \\ \text{declaratory} \\ \hline \\ \hline \\ \\ \text{conservatorship} \end{array}$	$\begin{array}{c} \text{website} \\ \text{forum} \\ \text{photos} \\ \hline \\ \hline \\ \mathbf{S}^2_{k,30} \mathbf{S}^2_{k,30} \\ 1537.9 \\ 1230.3 \\ 871.2 \\ 758.0 \\ 644.7 \\ 593.3 \\ 616 \\ Axis 193 \\ \hline \\ rights \\ legislation \\ act \\ laws \\ \hline \\ \hline \\ \mathbf{S}^2_{k,49} \mathbf{S}^2_{k,103} \\ 954.7 \\ 823.5 \\ 783.1 \\ \end{array}$	$\begin{array}{c} \text{www} \\ \text{htm} \\ \text{htm} \\ \hline \\ $	$\begin{array}{c} {\rm tcp} \\ {\rm protocols} \\ {\rm protocol} \\ \hline \\ {\rm S}^{2}_{k,36} {\rm S}^{2}_{k,73} \\ {\rm 1425.4} \\ {\rm 1352.4} \\ {\rm 1352.4} \\ {\rm 1322.4} \\ {\rm 1264.5} \\ {\rm 798.6} \\ {\rm 796.1} \\ \hline \\ {\rm 798.6} \\ {\rm 796.1} \\ \hline \\ {\rm voltage} \\ {\rm electrical} \\ {\rm circuits} \\ {\rm current} \\ \hline \\ {\rm S}^{2}_{k,56} {\rm S}^{2}_{k,101} \\ \hline \\ {\rm S}^{2}_{808.8} \\ {\rm 2081.5} \\ {\rm 1901.2} \\ \hline \end{array}$	$\begin{array}{c} \mbox{copyleft} \\ \mbox{gpl} \\ \mbox{licenses} \\ \hline \\ \hline \\ \mbox{w}_k \\ \hline \\ \mbox{copyleft} \\ \mb$	$\begin{array}{c} \mbox{legislation} \\ \mbox{act} \\ \mbox{laws} \\ \mbox{laws} \\ \hline $\mathbf{S}_{k,168}^2 \mathbf{S}_{k,103}^2 \\ \mbox{1648.0} \\ \mbox{1131.9} \\ \mbox{8397.} \\ \mbox{809.7} \\ \mbox{676.5} \\ \mbox{653.3} \\ \hline \mbox{655.2} \\ \mbox{675.5} \\ \mbox{655.3} \\ \mbox{675.5} \\ \mb$
liver kidney w_k atrophy hemiparesis axonal dysfunction neuropathy myopathy $E(S_{160}^2S_{72}^2) = 1.70$ Axis 169 female male age infant w_k male vulval faggot spermatozoon	$\begin{array}{c} \text{nicular} \\ \text{disorders} \\ \text{symptoms} \\ \hline \mathbf{S}^2_{k,10} \mathbf{S}^2_{k,118} \\ 2110.2 \\ 1877.5 \\ 1465.9 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1280.2 \\ 1$	fm radio broadcast w_k rebroadcast fsn etv upn wxyz whdh $E(S_{44}^2,S_{121}^2) = 2.0$ Axis 44 plants plant plant plant plant plant plant provide caryophyllales dicotyledons betulaccae	aired show tv v 10 1729.4 1635.4 1635.4 1600.9 1534.6 1441.3 1392.0 996 Axis 121 families family older household $\mathbf{S}_{k,44}^2\mathbf{S}_{k,121}^2$ 4158.0 4064.1 3652.5 3637.6 2627	fm radio broadcast $\overline{w_k}$ canwest ctv wqxr superstation wanbao aor $E(S_{45}^2S_{103}^2) = 1$ Axis 45 quantum particles protons photon photons	$\begin{array}{c} \text{daily} \\ \text{weekly} \\ \hline \text{newspapers} \\ \hline \text{S}^2_{k,30} \text{S}^2_{k,123} \\ \text{1941.7} \\ 1343.4 \\ 1276.0 \\ 1144.2 \\ 1116.1 \\ 998.0 \\ \hline \text{1144.2} \\ 1116.1 \\ 998.0 \\ \hline \text{1165} \\ \hline \text{Axis 103} \\ \hline \text{wavelength} \\ \hline \text{light} \\ \text{wavelength} \\ \hline \text{light} \\ \hline \text{wavelengths} \\ \hline \text{laser} \\ \hline \text{S}^2_{k,45} \text{S}^2_{k,103} \\ \hline \text{3078.7} \\ 2079.4 \\ 1648.3 \\ 1567.6 \\ 1$	www htm html w_k shtml geocites jeancocteau Ifc uchicago artchive $E(S_{2g}^2S_{193}^2) = 1.$ Axis 49 court judge courts trial w_k habeas declaratory conservatorship waives	website forum photos $S_{k,30}^2 S_{k,30}^2$ 1537.9 1230.3 871.2 758.0 644.7 593.3 616 Axis 193 rights legislation act laws $S_{k,40}^2 S_{k,193}^2$ 954.7 823.5 783.1 753.2 754.7	www htm htm htm tml w_k mtu stateful proxying mpls vpns kleinrock $E(S_{2g}^2S_{101}^2) = 1.0$ Axis 56 cpu microprocessor processor processor grup kleinrock kleinrock kleinrock stateful protection processor stateful stateful protection processor processor stateful stateful protection processor processor stateful stateful protection processor stateful protection processor stateful protection processor stateful protection processor stateful protection processor stateful protection processor stateful protection processor stateful protection processor stateful protection processor stateful protection protectio	$\begin{array}{c} {\rm tcp} \\ {\rm protocols} \\ {\rm protocols} \\ {\rm protocols} \\ {\rm s}^{2}_{k,36} {\rm s}^{2}_{k,73} \\ {\rm 1425.4} \\ {\rm 1352.4} \\ {\rm 1352.4} \\ {\rm 1264.5} \\ {\rm 798.6} \\ {\rm 796.1} \\ \hline {\rm 993} \\ {\rm Axis \ 101} \\ \\ {\rm voltage} \\ {\rm electrical} \\ {\rm circuits} \\ {\rm current} \\ \hline {\rm S}^{2}_{k,56} {\rm S}^{2}_{k,101} \\ \\ {\rm S}^{2}_{8,56} {\rm S}^{2}_{8,201} \\ \\ {\rm 2589.8} \\ {\rm 2081.5} \\ {\rm 1901.2} \\ {\rm 1757.0} \\ \\ {\rm 1757.0} \\ \end{array}$	$\begin{array}{c} \mbox{copyleft} \\ \mbox{gpl} \\ \mbox{licenses} \\ \hline \hline w_k \\ \mbox{copyleft} \\ \mbox{magnatune} \\ \mbox{rightsholder} \\ \mbox{redstribute} \\ \mbox{copyrights} \\ \mbox{circumvention} \\ \hline \mbox{E}(S_{2p}^2S_{11}^2) = 1.1 \\ \mbox{Axis 56} \\ \mbox{cpu} \\ \mbox{microprocessor} \\ \mbox{processor} \\ \mbox{proposesor} \\ \mbox{quadra} \\ \mbox{gba} \\ \mbox{wectrex} \\ \end{array}$	$\begin{array}{c} \text{legislation} \\ \text{act} \\ \text{laws} \\ \hline \\ & \text{S}_{k,108}^2 \text{S}_{k,103}^2 \\ & \text{If } 48.0 \\ & \text{If } 131.9 \\ & \text{839.7} \\ & \text{809.7} \\ & \text{809.7} \\ & \text{809.7} \\ & \text{809.7} \\ & \text{676.5} \\ & \text{653.3} \\ \hline \\ & \text{562} \\ & \text{Axis } 71 \\ & \text{games} \\ & \text$
