

# Trust assessment examples

## (Notes accompanying examples and code)

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### Abstract

We look at the role of trust in online life. Much of online life involves behaviours and attitudes based on text information, blogs, articles, news, chats, and changelogs for submitted transactions. Here we apply the trust model to these cases. This refers to the program code `wikipedia_history.go`.

Picking Wikipedia as a data source, we combine the HTML scrubber, the latency model, and the narrative model for text sampling, to look at the relationship between trustworthiness and trust from a third party perspective. We show how the energy model gives good results for sampling rate.

Some improvements to the narrative model are made, based on the spacetime energy approach, so as to eliminate arbitrary scales and tuning parameters. This makes the model more consistent without changing the results significantly. The results are encouraging but still need some work to understand the uncertainties. The energy model suggests a higher level of sampling in some ‘legs’ of narrative. I sketch out the association and show some examples.

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# 1 Introduction

*This is not a scientific paper. It is a set of research notes concerning the automatic assessment of processes involving text reporting, such as log messages, as this relates to the use of trust. This is part 5 of the trust project with NLnet. The goal of this project is to think about the role of trust in the cyborg age, where we're interacting with machinery in a more integrated way. In this part, we look at data supporting the model of trust described and partially implemented in code models in parts 1-4.*

An agent can't strictly measure trust for anyone except itself: we can only assess our own experiences using our own criteria. If someone else promises "It's hot!", we have to decide whether or not we would make the same assessment under the same circumstances—but without access to the same information. Since we have incomplete information about the circumstances of a remote agent it remains somewhat hypothetical. To use data from a third party source, like Wikipedia, we have to take the role of a third party observer trying to see through the eyes of interacting agents has to try to objectify phenomena by imagining that all agents think as it does. Exactly who interprets what becomes slightly complicated, and this is where Promise Theory helps to unravel the details.

## 1.1 Processes not agents

People will associate trustworthiness and trust policy with agents rather than the processes they undertake (this is wrong, but seems to be how humans are wired). We see agents as a kind of average assessment of the behaviours they exhibit, and attribute "agency" to this objective information. It's a human conceit that permeates the way we judge.

We begin with no experience at all of an agent or a process. Trust follows a simple evolutionary process itself:

- We begin with hearsay or comparison to things we know, based on whatever information we have access to: we infer initial trustworthiness by guesswork and profiling. Usually information is passed on associated with agents rather than processes. We have to accept this as inevitable even though it's not strictly correct.
- We use our initial estimate of trustworthiness, based on profiling and prejudice, to decide whether to interact with the agent at all.
- If we choose to engage in a promise relationship, we decide how closely to watch the processes of promise keeping, i.e. how much attention resources to invest in the promise from there on.
- Based on actual experience, filtered by how carefully we watch, we adjust our assessment of the agent's trustworthiness, and thereafter adjust the rate of attention in a feedback loop.

A decision to forego attention and inspection, during a process we depend on, is the true nature of trust.

As a reader you probably find yourself skimming this text impatiently, assuming that much of the detail is of no interest—padding and massaging of context that you may already know, or which doesn't interest you on first pass.

Choosing to maximally another trust may well be untrustworthy as a guide to the assessments of outcomes one hopes for. This is the paradox and the balance between trusting and depending on agents. Trusting is independent of the decision to depend on a promise. We muddle these issues constantly, and write off the whole thing as a complicated moral issue to avoid thinking too much. We use the language of trust (both loosely and judgementally to point fingers) in connection with assessments.

## 1.2 Role of promises

How can we tie these ideas to measurable quantities, in the form of a hypothesis? Our interest here is to apply a specific model of trust based on Promise Theory to see if it makes trust judgements more computable and more helpful for scaling assessments of processes between agents in collaboration, particularly where some parts of a system are human and some parts are machine.

We can observe agents' behaviours and outcomes and use that to try to infer intent only through the lens of promises. Is the intent of the agent aligned with mine (or equivalently some idea of what intent should be). Does the agent promise something I need either explicitly or implicitly?

**Example 1 (Trust in AI)** *Recently, there's a discussion about whether we can trust "AI". We mean, do we find AI trustworthy enough to use it? Then, will we believe its answers without checking? Trust in AI is only a thing because it's now a promise being made. If we didn't know that AI was involved, we wouldn't care—it would just be rolled into the cooking.*

We implicate trust often when we'd like to make a comment about ethics we don't like, like AI.

- If we judge outcome, we don't much care to look at how it was achieved.
- If we judge company ethics, we don't care too much about assessing the outcomes.

In either case, people will take one and use their assessment for the other. This is what makes trust an untrustworthy gauge, especially if we're looking for logical certainties.

Expressing one's trust in another may be taken in one of two ways: to underline the importance of being worthy and keeping promises, or as an opportunity to exploit the absence of attention.

### 1.3 Logs, journals, and other stigmergic trails

How to test these ideas? Since it's not easy to get access to information about sensory inputs or internal judgements, we have to look where the light shines: public information about user interactions.

A lot of our online life is based on trust in public information rather than in transactional services delivered by APIs. This includes news, documents, blogs, Wikis, chats, conversations etc. These are generally closed platforms, governed by privacy laws, so we can't analyze them directly. One exceptional source of data lies in public changelogs for Wikis and open source repositories. Although not designed to be analyzed in this way, Wikipedia is an interesting case because it's all based on human language, which is easy to recognize and assess.

We leave behind trails of evidence to examine as a record of what happened. We have to apply trust to these by scanning them and looking at the timing and intent of messages. Intent can be measured by the amount of work done (in a particular direction), and if one change opposes another (the directions oppose).

Log messages include registration or transaction ledgers, error messages, visitor books, etc. The information added to these might be structured or free form. For assessing the content at scale, it's of interest to automate the assessment as much as possible. Another source of logs would be code repositories (github etc) and system error logs. System error messages on shared computers used to give such access. Today, most computers are virtualized and isolated.

Some 'log' messages are preformed with parameters following a template. These could be compressed into a single symbol with parameters, but instead systems dumped in explicit and redundant detail as repetitive waste, which then has to be analyzed at high cost (something like emptying rubbish into landfill without sorting, then trying to establish a picture of the state of society). There's huge scope to rationalize this in the industry today.

### 1.4 Wiki: narrative in content and process

In this work, we therefore turn to Wikipedia for data about trust and mistrust. Wikipedia is made up of entirely voluntary contributions from users. It's a prime example of voluntary cooperation, in the Promise Theoretic sense, and its data are open and inspectable to all. That makes it a rare and valuable source of data for study.

- Each article is started by someone with an interest in seeing the information, but gradually it attracts the attention of others as well as a cluster of automated "bots" programmed to find errors and mischief.
- Once a new article is discovered by others, changes will be made, corrections and improvements will be added. These edits tend to cluster into bursts of activity, punctuated by longer intervals of inaction.
- All the information is logged so we can see how this process unfolds.

What does trust have to do with Wiki editing? The answer is complicated, but it starts with whether or not authors write reliable information in an online society of shared interests.

What does reliable mean? From a Promise Theory viewpoint, it has to do with keeping a promise consistently. There's an implicit offer (+) promise that authors make:

- I promise that my information is accurate, impartial, and documented with references. Authors are never asked to promise this explicitly, with their hand on a favourite book, but Wikipedia editors and moderators expect this, and thus only promise to accept (-) contributions that they assess to keep this promise. This mutual alignment of intent is what makes promises important, like a potential or force in physics.
- There are more implicit promises too: I promise not to write about myself or promote something as simple marketing, only to report referenceable facts. The effect of this promise is not always what the editors may intend: by this rule, it's okay to refer to idle rumours spread by tabloid news muckrakers, but it isn't okay to report first hand information like a witness or informant. The editors trust anything published, but not individuals.

However much we may question the consistency of these promise decisions, these are the promises that Wikipedia expects authors to uphold.

Trustworthiness (potential trust) is i) the extent to which an article yields accurate information, and ii) the extent to which the editing process keeps the implicit promises above. We're confining the example data to processes of editing content, using Wikipedia as the example due to its open data. So we're looking at:

- Trustworthiness of content.
- Kinetic attentiveness when reading content.
- Trustworthiness of agent changes involved in the process of editing.
- Kinetic attentiveness to the contentious process of free-for-all editing.

The goal here is to see whether the straightforward definitions about process assessment, described in the earlier installments, lead to reasonable assessments of data. Getting data is not easy. We're looking for some kind of narrative in the world, to read and understand. Narrative can take many forms: from words, to notes, to slides, to traces left behind in archaeology or by ants, etc. If we're looking at specific human-machine interactions, then there's usually some process log to look at, thanks to our predilection for administration and bureaucratic thinking.

Note: it matters who reads that trail left behind for someone. In general, we only have access to our own thoughts and assessments to make about these data. For a third party to make a assessment about others' interactions, one is reliant on the promise of accurate information, something like an archaeologist trying to uncover a past he or she didn't experience at first hand from clues left behind.

## 1.5 Data from two pages per topic

Each Wiki topic has two pages:

- An article text, whose content promises to explain a topic.
- A log of change history about the article than promises to describe the interactions of users in editing. We take the last 1000 entries from each.

We can scan both of these as dynamic-semantic time series, as described in the previous parts of the project. When one user trusts or mistrusts another, in the context of these processes above, it might choose to work with or against the other—adding to or reversing changes. We can assess this “contention” between users both by looking at the timing and the changes. Finally, we can assess how much of the article and the history a third party may need to see in order to trust its assessment of the process. So we can measure:

- Trust about the information provided from a collective process to an observer.
- Trust between users participating in a shared promise (how trust scales in groups).

To infer these details, we look at the dynamics of the processes as time series (see figure 2).

## 1.6 Space and time in process trails: events, bursts, episodes

A basic assumption in the present model is that trust related to promises, which are intentional statements of work. So we associate events relating to processes to keep promises with the definition of intent as a form of work. Work can be writing text or changing text, indeed arguing about text. Trust is about reducing the overhead of this work towards the keeping of a promise.

**Definition 1 (Contention (quarrelling) is work activity)** *Contentiousness is a measure of work expended in a process. Hot activity indicates contention or interest (which is a form of mistrust seeking to equilibrate).*

Not all work is contention, but contention typically gives a burst of work because it resonates between its participants. The significance of work towards a goal is a frequency dependent thing (see figure 1). In the context of a Wiki, changes are registered in the form of text—symbolic encoded streams of data.

**Definition 2 (Spacetime process)** *We are looking for the tempo (timescale) of a symbolic process (spatial variation). We call the tempo of sampling the sampling velocity, since it involves a pattern in  $x$  traversed over an interval of time  $t$ .*

For a stream of information, space and time are coupled strongly into a thread.

What comes out of many anecdotal cases is the significance of a frequency bias curve (see figure 1), where an optimal maximum (not too many) is the key to establishing trustworthiness in others. Similarly,

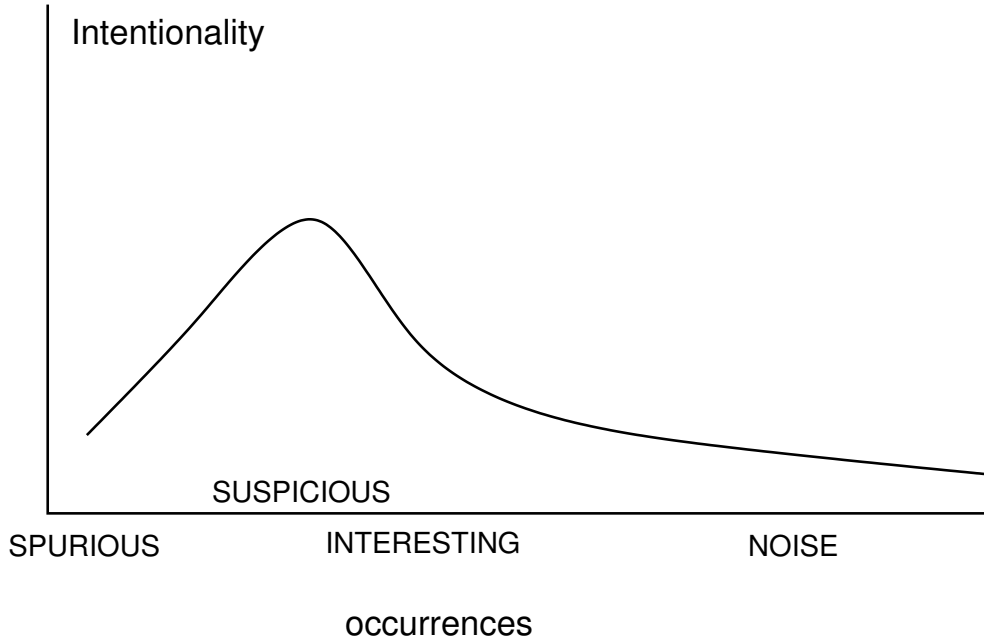


Figure 1: The frequency spectral bias for work and intent. Events that occur sporadically are not strongly intentional. Events that are repeated intentionally peak at some maximum level per unit length. Events that occur too often are simply background noise.

for the policy of sampling selection has an optimal rate.

Short ledgers, like exception logs, transaction logs, process tracing etc, have to rely a lot on signals with well-known semantics, because they are neither expressive enough nor coherent enough to tell a story on the basis of a form of free language. They are like hieroglyphics. Discourse, at a larger scale, is the case in which we can use trust as a tool to extract a summary with a coherent gist, in a continuous manner consistent with summarization. Sparse signalling is already a summary of an underlying and unobservable narrative.

The assumed idea tempo, or time rate could in principle be set as a fraction of the total length of a document, but this makes too many assumptions about cognitive intent per document. I take the basic process velocity to be:

$$\text{leg window} = \frac{\text{total events}}{\text{paragraphs}} \mapsto c \quad (1)$$

assumed to represent an average idea duration. Dimensionally, this takes on the role of a maximum accomplishable speed (like the speed of light in mechanics): a dimensionless measure that lays the foundation for defining time locally. In terms of the semantic material context, it's a density of importance, set to 100 for narrative and 10 for ledger style commentary notes.

Let's clarify the spacetime model for trust, proposed in [1]. We should remember that we are judging processes not people or things and that there are two parts to trust: assessing starting conditions and running reliability as "trustworthiness" (an action potential), and choosing a rate of sampling for the evidence to avoid consuming unnecessary resources (kinetic attentiveness).

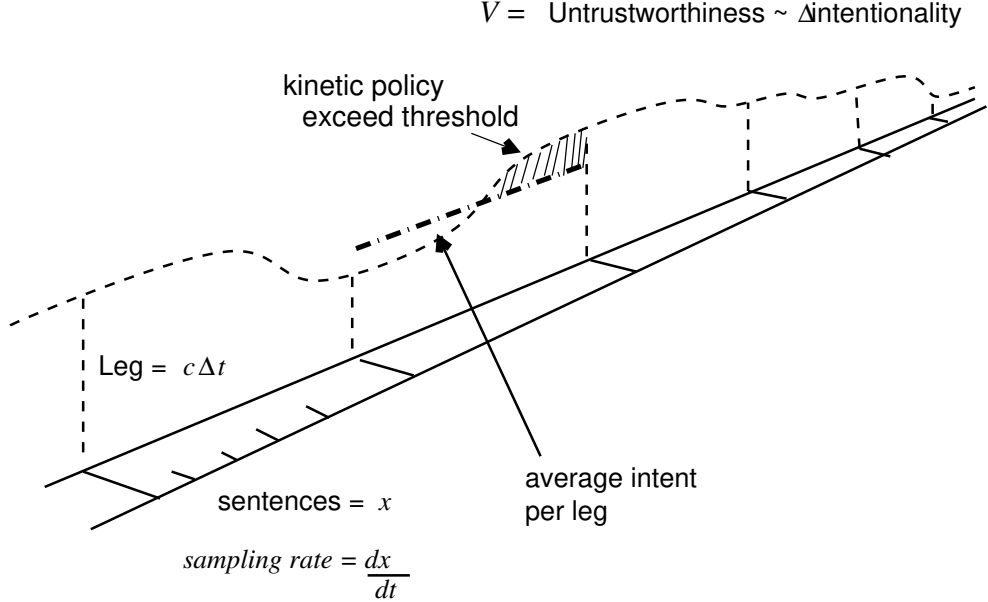


Figure 2: The scales for parsing a stream of sentences, composed from symbols as a linear process. We use these rates to define 'energies' or activity levels.