liver kidney w_k atrophy hemiparesis axonal dysfunction neuropathy myopathy $E(S_{169}^2S_{72}^2) = 1.70$ Axis 169 female male age infant w_k male vulval faggot spermatozoon frot tribadism	$\begin{array}{c} \text{nicular} \\ \text{disorders} \\ \text{symptoms} \\ \hline \mathbf{S}_{k,16}^2 \mathbf{S}_{k,118}^2 \\ 2110.2 \\ 1877.5 \\ 1465.9 \\ 1380.2 \\ 1300.1 \\ 1288.3 \\ 101 \\ \hline \text{Axis 72} \\ \text{sexual} \\ \text{sexual} \\ \text{sexual} \\ \text{sexual} \\ \text{sexual} \\ \hline \mathbf{S}_{k,169}^2 \mathbf{S}_{k,72}^2 \\ 1191.4 \\ 981.2 \\ 961.5 \\ 940.6 \\ 843.5 \\ \end{array}$	fm radio broadcast w_k rebroadcast fsn e tv upn wxyz whdh $E(S_{44}^2S_{121}^2) = 2.0$ Axis 44 plants plant plant flowers flowering w_k rosid caryophyllales dicotyledons betulaceae cronquist poaccae	aired show tv $\mathbf{S}_{k,30}^{2}\mathbf{S}_{k,112}^{2}$ 1729.4 1635.4 1600.9 1534.6 1441.3 1392.0 096 Axis 121 families family older household $\mathbf{S}_{k,44}^{2}\mathbf{S}_{k,121}^{2}$ 4158.0 4064.1 3652.5 3637.6 36367.6 36367.6 3636.7 1295.0	fm radio broadcast w_k canwest ctv wqxr superstation wanbao aor $E(S_{45}^2S_{103}^2) = 1$ Axis 45 quantum particles particles particles physics w_k mesons gluons photon photons synchrotron	$\begin{array}{c} \text{daily}\\ \text{weekly}\\ \text{newspapers}\\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	www htm html w_k shtml geocities jeancocteau Ifc uchicago artchive $E(S_{49}^2S_{133}^2) = 1.$ Axis 49 court judge courts trial w_k habeas declaratory conservatorship waives laches talionis	$\begin{tabular}{ c c c c c } \hline website forum $$photos$ $$ $$f_{5.00}$ $$S_{6.50}$ $$1537.9$ $$1230.3$ $$871.2$ $$758.0$ $$644.7$ $$593.3$ $$616$ $$644.7$ $$593.3$ $$616$ $$Axis 193$ $$rights $$legislation $$act$ $$legislation $$act$ $$legislation $$act$ $$laws$ $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$	www htm html w_k mtu stateful proxying mpls ypns kleinrock $E(S^2_{56}S^2_{101}) = 1.6$ Axis 56 cpu microprocessor processor cpus w_k lsi microelectronic sram mosfet voltages	$\begin{array}{c} {\rm tcp} \\ {\rm protocols} \\ {\rm protocol} \\ \hline {\bf S}^2_{k,36} {\bf S}^2_{k,73} \\ {\rm 1425.4} \\ {\rm 1352.4} \\ {\rm 1352.4} \\ {\rm 1264.5} \\ {\rm 798.6} \\ {\rm 796.1} \\ \hline {\rm 393} \\ {\rm Axis 101} \\ \\ {\rm voltage} \\ {\rm electrical} \\ {\rm circuits} \\ {\rm current} \\ \hline {\bf S}^2_{k,56} {\bf S}^2_{k,101} \\ {\rm S}^2_{k,56} {\bf S}^2_{k,101} \\ {\rm 2081.5} \\ {\rm 1901.2} \\ {\rm 1757.0} \\ {\rm 1582.9} \\ {\rm 1554.5} \\ \end{array}$	copyleft gpl licenses w_k copyleft magnatune rightsholder redistribute copyrights circumvention $E(S_{50}^2S_{71}^2) = 1.1$ Axis 56 cpu microprocessor processor cpus w_k backlit quadra gba vectrex epyx ves	$\begin{array}{c} \text{legislation} \\ \text{act} \\ \text{laws} \\ \hline \\ $
liver kidney $\frac{W_k}{atrophy}$ hemiparesis axonal dysfunction neuropathy myopathy $E(S_{100}^2S_{72}^2) = 1.70$ Axis 169 female male male male vulval faggot spermatozoon frot tribadism $E(S_2^2, S_{-2}^2) = 1.4$	$\begin{array}{c} \text{minula} \\ \text{disorders} \\ \text{symptoms} \\ \hline \mathbf{S}_{k,16}^2 \mathbf{S}_{k,118}^2 \\ 2110.2 \\ 1807.2 \\ 1807.2 \\ 1300.1 \\ 1288.3 \\ 11 \\ \hline \text{Axis 72} \\ \text{sexual} \\ \text{sex} \\ \text{homosexual} \\ \text{heterosexual} \\ \text{heterosexual} \\ \text{heterosexual} \\ \hline \mathbf{S}_{k,169}^2 \mathbf{S}_{k,72}^2 \\ 1191.4 \\ 981.2 \\ 961.5 \\ 940.6 \\ 843.5 \\ \end{array}$	fm radio broadcast w_k rebroadcast fsn elv upn wxyz whdh $E(S_{44}^2S_{121}^2) = 2.0$ Axis 44 $plants$ plant flowers flowering w_k rosid caryophyllales dicotyledons betulaceae cronquist poaceae $E(S_{44}^2, S_{121}^2) = 1$	$\begin{array}{c} {\rm aired} \\ {\rm show} \\ {\rm tv} \\ \hline {\bf S}^2_{k,30} {\bf S}^2_{k,112} \\ 1729.4 \\ 1630.4 \\ 1630.4 \\ 1630.4 \\ 1630.4 \\ 1630.4 \\ 1630.4 \\ 1392.0 \\ 096 \\ \hline {\bf Axis 121} \\ {\rm families} \\ {\rm families} \\ {\rm family} \\ {\rm older} \\ {\rm household} \\ {\bf S}^2_{k,44} {\bf S}^2_{k,121} \\ {\rm 4158.0} \\ {\rm 4064.1} \\ 3652.5 \\ 3637.6 \\ 3636.1 \\ 3295.0 \\ 306 \\ \end{array}$	fm radio broadcast w_k canwest ctv wqxr superstation wanbao aor $E(S_{45}^2S_{103}^2) = 1$ Axis 45 quantum particles particles particles physics w_k mesons gluons photon synchrotron isospin	$\begin{array}{c} \text{daily}\\ \text{weekly}\\ \text{newspapers}\\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\$	www htm html w_k shtml geocities jeancocteau Ifc uchicago artchive $E(S_{4p}^2S_{133}^2) = 1.$ Axis 49 court judge courts trial w_k habeas declaratory conservatorship waives laches talionis $F(S_2^2, S_{2-3}^2) = 1$	website forum photos s $S_{k,30}^2 S_{k,50}^2$ 1537.9 1230.3 871.2 758.0 644.7 616 Axis 193 rights legislation act legislation 354.7 954.7 854.7 954.7 823.5 783.1 753.2 734.4 721.3 705 75	www htm html w_k mtu stateful proxying mpls vpns kleinrock kleinrock $E(S_{56}^2S_{101}^2) = 1.6$ Axis 56 cpu microprocessor processor cpus w_k lsi microelectronic sram mosfet voltages microcrotellers $F(S_{26}^2, S_{201}^2) = 1$	$\begin{array}{c} {\rm tcp} \\ {\rm protocols} \\ {\rm protocol} \\ \hline {\bf S}^2_{k,36} {\bf S}^2_{k,73} \\ 1425.4 \\ 1324.2 \\ 1264.5 \\ 798.6 \\ 798.6 \\ 798.6 \\ 798.101 \\ \hline {\rm voltage} \\ {\rm electrical} \\ {\rm circuits} \\ {\rm current} \\ \hline {\bf S}^2_{k,56} {\bf S}^2_{k,101} \\ 2889.8 \\ 2081.5 \\ 1901.2 \\ 1554.5$	copyleft gpl licenses w_k copyleft magnatune rightsholder redistribute copyrights circumvention $E(S_{56}^2S_{11}^2) = 1.4$ Axis 56 cpu microprocessor processor cpus w_k backlit quadra gba vectrex epyx ves $E(S_{56}^2, S_{57}^2) = E(S_{56}^2, S_{57}^2) = 1.4$	legislation act laws $S_{k,108}^2 S_{k,103}^2$ 1648.0 1131.9 839.7 809.7 653.3 592 Axis 71 games gamelplaye $S_{k,50}^2 S_{k,71}^2$ 138.5 1349.0 1128.1 1113.6 1097.0
$\label{eq:starsestep} \begin{split} & \underset{k \neq 0}{\text{liver}} \\ & \underset{k \neq 0}{\text{kiney}} \\ \hline \\ & \underset{k \neq 0}{\text{atrophy}} \\ & \underset{k \neq 0}{\text{hemiparesis}} \\ & \underset{k \neq 0}{\text{atrophy}} \\ & \underset{k \neq 0}{\text{popathy}} \\ & \underset{k \neq 0}{\text{myopathy}} \\ \hline \\ & \underset{k \neq 0}{\text{E}(S_{19}^2, S_{12}^2) = 1.70} \\ & \underset{k \neq 0}{\text{Axis 188}} \\ \hline \\ & \underset{k \neq 0}{\text{male}} \\ & \underset{k \neq 0}{\text{male}} \\ \hline \\ & \underset{k \neq 0}{\text{male}} \\ \hline \\ & \underset{k \neq 0}{\text{male}} \\ \\ & \underset{k \neq 0}{\text{male}} \\ \hline \\ & \underset{k \to 0}{\text{male}} \\ \hline $	$\begin{array}{c} \text{minula}\\ \text{disorders}\\ \text{symptoms}\\ \hline \mathbf{S}_{k,16}^2 \mathbf{S}_{k,118}^2\\ 2110.2\\ 1877.5\\ 1465.9\\ 1380.2\\ 1300.1\\ 1288.3\\ \hline \mathbf{S}_{k,169}^2 \mathbf{S}_{k,129}^2\\ \text{sexual}\\ \text{sexual}\\ \text{sexual}\\ \text{seterosexual}\\ \text{heterosexual}\\ \text{heterosexual}\\ \mathbf{S}_{k,169}^2 \mathbf{S}_{k,72}^2\\ 1191.4\\ 981.2\\ 961.5\\ 940.6\\ 843.5\\ \hline 142\\ \text{Axis 119}\\ \end{array}$	$\begin{array}{c} {\rm fm} & \\ {\rm radio} & \\ {\rm broadcast} & \\ \hline w_k & \\ {\rm rebroadcast} & \\ {\rm fsn} & \\ {\rm etv} & \\ {\rm upn} & \\ {\rm wxyz} & \\ {\rm wwyz} & \\ {\rm wwyz} & \\ {\rm wyyz} & \\ {\rm resid} & \\ {\rm caryophyllales} & \\ {\rm diceves} & \\ {\rm resid} & \\ {\rm caryophyllales} & \\ {\rm diceves} & \\ {\rm resid} & \\ {\rm caryophyllales} & \\ {\rm diceves} & \\ {\rm resid} & \\ {\rm caryophyllales} & \\ {\rm diceves} & \\ {\rm resid} & \\ {\rm r$	$\begin{array}{c} {\rm aired} \\ {\rm show} \\ {\rm tv} \\ \hline {\bf S}^2_{k,30} {\bf S}^2_{k,112} \\ 1729.4 \\ 1630.4 \\ 1$	$\begin{array}{c} \mbox{fm} \\ \mbox{radio} \\ \mbox{radio} \\ \mbox{wk} \\ \mbox{canwest} \\ \mbox{ctv} \\ \mbox{wqxr} \\ \mbox{superstation} \\ \mbox{wabaa} \\ \mbox{aor} \\ \mbox{canwest} \\ \mbox{canwest} \\ \mbox{quantum} \\ \mbox{particles} \\ \mbox{particles}$	$\begin{array}{c} \text{daily}\\ \text{weekly}\\ \text{newspapers}\\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c} & \text{www} \\ \text{htm} \\ & \text{html} \\ \hline \\ & w_k \\ \hline \\ & shtml \\ geocities \\ j cancocteau \\ Ifc \\ uchicago \\ artchive \\ \hline \\ & E(S_{49}^2S_{133}^2) = 1. \\ & \text{Axis } 49 \\ \hline \\ & \text{court} \\ & \text{judge } \\ & \text{courts } \\ & \text{trial } \\ \hline \\ & w_k \\ & \text{habeas } \\ & \text{declaratory } \\ & \text{conservatorship } \\ & \text{waives } \\ & \text{laches } \\ & \text{talionis } \\ \hline \\ & E(S_{67}^2S_{103}^2) = 1. \\ & \text{Axis } 67 \\ \hline \end{array}$	$\begin{array}{r} \mbox{website} \\ \mbox{forum} \\ \mbox{form} \\ \mbox{scale} $	$\begin{array}{c} \text{www} \\ \text{htm} \\ \text{htm} \\ \hline \\ \hline \\ \hline \\ w_k \\ \hline \\ \\ \hline \\ \\ \text{mtu} \\ \text{stateful} \\ \\ \text{proxying} \\ \\ \\ \text{pproxying} \\ \\ \\ \text{pproxying} \\ \\ \\ \\ \text{kleinrock} \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} {\rm tcp} \\ {\rm protocols} \\ {\rm protocol} \\ \hline {\bf S}^2_{k,36} {\bf S}^2_{k,73} \\ 1425.4 \\ 1324.2 \\ 1264.5 \\ 798.6 \\ 798.6 \\ 798.6 \\ 798.1 \\ 0100 \\ \hline {\rm voltage} \\ {\rm electrical} \\ {\rm circuits} \\ {\rm current} \\ \hline {\bf S}^2_{k,56} {\bf S}^2_{k,101} \\ {\bf S}^2_{k,56} {\bf S}^2_{k,101} \\ 2081.5 \\ 1901.2 \\ 1582.9 \\ 1554.5 \\ 800 \\ {\rm Axis 103} \\ \end{array}$	$\begin{array}{c} \mbox{copyleft} \\ \mbox{gpl} \\ \mbox{licenses} \\ \hline \hline \\ \hline $	$\begin{array}{c} \mbox{legislation} \\ \mbox{act} \\ \mbox{legislation} \\ \mbox{act} \\ \mbox{legislation} \\ \mbox{structure} \\ struct$
$\label{eq:starsester} \begin{split} & \frac{\text{liver}}{\text{kidney}} \\ & \frac{\text{kidney}}{\text{atrophy}} \\ & \frac{w_k}{\text{atrophy}} \\ & \frac{w_k}{\text{atrophy}} \\ & \frac{w_k \text{starsest}}{\text{male}} \\ & \frac{w_k}{\text{male}} \\ & \frac{w_k}{\text{male}} \\ & \frac{w_k}{\text{male}} \\ & \frac{w_k \text{starsest}}{\text{male}} \\ & \frac{w_k \text{starsest}}{\text{starsest}} \\ & w_k \text{starsest$	$\begin{array}{c} \text{incutal} \\ \text{disorders} \\ \text{symptoms} \\ \hline \mathbf{S}_{k,16}^2 \mathbf{S}_{k,118}^2 \\ 2110.2 \\ 1807.2 \\ 1807.2 \\ 1300.1 \\ 1288.3 \\ 11 \\ \text{Axis 72} \\ \text{sexual} \\ \text{sex} \\ \text{homosexual} \\ \text{heterosexual} \\ \text{heterosexual} \\ \text{heterosexual} \\ \textbf{S}_{k,169}^2 \mathbf{S}_{k,72}^2 \\ 1240.5 \\ 1191.4 \\ 981.2 \\ 961.5 \\ 940.6 \\ 843.5 \\ 142 \\ \hline \text{Axis 119} \\ \hline \text{combustion} \\ \end{array}$	$\begin{array}{c} \mbox{fm} & \mbox{radio} \\ \mbox{fm} & \mbox{rebroadcast} \\ \hline w_k & \mbox{vector} \\ \mbox{rebroadcast} & \mbox{fm} \\ \mbox{rebroadcast} & \mbox{fm} \\ \mbox{etv} & \mbox{upn} \\ \mbox{wyz} & \mbox{whdh} \\ \mbox{etv} & \mbox{dist} \\ \mbox{etv} & \mbox{dist} \\ \mbox{rest} & \mbox{fm} \\ \mbox{rest} & \mbox{fm} \\ \mbox{flowers} & \mbox{flowers} \\ \mbox{caryophyllales} \\ \mbox{caryophyllales} \\ \mbox{caryophyllales} \\ \mbox{flowers} & \mbox{flowers} \\ \mbox{flowers} & flo$	$\begin{array}{c} {\rm aired} \\ {\rm show} \\ {\rm tv} \\ \hline {\bf S}^2_{k,30} {\bf S}^2_{k,112} \\ 1635.4 \\ 1600.9 \\ 1534.6 \\ 1441.3 \\ 1392.0 \\ 096 \\ \hline {\bf Axis 121} \\ {\rm families} \\ {\rm families} \\ {\rm family} \\ {\rm older} \\ {\rm household} \\ {\bf S}^2_{k,44} {\bf S}^2_{k,121} \\ 0 \\ 4158.0 \\ 4064.1 \\ 3652.5 \\ 3637.6 \\ 3636.1 \\ 3295.0 \\ \hline {\rm axis 205} \\ {\rm names} \\ \end{array}$	$\begin{array}{c} \mbox{fm} \\ \mbox{radio} \\ \mbox{radio} \\ \mbox{wk} \\ \mbox{canwest} \\ \mbox{ctv} \\ \mbox{wqxr} \\ \mbox{superstation} \\ \mbox{washad} \\ \mbox{aor} \\ \mbox{canwest} \\ \mbox{superstation} \\ \mbox{quantum} \\ \mbox{particle} $	$\begin{array}{r} \text{daily}\\ \text{weekly}\\ \text{newspapers}\\ \hline \\ \hline \\ 8^2_{k,30} 8^2_{k,123}\\ 1941.7\\ 1343.4\\ 1276.0\\ 1144.2\\ 1116.1\\ 998.0\\ \hline \\ 675\\ \hline \\ \text{Axis 103}\\ \hline \\ \text{wavelength}\\ \text{light}\\ \text{wavelength}\\ \text{laser}\\ \hline \\ 8^2_{k,45} 8^2_{k,103}\\ \hline \\ 8^2_{k,45} 8^2_{k,203}\\ \hline \\ 8^2_{k,45} 8^2_{k,103}\\ \hline \\ 8^2_{k,10} 8^2_{k,10}\\ \hline \\ 8^$	$\begin{array}{c} \text{www} \\ \text{htm} \\ \text{html} \\ \hline \\ \hline \\ \hline \\ w_k \\ \hline \\ shtml \\ geocities \\ jeancocteau \\ Ifc \\ uchicago \\ artchive \\ \hline \\ \\ E(S_{49}^2S_{103}^2) = 1. \\ \hline \\ Axis 49 \\ \hline \\ court \\ trial \\ \hline \\ \hline \\ \hline \\ w_k \\ \hline \\ habeas \\ declaratory \\ conservatorship \\ waives \\ laches \\ talionis \\ \hline \\ E(S_{77}^2S_{103}^2) = 1. \\ \hline \\ Axis 67 \\ \hline \\ \hline \\ blue \\ \hline \end{array}$	vebsite forum photos \$\frac{k_{2,30}}{k_{2,30}} \frac{S_{k,20}}{k_{2,30}} \rac{S_{k,20}}{k_{2,30}} \rac{S_{k,20}}{k_{2,30}} \rac{S_{k,20}}{k_{2,30}} \rac{S_{k,20}}{k_{2,30}} \rac{S_{k,20}}{k_{2,30}} \	$\label{eq:stars} \begin{array}{c} \text{www} \\ \text{htm} \\ \text{html} \\ \hline \\ \hline \\ w_k \\ \hline \\ w_k \\ \text{mtu} \\ \text{stareful} \\ \text{yops} \\ \text{kleinrock} \\ \text{kleinrock} \\ \hline \\ E(S_{56}^2S_{101}^2) = 1.4 \\ \hline \\ \text{Axis 56} \\ \hline \\ \text{cpu} \\ \text{microprocessor} \\ \hline \\ \text{rprocessor} \\ \hline \\ w_k \\ \hline \\ \text{lsi} \\ \text{mosfet} \\ \text{voltages} \\ \hline \\ \text{mosfet} \\ \text{voltages} \\ \hline \\ E(S_{101}^2T_{103}^2) = 1 \\ \hline \\ \text{Axis 101} \\ \hline \\ \text{voltage} \\ \hline \end{array}$	$\frac{\text{tcp}}{\text{protocols}} \\ \frac{\text{protocols}}{\text{protocol}} \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \\ \\$	$\begin{array}{c} \mbox{copyleft} \\ \mbox{gpl} \\ \mbox{licenses} \\ \hline \\ $	$\begin{array}{c} \mbox{legislation} \\ \mbox{act} \\ \mbox{last} \\ \mbox{act} \\ \mbox{last} \\ \mbox{stars} \\$
$eq:started_st$	$\begin{array}{c} \text{Michail} \\ \text{disorders} \\ \text{symptoms} \\ \hline \mathbf{S}_{k,10}^2 \mathbf{S}_{k,118}^2 \\ 2110.2 \\ 1877.5 \\ 1465.9 \\ 1380.2 \\ 1380.2 \\ 1300.1 \\ 1288.3 \\ 1300.1 \\ 12$	fm radio broadcast radio broadcast w_k rebroadcast fsn etw wayz whdh $E(S_{44}^2S_{212}^2) = 2.0$ Axis 44 plants plant flowers flowers flowers flowering w_k caryophyllales dicotyledons betulaceae cronquist poaceae $E(S_{158}^2S_{205}^2) = 1$. Axis 188 less than	aired show tv V $S_{k,30}^2S_{k,112}^2$ 1729.4 1635.4 1635.4 1441.3 1392.0 96 Axis 121 families family older household $S_{k,44}^2S_{k,121}^2$ 4158.0 4064.1 3652.5 3637.6 3636.1 3295.0 306 Axis 205 names various	fm radio broadcast w_k canwest ctv wqxr superstation wanbao aor $E(S_{45}^2,S_{103}^2) = 1$ Axis 45 quantum particles particle physics w_k mesons gluons photon synchrotron isospin $E(S_{67}^2,S_{11}^2) = 1$ Axis 67 blue white	$\begin{array}{r} \text{daily}\\ \text{weekly}\\ \text{newspapers}\\ \hline \\ 8^2_{k,30}8^2_{k,123}\\ 1941.7\\ 1343.4\\ 1276.0\\ 1144.2\\ 1116.1\\ 998.0\\ \hline \\ 1655\\ \hline \\ \text{Axis 103}\\ \hline \\ \text{wavelength}\\ \text{light}\\ \text{wavelength}\\ \text{light}\\ \text{wavelength}\\ \text{laser}\\ \hline \\ 8^2_{k,45}8^2_{k,103}\\ \hline \\ 3078.7\\ 2079.4\\ 1648.3\\ 1567.6\\ 1435.1\\ 1414.1\\ \hline \\ 1435.1\\ 1414.1\\ \hline \\ 1435.1\\ 1414.1\\ \hline \\ 1435.1\\ 1414.1\\ \hline \\ \hline \\ \\ \text{worn}\\ \text{wearing}\\ \hline \\ \\ \text{wearing}\\ \hline \\ \hline \\ \end{array}$	www htm html html html w_k shtml geocities jeancocteau lfc uchicago artchive $E(S_{49}^2S_{103}^2) = 1.$ Axis 49 court judge courts trial w_k declaratory conservatorship waives laches talionis $E(S_{77}^2S_{103}^2) = 1.$ Axis 67 blue white tali	website forum state $forum$ $forum$ $ghotos$ 1537.9 1230.3 1537.9 1230.3 871.2 758.0 644.7 593.3 616 Axis 193 rights legislation act laws 954.7 783.1 753.2 784.4 721.3 705 Axis 103 wavelength light	www htm html html html html html stateful proxying mpls ypns kleinrock $E(S_{56}^2S_{101}^2) = 1.4$ Axis 56 cpu microprocessor processor cpus w_k lsi microelectronic sram mosfet voltages microcontrollers $E(S_{101}^2T_{103}^2) = 1$ Axis 101 voltage	$\frac{\text{tcp}}{\text{protocols}} \\ \frac{\text{protocols}}{\text{protocol}} \\ \frac{\text{S}_{k,36}^2 \text{S}_{k,73}^2}{1425.4} \\ 1322.4 \\ 1322.4 \\ 1324.6 \\ 13$	$\begin{array}{c} \mbox{copyleft} \\ \mbox{gpl} \\ \mbox{licenses} \\ \hline \\ \hline \\ \mbox{w}_k \\ \hline \\ \mbox{copyleft} \\ \mb$	$\begin{array}{c} \text{legislation} \\ \text{act} \\ \text{laws} \\ \hline \\ $