Similarly, for the policy of sampling selection has an optimal rate.

## 1.7 The energy hypothesis for relating trustworthiness to kinetic sampling rate

How shall we choose how much of a stream  $\Delta x/L$  to sample over a time interval of the process  $\Delta t/T$ ? This choice is equivalent to a process velocity for the receiver as a fraction of the story told by the complete symbolic distance. There is thus a kinetic energy associated with this velocity, like its square. This gives a notion of kinetics.

We can also define the potential "energy" content invested in the "activity" associated with the production of the text. This is a different kind of work than merely reading. Promise keeping by matching rates of work done by the text (length  $\times$  frequency) summed over the stream by the source is summarized as a composite field  $V_S(x)$ . We calculate this by summing the effort required to produce the spectrum of  $n$ -grams in the stream, something like a bioinformatic DNA analysis.

This is delivering a promised result between a source  $S$  and a receiver  $R$ . The potential from the source drives the kinetic response in the source.

$$\Delta V_S \mapsto \Delta T_R. \quad (2)$$

Let's define the potential from the intent of the source to break its promise by

$$\Delta V_S = I_S \rho c \quad (3)$$

where  $I_S$  is a constant scale factor for impact or 'inertial weight' of the source, with the dimensions of intent (momentum).  $\rho$  is a fractional probabilistic rate of promise breaking

$$\rho = \frac{\alpha_R(\pi)}{\max(\alpha_R(\pi))}, \quad (4)$$

which has the form of a utilization or traffic intensity in queueing theory. and  $c = \max(dx/dt)$  is the constant maximal rate of events per leg (something analogous to the maximum speed of bodies in mechanics). In the code, I call  $c$  the `LEG_WINDOW`, which is about 100 sentences per leg for long form text and about 10 sentences per leg for short form notes.

This can be balanced by the kinetic response for the rate of event selection  $\delta x$  per unit time  $\delta t$  measured by the observer's clock.

$$\Delta T = \frac{1}{2}m_R v_R^2 = \frac{1}{2}m_R \left(\frac{dx}{dt}\right)^2 \quad (5)$$

So if we equate these, we find the velocity sampling rate

$$v = \sqrt{\frac{2I_S c}{m_R}} \rho = \text{const} \sqrt{\rho c}, \quad (6)$$

The rate thus depends on the relative influence (or inertial ‘intransigence’) of  $S$  over  $R$ :  $I_S/m_R$ . This is a coupling constant between autonomous agents. If uniform across all agents, by some coherence promise, then the source impact is proportional to the sum of work done to create the source stream. For text this involves the lengths or words or the number of strokes in glyphs.

Note: that the responsiveness to external impulse is resisted by the effective mass  $m_R$ , so we can identify  $1/m_R$  as a measure of the recipient agent's ‘agility’. Mistrust increases agility—this might be upsetting to Agile supporters who want to view agile as a moral imperative, filled with goodness, but it's natural that an attentive agent is an agile agent and an attentive agent is relatively mistrusting of the domain it watches over.

We use this as guide to policy for selecting the amount of detail we sample per leg is chosen as a probability for exceeding a scale-free threshold of intent:

$$\Delta V \mapsto \frac{1}{2}mv^2 \quad (7)$$

determines a process velocity  $v$  for event selection (micro-inspection).

```
detail_per_leg_policy = int(0.5 + math.Sqrt(float64(LEG_WINDOW) * scale_free_trust))
```

```
fmt.Println("Dynamic kinetic", detail_per_leg_policy, "/", LEG_WINDOW)
```

## 1.8 Trust monitoring, episodic punctuation

As a data test, we attempt to evaluate all these signals and report on the detailed instrumentation of all the channels available from the Wikipedia.

For the specific issue of trust, the signals and behaviours of different agents can be viewed as a stream of communication that we would like to be able to interpret with respect to the keeping of promises. As a third party observer, we might not know what the promises are, and yet we ask if we can determine when they are probably kept and probably not kept.

- This is the conundrum for monitoring systems, which are still extremely primitive.
- It's also the conundrum for human processes.

For each specific system, it's possible to create rule based analyzers or machine trained classifiers to ask certain questions. AIOps is now a marketing term, but it seems little has come of it to date. In this project, we look at low level generic potentials (trust) and ask if these can be helpful in classifying states. This was started in work [2–4] and recently the success of large language models has enabled similar results to be rediscovered [5, 6].

The text is not the only channel of information on which a third party could base its assessment of trustworthiness. For the content text:

1. The time between edits of a particular user (latency patterns) indicating attentiveness to process.
2. Do-undo error correction cycles If successive changes are basically undo the last thing that was done, this is a sign of process contention.

It's not clear that individual identity is the right level of agency in a shared process. When users are tussling over a particular point in a Wiki, the whole group could be viewed as an unreliable party. We should examine the trustworthiness of groups in episodes rather than individuals as a persistent characteristic.

The key to this is detection of 'episodes', whether in a story or other signal. An episode is a burst of activity, delimited by a relative calm—a punctuated burst.

To detect bursts, we develop a notion of punctuation rules for semantics at different scales, in terms of process dynamics. The insight of Promise Theory is that we should view what happens in terms of processes, not agent identities. We can use the spectral methods in the previous parts for this.

## 2 Third party assessment based on symbolic interferometry and inference

For Wikipedia processes, analyzing objective data, we're stuck in the role of a third party observer. This is where all technology for monitoring or alerting resides, so it's the interesting case for looking at assistive technology.

Once again, it's worth remembering the status of these observations is that of a third party looking on to a stigmergic trail. Two parties  $S$  and  $R$  are involved in a promise both play a role in equilibrating their sense of trust in one another. In different parts of the overall process the roles are roughly:

- $S$  is an author or moderator.
- $R$  is a Wiki page or reader.
- $T$  is a log watcher, moderator, reader, etc

A third party  $T$ , on the other hand, has no role of play except as a bystander and therefore is inert and impartial. Nonetheless,  $T$  must also be able to assess whether  $S$  and  $R$  seem trustworthy with respect to one another and then make inferences and speculations concerning other contexts, as one does with reputation etc. Setting aside all the other approaches as inappropriate, except as discussions of viral reputation, we just go back to the model developed thus far and start again.

- Logs are interactions in a promise keeping loop. In a Wiki, promise keeping events are logged changes. A way to look for changes in persistence, anomalies etc, is to use interferometry based on the methods developed in the previous installments.
- The difficulty researchers face in understanding social science issues like trust etc, is that we find it hard to separate the semantics we think we "know" from the dynamics that we see. These operate on different scales. Semantics have their origins in dynamics, but impact on a different level (a coarse scale that's calibrated by generations of contextual selection).
- A third party looking on with a telescope can't really know what the agents are feeling or deciding (i.e. their interior state). Its assessments can only be based in its own interpretation of the behaviours. In the end, this is what every agent does, so we are looking for a possibly universal set of triggers that are interpreted in varying degrees as markers of trustworthiness etc. It's not unreasonable that we would share a set of such markers, passed on a evolutionary memory. Such characteristics are well documented in species, in spite of political efforts to dismiss inherited traits.

### 2.1 Special event signals

Apart from the general pattern analysis, there are some language specific signals that we can look out for. These are generated by bots, or are implicit in the statistics on history pages,

- Key words to watch out for as signals of contention, generated by bots in standard forms: vandalism, revert(ing/ed).
- Contention refers to issues per unit length of the written article (not the change process).
- Bursts of editing in short measure undoing one another's changes, either in total or in sequences of reversals. We know whether text was added or deleted, so we can match the sizes and guesstimate the likelihood of a reversion without explicitly examining all the versions.







Adding short description : "Internet public benefit organization" Shortdesc helper.  
Add a lede to summarize current status. Rescuing 1 sources and tagging 0 as dead.

>> (Rank leg interest potential (anomalous intent) 1 = 0.6917993151531419 )  
>> (Dynamic kinetic event selection velocity 3 (events per leg) 10 )

EVENT[Leg 1 selects 14]: in supported projects. Added Libre-SOC, which credits NLnet  
for helping accomplish first-ever open source OpenPOWER processor production. v2.

EVENT[Leg 1 selects 15]: 04b - Bot T20 CW

EVENT[Leg 1 selects 16]: 61 - Fix errors for CW project Reference before punctuation.  
Corrected the legal status and organization type in the infobox. Add logo to infobox.

-----  
Notable events = 16 of total 38 efficiency = 237.5 %  
-----

----- Sumarize ngram Intentionality threshold selection -----

1 eunet 4 4 ----- 1.5716699660851172  
1 benefit 3 3 ----- 1.6845861659730217  
1 netherlands 4 4 ----- 3.457673925387258  
1 organization 5 5 ----- 4.6111487009941055  
1 standards 3 3 ----- 2.1658964991081704  
1 reference 4 4 ----- 2.829005938953211  
1 research 3 3 ----- 1.925241332540596  
1 europe 3 3 ----- 1.443930999405447  
1 added 7 7 ----- 2.558705025205017  
1 development 3 3 ----- 2.6472068322433193  
1 infobox 3 3 ----- 1.6845861659730217  
1 nlnet 14 14 ----- 4.021097617681614  
1 status 3 3 ----- 1.443930999405447  
1 website 3 3 ----- 1.6845861659730217  
1 which 4 4 ----- 1.5716699660851172  
1 network 5 5 ----- 2.6898367422465617  
1 using 5 5 ----- 1.921311958747544  
1 public 3 3 ----- 1.443930999405447  
1 dutch 3 3 ----- 1.2032758328378725  
1 stichting 6 6 ----- 4.051404570213635  
1 links 5 5 ----- 1.921311958747544  
1 subsidiary 3 3 ----- 2.406551665675745  
1 supported 3 3 ----- 2.1658964991081704  
1 source 3 3 ----- 1.443930999405447  
1 internet 11 11 ----- 5.681775494787  
1 worlds 3 3 ----- 1.443930999405447  
1 first 3 3 ----- 1.2032758328378725  
1 foundation 6 6 ----- 4.501560633570706  
2 had just 3 3 ----- 1.925241332540596  
2 link 4 4 ----- 2.514671945736188  
2 add 4 4 ----- 2.2003379525191646  
2 added 3 3 ----- 2.1658964991081704  
2 public benefit 3 3 ----- 3.3691723319460434  
2 stichting nlnet 3 3 ----- 3.6098274985136176  
2 nlnet was 3 3 ----- 2.1658964991081704  
2 12 12 ----- 5.2286583820955785  
2 links 3 3 ----- 2.1658964991081704  
3 4 4 ----- 3.457673925387258

----- Emergent Longitudinally Stable Concept Fragments -----

Particular theme/topic "first" (= 1.203276)  
Particular theme/topic "dutch" (= 1.203276)  
Particular theme/topic "source" (= 1.443931)  
Particular theme/topic "status" (= 1.443931)  
Particular theme/topic "research" (= 1.925241)  
Particular theme/topic "nlnet was" (= 2.165896)

```
Particular theme/topic " added" (= 2.165896)
Particular theme/topic "supported" (= 2.165896)
Particular theme/topic "subsidiary" (= 2.406552)
Particular theme/topic "network" (= 2.689837)
Particular theme/topic "stichting nlnet" (= 3.609827)
```

```
*****
* SUMMARY
* Total contentious article assessments for NLnet = 0
* Contention per unit length = 0
* Process history length = 17
* Total users involved in shared process 49
* Change episodes with discernable punctuation 5
* Average episode size (notes/remarks) 12.6
* The average time between changes is 352379.65046698274 mins 244.70809060207134 days
*****
```

More examples of long output of the results is sampled in the appendices.

### 3 Results

We can't scan every page on Wikipedia. Even if we could obtain the list, it would be impractical and unnecessary. A Monte Carlo random sampling approach should suffice to find the general features of the results. Either showing a pattern or showing no pattern. Choosing a random selection of pages, deliberately looking for pages of different kinds, we get the same results in the table below.

- We might expect politically charged pages to lead to contention; less expected are pages like Quantum Mechanics and lesser known countries like Estonia. However, our naive expectations overlook the large population effect: on a world wide scale, there's always enough people to find a topic interesting to lead to contention. Fighting over quantum mechanics is even more pronounced than for a popular figure like Michael Jackson.
- Humans will fight over almost anything. Some of the contributions explicitly announce their intent to cause trouble, with names like "troll" etc.
- Total contentious assessments is calculated as the sum of reverts (implicit and explicit, citations needed, mentions of vandalism). Calculating per unit length gives "contention" in the table below. This appears to be more stable. It seems reasonable that the longer an article is, the more contentious issues there might be.
- The number of altercations varies a lot, but the length of these bursts of activity is remarkably stable at around 10 changes, before dying down. This suggests that there might be a hidden scale for 'relaxation time'. Only one anomaly was found in "Air", which was added with a single burst of small changes some years ago, then folded into a larger page about the atmosphere.
- The ratio of log change messages to actual text is another indicator of the amount of contention. The larger this number, the less trusted the edits are by one another and thus the less trustworthy the process, in principle. However since the messages are assessments by unequal agent sources, on hearsay, we can't really compare the numbers exactly for different articles.

Note, one limitation of the study is that episodes are those counted over the last 1000 entries or fewer on a history. This goes back a number of years already. Given a topic, selected by entering the URLs for main page and history page, we parse the HTML to extract the content, stripping out page headers and formatting, e.g.

```
*****
* Mainpage for Promise Theory -- length 12408 chars
* Sentences 106
* Legs 1.06
*****
```



$L$	length of article text
$H$	length of history discussion
$N$	number of users in history discussion
$I$	number of flagged issues counted in history
$I/L$	issues per article length
$I/N$	issues per user
$I/N^2$	issues per user network
$H/L$	history process per article length
$s/S$	sampling ratio of history to article
$E = S/L$	sampling rate per unit length of article (trust)
$e = s/H$	sampling rate per unit length of history (trust)
$e/E$	ratio of relative samplings (trust efficiency)

Table 2: Data legend for symbols used in the graph output.

inertia (figure 1).

```

1 behaviour 11 11 ----- 0.7139040262426345
1 promises 24 24 ----- 1.3329337730074187
1 autonomous 7 7 ----- 0.5103615456445146
1 agents 19 19 ----- 0.8034100957178238
1 promise 43 43 ----- 1.9639932812001608
1 obligation 7 7 ----- 0.5103615456445146
1 burgess 8 8 ----- 0.4071806011510326
1 theory 32 32 ----- 1.299832043977964
1 systems 8 8 ----- 0.4071806011510326
2 autonomous agents 5 5 ----- 0.623067126853029
2 voluntary cooperation 3 3 ----- 0.4642570143750548
2 an agent 7 7 ----- 0.40828923651561166
2 promise theory 28 28 ----- 2.6878660466379554
2 one another 4 4 ----- 0.32338794376526825
2 promises about 3 3 ----- 0.3095046762500365
3 promise theory in 3 3 ----- 0.37582710687504434
3 method of analysis 4 4 ----- 0.5291802716158935
----- Emergent Longitudinally Stable Concept Fragments -----
Particular theme/topic "promises about" (= 0.309505)
Particular theme/topic "information" (= 0.323388)
Particular theme/topic "one another" (= 0.323388)
Particular theme/topic "technology" (= 0.366510)
Particular theme/topic "promise theory in" (= 0.375827)
Particular theme/topic "burgess" (= 0.407181)

```

For the separate channels of meta information, we see how changes are done and undone by different users, indicating their activity levels and levels of mutual mistrust.

```

----- EDITS -----
.. Effective undo of Ouc by ShelfSkewed
.. Effective undo of Ouc by Ouc
.. Explicit undo of Hazitt by Melcous
.. Effective undo of Hazitt by Melcous
.. Explicit undo of Hazitt by Melcous
.. Effective undo of Hazitt by Melcous

```

```

----- EDITS -----

```

```

Ranked number of user changes: number and average time interval
>           Melcous (12)   av_delta 4.59 (days)
>           Hazitt (10)   av_delta 1.95 (days)
> Chiefhuggybear ( 6)   av_delta 405.64 (days)

```

```

> Markburgess osl ( 5) av_delta 33.17 (days)
> Ouc ( 4) av_delta 33.67 (days)
> Feline Hymnic ( 4) av_delta 0.00 (days)
> Citation bot ( 3) av_delta 366.15 (days)
> MarkBurgess ( 2) av_delta 0.06 (days)
> KolbertBot ( 2) av_delta 83.91 (days)
> ShelfSkewed ( 2) av_delta 2933.96 (days)
> GnniX ( 2) av_delta 57.33 (days)
> Yobot ( 2) av_delta 815.09 (days)
> Sigmundur ( 2) av_delta 0.05 (days)
> Diego Moya ( 2) av_delta 52.33 (days)

```

..