$\label{eq:starter} \begin{split} & \frac{\mathrm{liver}}{\mathrm{kidney}} \\ & \frac{\mathrm{kidney}}{\mathrm{atrophy}} \\ & \mathrm{hemiparesis} \\ & \mathrm{atrophy} \\ & \mathrm{hemiparesis} \\ & \mathrm{atrophy} \\ & \mathrm{hemiparesis} \\ & \mathrm{atrophy} \\ & \mathrm{moleropathy} \\ & \mathrm{myopathy} \\ & \mathrm{myopathy} \\ & \mathrm{respect} \\$	$\begin{array}{c} \text{minula}\\ \text{disorders}\\ \text{symptoms}\\ \hline \mathbf{S}^2_{k,10} \mathbf{S}^2_{k,118}\\ 2110.2\\ $	fm radio broadcast radio broadcast w_k rebroadcast fsn et vupn wyz whdh $E(S_{44}^2S_{121}^2) = 2.4$ Axis 44 plants plant flowers flowering w_k corayophyllales dicotyledons betulaceae cronquist poaceae $E(S_{158}^2S_{205}^2) = 1$ Axis 188 less than more much	$\begin{array}{r} \mbox{aired} \\ \mbox{show} \\ \mbox{tv} \\ \mbox{tv} \\ \mbox{show} \\ \mbox{tv} \\ \mbox{show} \\ \mbox{show} \\ \mbox{show} \\ \mbox{1729.4} \\ \mbox{1635.4} \\ \mbox{1635.4} \\ \mbox{1635.4} \\ \mbox{1635.1} \\ \mbox{1635.1} \\ \mbox{show} \\ \m$	$\begin{array}{c c} \mbox{fm} & \mbox{radio} \\ \mbox{radio} & \mbox{radio} \\ \hline \hline \\ \hline $	$\begin{array}{c} \text{daily}\\ \text{weekly}\\ \text{newspapers}\\ \hline \\ \hline \\ 8^2_{k,30} 8^2_{k,123}\\ 1941.7\\ 1343.4\\ 1276.0\\ 1144.2\\ 1116.1\\ 998.0\\ 1144.2\\ 1116.1\\ 998.0\\ \hline \\ \hline \\ 840.0\\ 1144.2\\ 1116.1\\ 998.0\\ 1144.2\\ \hline \\ \hline \\ \hline \\ 840.0\\ 184.2\\ \hline \\ 840.0\\ \hline \\ 840.$	$\begin{array}{c} \text{www} \\ \text{htm} \\ \text{html} \\ \hline \\ $	$\begin{array}{c} \text{website} \\ \text{forum} \\ \\ \text{photos} \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	www htm html html html html html html stateful proxying mpls vpns kleinrock $E(S_{56}^2S_{101}^2) = 1.6$ Axis 56 cpu microprocessor processor cpus w_k lsi microelectronic sram mosfet voltages microcontrollers $E(S_{101}^2S_{103}^2) = 1$ Axis 101 voltage electrical circuits current	$\frac{\text{tcp}}{\text{protocols}} \\ \frac{\text{protocols}}{\text{protocol}} \\ \hline \\ \frac{\mathbf{S}_{k,36}^2 \mathbf{S}_{k,73}^2}{1425.4} \\ 1322.4 \\ 1324.2 \\ 1264.5 \\ 798.6 \\ 798.6 \\ 798.6 \\ 798.1 \\ 0102 \\ \text{voltage} \\ \text{electrical} \\ \text{circuits} \\ \text{current} \\ \hline \\ \frac{\mathbf{S}_{k,56}^2 \mathbf{S}_{k,101}^2}{\mathbf{S}_{k,50}^2 \mathbf{S}_{k,101}^2} \\ \frac{\mathbf{S}_{k,56}^2 \mathbf{S}_{k,101}^2}{\mathbf{S}_{k,50}^2 \mathbf{S}_{k,101}^2} \\ \frac{\mathbf{S}_{k,56}^2 \mathbf{S}_{k,101}^2}{\mathbf{S}_{k,50}^2 \mathbf{S}_{k,101}^2} \\ \frac{\mathbf{S}_{k,56}^2 \mathbf{S}_{k,101}^2}{\mathbf{S}_{k,50}^2 \mathbf{S}_{k,101}^2} \\ \frac{\mathbf{S}_{k,56}^2 \mathbf{S}_{k,101}^2}{\mathbf{S}_{k,56}^2 \mathbf{S}_{k,101}^2} \\ \frac{\mathbf{S}_{k,56}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}^2} \\ \frac{\mathbf{S}_{k,56}^2 \mathbf{S}_{k,10}^2 \mathbf{S}_{k,10}$	$\begin{array}{c} \mbox{copyleft} \\ \mbox{gpl} \\ \mbox{licenses} \\ \hline \\ \hline \\ \mbox{copyleft} \\ \m$	$\begin{split} & \text{legislation} \\ & \text{act} \\ & \text{laws} \\ \\ & \text{S}_{k,108}^2 \text{S}_{k,103}^2 \\ & \text{I648.0} \\ & \text{I131.0} \\ & \text{839.7} \\ & \text{653.3} \\ \\ & \text{565.6} \\ & \text{575.6} \\ \\ & \text{653.3} \\ \\ \\ & $
liver kidney w_k atrophy hemiparesis axonal dysfunction neuropathy myopathy $E(S_{169}^2S_{72}^2) = 1.70$ Axis 169 female male age infant w_k male vulval faggot spermatozoon frot tribadism $E(S_{188}^2S_{119}^2) = 1.4$ Axis 188 less than more much w_k	$\frac{\text{disorders}}{\text{symptoms}} \\ \frac{\text{symptoms}}{\text{S}_{k,10}^2 \text{S}_{k,118}^2} \\ 2 \ 110.2 \\ 110.2 \\ 110.2 \\ 130.2 \\ 130.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1380.2 \\ 1288.3 \\ 100.2 \\ 1288.3 \\ 100.2 \\ 1288.3 \\ 100.2 \\ 1288.3 \\ 100.2 \\ 1288.3 \\ 100.2 \\ 1288.3 \\ 100.2 \\ 1288.3 \\ 100.2 $	fm radio broadcast radio broadcast fsn et etv upn wxyz whdh $E(S_{44}^2S_{121}^2) = 2.0$ Axis 44 plants plant plant flowering $\frac{w_k}{rosid}$ caryophyllales dicotyledons betulaceae cronquist poaccae $E(S_{188}^2S_{205}^2) = 1$ Axis 188 less than more much $\frac{w_k}{rosid}$	$\begin{array}{r} \mbox{aired} \\ \mbox{show} \\ \mbox{tv} \\ \mbox{tv} \\ \mbox{show} \\ \mbox{tv} \\ \mbox{show} \\ \mbox{show} \\ \mbox{show} \\ \mbox{label{eq:show} label{eq:show} label{e$	fm radio broadcast w_k canwest ctv wqxr superstation wanbao aor $E(S_{15}^2S_{103}^2) = 1$ Axis 45 quantum particles particle physics w_k mesons guons photon photon synchrotron isospin $E(S_{67}^2S_{111}^2) = 1$ Axis 67 blue white red yellow	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	www htm htm html w_k shtml geocities jeancocteau Ifc uchicago artchive $E(S_{40}^2S_{103}^2) = 1.$ Axis 49 court judge courts trial w_k habeas declaratory conservatorship waives laches talionis $E(S_{47}^2S_{103}^2) = 1.$ Axis 67 blue white red yellow	website forum $s_{k,30}^2 S_{k,30}^2$ 1537.9 1230.3 871.2 758.0 644.7 593.3 616 Axis 193 rights legislation act laws 954.7 823.5 738.1 753.2 734.4 721.3 wavelength light wavelength light wavelength light wavelength light wavelength light wavelength light	www htm htm htm htm htm htm htm htm	$\begin{array}{c} {\rm tcp} \\ {\rm protocols} \\ {\rm protocols} \\ {\rm protocol} \\ \hline {\bf S}_{k,36}^2 {\bf S}_{k,73}^2 \\ {\rm 1425.4} \\ {\rm 1352.4} \\ {\rm 1352.4} \\ {\rm 1352.4} \\ {\rm 1264.5} \\ {\rm 796.6} \\ {\rm 796.1} \\ \hline {\rm 993} \\ {\rm Axis \ 101} \\ {\rm voltage} \\ {\rm electrical} \\ {\rm circuits} \\ {\rm current} \\ \hline {\bf S}_{k,56}^2 {\bf S}_{k,101}^2 \\ {\rm 101.2} \\ {\rm 2589.8} \\ {\rm 2081.5} \\ {\rm 1901.2} \\ {\rm 1757.0} \\ {\rm 1582.9} \\ {\rm 1582$	copyleft gpl licenses w_k copyleft magnatune rightsholder redistribute copyrights circumvention $E(S_{5p}^2S_{11}^2) = 1.1$ Axis 56 cpu w_k backlit quadra gba vectrex epyx vectrex epyx Vecs $E(S_{101}^2S_{110}^2) =$ Axis 101 votage electrical circuits current w_k	$\begin{array}{c} \text{legislation} \\ \text{act} \\ \text{laws} \\ \hline \\ $
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$eq:started_st$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{array}{c} {\rm fm} \\ {\rm radio} \\ {\rm broadcast} \\ \hline w_k \\ \hline w_k \\ {\rm rebroadcast} \\ {\rm fsn} \\ {\rm etroadcast} \\ {\rm fsn} \\ {\rm etroadcast} \\ {\rm fsn} \\ {\rm etv} \\ {\rm upn} \\ {\rm wxyz} \\ {\rm wkdh} \\ \hline {\rm E}(S_{44}^2S_{121}^2) = 2.0 \\ {\rm Axis} 44 \\ {\rm plant} \\ {\rm plants} \\ {\rm plants} \\ {\rm plant} \\ {\rm flowers} \\$	$\begin{array}{c} \mbox{aired} \\ \mbox{show} \\ \mbox{tv} \\ \mbox{tv} \\ \mbox{T729.4} \\ \mbox{1635.4} \\ \mbox{160.9} \\ \mbox{1729.4} \\ \mbox{1635.4} \\ \mbox{160.9} \\ \mbox{1734.6} \\ \mbox{1411.3} \\ \mbox{1392.0} \\ \mbox{1392.0} \\ \mbox{2006} \\ \mbox{Axis 121} \\ \mbox{family} \\ \mbox{older} \\ \mbox{household} \\ \mbox{0der} \\ \mbox{141.3} \\ \mbox{1392.0} \\ \mbox{0der} \\ \mbox{141.3} \\ \mbox{1458.0} \\ \mbox{4064.1} \\ \mbox{3652.5} \\ \mbox{3637.6} \\ \mbox{3636.1} \\ \mbox{3255.0} \\ \mbox{3636.1} \\ \mbox{3636.1} \\ \mbox{3255.0} \\ \mbox{3636.1} \\ 36$	$\begin{array}{c} {\rm fm} \\ {\rm radio} \\ {\rm broadcast} \\ \hline \\ w_k \\ {\rm canwest} \\ {\rm ctv} \\ {\rm weysr} \\ {\rm superstation} \\ {\rm wanhao} \\ {\rm aor} \\ {\rm aor} \\ \hline \\ {\rm E}(S_{45}^2S_{103}^2) = 1 \\ {\rm Axis} \ 45 \\ {\rm quantum} \\ {\rm particle} \\ {\rm particle} \\ {\rm particle} \\ {\rm particle} \\ {\rm physics} \\ \hline \\ w_k \\ \hline \\ {\rm mesons} \\ {\rm gluons} \\ {\rm photons} \\ {\rm synchrotron} \\ {\rm isospin} \\ \hline \\ \hline \\ {\rm blue} \\ {\rm while} \\ {\rm red} \\ {\rm yellow} \\ \hline \\ \hline \\ \hline \\ {\rm wk} \\ \\ {\rm sash} \\ {\rm hakama} \\ {\rm turbans} \\ \hline \end{array}$	$\begin{tabular}{ c c c c c } \hline & & & & & & & & & & & & & & & & & & $	www htm html html html geotics jeancocteau Ifc uchicago artchive jeancocteau Ifc uchicago artchive $E(S_{49}^2S_{193}^2) = 1.$ Axis 49 court judge courts trial w_k habeas declaratory conservatorship waives laches talionis $E(S_{77}^2S_{103}^2) = 1.$ Axis 67 blue white red yellow w_k thz monochromatic protanomaly	$\begin{array}{c} \text{website} \\ \text{forum} \\ \text{photos} \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	www htm htm html html html html html html h	$\begin{array}{c} {\rm tcp} \\ {\rm protocols} \\ {\rm protocol} \\ \hline {\bf S}^2_{k,36} {\bf S}^2_{k,73} \\ 1425.4 \\ 1324.2 \\ 1264.5 \\ 798.6 \\ 798.6 \\ 798.0 \\ \hline {\bf Axis 101} \\ {\rm voltage} \\ {\rm electrical} \\ {\rm circuits} \\ {\rm current} \\ {\bf S}^2_{k,56} {\bf S}^2_{k,101} \\ {\bf S}^2_{k,56} {\bf S}^2_{k,101} \\ {\bf S}^2_{k,56} {\bf S}^2_{k,101} \\ 1582.9 \\ 1554.5 \\ 1901.2 \\ 1757.0 \\ 1582.9 \\ 1554.5 \\ \hline {\bf S}00 \\ \hline {\bf Axis 103} \\ \hline {\bf wavelength} \\ {\bf light} \\ {\bf wavelength} \\ {\bf light} \\ {\bf wavelength} \\ {\bf laser} \\ \hline {\bf S}^2_{k,101} {\bf S}^2_{k,103} \\ \hline {\bf S}^2_{k,101} \\ \hline {\bf S}^2_{k,101} {\bf S}^2_{k,103} \\ \hline {\bf S}^2_{k,101} {\bf S}^2_{k,103}$	$\begin{array}{c} \operatorname{copyleft} \\ \operatorname{gpl} \\ \operatorname{licenses} \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{split} & \text{legislation} \\ & \text{act} \\ & \text{laws} \\ \\ & \text{S}_{k,108}^2 \text{S}_{k,103}^2 \\ & \text{I648,0} \\ & \text{I131,9} \\ & \text{839,7} \\ & \text{653,3} \\ \\ & \text{562} \\ & \text{constrained} \\ \\ & \text{axis 71} \\ & \text{games} \\ & $
$\label{eq:starter} \begin{split} & \underset{k \neq k}{\underset{k \neq k}{\underset{k \neq k \neq k}{k \neq k \neq$	$\begin{array}{c} \text{Mixinal} \\ \text{disorders} \\ \text{symptoms} \\ \hline \mathbf{S}^2_{k,10} \mathbf{S}^2_{k,118} \\ 2110.2 \\ 1877.5 \\ 1465.9 \\ 1380.2 \\ 1380.2 \\ 1300.1 \\ 1288.3 \\ 1300.1 \\ 1$	fm radio broadcast radio broadcast w_k rebroadcast fsn etw wayz whdh $E(S_{44}^2S_{121}^2) = 2.0$ Axis 44 plants plant flowers flowering w_k caryophyllales dicotyledons betulaceae coroquist Betulaceae $E(S_{188}^2S_{205}^2) = 1.$ Axis 188 less than more much w_k gec nervosa dddddd ler	aired show tv V $S_{k,30}^2S_{k,112}^2$ 1729.4 1635.4 1635.4 1432.3 1392.0 996 Axis 121 families family older household $S_{k,44}^2S_{k,121}^2$ 4158.0 4064.1 3652.5 3637.6 3636.6 3295.0 306 Axis 205 names various include these $S_{k,188}^2S_{k,205}^2$ 505.9 481.3 430.1 373.6 375.6 375.6 375.6 375.6 375.6 375.9 375.6 375.9 375.6 375.6 375.9 375.6 375.9 375.6 375.9 375.9 375.9 375.6 375.9 375.6 375.9	fm radio broadcast w_k canwest ctv wqxr superstation wanbao aor $E(S_{45}^2S_{103}^2) = 1$ Axis 45 quantum particles particle physics w_k mesons gluons photons photons synchrotron isospin $E(S_{67}^2S_{11}^2) = 1$ Axis 67 blue white red yellow w_k sash hakama turbans waists	$\begin{array}{r} \text{daily}\\ \text{weekly}\\ \text{newspapers}\\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	www htm html html html w_k shtml geocities jeancocteau Ifc uchicago artchive $E(S_{40}^2S_{103}^2) = 1.