Reversions (agents exhibiting contentious behaviour)

```

R Melcous (4) of 12 after average of 365.40 mins
R ShelfSkewed (1) of 2 after average of 0.00 mins
R Ouc (1) of 4 after average of 0.00 mins

```

Reversions of text by users, either explicitly by undoing a change, or implicitly by editing away bit by bit can be detected from the change logs. Finally we can end up with a score for process contention between agents, simply counting the number of events in which content is considered controversial by some agent.

```

*****
* Total contentious article assessments for Promise Theory = 6
*****

```

### 3.1 Special articles mentioned by Wikipedia

Wikipedia flags several pages as being of special interest, because they have attracted special attention or because they are very long, etc. This shouldn't matter to the analysis. Some pages from these lists are included.

[https://en.wikipedia.org/wiki/Wikipedia:Neglected\\_articles](https://en.wikipedia.org/wiki/Wikipedia:Neglected_articles)

[https://en.wikipedia.org/wiki/List\\_of\\_Wikipedia\\_controversies](https://en.wikipedia.org/wiki/List_of_Wikipedia_controversies)

### 3.2 Trust is dominated by process dynamics

We can plot a number of graphs based on samples of the Wiki pages. Initially, 272 randomly selected pages were scanned and analyzed in the manner described and statistics collected to determine what kinds of testable propositions might be discernable from the assessments based on the sampling. A longer sample needs to be tested, but we can already see the patterns forming.

Trust is a a rate trading mechanism for coarse graining information. What comes out of this is that trust, in the sense of foregoing the opportunity to follow every change in the environment, is a meaningful strategy, since information is bursty in nature with a lot of padding. Thus an agent can recoup the loss of complete immersion in data by sub-sampling without significant penalty in the long term.

There is a relationship between our assessments of trustworthiness in processes or agents, as a basis for choosing a level of kinetic trust to invest in a process, but ultimately these are quite separate things. Just as electromagnetic energy is independent of mechanical energy until they become entangled through interaction, trustworthiness assessments of kept promises are independent of the observation of processes involving those promises.

The justification for treating trust as a kind of energy, in sampling processes, is that the rate of work is basically constant over the proper time of the changes. If work is constant then then energy in flux is constant too. So, as with physical systems, it's the counting of change that we define as time that leads to the effective conservation of the complementary potential.

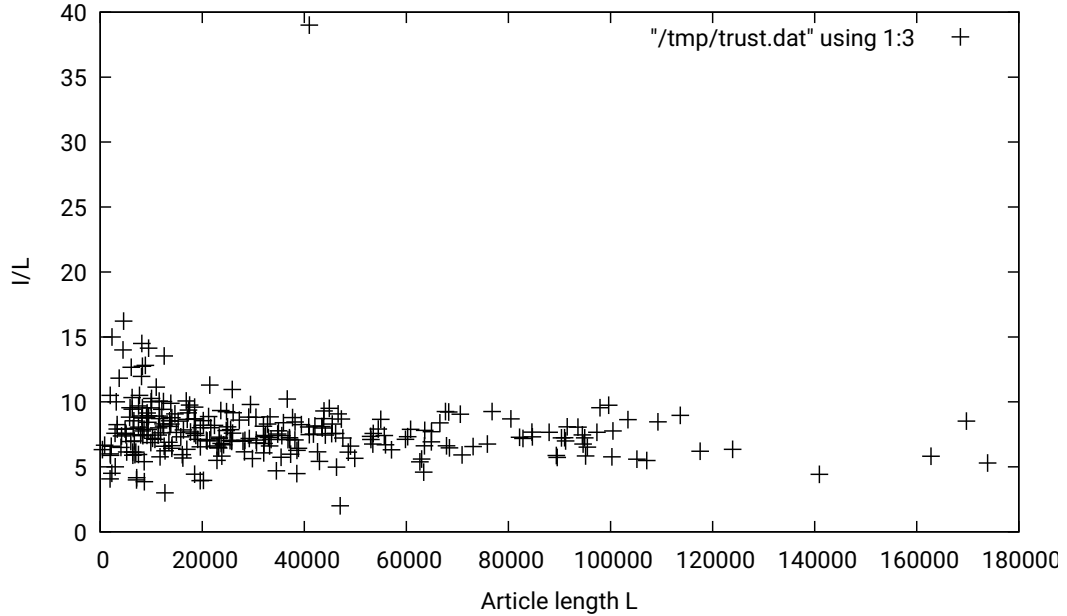


Figure 3: The scaled contention per unit length is noisily constant. This is interesting because it implies that contention is not related to subject but to groups a shared process, i.e. human interaction. There is more noise in the measures for smaller articles due to the coarseness of rescaling.

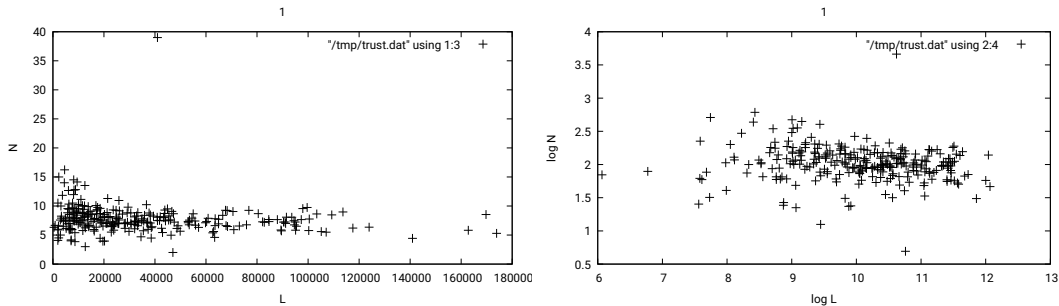


Figure 4: Relationship between user contributors per episode and article length, as pure  $\langle N \rangle(L)$  on the left and a log-log version on the right. The number of users per unit length is noisily constant.

## 4 Literature recheck

A few new papers popped up. The literature on trust is large [7], but it's dominated by moral discussions and mathematical representations. These hardly overlap and seem to endlessly repeat the same lack of progress. The desire to calculate an 'answer' in the form of a number is strong in all researchers. Several new references have emerged lately: [8–10]. No new insights from these papers. They are still looking for ways to represent ad hoc trust in the traditional sense, so I won't spend any time on them.

## 5 Summary

It's not easy to summarize all the interesting data in so many pages of human interaction in a concise way, so we ignore much of the output used from the analysis here and look at the broad overview and apparent conclusions from a limited study. Most of the effort in this work has gone into the technical issues of parsing the text sources and working out the details of measurement, counting, and sampling.

The conclusions? Humans will fight over almost anything. Trustworthiness is the result of trusting as well as boundary condition on new trust. We see this very clearly in the many pages of collaborative output on Wikipedia. It's interesting to try to predict trust levels in processes through contentiousness



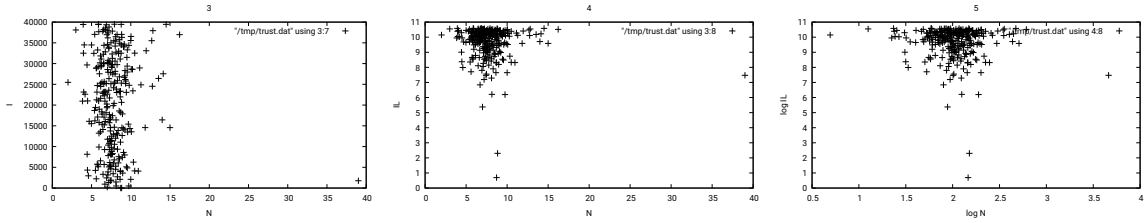


Figure 5:  $I(\langle N \rangle)$ , the dependence of contention in shared editing as a function of the average number of users per episode of editing. Editing is episodic or bursty and not all users are involved in every burst.

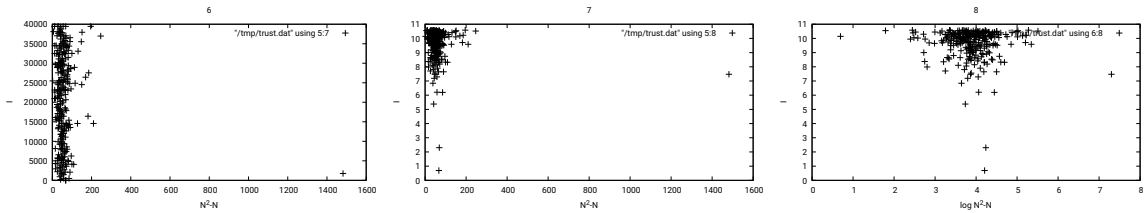


Figure 6: Relationship between average episodic clique size  $\langle N \rangle(\langle N \rangle - 1)$  and contention in shared editing. This shows that clique size is quite constant and that contention is largely constant too, indicating that it doesn't matter who is involved in editing on average. Most issues will tend to attract a level of contention from somewhere.

on different topics. I frequently get this wrong. For example, a composer like Beethoven is well known. Another like Mahler might be contentious owing to Nazism during the second world war, while an apparently less popular composer like Grieg would seem less contentious. The opposite seems true, however. Grieg is more contentious than Mahler, and even Beethoven is ranks higher is mistrust. Perhaps nationalistic fervour or simple ego lie behind these variations. What seems clear is that trust between agents doesn't necessarily predict trustworthiness of the final result. The quality of these pages seems high in all cases. Yet that does nothing to prevent future tussles. *If nothing else, this underlines the independence of kinetic and potential trust.*

Trying out the algorithms on Wikipedia data is a challenging task, but it seems to give reasonable results. There are still some difficulties in the parsing of HTML which has become a highly complex form of markup. Articles like that of Quantum Mechanics are quite difficult to parse due to the many sub-languages and special formatting options. Nevertheless, the algorithm mostly yields sensible results. The sentence buffer occasionally gets overrun by confusion over punctuation.

The results for which pages are most trustworthy are sometimes surprising. One doesn't see all the infighting for pages unless contributing oneself. The page for Quantum Mechanics makes the pages for Michael Jackson and George W. Bush pale into apparent consensus in terms of the contention over text. While this might be partly due to the complexities of formatting something mathematical, it's notable nonetheless.

In practice, one can apply a threshold cutoff to provide a minimum requirement for interest in a leg of a document. Without this, the summaries tend to be longer than perhaps desirable if one is impatient. The advantage of not doing so is to make the algorithm more even (perhaps fairer) in spacing out samples.

Since there is no correct answer for whether to trust users, pages, or by how much, we have to inspect by eye. Wikipedia doesn't have specific rules for what changes are accepted, i.e. promises to which authors can align. In other words, there are no firm conclusions to derive from data. Some lessons can be learned from the experience though.

- There is no obvious formula for trust that gives a meaningful prediction or advice to a particular agent. If there were, it would be a fully deterministic calculation over all data, and would thus have no benefit over complete inspection of all data.

Since the point of trust is to forego such a complete inspection, its contradictory to look for such a formula.

- The potential, kinetic approach proposed in [1] is applied here and yields a stream with a tunable level, but reasonable constants seem to work well for all documents. The square root relationship

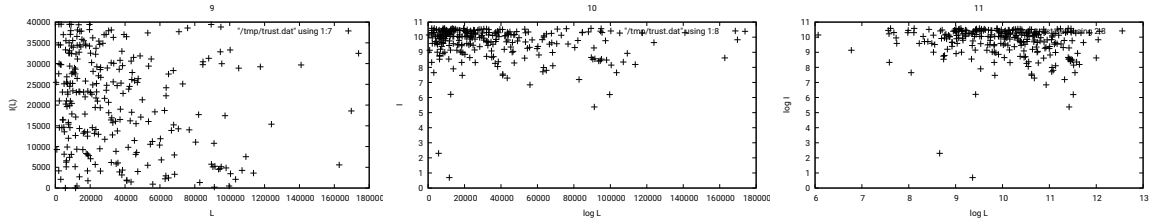


Figure 7: Contention as a function of article length (partial proxy for time)  $I(L)$  in three graphs:  $I$  versus  $L$  on the left,  $I$  versus  $\log(L)$ , and  $\log(I)$  versus  $\log(L)$ . The log-log plot seem most compact, suggesting a general power law relationship, which is also expected on probabilistic grounds. This tells us (again) that the tendency for contention is independent of time or subject: it's a basic human phenomenon.

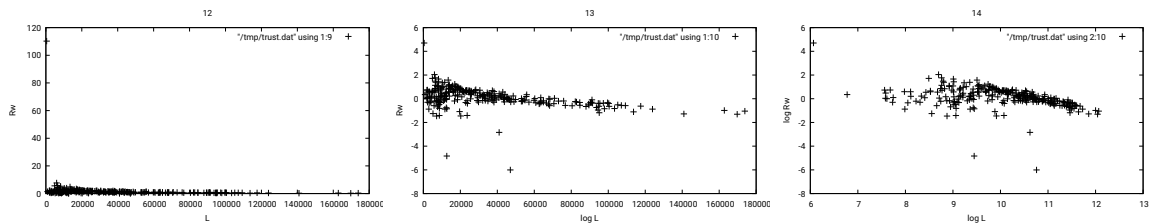


Figure 8: Edit rate per unit length of article  $H/L$  relaxation of edit changes per article length as raw, log, and log-log plots. This potentially tells us that the growth or decay of the edit process with time. However, it's unclear whether this is an exponential decay or a power law. Both graphs are equally noisy. There is more contention per unit length for small articles, as an artifact of scaling and novelty. There's no strong straight-line relationship in any of the versions of the graph.

works surprisingly well to yield a human-eye judgement to my subjective glance.

- When people leave process notes and log messages, they pay little attention to clarity or pedagogy unless they are trying to win an argument. For these, measuring a level of contention tends to dominate over the content. We have no obvious way to tell whether this combative approach leads to reliable information or not. Again, these are ultimately subjective assessments and the role of trust is to guesstimate the significance of an outcome based on a partial sampling of dynamics.
- There is no particular correlation over time between a history of promise keeping and the reliability of a service now. In other words, trust is not a memory process, per se. Users may behave poorly or well over different times. This is not an immutable characteristic of an agent, but a symptom of something that we likely have no information about.
- Trust is meaningless without specific promises, but we don't always know the precise promises an agent makes.

Where we see trust failing ambiguously to reflect our expectations, it's because we are not focusing on the right promises. Either they were unclearly stated, or we are looking in the wrong place and making up promises as we would like to have them, The exchange currency aspect of trust leads us to muddle the promises we are attracted to.

These tests on field data were meant to validate the model. They don't contradict it, so it seems consistent. Active trust determination has minimal and maximal extrema fro semantics:

- Minimum mistrust policy = due diligence
- Anomaly pique interest and curiosity, turn up attention level.

We are not machines and we operate on speculation much of the time. Often we imagine that certain promises are given because we would like it to be true, when in fact they have not been given. This is an imposition of expectation, which becomes a false assessment (lying to self) about a promise not being kept, when in fact it wasn't given. This leads to contention, and that contention appears to be a function

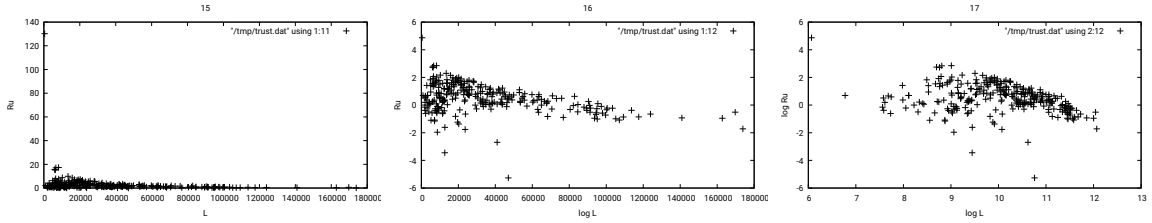


Figure 9: Trusted sample set  $s/S$  relaxation of edit changes per trusted article sample. This can be compared with figure 8. The similarity between the graph shows that trusting is justified in capturing the same average level of contention as in the full analysis. In other words, we don’t necessarily miss much by failing to micro-manage the process as a third party observer.

of the coming together of people in a shared process, independently of issue of time. Perhaps we are simply wired for mutual intercorrection.