$ Axis 49 court judge courts trial w_k habeas declaratory conservatorship waives laches talionis $E(S_{70}^2S_{103}^2) = 1.$ Axis 67 blue white red yellow w_k thz monochromatic protanomaly fluoresce	$\begin{array}{c} \text{website} \\ \text{forum} \\ \text{photos} \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	www htm html html html html html html html	$\frac{\text{tcp}}{\text{protocols}} \\ \frac{\text{protocols}}{\text{protocol}} \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c} \operatorname{copyleft} \\ \operatorname{gpl} \\ \operatorname{licenses} \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} \mbox{legislation} \\ \mbox{act} \\ \mbox{laws} \\ \mbox{act} \\ \mbox{act} \\ \mbox{act} \\ \mbox{act} \\ \mbox{act} \\ \mbox{scale} \\ $
liver kidney liver kidney kidney wk material states with the second states with the second states with the second states we we will be second states we we will be second states we will be second states we we we we will be second states we	$\begin{array}{c} \text{minul}\\ \text{disorders}\\ \text{symptoms}\\ \hline \mathbf{S}^2_{k,10} \mathbf{S}^2_{k,118}\\ 2110.2\\ 1$	fm radio broadcast radio broadcast w_k rebroadcast fsn et vupn wxyz whdh $E(S_{44}^2S_{21}^2) = 2.0$ Axis 44 plants plant flowers flowers flowering w_k caryophyllales dicotyledons betulaceae cronquist poaceae $E(S_{188}^2S_{205}^2) = 1.$ Axis 188 less than more muuch w_k gec nervosa dddddd ler ggmoku kel	$\begin{array}{r} \mbox{aired} \\ \mbox{show} \\ \mbox{tv} \\ \mbox{tv} \\ \mbox{show} \\ \mbox{tv} \\ \mbox{show} \\ \mbox{tv} \\ \mbox{show} \\ \mbox{1729.4} \\ \mbox{1635.4} \\ \mbox{163.4} $	fm radio broadcast w_k canwest ctv wayar superstation wanbao aor $E(S_{45}^2S_{15}^2\sigma_{103}^2) = 1$ Axis 45 quantum particles particle physics w_k mesons gluons photon synchrotron isospin $E(S_{67}^2S_{11}^2) = 1$ Axis 67 blue white red yellow w_k sash hakama turbans superstation pleated	$\begin{array}{r} \text{daily}\\ \text{weekly}\\ \text{newspapers}\\ \hline \\ 8^2_{k,30}8^2_{k,123}\\ 1941.7\\ 1343.4\\ 1276.0\\ 1144.2\\ 1116.1\\ 998.0\\ \hline \\ 84.0\\$	www htm html html html w_k shtml geocities jeancocteau lfc uchicago artchive $E(S_{4g}^2S_{133}^2) = 1.$ Axis 49 court judge courts trial w_k declaratory conservatorship waives laches talionis $E(S_{7g}^2S_{133}^2) = 1.$ Axis 67 blue white red yellow w_k thz monochromatic protanomaly fituresce scintillator diffuser c	$\begin{array}{r} \text{website} \\ \text{forum} \\ \text{photos} \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	www htm html html html html html stateful proxying mpls ypns kleinrock kleinrock kleinrock technology for the stateful proxying mpls ypns ypns ypns ypns ypns ypns ypns ypn	$\frac{\text{tcp}}{\text{protocols}} \\ \frac{\text{protocols}}{\text{protocol}} \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \\ \hline \\$	$\begin{array}{c} \operatorname{copyleft} \\ \operatorname{gpl} \\ \operatorname{licenses} \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \hline \\$	$\begin{split} & \text{legislation} \\ & \text{act} \\ & \text{laws} \\ & \\ & \text{Iaws} \\ & \\ & \text{S}_{k,108}^2 \text{S}_{k,108}^2 \\ & \text{Ia8,5} \\ & \text{Ia8,5} \\ & \text{Ia8,5} \\ & \text{Ia8,5} \\ & \text{S}_{k,101} \\ & \text{games} \\ & g$

Table 8: Complementary experimental results to Table 3. For all component pairs (S_i, S_j) in the first subtree of the MST in Fig. 5, the top 6 words and their corresponding $\mathbf{S}_{t,i}^2 \mathbf{S}_{t,j}^2$ values that contribute the most to the $E(S_i^2 S_j^2)$ value are presented.

$E(S^2S^2) = 2.323$		$E(S^2S^2) = 1.7$	55	$E(S^2 - S^2) = 1$	820	$E(S^2 - S^2) = 1$	693	$E(S^2 - S^2) = 16$	329	$E(S^2 - S^2) = 0$	1 967
Axis 2	Axis 10	Axis 2	Axis 119	Axis 132	Axis 30	Axis 132	Axis 73	$A_{xis} 132$	Axis 62	Axis 136	Axis 56
acid	dna	acid	combustion	talanhona	stations	telenhone		telephone	company	dick	
hvdrogen	proteins	hvdrogen	diesel	phone	fm	phone	tcp	phone	corporation	floppy	microprocessor
acids	rna	acids	turbine	mobile	radio	mobile	protocols	mobile	companies	disks	processor
oh	mrna	oh	engine	cellular	broadcast	cellular	protocol	cellular	shareholders	drives	cpus
101.	S_{1}^{2} , S_{1}^{2} , o	w.	S_{1}^{2} , S_{1}^{2} , m	m	$S_1^2 \dots S_n^2 \dots$	104	$S_1^2 \rightarrow S_2^2 =$	104	S^2_{1} and S^2_{1} and	104	$S_1^2 \rightarrow S_2^2 =$
rihaaa	2755.7	avrolucio	2704.4	diaitaligad	4726.9	multinoint	2062.7	acet	2145.5	coto	2427.5
deoxyribose	2063.0	syngas	2/94.4	arabeat	4720.8	nutupoint	2002.7	telecoms	2547.9	udma	2519.7
phosphodiester	2850.2	gasification	1783.5	radiotelephone	4453.9	wimax	1873.8	nynex	2155.9	backplanes	2008.9
biosynthesis	2510.1	butane	1761.2	landlines	3522.1	xdsl	1491.2	gnc	1810.0	nexgen	1947.7
methyltransferase	2482.9	dehydrogenation	1623.0	intersputnik	3053.5	svcs	1361.2	haitel	1657.3	megabytes	1890.1
pyrimidine	2399.6	tert	1230.2	telex	2722.4	isdn	1235.8	openreach	1529.2	eisa	1859.5
$E(S_{10}^2S_{16}^2) = 1.947$	7	$E(S_{10}^2S_{160}^2) = 1.8$	311	$E(S_{140}^2S_{56}^2) = 1$.615	$E(S_{13}^2S_{56}^2) = 1.$	732	$E(S_{13}^2S_{168}^2) = 1.9$	991	$E(S_{13}^2S_{73}^2) = 1$.740
Axis 10	Axis 16	Axis 10	Axis 160	Axis 140	Axis 56	Axis 13	Axis 56	Axis 13	Axis 168	Axis 13	Axis 73
dna	blood	dna	evolution	import	cpu	windows	cpu	windows	license	windows	ip
proteins	organs	proteins	evolutionary	duplicate	microprocessor	os	microprocessor	os	copyleft	os	tcp
rna	liver	rna	darwin	info	processor	unix	processor	unix	gpl	unix	protocols
mrna	kidney	mrna	selection	no	cpus	linux	cpus	linux	licenses	linux	protocol
w_k	$S_{k,10}^2 S_{k,16}^2$	w_k	$S_{k,10}^2 S_{k,160}^2$	w_k	$S_{k,140}^2 S_{k,56}^2$	w_k	$S_{k,13}^2 S_{k,56}^2$	w_k	$S_{k,13}^2 S_{k,168}^2$	w_k	$S_{k,13}^2 S_{k,73}^2$
adenylate	2079.8	utr	2381.5	superpipelined	5652.9	xcode	2609.7	qpl	5678.2	netware	1799.2
effectors	1842.5	reticulum	1942.0	strongarm	3220.2	powerpc	2046.7	lgpl	4519.9	netbios	1543.2
antisense	1639.9	genomic	1668.6	specrate	2470.5	itanium	1500.1	trolltech	3588.4	imap	1414.0
cyclase	1638.9	homozygous	1599.1	specbaserate	1524.5	glibc	1355.1	gpl	3325.2	glut	1239.0
myosin	1201.8	cleaved	1181.0	insubstantial	1387.8	irix	1177.1	gnu	2826.1	wfw	1179.9
axons	1144.2	tubulin	1152.4	eisa	1027.8	en	1161.1	bsd	2822.7	dhcpv	1115.5
$E(S_{15}^2 S_{118}^2) = 1.95$	59	$E(S_{15}^2S_{44}^2) = 1.79$	93	$E(S_{16}^2S_{248}^2) = 1$.499	$E(S_{16}^2 S_{147}^2) = 1$.717	$E(S_{16}^2 S_{72}^2) = 1.6$	28	$E(S_{16}^2 S_{52}^2) = 2$.158
Axis 15	Axis 118	Axis 15	Axis 44	Axis 16	Ax1s 248	Axis 16	Axis 147	Axis 16	Axis 72	Axis 16	Axis 52
drugs	disorder	drugs	plants	blood	increase	blood	medicine	blood	sexual	blood	infectious
drug	mental	drug	plant	organs	increased	organs	medical	organs	sex	organs	infection
heroin	disorders	heroin	flowers	liver	increasing	liver	doctors	liver	homosexual	liver	disease
Isd	symptoms	Isd	nowering	kidney	increases	kidney	care	kidney	neterosexual	kidney	intections
w_k	$S_{k,15}^2 S_{k,118}^2$	wk	$S_{k,15}^2 S_{k,44}^2$	w_k	$S_{k,16}^2 S_{k,248}^2$	w_k	$S_{k,16}^2 S_{k,147}^2$	<i>w</i> _k	$S_{k,16}^2 S_{k,72}^2$	w_k	$S_{k,16}^2 S_{k,52}^2$
adhd	3505.8	peyote	3197.5	esophagus	2274.6	aortic	1726.9	erectile	2001.5	abscess	1932.6
anticonvulsants	3047.9	purpurea	2926.6	lobes	1462.4	brainstem	1537.1	dildo	1788.8	multifocal	1440.2
sertraline	2374.6	meo	2878.6	cava	1360.8	endoscopy	1533.7	clitoral	1481.5	hemorrhagic	1239.3
Iorazepam	1604.8	deliriants	2397.0	Ingamentum	1024.8	laparoscopic	1509.4	deferens	1432.6	esophagitis	1187.4
somnolence	1487.1	cabrerana	2393.1	vena	1011.2	cardiology	1447.4	urogenital	1344.7	mitral	1100.5
$E(c^2, c^2) = 0.16$		$E(C^2, C^2) = 0.0$		$F(C^2, C^2) = 1$	570	$E(c^2, c^2) = 1$	200	$E(C^2, C^2) = 1.4$	10	$\Gamma(c^2, c^2)$	1 405
$E(S_{16}S_{118}) = 2.12$ Axis 16	4 Axis 118	$E(S_{30}S_{112}) = 2.0$ Axis 30	Axis 112	$E(S_{30}S_{123}) = 1$ Axis 30	.570 Axis 123	$E(S_{36}S_{50}) = 1.0$ Axis 36	Axis 50	$E(S_{36}S_{73}) = 1.4$ Axis 36	Axis 73	$E(S_{168}S_{193}) =$ Axis 168	1.495 Axis 193
								1			
blood	disorder	stations	episode	stations	daily	nttp	SILE	http	1p	license	rights
liver	disorders	radio	show	radio	weekly	htm	forum	htm	protocols	opytett	act
kidnev	symptoms	broadcast	tv	broadcast	newspapers	html	photos	html	protocol	licenses	laws
	S ² .S ²	101.	S ² S ²	104	S ² S ²	101	S ² S ²		S ² S ²	101	S ² S ²
	¹⁰ k,16 ¹⁰ k,118		⁶ k,30 ⁶ k,112	~ <i>k</i>	5 _{k,30} 5 _{k,123}		5 _{k,36} 5 _{k,50}		⁵ k,36 ⁵ k,73		5 _{k,168} 5 _{k,193}
atrophy	2110.2	rebroadcast	1729.4	canwest	1941.7	sntml	1537.9	mtu stataful	1425.4	copyleft	1648.0
axonal	18/7.5	etv	1600.0	waxr	1545.4	jeancocteau	1250.3	proxying	1332.4	rightsholder	1151.9 830 7
dysfunction	1380.2	upn	1534.6	superstation	1144.2	lfc	758.0	mpls	1264.5	redistribute	809.7
neuropathy	1300.1	wxyz	1441.3	wanbao	1116.1	uchicago	644.7	vpns	798.6	copyrights	676.5
myopathy	1288.3	whdh	1392.0	aor	998.0	artchive	593.3	kleinrock	796.1	circumvention	653.3
$E(S_{169}^2 S_{72}^2) = 1.70$)1	$E(S_{44}^2 S_{121}^2) = 2.0$	96	$E(S_{45}^2S_{103}^2) = 1$.765	$E(S_{49}^2S_{193}^2) = 1$.616	$E(S_{56}^2 S_{101}^2) = 1.6$	693		
Axis 169	Axis 72	Axis 44	Axis 121	Axis 45	Axis 103	Axis 49	Axis 193	Axis 56	Axis 101		
female	sexual	plants	families	quantum	wavelength	court	rights	cpu	voltage		
male	sex	plant	family	particles	light	judge	legislation	microprocessor	electrical		
age	homosexual	flowers	older	particle	wavelengths	courts	act	processor	circuits		
infant	heterosexual	flowering	household	physics	laser	trial	laws	cpus	current		
wk	$\mathbf{S}_{k,169}^2 \mathbf{S}_{k,72}^2$	wk	$\mathbf{S}_{k,44}^2 \mathbf{S}_{k,121}^2$	wk	$S_{k,45}^2 S_{k,103}^2$	wk	$S_{k,49}^2 S_{k,193}^2$	wk	$\mathbf{S}_{k,56}^2 \mathbf{S}_{k,101}^2$		
male	1240.5	rosid	4158.0	mesons	3078 7	habeas	954.7	lsi	2589.8		
vulval	1191.4	caryophyllales	4064.1	gluons	2079.4	declaratory	823.5	microelectronic	2081.5		
faggot	981.2	dicotyledons	3652.5	photon	1648.3	conservatorship	783.1	sram	1901.2		
spermatozoon	961.5	betulaceae	3637.6	photons	1567.6	waives	753.2	mosfet	1757.0		
frot	940.6	cronquist	3636.1	synchrotron	1435.1	laches	734.4	voltages	1582.9		
tribadism	843.5	poaceae	3295.0	isospin	1414.1	talionis	721.3	microcontrollers	1554.5		

Table 9: Complementary experimental results to Table 3. For all component pairs (S_i, S_j) in the second subtree of the MST in Fig. 5, the top 6 words and their corresponding $\mathbf{S}_{t,i}^2 \mathbf{S}_{t,j}^2$ values that contribute the most to the $E(S_i^2 S_j^2)$ value are presented.