In these tests, it’s unclear whether the effects of groups plays a role. Should we consider individuals as independent or in groups? Can we understand the role of altercations between groups and their dynamics to settling into an equilibrium? Process-wise, all users making changes over an episodic burst of change could be thought of as part of a single superagent: how coherent is this agent? Do users settle into a coherent state or fight one another endlessly?

I’ll come back to look at these issues in the next installment.

**Acknowledgment:** This work is supported by NLnet project Trust Semantic Learning and Monitoring.

## A Wikipedia test data

Obtaining realistic data to use as test cases is not easy. It was decided to apply the methods to a limited number of test cases where data are readily available. Wikipedia is one such case. Github could be another, though this is more closed from view.

The story of annotating edits is more like log monitoring. In principle, we could apply the same methods to any kind of log, but each type would need its own rules for parsing. We need to parse a reconstitute a story from small fragments. If we count only statistical uncertainty without knowing what behaviour can be considered trustworthy then all agents can seem equally (un)trustworthy.

Whether these test cases would be directly useful to the Wiki administrators is not really the issue here (we’re not trying to make a better mousetrap). With the help of bots to brute force process the pages, Wikipedia already attends quite closely to changes in a continuous effort, effectively mistrusting everything. It’s unclear whether it has watchlists over particularly contentious pages, but this would make sense.

Trustworthiness assessments can be made by three roles:

- Authors: will my edits be reverted? Will my efforts be used or wasted? This is trust in the perceived *platform process* promises.
- Platform administrators: will the content provided be “true”, where “true” is defined by a set of largely unwritten rules. There’s a trial and error, luck of the draw approach to what moderators consider to be proper process. This is inconstant and so might be hard to trust if one experiences different inconsistent moderators.
- Readers: will the content be available, readable, pedagogical etc, and be free of obvious errors or contention? Again, authors make no particular promises of this kind, but the platform itself is being assessed and it makes certain quality promises, enforced and verified by numerous bots and moderators. The bots are consistent, but the moderators aren’t.

We can check for contention by looking at the change logs.

We can try to examine Wiki pages on different subjects. Some are written by one person, some are fought over ruthlessly. The most controversial articles are a place to find long change histories that we can use to look at contention [11].

Wikipedia has its own form and process rules to ensure trustworthiness of content. These involve requiring journalistic sources. Of course, such sources only have to exist. Few sources are questioned, though it seems that there is a blacklist for certain publishers.

In a meta process (which is where trust belongs) about an actual process like an article or service, part of what is mentioned could be material for the central subject of the promise, and part of it could be meta talk about the subject and the process of changing it. It takes much more sophisticated modelling to determine the difference between these. In some cases, one can imagine that even a human might not fully realize the difference without enough context. This is a problem with snapshots in general, and it's one reason why we have trust.

Separate the processing into

- The text.
- The meta process.

## A.1 Technical comments

There's a continual competition between logic (structural identity) and statistical invariants (emergent features). It's worth pointing out that it's the logical markup of intent that enables the extraction of words with particular roles, such as users and dates to be performed reliably. The same markup also complicates the parsing enormously but also makes these items logically precise in a promise theoretic sense. It tells us nothing about the actual promises of the content, e.g. the actual date.

- Certain phrases (n-grams) are agents that promise clear types of information. Since language is a collaboration between such words, the individual promises are insufficient to discern meaning, so we still need to look at the compositions. We look for keywords, invariants, versus text sample as statistical phenomena.
- The lists of extracted samples that have persistence give an impression of the subject matter. The invariants and highly ranked n-grams further select topics in a cleaner linguistic manner.
- The ranking of text samples is more precarious for fragmented text. We have to reduce the paragraph window size by a factor of 10 to see any results, and the threshold setting is much more sensitive as a result.

Determining grounds for trust or mistrust is a subtle issue. It seems difficult to automate by any simple criteria, but of course we try anyway. Some side effects occur for small fragments of text. Because of the autoscaling, banal pages will often produce more output than richer ones. This is actually helpful as we need to see more (mistrust more) pages filled with spurious content in order to understand them. To counter the noise expectation, we can adjust the presumed text scales for 'leg', which is the assumed unit of intent. For narrative text, this is taken to be around 100 sentences. For log notes, 10 is more suitable.

- The output begins with a list of users and the average time between their edits. Users who have only made one edit and grouped at the end.

The bursty nature of editing makes the average time between edits potentially interesting, but there is a style and context element to time lapses. There is no obvious correlation with contention.

- The users who have reverted others' changes are then listed and the number of times their edits were reversions. The time between posting and reverting may also be significant. A very quick reversion is an act of mistrust. A longer more considered period may suggest more caution. The presence of specific words (white/black listed) may be more indicative of the tone and nature of the interactions—this is the approach used by most authors.
- A scraping of the extracted and purified text then selects interesting events on a small threshold level.
- The  $n$ -grams and longitudinal invariants suggesting topic content are then listed. The noise level here is expected to be high from the small amount of narrative content.



```

1 configuration 4 4 ----- 0.3707600846311865
1 science 10 10 ----- 0.49039699973178114
1 management 5 5 ----- 0.35547475131250195
2 computer science 9 9 ----- 1.0118313422564134
2 burgess mark 7 7 ----- 0.5937306657185968
2 theoretical physics 4 4 ----- 0.5418801236917341
2 promise theory 12 12 ----- 1.1698762821040414
2 desired end-state 3 3 ----- 0.36467147390750476
2 system administration 5 5 ----- 0.7464969777562541
2 semantic spacetime 5 5 ----- 0.6398545523625035
3 network and system 5 5 ----- 0.6398545523625035
3 university of oslo 3 3 ----- 0.38612273707853445
4 network and system administration 5 5 ----- 1.1730666793312565
---- Emergent Longitudinally Stable Concept Fragments -----
Particular theme/topic "human-computer" (= 0.300318)
Particular theme/topic "infrastructure" (= 0.300318)
Particular theme/topic "system" (= 0.379437)
Particular theme/topic "university of oslo" (= 0.386123)
Particular theme/topic "science" (= 0.490397)
Particular theme/topic "administration" (= 0.497665)
Particular theme/topic "theoretical physics" (= 0.541880)
Particular theme/topic "burgess mark" (= 0.593731)
Particular theme/topic "network and system" (= 0.639855)
Particular theme/topic "system administration" (= 0.746497)
Particular theme/topic "computer science" (= 1.011831)
Particular theme/topic "network and system administration" (= 1.173067)

```

The change analysis now turns to look at the changelog for the text, which is meta data. The changes made by different users and the times in between allow us to apply the trustworthiness anomaly model to the event stream.

```

=====
CHANGE ANALYSIS: Starting assessment of history for Mark Burgess
=====

```

```

----- EDITS -----
.. Explicit undo of SpeakerWatch by XLinkBot

```

```

----- EDITS -----

Ranked number of user changes: number and average time interval
>      Melcous ( 9)  av_delta 13.47 (days)
>      Hazitt ( 8)  av_delta 0.82 (days)
>      Citation bot ( 5)  av_delta 248.98 (days)
>      Yobot ( 4)  av_delta 275.19 (days)
>      Mbosl ( 3)  av_delta 0.00 (days)
>      Bubblebob ( 3)  av_delta 2.56 (days)
>      SpeakerWatch ( 3)  av_delta 0.00 (days)
>      Mcharg ( 2)  av_delta 0.00 (days)
>      Markburgess osl ( 2)  av_delta 1.11 (days)
>      Ouc ( 2)  av_delta 1012.76 (days)
>      201.167.20.189 ( 2)  av_delta 0.00 (days)
>      Bender the Bot ( 2)  av_delta 82.23 (days)
>      Codehydro ( 2)  av_delta 0.00 (days)
>      Rjwilmsi ( 2)  av_delta 0.01 (days)
>      AnomieBOT ( 2)  av_delta 345.49 (days)
>      212.187.28.214 ( 2)  av_delta 0.00 (days)
>      OAbot ( 2)  av_delta 224.80 (days)

```



EVENT[Leg 0 selects 10]: . Theoretical models : Fixed typo. typos fixed : bachelor degree bachelors degree using AWB 11406. migrating Persondata to Wikidata, please help , see challenges for this article. . . Adding references and links. copyedit - add tags, fix formatting,. . WP:CHECKWIKI error fix.

>> (Rank leg interest level (anomalous interest) 1 = 0.03972519997023673 )  
>> (Rank leg interest level (anomalous interest) 2 = 0.03444247929097507 )  
>> (Rank leg interest level (anomalous interest) 3 = 0.053400824073505666 )  
>> (Rank leg interest level (anomalous interest) 4 = 0.10335972494865224 )

EVENT[Leg 4 selects 48]: Removed parameters.

EVENT[Leg 4 selects 50]: Use this bot .

EVENT[Leg 4 selects 51]: Report bugs .

-----  
Notable events = 9 of total 149 efficiency = 1655.5555555555557 %  
-----

The fragment analysis can also be used to extract issue semantics from the logs:

----- Sumarize ngram Intentionality threshold selection -----  
1 publications 4 4 ----- 4.767874315563434  
1 information 4 4 ----- 4.370551455933147  
1 introduced 4 4 ----- 3.973228596302861  
1 professor 3 3 ----- 2.6836385359727224  
1 journal 7 7 ----- 4.855834836601045  
1 aspects 4 4 ----- 2.781260017412003  
1 computing 4 4 ----- 3.575905736672575  
1 fixes 9 9 ----- 4.450558758162331  
1 template 4 4 ----- 3.178582877042289  
1 physics 18 18 ----- 12.26487788093149  
1 software 8 8 ----- 6.336308468051813  
1 publications 10 10 ----- 14.818073475235886  
1 citation 4 4 ----- 3.178582877042289  
1 promise 12 12 ----- 8.275898133776506  
1 bergstra 3 3 ----- 2.385456476420198  
1 removed 9 9 ----- 6.230782261427263  
1 nationality 3 3 ----- 3.280002655077772  
1 norway 5 5 ----- 2.9778253759671545  
1 using 14 14 ----- 6.8740965302653585  
1 external 5 5 ----- 5.45934652260645  
1 published 3 3 ----- 2.6836385359727224  
1 systems 14 14 ----- 9.623735142371501  
1 describe 4 4 ----- 3.178582877042289  
1 semantic 8 8 ----- 6.336308468051813  
1 parameters 3 3 ----- 2.9818205955252473  
1 university 9 9 ----- 8.901117516324662  
1 music 5 5 ----- 2.4815211466392952  
1 space 3 3 ----- 1.4909102977626236  
1 end-state 3 3 ----- 2.6836385359727224  
1 references 5 5 ----- 4.9630422932785905  
1 system 9 9 ----- 5.340670509794798  
1 httphttps 3 3 ----- 2.6836385359727224  
1 another 3 3 ----- 2.087274416867673  
1 which 12 12 ----- 5.911355809840361  
1 persondata 3 3 ----- 2.9818205955252473  
1 behaviour 5 5 ----- 4.466738063950731  
1 added 10 10 ----- 4.939357825078629  
1 administration 5 5 ----- 6.9482592105900265  
1 description 3 3 ----- 3.280002655077772



1 human-computer 3 3 ----- 4.174548833735346  
1 studies 3 3 ----- 2.087274416867673  
1 theoretical 11 11 ----- 11.938018294285257  
1 called 6 6 ----- 3.570614743848624  
1 field 4 4 ----- 1.9866142981514305  
1 research 3 3 ----- 2.385456476420198  
1 infobox 3 3 ----- 2.087274416867673  
1 machine 4 4 ----- 2.781260017412003  
1 between 5 5 ----- 3.4741296052950132  
1 network 6 6 ----- 4.1657172011567285  
1 external 4 4 ----- 3.178582877042289  
1 general 5 5 ----- 3.4741296052950132  
1 science 11 11 ----- 7.596920732726982  
1 developed 4 4 ----- 3.575905736672575  
1 learning 5 5 ----- 3.9704338346228725  
1 error 6 6 ----- 2.9755122865405204  
1 became 5 5 ----- 2.9778253759671545  
1 number 3 3 ----- 1.7890923573151483  
1 suggested 3 3 ----- 2.6836385359727224  
1 management 6 6 ----- 5.951024573081041  
1 fields 3 3 ----- 1.7890923573151483  
1 ideas 3 3 ----- 1.4909102977626236  
1 article 5 5 ----- 3.4741296052950132  
1 title 3 3 ----- 1.4909102977626236  
1 knowledge 5 5 ----- 4.466738063950731  
1 empirical 4 4 ----- 3.575905736672575  
1 kingdom 3 3 ----- 2.087274416867673  
1 degree 3 3 ----- 1.7890923573151483  
1 later 4 4 ----- 1.9866142981514305  
1 series 4 4 ----- 2.383937157781717  
1 these 3 3 ----- 1.4909102977626236  
1 remove 6 6 ----- 3.570614743848624  
1 concept 3 3 ----- 2.087274416867673  
1 links 14 14 ----- 6.8740965302653585  
1 cfengine 7 7 ----- 5.549525527544051  
1 models 10 10 ----- 5.927229390094355  
1 checkwiki 4 4 ----- 3.575905736672575  
1 infrastructure 3 3 ----- 4.174548833735346  
1 could 3 3 ----- 1.4909102977626236  
1 phenomena 3 3 ----- 2.6836385359727224  
1 needed 4 4 ----- 2.383937157781717  
1 identifier 3 3 ----- 2.9818205955252473  
1 report 5 5 ----- 2.9778253759671545  
1 spacetime 15 15 ----- 13.232155872589955  
1 school 4 4 ----- 2.383937157781717  
1 burgess 34 34 ----- 20.962970455873606  
1 newcastle 3 3 ----- 2.6836385359727224  
1 computer 16 16 ----- 12.51991973201753  
1 adding 3 3 ----- 1.7890923573151483  
1 theory 17 17 ----- 9.953904381539774  
1 about 4 4 ----- 1.9866142981514305  
1 fixed 4 4 ----- 1.9866142981514305  
1 networks 4 4 ----- 3.178582877042289  
1 convergence 4 4 ----- 4.370551455933147  
1 graph 4 4 ----- 1.9866142981514305  
1 cites 4 4 ----- 1.9866142981514305  
1 configuration 4 4 ----- 5.165197175193719  
1 desired 3 3 ----- 2.087274416867673  
1 press 3 3 ----- 1.4909102977626236  
1 based 6 6 ----- 2.9755122865405204  
1 model 8 8 ----- 3.960192792532383  
1 united 3 3 ----- 1.7890923573151483  
1 interest 4 4 ----- 3.178582877042289

1 replaced 3 3 ----- 2.385456476420198  
2 links 6 6 ----- 5.355922115772936  
2 theoretical physics 4 4 ----- 7.549134332975436  
2 publications 5 5 ----- 9.429780357229323  
2 wp 5 5 ----- 2.9778253759671545  
2 knowledge management 3 3 ----- 5.9636411910504945  
2 desired end-state 3 3 ----- 5.06909501239292  
2 6 6 ----- 4.1657172011567285  
2 external links 5 5 ----- 8.437171898573604  
2 awb 4 4 ----- 2.781260017412003  
2 use this 5 5 ----- 3.9704338346228725  
2 semantic spacetime 7 7 ----- 12.486432436974116  
2 report bugs 5 5 ----- 5.45934652260645  
2 burgess has 3 3 ----- 3.280002655077772  
2 checkwiki error 4 4 ----- 5.959842894454291  
2 interest in 3 3 ----- 3.280002655077772  
2 suggested by 3 3 ----- 3.5781847146302965  
2 computer science 9 9 ----- 14.241788026119458  
2 using awb 11 11 ----- 9.767469513506118  
2 this bot 5 5 ----- 3.9704338346228725  
2 external links 4 4 ----- 5.562520034824006  
2 burgess mark 7 7 ----- 8.324288291316076  
2 add 4 4 ----- 2.781260017412003  
2 united kingdom 3 3 ----- 4.174548833735346  
2 promise theory 12 12 ----- 16.551796267553012  
2 publications 10 10 ----- 18.769559735298788  
2 general fixes 4 4 ----- 5.165197175193719  
2 to describe 3 3 ----- 3.280002655077772  
2 which he 4 4 ----- 3.178582877042289  
2 mark burgess 5 5 ----- 5.955650751934309  
2 machine learning 4 4 ----- 6.357165754084578  
2 wp checkwiki 4 4 ----- 4.767874315563434  
2 removed 5 5 ----- 5.45934652260645  
2 system administration 5 5 ----- 10.42238881588504  
2 journal cites 4 4 ----- 5.165197175193719  
2 external 5 5 ----- 7.444563439917886  
2 by burgess 3 3 ----- 2.9818205955252473  
2 removed parameters 3 3 ----- 5.367277071945445  
2 based on 4 4 ----- 3.178582877042289  
2 added 4 4 ----- 3.575905736672575  
3 publications 5 5 ----- 11.414997274540758  
3 using awb 4 4 ----- 5.165197175193719  
3 wp checkwiki 4 4 ----- 6.357165754084578  
3 network and system 5 5 ----- 8.933476127901463  
3 university of oslo 3 3 ----- 5.367277071945445  
3 wp checkwiki error 4 4 ----- 7.15181147334515  
3 use this bot 5 5 ----- 5.955650751934309  
3 as a model 3 3 ----- 2.9818205955252473  
3 external links 5 5 ----- 10.42238881588504  
3 external 3 3 ----- 5.66545913149797  
4 network and system administration 5 5 ----- 16.37803956781935  
4 wp checkwiki error 4 4 ----- 8.741102911866294  
4 external links 3 3 ----- 7.454551488813118  
---- Emergent Longitudinally Stable Concept Fragments -----  
Particular theme/topic "ideas" (= 1.490910)  
Particular theme/topic "these" (= 1.490910)  
Particular theme/topic "title" (= 1.490910)  
Particular theme/topic "press" (= 1.490910)  
Particular theme/topic "fields" (= 1.789092)  
Particular theme/topic "united" (= 1.789092)  
Particular theme/topic "number" (= 1.789092)  
Particular theme/topic "later" (= 1.986614)  
Particular theme/topic "about" (= 1.986614)

Particular theme/topic "kingdom" (= 2.087274)  
Particular theme/topic "studies" (= 2.087274)  
Particular theme/topic "concept" (= 2.087274)  
Particular theme/topic "another" (= 2.087274)  
Particular theme/topic "series" (= 2.383937)  
Particular theme/topic "needed" (= 2.383937)  
Particular theme/topic "research" (= 2.385456)  
Particular theme/topic "bergstra" (= 2.385456)  
Particular theme/topic "music" (= 2.481521)  
Particular theme/topic "published" (= 2.683639)  
Particular theme/topic "phenomena" (= 2.683639)  
Particular theme/topic "newcastle" (= 2.683639)  
Particular theme/topic "suggested" (= 2.683639)  
Particular theme/topic "professor" (= 2.683639)  
Particular theme/topic "aspects" (= 2.781260)  
Particular theme/topic "machine" (= 2.781260)  
Particular theme/topic " add" (= 2.781260)  
Particular theme/topic "based" (= 2.975512)  
Particular theme/topic "became" (= 2.977825)  
Particular theme/topic "report" (= 2.977825)  
Particular theme/topic "as a model" (= 2.981821)  
Particular theme/topic "parameters" (= 2.981821)  
Particular theme/topic "by burgess" (= 2.981821)  
Particular theme/topic "identifier" (= 2.981821)  
Particular theme/topic "networks" (= 3.178583)  
Particular theme/topic "which he" (= 3.178583)  
Particular theme/topic "based on" (= 3.178583)  
Particular theme/topic "interest" (= 3.178583)  
Particular theme/topic "describe" (= 3.178583)  
Particular theme/topic "citation" (= 3.178583)  
Particular theme/topic "to describe" (= 3.280003)  
Particular theme/topic "burgess has" (= 3.280003)  
Particular theme/topic "interest in" (= 3.280003)  
Particular theme/topic "general" (= 3.474130)  
Particular theme/topic "between" (= 3.474130)  
Particular theme/topic "called" (= 3.570615)  
Particular theme/topic "empirical" (= 3.575906)  
Particular theme/topic "computing" (= 3.575906)  
Particular theme/topic " added" (= 3.575906)  
Particular theme/topic "developed" (= 3.575906)  
Particular theme/topic "suggested by" (= 3.578185)  
Particular theme/topic "model" (= 3.960193)  
Particular theme/topic "use this" (= 3.970434)  
Particular theme/topic "learning" (= 3.970434)  
Particular theme/topic "this bot" (= 3.970434)  
Particular theme/topic "introduced" (= 3.973229)  
Particular theme/topic "network" (= 4.165717)  
Particular theme/topic "human-computer" (= 4.174549)  
Particular theme/topic "united kingdom" (= 4.174549)  
Particular theme/topic "infrastructure" (= 4.174549)  
Particular theme/topic "knowledge" (= 4.466738)  
Particular theme/topic "publications" (= 4.767874)  
Particular theme/topic "journal" (= 4.855835)  
Particular theme/topic "references" (= 4.963042)  
Particular theme/topic "general fixes" (= 5.165197)  
Particular theme/topic "system" (= 5.340671)  
Particular theme/topic "removed parameters" (= 5.367277)  
Particular theme/topic "university of oslo" (= 5.367277)  
Particular theme/topic "report bugs" (= 5.459347)  
Particular theme/topic "management" (= 5.951025)  
Particular theme/topic "use this bot" (= 5.955651)  
Particular theme/topic "knowledge management" (= 5.963641)  
Particular theme/topic "semantic" (= 6.336308)



or nuclear weapons from threatening the United States and the world".

>> (Rank leg interest level (anomalous interest) 6 = 0.9684680519440724 )

EVENT[Leg 6 selects 642]: Bush Supreme Court candidates. Supreme Court Justice nominees John Roberts and Samuel Alito, 2005. On July 19, 2005, following the announcement of the retirement of. Associate Justice. Sandra Day OConnor. on July 1, Bush nominated federal appellate judge. John Roberts. to be OConnors replacement; however, following the death of Chief Justice. William Rehnquist. on September 3, that still-pending nomination was withdrawn on September 5, with Bush instead nominating Roberts to be the next. Chief Justice of the United States. .

EVENT[Leg 6 selects 647]: Bush. In addition to his two Supreme Court appointments, Bush appointed 61 judges to the. United States courts of appeals. and 261 judges to the. United States district courts. .

EVENT[Leg 6 selects 685]: . In April 2008, Bushs disapproval ratings reached the highest ever recorded for any president in the 70-year history of the. Gallup poll. , with 69 percent of those polled disapproving of the job Bush was doing as president and 28 percent approving although the majority 66 percent of Republicans still approved of his job performance.

>> (Rank leg interest level (anomalous interest) 7 = 0.9361979883773223 )

EVENT[Leg 7 selects 713]: Bush and his wife being escorted to a waiting helicopter by President. Barack Obama. and First Lady. Michelle Obama. on January 20, 2009. Residence. Following the. inauguration of Barack Obama. , Bush and his family flew from. Andrews Air Force Base. to a homecoming celebration in. Midland, Texas. , following which they returned to their ranch in. Crawford, Texas. .

EVENT[Leg 7 selects 797]: . Bush opposed President Bidens. withdrawal of American troops from Afghanistan. , saying that the withdrawal made him "concerned" and that it had the potential to "create a vacuum, and into that vacuum is likely to come people who treat women as second class citizens".

EVENT[Leg 7 selects 799]: . On September 11, 2021, the 20th anniversary of the September 11 attacks, Bush gave a speech at the. Flight 93 National Memorial. , praising the heroism of the people on. Flight 93. and the spirit of America.

>> (Rank leg interest level (anomalous interest) 8 = 1 )

EVENT[Leg 8 selects 832]: Critics often point to his handling of the. Iraq War. , specifically the failure to find. weapons of mass destruction. after claiming they were in Iraq, as well as Bushs handling of. tax policy. ,. Hurricane Katrina. ,. climate change. and the. 2008 financial crisis. , as proof that he was unfit to be president.

EVENT[Leg 8 selects 853]: ". Gallup had earlier noted that Bushs favorability ratings in public opinion surveys had begun to rise a year after he had left office, from 40 percent in January 2009 and 35 percent in March 2009, to 45 percent in July 2010, a period during which he had remained largely out of the news.

EVENT[Leg 8 selects 856]: . In April 2013, Bushs approval rating stood at 47 percent approval and 50 percent disapproval in a poll jointly conducted for. The Washington Post. and. ABC. , his highest approval rating since December 2005.

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Notable events = 12 of total 871 efficiency = 7258.333333333333 %  
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----- Sumarize ngram Intentionality threshold selection -----  
1 under 11 11 ----- 0.5498987604522702  
1 convention 4 4 ----- 0.3999313481430265  
1 authority 5 5 ----- 0.4499219905875013  
1 election 20 20 ----- 1.5996777547944472  
1 portrayed 4 4 ----- 0.35993821332872383

1 according 12 12 ----- 1.079799204764429  
1 subsequently 4 4 ----- 0.4799176177716318  
1 father 17 17 ----- 1.019800638907802  
1 obama 21 21 ----- 1.049786401673042  
1 increased 15 15 ----- 1.3497413635133262  
1 republicans 4 4 ----- 0.43992448295732917  
1 richards 5 5 ----- 0.3999306583000012  
1 school 11 11 ----- 0.6598785125427242  
1 violence 5 5 ----- 0.3999306583000012  
1 leaders 11 11 ----- 0.7698582646331782  
1 congress 17 17 ----- 1.3597341852104028  
1 massachusetts 3 3 ----- 0.3899337303462348  
1 governments 4 4 ----- 0.43992448295732917  
1 clinton 10 10 ----- 0.6998724315151176  
1 world 12 12 ----- 0.5998884470913494  
1 george 56 56 ----- 3.359030129227636  
1 april 8 8 ----- 0.3999285469080753  
1 invasion 7 7 ----- 0.5599009608534721  
1 including 17 17 ----- 1.529700958361703  
1 argued 6 6 ----- 0.35993696537371866  
1 attacks 19 19 ----- 1.3297347984559094  
1 hurricane 12 12 ----- 1.079799204764429  
1 general 12 12 ----- 0.8398438259278891  
1 district 8 8 ----- 0.6398856750529204  
1 though 6 6 ----- 0.35993696537371866  
1 president 75 75 ----- 6.747644039048257  
1 portraits 6 6 ----- 0.539905448060578  
1 trillion 8 8 ----- 0.6398856750529204  
1 expressed 4 4 ----- 0.35993821332872383  
1 leader 8 8 ----- 0.4799142562896903  
1 success 7 7 ----- 0.48991334074678805  
1 gonzales 5 5 ----- 0.3999306583000012  
1 destruction 7 7 ----- 0.769863821173524  
1 baseball 4 4 ----- 0.3199450785144212  
1 elections 9 9 ----- 0.8098538535673145  
1 rating 14 14 ----- 0.8398406716007709  
1 military 18 18 ----- 1.4397157209756144  
1 laden 7 7 ----- 0.34993810053342006  
1 launched 5 5 ----- 0.3999306583000012  
1 order 7 7 ----- 0.34993810053342006  
1 organization 4 4 ----- 0.4799176177716318  
1 anniversary 5 5 ----- 0.5499046551625016  
1 information 5 5 ----- 0.5499046551625016  
1 senate 8 8 ----- 0.4799142562896903  
1 washington 7 7 ----- 0.6998762010668401  
1 presidents 17 17 ----- 1.6996677315130035  
1 ordered 5 5 ----- 0.34993932601250105  
1 entered 8 8 ----- 0.5598999656713054  
1 incident 4 4 ----- 0.3199450785144212  
1 barbara 5 5 ----- 0.34993932601250105  
1 recession 5 5 ----- 0.4499219905875013  
1 declared 10 10 ----- 0.7998542074458487  
1 average 9 9 ----- 0.6298863305523558  
1 survey 6 6 ----- 0.35993696537371866  
1 largest 6 6 ----- 0.4199264596026718  
1 policy 19 19 ----- 1.1397726843907794  
1 after 40 40 ----- 1.999508032958836  
1 programs 8 8 ----- 0.6398856750529204  
1 criticized 7 7 ----- 0.6998762010668401  
1 re-election 6 6 ----- 0.6598844365184842  
1 these 9 9 ----- 0.44991880753739694  
1 significant 3 3 ----- 0.32994392567758324  
1 health 9 9 ----- 0.5399025690448764

1 vladimir 5 5 ----- 0.3999306583000012  
1 personal 6 6 ----- 0.47991595383162494  
1 connecticut 4 4 ----- 0.43992448295732917  
1 continued 6 6 ----- 0.539905448060578  
1 communities 3 3 ----- 0.32994392567758324  
1 rangers 6 6 ----- 0.4199264596026718  
1 weapons 13 13 ----- 0.9098291113677138  
1 court 14 14 ----- 0.6998672263339758  
1 economic 11 11 ----- 0.8798380167236322  
1 strategy 4 4 ----- 0.3199450785144212  
1 shooting 4 4 ----- 0.3199450785144212  
1 before 7 7 ----- 0.4199257206401041  
1 campaign 23 23 ----- 1.839618134454154  
1 against 11 11 ----- 0.7698582646331782  
1 trump 11 11 ----- 0.5498987604522702  
1 democratic 10 10 ----- 0.9998177593073108  
1 attended 11 11 ----- 0.8798380167236322  
1 relief 6 6 ----- 0.35993696537371866  
1 domestic 12 12 ----- 0.959821515346159  
1 department 14 14 ----- 1.3997344526679516  
1 reported 6 6 ----- 0.47991595383162494  
1 justice 15 15 ----- 1.0497988382881427  
1 education 10 10 ----- 0.8998359833765797  
1 history 14 14 ----- 0.9798141168675661  
1 south 9 9 ----- 0.44991880753739694  
1 torture 6 6 ----- 0.4199264596026718  
1 financial 6 6 ----- 0.539905448060578  
1 al-qaeda 6 6 ----- 0.47991595383162494  
1 congressional 6 6 ----- 0.7798634249763905  
1 dallas 7 7 ----- 0.4199257206401041  
1 support 18 18 ----- 1.2597512558536625  
1 university 8 8 ----- 0.7998570938161506  
1 signed 18 18 ----- 1.079786790731711  
1 memorial 5 5 ----- 0.3999306583000012  
1 people 17 17 ----- 1.019800638907802  
1 americans 7 7 ----- 0.6298885809601562  
1 nations 6 6 ----- 0.4199264596026718  
1 percent 66 66 ----- 4.618526219404358  
1 asserted 4 4 ----- 0.3199450785144212  
1 criticism 7 7 ----- 0.6298885809601562  
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1 chairman 5 5 ----- 0.3999306583000012  
1 palestinian 3 3 ----- 0.32994392567758324  
1 official 7 7 ----- 0.5599009608534721  
1 nomination 6 6 ----- 0.5998949422895311  
1 handling 8 8 ----- 0.6398856750529204  
1 saying 9 9 ----- 0.5399025690448764  
1 waterboarding 6 6 ----- 0.7798634249763905  
1 march 14 14 ----- 0.6998672263339758  
1 al-zaidi 4 4 ----- 0.3199450785144212  
1 policies 6 6 ----- 0.47991595383162494  
1 leadership 4 4 ----- 0.3999313481430265  
1 issues 6 6 ----- 0.35993696537371866  
1 katrina 9 9 ----- 0.6298863305523558  
1 federal 22 22 ----- 1.5396835746090358  
1 legislation 8 8 ----- 0.8798428031977655  
1 relations 5 5 ----- 0.4499219905875013  
1 guard 8 8 ----- 0.3999285469080753  
1 another 6 6 ----- 0.4199264596026718  
1 controversy 5 5 ----- 0.5499046551625016  
1 nuclear 11 11 ----- 0.7698582646331782  
1 party 12 12 ----- 0.5998884470913494  
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1 white 14 14 ----- 0.6998672263339758  
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1 authorized 5 5 ----- 0.49991332287500145  
1 following 19 19 ----- 1.709659026586169  
1 improvement 5 5 ----- 0.5499046551625016  
1 appointed 6 6 ----- 0.539905448060578  
1 private 5 5 ----- 0.34993932601250105  
1 institute 5 5 ----- 0.4499219905875013  
1 homeland 4 4 ----- 0.3199450785144212  
1 kerry 7 7 ----- 0.34993810053342006  
1 immigration 6 6 ----- 0.6598844365184842  
1 speech 9 9 ----- 0.5399025690448764  
1 national 35 35 ----- 2.7993448292044585  
1 situation 6 6 ----- 0.539905448060578  
1 throughout 5 5 ----- 0.49991332287500145  
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1 response 9 9 ----- 0.7198700920598352  
1 considered 4 4 ----- 0.3999313481430265  
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1 there 13 13 ----- 0.6498779366912242  
1 their 14 14 ----- 0.6998672263339758  
1 through 6 6 ----- 0.4199264596026718



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1 however 7 7 ----- 0.48991334074678805  
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1 energy 11 11 ----- 0.6598785125427242  
1 security 26 26 ----- 2.07955518228273  
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1 american 28 28 ----- 2.2395112905084393  
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1 interrogation 8 8 ----- 1.0398142219609956  
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1 failure 7 7 ----- 0.48991334074678805  
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1 north 14 14 ----- 0.6998672263339758  
1 later 18 18 ----- 0.8998223256097589

1 states 45 45 ----- 2.699301801319067  
1 center 8 8 ----- 0.4799142562896903  
1 opinions 4 4 ----- 0.3199450785144212  
1 withdrawal 7 7 ----- 0.6998762010668401  
1 administration 29 29 ----- 4.059105313711477  
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1 representatives 3 3 ----- 0.44992353501488624  
1 resulted 4 4 ----- 0.3199450785144212  
1 presence 4 4 ----- 0.3199450785144212  
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Particular theme/topic "advisers" (= 0.319945)  
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Particular theme/topic "bush won" (= 0.319945)  
Particular theme/topic "where he" (= 0.319945)  
Particular theme/topic "opinions" (= 0.319945)  
Particular theme/topic "enhanced" (= 0.319945)  
Particular theme/topic "he would" (= 0.319945)  
Particular theme/topic "treasury" (= 0.319945)  
Particular theme/topic "followed" (= 0.319945)  
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Particular theme/topic "legislative" (= 0.329944)



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CHANGE ANALYSIS: Starting assessment of history for George W. Bush

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----- EDITS -----

.. Effective undo of Gale5050 by Drdpw  
.. Explicit undo of MusenInvincible by Drdpw  
.. Effective undo of MusenInvincible by Drdpw  
.. Effective undo of Llewee by Wow  
.. Effective undo of Scribatorian by Wow  
.. Explicit undo of Futurist110 by Drdpw  
.. Effective undo of Futurist110 by Drdpw  
.. Explicit undo of Enddaca by Arkon  
.. Effective undo of Enddaca by Arkon  
.. Explicit undo of ThePickeringtonian by Flix11  
.. Effective undo of ThePickeringtonian by Flix11  
.. Explicit undo of Flix11 by Drdpw  
.. Explicit undo of Historymaj18 by HaeB  
.. Effective undo of Historymaj18 by HaeB  
.. Explicit undo of RandomUserGuy1738 by Corkythehornetfan  
.. Explicit undo of Corkythehornetfan by Sundayclose  
.. Effective undo of Corkythehornetfan by Sundayclose  
.. Effective undo of Sundayclose by Corkythehornetfan  
.. Explicit undo of Corkythehornetfan by Drdpw  
.. Explicit undo of Historymaj18 by Sundayclose  
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.. Explicit undo of Abonazzi by Freshacconci  
.. Explicit undo of AlleyRegent69 by Freshacconci  
.. Explicit undo of AlleyRegent69 by Freshacconci  
.. Explicit undo of NapoleonX by Freshacconci  
.. Effective undo of Freshacconci by NapoleonX  
.. Explicit undo of BlueShirtz by GRuban  
.. Explicit undo of BD2412 by Juliobrz  
.. Effective undo of Juliobrz by Twotwice  
.. Explicit undo of Twotwice by Jacknixonsaints  
.. Explicit undo of Jacknixonsaints by  
.. Explicit undo of Zaiisao by Geminin667  
.. Effective undo of Geminin667 by ValarianB  
.. Explicit undo of Basil the Bat Lord by HaruhiSuzumiyaIsAGod  
.. Explicit undo of HaruhiSuzumiyaIsAGod by Drdpw  
.. Effective undo of HaruhiSuzumiyaIsAGod by Drdpw  
.. Effective undo of Surtsicna by Surtsicna  
.. Explicit undo of Interstellarity by Andrew11995  
.. Explicit undo of Andrew11995 by ValarianB  
.. Effective undo of Andrew11995 by ValarianB  
.. Explicit undo of Chrisahn by Tompiyatonnid4631  
.. Explicit undo of X-Editor by Fakescientist8000  
.. Effective undo of Fakescientist8000 by Drdpw  
.. Explicit undo of Toby72 by Nilesfrancis  
.. Explicit undo of Nilesfrancis by Drdpw  
.. Effective undo of Nilesfrancis by Drdpw  
.. Explicit undo of WurmWoode by Rdfalberg  
.. Explicit undo of Thenightaway by TomVenam2021  
.. Effective undo of TomVenam2021 by Larry Hockett  
.. Explicit undo of Oblio4 by Rdfalberg  
.. Explicit undo of Nforystek by DoebLoggs  
.. Explicit undo of Kavyansh.Singh by Tomhenwil  
.. Explicit undo of Tomhenwil by Freshacconci  
.. Effective undo of Tomhenwil by Freshacconci  
.. Explicit undo of Freshacconci by Kuanzhu  
.. Effective undo of Kuanzhu by ValarianB  
.. Explicit undo of Peter Ormond by TurtleBlossomOwnsTheNight  
.. Explicit undo of TurtleBlossomOwnsTheNight by Drdpw  
.. Effective undo of TurtleBlossomOwnsTheNight by Drdpw  
.. Explicit undo of Drdpw by Sedathaz  
.. Effective undo of Sedathaz by Grbergs Gra Sng  
.. Explicit undo of Grbergs Gra Sng by Ser Amantio di Nicolao  
.. Effective undo of Ser Amantio di Nicolao by Drdpw



.. Explicit undo of Basil the Bat Lord by Dogle99  
 .. Explicit undo of Dogle99 by Ivanvector  
 .. Explicit undo of Ivanvector by Dogle99  
 .. Explicit undo of John of Reading by The One I Left  
 .. Explicit undo of The One I Left by Drdpw  
 .. Effective undo of The One I Left by Drdpw  
 .. Explicit undo of Biruxx by Demon fire 1256  
 .. Effective undo of Demon fire 1256 by Demon fire 1256  
 .. Explicit undo of Demon fire 1256 by Toa Nidhiki05  
 .. Effective undo of Demon fire 1256 by Toa Nidhiki05  
 .. Explicit undo of Drdpw by GoodDay  
 .. Explicit undo of Politicsfan4 by Surtsicna  
 .. Explicit undo of GreenC bot by Terry g. bishop  
 .. Explicit undo of Terry g. bishop by Drdpw  
 .. Effective undo of Terry g. bishop by Drdpw  
 .. Explicit undo of JZimm09 by WTSherman84  
 .. Explicit undo of WTSherman84 by Drdpw  
 .. Explicit undo of Oronsay by Ironman1104  
 .. Explicit undo of Ironman1104 by Drdpw  
 .. Explicit undo of Onghai1929 by RehmanK786  
 .. Explicit undo of RehmanK786 by Drdpw  
 .. Effective undo of RehmanK786 by Drdpw  
 .. Explicit undo of Drdpw by Vjmlhds  
 .. Effective undo of Vjmlhds by Drdpw  
 .. Explicit undo of InPursuitOfAMorePerfectUnion by Brobbz  
 .. Explicit undo of Brobbz by Drdpw  
 .. Explicit undo of Unknown Temptation by Bhawbh  
 .. Explicit undo of Bhawbh by Drdpw  
 .. Explicit undo of Drdpw by Historybuff18  
 .. Explicit undo of Historybuff18 by Drdpw  
 .. Effective undo of Historybuff18 by Drdpw  
 .. Explicit undo of Thomascampbell1123 by Historybuff18  
 .. Effective undo of Thomascampbell1123 by Historybuff18  
 .. Effective undo of GiantSnowman by Richard75  
 .. Explicit undo of Onghai1929 by Declanmath  
 .. Explicit undo of Declanmath by SunDawn  
 .. Effective undo of Declanmath by SunDawn  
 .. Explicit undo of SunDawn by Kandyname  
 .. Explicit undo of Kandyname by ITBF  
 .. Effective undo of Kandyname by ITBF  
 .. Explicit undo of Gsnp113 by Crazy Jay Sphere  
 .. Explicit undo of Crazy Jay Sphere by Drdpw  
 .. Explicit undo of Apmh by WikiCleanerMan  
 .. Effective undo of WikiCleanerMan by Wow  
 .. Explicit undo of Wow by Evaline Nakano  
 .. Effective undo of Evaline Nakano by Evaline Nakano  
 .. Explicit undo of RussBot by RAMSES\$44932  
 .. Effective undo of RAMSES\$44932 by Lightiggy  
 .. Explicit undo of MrMeAndMrMe by Toby72  
 .. Explicit undo of Toby72 by Drdpw  
 .. Explicit undo of Surtsicna by Willform  
 .. Effective undo of Willform by Drdpw  
 .. Explicit undo of Rlink2 by Willform  
 .. Effective undo of Willform by Drdpw  
 .. Explicit undo of BarrelProof by Pete unseth  
 .. Effective undo of Pete unseth by Drdpw  
 .. Explicit undo of Roccerbot by Red-tailed hawk  
 .. Effective undo of Phruizler by Banedon  
 .. Explicit undo of SomebodyAnyBody05 by Thrakxx  
 .. Effective undo of SomebodyAnyBody05 by Thrakxx  
 .. Explicit undo of SomebodyAnyBody05 by ChristianCanada  
 .. Effective undo of ChristianCanada by Drdpw  
 .. Explicit undo of Iamreallygoodatcheckers by X-Editor

.. Explicit undo of X-Editor by Drdpw  
.. Explicit undo of Drdpw by X-Editor  
.. Effective undo of X-Editor by ValarianB  
.. Explicit undo of Citation bot by Yodabyte  
.. Effective undo of Yodabyte by Toa Nidhiki05  
.. Explicit undo of JJMC89 bot III by Pete unseth  
.. Effective undo of Pete unseth by ValarianB  
.. Explicit undo of ValarianB by Dawnleelynn  
.. Explicit undo of BIGSNEK by Pete unseth  
.. Effective undo of Pete unseth by Drdpw  
.. Explicit undo of Drdpw by ValarianB  
.. Explicit undo of ValarianB by X-Editor  
.. Explicit undo of X-Editor by Drdpw  
.. Effective undo of X-Editor by Drdpw  
.. Explicit undo of Kches16414 by Augmanjr3334  
.. Explicit undo of Augmanjr3334 by AndyTheGrump  
.. Explicit undo of JJMC89 bot III by Kches16414  
.. Explicit undo of Kches16414 by Drdpw  
.. Explicit undo of Drdpw by Kches16414  
.. Explicit undo of Kches16414 by Drdpw  
.. Effective undo of Kches16414 by Drdpw  
.. Explicit undo of Drdpw by EditMaker Me  
.. Explicit undo of EditMaker Me by Drdpw  
.. Effective undo of EditMaker Me by Drdpw  
.. Explicit undo of Drdpw by EditMaker Me  
.. Effective undo of EditMaker Me by EditMaker Me  
.. Explicit undo of Armduino by Drdpw  
.. Explicit undo of Drdpw by Yodabyte  
.. Explicit undo of Yodabyte by Drdpw  
.. Effective undo of Yodabyte by Drdpw  
.. Explicit undo of Drdpw by Yodabyte  
.. Explicit undo of Yodabyte by Drdpw  
.. Effective undo of Yodabyte by Drdpw  
.. Explicit undo of Drdpw by Armduino  
.. Explicit undo of Armduino by Drdpw  
.. Effective undo of Armduino by Drdpw  
.. Effective undo of Dimadick by GoodDay  
.. Explicit undo of GoodDay by Benjamin3\$hunna  
.. Explicit undo of Benjamin3\$hunna by HaeB  
.. Effective undo of Benjamin3\$hunna by HaeB  
.. Explicit undo of Drdpw by Kyleung05  
.. Effective undo of Kyleung05 by Drdpw  
.. Explicit undo of Drdpw by Cookiehead  
.. Explicit undo of Polum by Marty5550  
.. Effective undo of Marty5550 by ValarianB  
.. Explicit undo of Citation bot by Kyleung05  
.. Explicit undo of Kyleung05 by Drdpw  
.. Effective undo of Kyleung05 by Drdpw  
.. Explicit undo of Drdpw by Kyleung05  
.. Explicit undo of Kyleung05 by Drdpw  
.. Effective undo of Kyleung05 by Drdpw  
.. Effective undo of Kyleung05 by Drdpw  
.. Explicit undo of Dissident93 by Mupper-san  
.. Explicit undo of Special-T by Iamahumanborninearth  
.. Explicit undo of Iamahumanborninearth by Praxidicae  
.. Effective undo of Iamahumanborninearth by Praxidicae  
.. Explicit undo of WelpThatWorked by X-Editor  
.. Explicit undo of X-Editor by Drdpw  
.. Effective undo of X-Editor by Drdpw  
.. Explicit undo of Drdpw by X-Editor  
.. Explicit undo of Phillip Samuel by Wikinerd881  
.. Explicit undo of Wikinerd881 by Drdpw  
.. Effective undo of Wikinerd881 by Drdpw

.. Explicit undo of Rjensen by Kyleung05  
 .. Explicit undo of Kyleung05 by Wallnot  
 .. Explicit undo of by Atlantisandlemuria  
 .. Explicit undo of Atlantisandlemuria by Praxidicae  
 .. Effective undo of Atlantisandlemuria by Praxidicae  
 .. Explicit undo of Therequiembellishere by Wikinerd881  
 .. Effective undo of Wikinerd881 by Larry Hockett  
 .. Explicit undo of BostonMensa by 9toedfreak  
 .. Explicit undo of 9toedfreak by Drdpw  
 .. Effective undo of 9toedfreak by Drdpw  
 .. Explicit undo of Politicsfan4 by Kyleung05  
 .. Effective undo of Kyleung05 by Kyleung05  
 .. Explicit undo of Kyleung05 by X-Editor  
 .. Effective undo of X-Editor by Drdpw  
 .. Explicit undo of Politicsfan4 by Kyleung05  
 .. Effective undo of Kyleung05 by Wallnot  
 .. Explicit undo of Drdpw by Wikinerd881  
 .. Explicit undo of Wikinerd881 by Drdpw  
 .. Effective undo of Wikinerd881 by Drdpw  
 .. Explicit undo of Openmy by Wikinerd881  
 .. Explicit undo of Maxeto0910 by Typewritwr12  
 .. Explicit undo of Typewritwr12 by Drdpw  
 .. Effective undo of Typewritwr12 by Drdpw  
 .. Explicit undo of GiantSnowman by Mismak Abel  
 .. Explicit undo of Mismak Abel by LizardJr8  
 .. Effective undo of Mismak Abel by LizardJr8  
 .. Explicit undo of JeffLynne1977 by HighlyLogicalVulcan  
 .. Explicit undo of HighlyLogicalVulcan by Drdpw  
 .. Effective undo of HighlyLogicalVulcan by Drdpw  
 .. Explicit undo of Drdpw by HighlyLogicalVulcan  
 .. Explicit undo of HighlyLogicalVulcan by Drdpw  
 .. Effective undo of HighlyLogicalVulcan by Drdpw  
 .. Explicit undo of Anastrophe by Wow  
 .. Explicit undo of Wow by HighlyLogicalVulcan  
 .. Explicit undo of by Gore Theodore  
 .. Effective undo of Gore Theodore by Drdpw  
 .. Explicit undo of Trappist the monk by Iamahumanborninearth  
 .. Effective undo of Iamahumanborninearth by Drdpw  
 .. Explicit undo of GreenC bot by WorldMappings  
 .. Effective undo of WorldMappings by Jpgordon  
 .. Explicit undo of Jpgordon by Mismak the Smart  
 .. Explicit undo of Mismak the Smart by Drdpw  
 .. Explicit undo of Drdpw by Mismak the Smart  
 .. Explicit undo of Mismak the Smart by Corkythehornetfan  
 .. Effective undo of Mismak the Smart by Corkythehornetfan  
 .. Explicit undo of Citation bot by Ittihad-Man  
 .. Explicit undo of Rxxxx7777 by Ittihad-Man  
 .. Explicit undo of TheTechnician27 by Jaredscribe  
 .. Explicit undo of Thatwhichmay by Dhruvh  
 .. Explicit undo of WhisperToMe by Toasty3563  
 .. Explicit undo of Toasty3563 by Wow  
 .. Explicit undo of Wow by Phrogge  
 .. Effective undo of Wow by Phrogge  
 .. Explicit undo of Wow by Aardwolf68  
 .. Explicit undo of Aardwolf68 by Drdpw  
 .. Effective undo of Aardwolf68 by Drdpw  
 .. Explicit undo of Wow by Yanayeungyuenkonguy  
 .. Explicit undo of Yanayeungyuenkonguy by Drdpw  
 .. Effective undo of Yanayeungyuenkonguy by Drdpw  
 .. Explicit undo of GuardianH by Osterluzei  
 .. Explicit undo of Osterluzei by Drdpw  
 .. Effective undo of Osterluzei by Drdpw  
 .. Explicit undo of Ethans1234 by HiLo48

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.. Explicit undo of HiLo48 by Ethans1234
.. Explicit undo of Ethans1234 by Ivanvector
.. Effective undo of Ethans1234 by Ivanvector
.. Explicit undo of NinuKinuski by Rexxx7777
.. Effective undo of Rexxx7777 by AndyTheGrump
.. Explicit undo of AndyTheGrump by THEREALhistoryandgames
.. Explicit undo of THEREALhistoryandgames by Drdpw
.. Effective undo of THEREALhistoryandgames by Drdpw
.. Explicit undo of Omnipaedista by Cbe46
.. Effective undo of Cbe46 by Drdpw
.. Explicit undo of Cityplace2711 by Urban Versis 32
.. Explicit undo of Urban Versis 32 by Drdpw
.. Effective undo of Urban Versis 32 by Drdpw
.. Explicit undo of Tiptopper by Parham wiki
.. Explicit undo of Parham wiki by Drdpw
.. Effective undo of Parham wiki by Drdpw
.. Explicit undo of Aubernas by Fanatizka
.. Effective undo of Fanatizka by AndyTheGrump
.. Explicit undo of Zepellin the I by Cityplace2711
.. Effective undo of Cityplace2711 by Drdpw

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----- EDITS -----

Ranked number of user changes: number and average time interval

```

>          Drdpw (93)  av_delta 4.74 (days)
>          Wow (58)  av_delta 1.26 (days)
>          Kyleung05 (22)  av_delta 7.53 (days)
>          Citation bot (21)  av_delta 23.15 (days)
>          X-Editor (20)  av_delta 22.68 (days)
>          Politicsfan4 (19)  av_delta 39.58 (days)
>          Rjensen (18)  av_delta 411.56 (days)
>          (15)  av_delta 61.21 (days)
>          The One I Left (14)  av_delta 21.39 (days)
>          Surtsicna (14)  av_delta 112.45 (days)
>          Armduino (12)  av_delta 2.57 (days)
>          JJMC89 bot III (12)  av_delta 108.82 (days)
>          Onghai1929 (12)  av_delta 18.51 (days)
>          Basil the Bat Lord (10)  av_delta 300.05 (days)
>          Yodabyte ( 9)  av_delta 0.61 (days)
> Renamed user 150tcy3tya3ql ( 8)  av_delta 12.23 (days)
> Ser Amantio di Nicolao ( 8)  av_delta 13.71 (days)
>          GoodDay ( 8)  av_delta 47.76 (days)
>          Biruxx ( 8)  av_delta 40.84 (days)
>          GuardianH ( 7)  av_delta 37.07 (days)
>          Wikinerd881 ( 7)  av_delta 37.64 (days)
>          GreenC bot ( 7)  av_delta 144.77 (days)
>          JLo-Watson ( 7)  av_delta 148.95 (days)
>          ValarianB ( 7)  av_delta 50.60 (days)
>          Maxeto0910 ( 6)  av_delta 106.81 (days)
>          Woko Sapien ( 6)  av_delta 108.62 (days)
>          TomCat4680 ( 6)  av_delta 0.00 (days)
>          Toa Nidhiki05 ( 6)  av_delta 90.25 (days)
>          Demon fire 1256 ( 6)  av_delta 0.00 (days)
>          Thrakxx ( 6)  av_delta 21.72 (days)
>          Toby72 ( 6)  av_delta 47.40 (days)
>          Flix11 ( 5)  av_delta 0.01 (days)
>          Freshacconci ( 5)  av_delta 198.67 (days)
>          Corkythehornetfan ( 5)  av_delta 597.72 (days)
>          InedibleHulk ( 5)  av_delta 0.00 (days)
>          Kches16414 ( 5)  av_delta 0.40 (days)
>          HighlyLogicalVulcan ( 5)  av_delta 0.44 (days)
>          Brucejoel99 ( 5)  av_delta 19.48 (days)
> InPursuitOfAMorePerfectUnion ( 5)  av_delta 0.45 (days)

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> Agent123456789 ( 4) av_delta 1.16 (days)
> MusenInvincible ( 4) av_delta 21.04 (days)
> Kaltenmeyer ( 4) av_delta 185.69 (days)
> Rdfalberg ( 4) av_delta 127.51 (days)
> RandomUserGuy1738 ( 4) av_delta 101.68 (days)
> Cityplace2711 ( 4) av_delta 21.32 (days)
> Pete unseth ( 4) av_delta 14.99 (days)
> Rexxx7777 ( 4) av_delta 58.58 (days)
> Ivanvector ( 4) av_delta 68.70 (days)
> LosPajaros ( 4) av_delta 32.85 (days)
> AnomieBOT ( 4) av_delta 477.31 (days)
> InternetArchiveBot ( 4) av_delta 264.80 (days)
> BrownHairedGirl ( 3) av_delta 82.67 (days)
> WikiCleanerMan ( 3) av_delta 176.94 (days)
> Cookiehead ( 3) av_delta 481.10 (days)
> Augmanjr3334 ( 3) av_delta 0.00 (days)
> Rlink2 ( 3) av_delta 109.03 (days)
> Goszei ( 3) av_delta 95.79 (days)
> Apmh ( 3) av_delta 0.00 (days)
> Sundayclose ( 3) av_delta 10.31 (days)
> Pennsylvania2 ( 3) av_delta 24.66 (days)
> Weaveravel ( 3) av_delta 0.00 (days)
> Arjayay ( 3) av_delta 533.68 (days)
> DemonDays64 Bot ( 3) av_delta 33.97 (days)
> Ohconfucius ( 3) av_delta 0.00 (days)
> Dogle99 ( 3) av_delta 0.00 (days)
> EditMaker Me ( 3) av_delta 0.01 (days)
> Praxidicae ( 3) av_delta 148.24 (days)
> AndyTheGrump ( 3) av_delta 117.45 (days)
> GamerKiller2347 ( 3) av_delta 4.56 (days)
> AlleyRegent69 ( 3) av_delta 2.13 (days)
> Dhruvh ( 3) av_delta 250.44 (days)
> Exp691 ( 3) av_delta 0.00 (days)
> Willform ( 3) av_delta 91.37 (days)
> GiantSnowman ( 3) av_delta 310.68 (days)
> Mismak the Smart ( 3) av_delta 0.02 (days)
> Bender the Bot ( 3) av_delta 359.31 (days)
> Iamahumanborninearth ( 3) av_delta 62.84 (days)
> Amigao ( 2) av_delta 0.00 (days)
> Cliffmore ( 2) av_delta 0.00 (days)
> TatesTopG ( 2) av_delta 0.00 (days)
> SomebodyAnyBody05 ( 2) av_delta 0.04 (days)
> Evaline Nakano ( 2) av_delta 0.00 (days)
> Larry Hockett ( 2) av_delta 313.64 (days)
> Philip Cross ( 2) av_delta 0.00 (days)
> XTheBedrockX ( 2) av_delta 0.75 (days)
> Wallnot ( 2) av_delta 11.35 (days)
> Volvlogia ( 2) av_delta 0.00 (days)
> JZimm09 ( 2) av_delta 0.00 (days)
> RowanJ LP ( 2) av_delta 0.00 (days)
> S.Didam ( 2) av_delta 0.00 (days)
> HaeB ( 2) av_delta 483.04 (days)
> Phillip Samuel ( 2) av_delta 0.00 (days)
> DevinMe626 ( 2) av_delta 0.00 (days)
> Apaugasma ( 2) av_delta 12.54 (days)
> Iamreallygoodatcheckers ( 2) av_delta 131.41 (days)
> Srich32977 ( 2) av_delta 0.09 (days)
> Sativa Inflorescence ( 2) av_delta 8.14 (days)
> Special-T ( 2) av_delta 6.68 (days)
> CNC33 ( 2) av_delta 0.00 (days)
> Blue Moses ( 2) av_delta 0.00 (days)
> FreewayDan ( 2) av_delta 33.13 (days)
> JeffLynne1977 ( 2) av_delta 7.85 (days)

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> Therequiembellishere ( 2) av_delta 517.68 (days)
> Jaredscribe ( 2) av_delta 0.00 (days)
> Doktor Zm ( 2) av_delta 0.00 (days)
> Chrisahn ( 2) av_delta 0.29 (days)
> DonSpencer1 ( 2) av_delta 0.56 (days)
> BarrelProof ( 2) av_delta 0.00 (days)
> WTSherman84 ( 2) av_delta 0.01 (days)
> Needforspeed888 ( 2) av_delta 304.37 (days)
> Thenightaway ( 2) av_delta 182.07 (days)
> Historybuff18 ( 2) av_delta 3.00 (days)
> Ethans1234 ( 2) av_delta 0.68 (days)
> Anastrophe ( 2) av_delta 4.77 (days)
> Bhawbh ( 2) av_delta 0.00 (days)
> Monkbot ( 2) av_delta 21.81 (days)
> Mrbeastmodeallday ( 2) av_delta 0.00 (days)
> Mismak Abel ( 2) av_delta 11.23 (days)
> Oblio4 ( 2) av_delta 0.02 (days)
> Joshmaul ( 2) av_delta 0.00 (days)
> Jason594 ( 2) av_delta 0.00 (days)
> SporkBot ( 2) av_delta 211.29 (days)
> Illegitimate Barrister ( 2) av_delta 0.10 (days)
> Biscuit-in-Chief ( 2) av_delta 0.00 (days)
> NapoleonX ( 2) av_delta 0.05 (days)
> WikiCleanerBot ( 2) av_delta 16.20 (days)
> Cewbot ( 2) av_delta 499.11 (days)
> Ittahad-Man ( 2) av_delta 0.06 (days)
> Omnipaedista ( 2) av_delta 102.07 (days)
> FunnyMath ( 2) av_delta 0.24 (days)
> Andrew11995 ( 2) av_delta 2.24 (days)
> Pip Squeak patty number one ( 2) av_delta 2.95 (days)
> RussBot ( 2) av_delta 36.18 (days)
> Toluwan ( 2) av_delta 101.36 (days)
> BlueShirtz ( 2) av_delta 0.00 (days)
> Brobbz ( 2) av_delta 0.00 (days)
> Unknown Temptation ( 2) av_delta 0.00 (days)
> Johnny3936 ( 2) av_delta 0.00 (days)
> Thomascampbell1123 ( 2) av_delta 3.68 (days)
> Historymaj18 ( 2) av_delta 17.22 (days)
> Fanatizka ( 2) av_delta 6.59 (days)
> Scribatorian ( 2) av_delta 6.31 (days)
> Interstellarity ( 2) av_delta 430.09 (days)
> Tompiyatonnid4631 ( 2) av_delta 0.00 (days)
> Abonazzi ( 2) av_delta 0.38 (days)
> HaruhiSuzumiyaIsAGod ( 2) av_delta 2.17 (days)

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Gale5050, Sleps70, AwfulReader, LM150, Maile66, Juliobr3, GRuban, Ciaran.london, Ironman1104, Fireandblood02, Tiptopper, H7opolo, Pittstone, RAMSES\$44932, MrMeAndMrMe, Hussierhussier1, MuhannadDarwish, PJ Geest, Muboshgu, Oritsu.me, Urgal, Drakensks, WelpThatWorked, TheNoblestShroud, THEREALhistoryandgames, Vinyl not cd, Endwise, ARMcgrath, Sadads, Zotel, Futurist110, ApprenticeFan, MagicatthemovieS, Polum, Banedon, HeyElliott, ONUnicorn, RudolfRed, JHunterJ, DerVogel999, Crazy Jay Sphere, Keith D, TommyBoy, Ich, SS49, Gore Theodore, 9toedfreak, WP Ludicer, AngryHarpy, PrairieKid, CliffordJones, Mgasparin, Geminin667, Vjmlhds, Ganesha811, Parham wiki, Love of Corey, Undead Shambles, Llewee, Comp.arch, WorldMappings, Eem dik doun in toene, Declanmath, Aldair, DoebLoggs, Eric0928, ThePickeringtonian, Arkon, Rodw, Captainamerica099, Marty5550, Aubernas, Phruizler, BostonMensa, SchutteGod, Telefocus, Gunwriter, UKoch, Coltsfan, Osterluzei, Abed93, PJRoRo, HiLo48, AndyFielding, Nforystek, OCNative, Cbe46, ChristianCanada, QuestFour, TribeHasSpoken, TomVenam2021, Devonian Wombat, SweetMilkTea13, AirshipJungleman29, Dimadick, Urban Versis 32, Mukilteoedits, Kavyansh.Singh, Xboxsponge15, JCW-CleanerBot, Anotheroneuser, DocWatson42, ThePodfather, LongLivePortugal, Rice n Noodles, Dawnleelynn, Twotwice, Zepellin the I, Dicklyon, Bri, RHodnett, GreenCows, Crazy Guitar, PlanespotterA320, TurtleBlossomOwnsTheNight, Richard75, Gabriel Ziegler, Sdkb, Glen, Yanayeungyuenkonguy, EmmaCoop, Squeeps10, Righttooth, Fabricator, Harfarhs, Tisnec, DavidBrooks-AWB, Hanif Al Husaini, JorgeBenJorge, 888888jdog, Dissident93, Phrogge, Rockhead126, Lightiggy, Kandyname, ITBF, SunDawn, Atlantisandlemuria, Typewritwr12, SilverLocust, Bruce leverett, Akaibu1, Mltg404, Marcocapelle, Mvolz, RobotGoggles, Aquillion, Kuanzhu, WurmWoode, Trappist the monk,

Electricmaster, WhisperToMe, Abel111222, PoetVeches, Terry g. bishop, EditQwerty, 777burger, Jpgordon, VickKiang, John of Reading, TrailBlzr, Nick.mon, Anlalias, PBZE, RehmanK786, Baronnet, Mommmmy, PrimeBOT, Sedathaz, Benmite, Chii888, BD2412, Homeostasis39, Ocba, Tomhenwil, Peter Ormond, Gsnp113, LizardJr8, TheTechnician27, ArnavSharmaz0602, Truthfactsmatter, Mrytzkalmyr, Bobfrombrockley, Grbergs Gra Sng, Donkey Hot-day, Thatwhichmay, NinuKinuski, Coxal Xhamichi, RedfiveXW, Oronsay, Benjamin3\$hunna, CapitalSasha, 1234qwer1234qwer4, Nilesfrancis, Mitchumch, Spy-cicle, Flyingfishee, Icanttalkaboutit, Openmy, Fakescientist8000, Jacknixonsaints, Novemberjazz, Ysangkok, Roccerbot, Mupper-san, Grand Moff Farmer, NoTribbleAtAll, Espngeek, Aardwolf68, Enddaca, SpicyCheese, Red-tailed hawk, Certes, Jonesey95, BIGSNEK, Zloyvolshheb, CoreyRHolcombe, Fuzheado, Hairy Dude, Reattacollector, RFBailey, White whirlwind, LJF2019, BHGbot, EdmundT, Zaiisao, Mythdon, LordBirdWord, BattyBot, M.boli, SUM1, TemplatePeterBaldwin, Pompous Retail, The Man in Question, Hazhk, Onetwothreeip, Isi96, Toasty3563,

Reversions (agents exhibiting contentious behaviour)

R Drdpw (94) of 93 after average of 21.98 mins  
R Kyleung05 (15) of 22 after average of 6599.01 mins  
R Wow (9) of 58 after average of 372.97 mins  
R ValarianB (8) of 7 after average of 12.36 mins  
R X-Editor (7) of 20 after average of 1585.21 mins  
R Demon fire 1256 (6) of 6 after average of 86.28 mins  
R Freshaconci (6) of 5 after average of 37.43 mins  
R Sundayclose (5) of 3 after average of 117.72 mins  
R Corkythehornetfan (4) of 5 after average of 153.24 mins  
R Praxidicae (4) of 3 after average of 0.72 mins  
R HighlyLogicalVulcan (4) of 5 after average of 334.22 mins  
R HaeB (4) of 2 after average of 73.32 mins  
R Wikinerd881 (4) of 7 after average of 4548.51 mins  
R AndyTheGrump (3) of 3 after average of 1.20 mins  
R Pete unseth (3) of 4 after average of 3306.94 mins  
R Kches16414 (3) of 5 after average of 400.06 mins  
R Yodabyte (3) of 9 after average of 1522.34 mins  
R Mismak the Smart (3) of 3 after average of 189.02 mins  
R EditMaker Me (3) of 3 after average of 528.84 mins  
R Historybuff18 (3) of 2 after average of 2070.72 mins  
R Dogle99 (3) of 3 after average of 1068.38 mins  
R Ivanvector (3) of 4 after average of 0.84 mins  
R Toa Nidhiki05 (3) of 6 after average of 0.60 mins  
R Jaredscribe (2) of 2 after average of 513.72 mins  
R SunDawn (2) of 1 after average of 0.60 mins  
R Willform (2) of 3 after average of 763.92 mins  
R Arkon (2) of 1 after average of 4.20 mins  
R Cityplace2711 (2) of 4 after average of 2604.60 mins  
R Toby72 (2) of 6 after average of 2311.56 mins  
R LizardJr8 (2) of 1 after average of 13.20 mins  
R Larry Hockett (2) of 2 after average of 0.00 mins  
R Rdfalberg (2) of 4 after average of 2289.48 mins  
R Brobbz (2) of 2 after average of 175.08 mins  
R Ittahad-Man (2) of 2 after average of 1357.32 mins  
R Iamahumanborninearth (2) of 3 after average of 2681.40 mins  
R GoodDay (2) of 8 after average of 2490.00 mins  
R Tompiyatonnid4631 (2) of 2 after average of 132.72 mins  
R Flix11 (2) of 5 after average of 163.80 mins  
R Surtsicna (2) of 14 after average of 253.80 mins  
R Bhawbh (2) of 2 after average of 347.04 mins  
R ITBF (2) of 1 after average of 12.00 mins  
R Evaline Nakano (2) of 2 after average of 1211.40 mins  
R Phrogge (2) of 1 after average of 946.80 mins  
R WTSherman84 (2) of 2 after average of 3548.88 mins  
R Wallnot (2) of 2 after average of 133.80 mins  
R Augmanjr3334 (2) of 3 after average of 969.60 mins  
R Thrakkx (2) of 6 after average of 9.00 mins  
R Rxxxx7777 (1) of 4 after average of 637.20 mins  
R Geminin667 (1) of 1 after average of 366.60 mins

R Terry g. bishop (1) of 1 after average of 834.60 mins  
R Benjamin3\$hunna (1) of 1 after average of 1075.20 mins  
R NapoleonX (1) of 2 after average of 0.00 mins  
R Declanmath (1) of 1 after average of 7854.00 mins  
R Tomhenwil (1) of 1 after average of 833.40 mins  
R Typewritwr12 (1) of 1 after average of 3711.60 mins  
R Grbergs Gra Sng (1) of 1 after average of 0.00 mins  
R Juliobrz (1) of 1 after average of 8926.80 mins  
R RehmanK786 (1) of 1 after average of 93.00 mins  
R Kandyname (1) of 1 after average of 1963.80 mins  
R WikiCleanerMan (1) of 3 after average of 1418.40 mins  
R Mismak Abel (1) of 2 after average of 3675.00 mins  
R Osterluzei (1) of 1 after average of 221.40 mins  
R (1) of 15 after average of 0.60 mins  
R Andrew11995 (1) of 2 after average of 42.60 mins  
R ChristianCanada (1) of 1 after average of 682.80 mins  
R WorldMappings (1) of 1 after average of 1051.20 mins  
R RAMSES\$44932 (1) of 1 after average of 1741.80 mins  
R THEREALhistoryandgames (1) of 1 after average of 1875.00 mins  
R Fanatizka (1) of 2 after average of 6990.60 mins  
R Ser Amantio di Nicolao (1) of 8 after average of 1204.20 mins  
R Red-tailed hawk (1) of 1 after average of 25.80 mins  
R Crazy Jay Sphere (1) of 1 after average of 4464.00 mins  
R DoebLoggs (1) of 1 after average of 6.60 mins  
R The One I Left (1) of 14 after average of 231.00 mins  
R TurtleBlossomOwnsTheNight (1) of 1 after average of 1073.40 mins  
R Gore Theodore (1) of 1 after average of 6864.60 mins  
R Yanayeungyuenkonguy (1) of 1 after average of 2623.80 mins  
R Parham wiki (1) of 1 after average of 5087.40 mins  
R 9toedfreak (1) of 1 after average of 2752.80 mins  
R HiLo48 (1) of 1 after average of 384.00 mins  
R Atlantisandlemuria (1) of 1 after average of 1134.60 mins  
R Richard75 (1) of 1 after average of 0.00 mins  
R Jacknixonsaints (1) of 1 after average of 2050.20 mins  
R Vjmlhds (1) of 1 after average of 419.40 mins  
R Banedon (1) of 1 after average of 0.00 mins  
R Kaltenmeyer (1) of 4 after average of 4.20 mins  
R Toasty3563 (1) of 1 after average of 621.00 mins  
R TatesTopG (1) of 2 after average of 1.80 mins  
R Cbe46 (1) of 1 after average of 2421.00 mins  
R Ironman1104 (1) of 1 after average of 636.60 mins  
R Aardwolf68 (1) of 1 after average of 1351.80 mins  
R GRuban (1) of 1 after average of 39.60 mins  
R Dhruvh (1) of 3 after average of 7693.20 mins  
R Lightiggy (1) of 1 after average of 0.00 mins  
R HaruhiSuzumiyaIsAGod (1) of 2 after average of 139.80 mins  
R Twotwice (1) of 1 after average of 0.00 mins  
R Fakescientist8000 (1) of 1 after average of 159.00 mins  
R Nilesfrancis (1) of 1 after average of 299.40 mins  
R Dawnleelynn (1) of 1 after average of 3536.40 mins  
R Armduino (1) of 12 after average of 137.40 mins  
R Cookiehead (1) of 3 after average of 2904.60 mins  
R Mupper-san (1) of 1 after average of 436.80 mins  
R Ethans1234 (1) of 2 after average of 598.20 mins  
R Sedathaz (1) of 1 after average of 1372.20 mins  
R Kuanzhu (1) of 1 after average of 111.00 mins  
R TomVenam2021 (1) of 1 after average of 6.00 mins  
R Marty5550 (1) of 1 after average of 3150.60 mins  
R Jpgordon (1) of 1 after average of 0.00 mins  
R Urban Versis 32 (1) of 1 after average of 2598.00 mins

\*\*\*\*\*  
> Infer user promise/intent



> 100% changes are reversions, then they are police  
> 30% of changes are reversions contentious

\*\*\*\*\*

CONTENTIOUS	Drdpw (94) of 93 after average of 21.98 mins
CONTENTIOUS	Kyleung05 (15) of 22 after average of 6599.01 mins
CONTENTIOUS	ValarianB (8) of 7 after average of 12.36 mins
CONTENTIOUS	X-Editor (7) of 20 after average of 1585.21 mins
POLICING	Demon fire 1256 (6) of 6 after average of 86.28 mins
CONTENTIOUS	Freshacconci (6) of 5 after average of 37.43 mins
CONTENTIOUS	Sundayclose (5) of 3 after average of 117.72 mins
CONTENTIOUS	Corkythehornetfan (4) of 5 after average of 153.24 mins
CONTENTIOUS	Praxidicae (4) of 3 after average of 0.72 mins
CONTENTIOUS	HighlyLogicalVulcan (4) of 5 after average of 334.22 mins
CONTENTIOUS	HaeB (4) of 2 after average of 73.32 mins
CONTENTIOUS	Wikinerd881 (4) of 7 after average of 4548.51 mins
POLICING	AndyTheGrump (3) of 3 after average of 1.20 mins
CONTENTIOUS	Pete unseth (3) of 4 after average of 3306.94 mins
CONTENTIOUS	Kches16414 (3) of 5 after average of 400.06 mins
CONTENTIOUS	Yodabyte (3) of 9 after average of 1522.34 mins
POLICING	Mismak the Smart (3) of 3 after average of 189.02 mins
POLICING	EditMaker Me (3) of 3 after average of 528.84 mins
CONTENTIOUS	Historybuff18 (3) of 2 after average of 2070.72 mins
POLICING	Dogle99 (3) of 3 after average of 1068.38 mins
CONTENTIOUS	Ivanvector (3) of 4 after average of 0.84 mins
CONTENTIOUS	Toa Nidhiki05 (3) of 6 after average of 0.60 mins
POLICING	Jaredscribe (2) of 2 after average of 513.72 mins
CONTENTIOUS	SunDawn (2) of 1 after average of 0.60 mins
CONTENTIOUS	Willform (2) of 3 after average of 763.92 mins
CONTENTIOUS	Arkon (2) of 1 after average of 4.20 mins
CONTENTIOUS	Cityplace2711 (2) of 4 after average of 2604.60 mins
CONTENTIOUS	Tobby72 (2) of 6 after average of 2311.56 mins
CONTENTIOUS	LizardJr8 (2) of 1 after average of 13.20 mins
POLICING	Larry Hockett (2) of 2 after average of 0.00 mins
CONTENTIOUS	Rdfalberg (2) of 4 after average of 2289.48 mins
POLICING	Brobbz (2) of 2 after average of 175.08 mins
POLICING	Ittahad-Man (2) of 2 after average of 1357.32 mins
CONTENTIOUS	Iamahumanborninearth (2) of 3 after average of 2681.40 mins
POLICING	Tompiyatonnid4631 (2) of 2 after average of 132.72 mins
CONTENTIOUS	Flix11 (2) of 5 after average of 163.80 mins
POLICING	Bhawbh (2) of 2 after average of 347.04 mins
CONTENTIOUS	ITBF (2) of 1 after average of 12.00 mins
POLICING	Evaline Nakano (2) of 2 after average of 1211.40 mins
CONTENTIOUS	Phrogge (2) of 1 after average of 946.80 mins
POLICING	WTSherman84 (2) of 2 after average of 3548.88 mins
POLICING	Wallnot (2) of 2 after average of 133.80 mins
CONTENTIOUS	Augmanjr3334 (2) of 3 after average of 969.60 mins
CONTENTIOUS	Thrakkx (2) of 6 after average of 9.00 mins
POLICING	Geminin667 (1) of 1 after average of 366.60 mins
POLICING	Terry g. bishop (1) of 1 after average of 834.60 mins
POLICING	Benjamin3\$hunna (1) of 1 after average of 1075.20 mins
POLICING	Declanmath (1) of 1 after average of 7854.00 mins
POLICING	Tomhenwil (1) of 1 after average of 833.40 mins
POLICING	Typewritwr12 (1) of 1 after average of 3711.60 mins
POLICING	Grbergs Gra Sng (1) of 1 after average of 0.00 mins
POLICING	Juliobrz (1) of 1 after average of 8926.80 mins
POLICING	RehmanK786 (1) of 1 after average of 93.00 mins
POLICING	Kandyname (1) of 1 after average of 1963.80 mins
POLICING	Osterluzei (1) of 1 after average of 221.40 mins
POLICING	ChristianCanada (1) of 1 after average of 682.80 mins
POLICING	WorldMappings (1) of 1 after average of 1051.20 mins
POLICING	RAMSES\$44932 (1) of 1 after average of 1741.80 mins
POLICING	THEREALhistoryandgames (1) of 1 after average of 1875.00 mins



>> (Rank leg interest level (anomalous interest) 17 = 0.009321001114089691 )  
 >> (Rank leg interest level (anomalous interest) 18 = 0.0011231839830300053 )  
 >> (Rank leg interest level (anomalous interest) 19 = 0.007947652272573031 )  
 >> (Rank leg interest level (anomalous interest) 20 = 0.02109908065312238 )  
 >> (Rank leg interest level (anomalous interest) 21 = 0.009315878343542451 )  
 >> (Rank leg interest level (anomalous interest) 22 = 0.021558977101402053 )  
 >> (Rank leg interest level (anomalous interest) 23 = 0.01685427015297732 )  
 >> (Rank leg interest level (anomalous interest) 24 = 0.002432931206433902 )  
 >> (Rank leg interest level (anomalous interest) 25 = 0.025860663482167263 )  
 >> (Rank leg interest level (anomalous interest) 26 = 0.015850138174766847 )  
 >> (Rank leg interest level (anomalous interest) 27 = 0.02469871922290923 )  
 >> (Rank leg interest level (anomalous interest) 28 = 0.010794369095072953 )  
 >> (Rank leg interest level (anomalous interest) 29 = 0.033405176017477424 )  
 >> (Rank leg interest level (anomalous interest) 30 = 0.03732419431152824 )  
 >> (Rank leg interest level (anomalous interest) 31 = 0.16666666666666666 )

EVENT[Leg 31 selects 343]: so just listing Crawford as his sole residence is doubly inaccurate  
 17 August 2022. Official, though part time, residence is near Crawford. Primary 18 August 2022.  
 2008 Baghdad shoeing : clarify 19 August 2022. : Mobile edit Mobile app edit iOS app edit 20 August 2022.  
 Education : nonnumericnonnumerical Merriam-Webster 23 August 2022. Economic policy : townhalltown hall  
 Merriam-Webster. Publications and appearances : moved media : Visual edit 27 August 2022. . :  
 Reverted Mobile edit Mobile web edit Advanced mobile edit 28 August 2022. Reverted 1 edit by  
 Wikinerd881 talk : Not known primarily as a businessman : Twinkle Undo Reverted. yes businessman  
 until age 42 then shift to government & politics : Undo. : Reverted Mobile edit Mobile app edit  
 31 August 2022. : Reverted Mobile edit Mobile app edit. : Reverted Mobile edit Mobile app edit. :  
 Reverted Mobile edit Mobile app edit. : Reverted Mobile edit Mobile app edit. : Reverted Mobile edit  
 Mobile app edit. : Reverted Mobile edit Mobile app edit. : Reverted Mobile edit Mobile app edit  
 iOS app edit 1 September 2022. : Reverted Mobile edit Mobile app edit iOS app edit.  
 Reverted 9 edits by Kyleung05 talk : Rv disruptive editing : Twinkle Undo 2 September 2022.  
 MOS:ROLEBIO. : Reverted Visual edit 3 September 2022. Reverted edits by Atlantisandlemuria  
 talk to last version by FMSky : Rollback. External links 4 September 2022. : Reverted Mobile  
 edit Mobile web edit Advanced mobile edit 5 September 2022. Undid revision 1108774459 by  
 Wikinerd881 talk consistent with the other degree : Undo. removed ; added using HotCat.  
 Business career : Reverted 6 September 2022. Reverted 1 edit by 9toedfreak talk :  
 Interesting, but not really noteworthy in the grand scheme of his life.

EVENT[Leg 31 selects 344]: : Twinkle Undo. Caption : Mobile edit Mobile web edit. :  
 Reverted Mobile edit Mobile app edit 9 September 2022. : Manual revert Mobile edit  
 Mobile app edit. context : Reverted Visual edit 10 September 2022. Undid revision 1109851714 by  
 X-Editor talk point discussed later in article : Undo. : Mobile edit Mobile web edit  
 Advanced mobile edit 12 September 2022. Military career : Tense : Mobile edit Mobile web edit  
 Advanced mobile edit. no periods. : Reverted Mobile edit Mobile app edit 14 September 2022.  
 Undid revision 1111608535 by Kyleung05 talk : Undo. 21 September 2022. removed stray mark. :  
 Reverted Mobile edit Mobile web edit Advanced mobile edit 25 September 2022.  
 Reverted good faith edits by Wikinerd881 talk : High/Prep School not included : Twinkle Undo. . :  
 Reverted Mobile edit Mobile web edit Advanced mobile edit 28 September 2022. rm comma per  
 MOS:JR via WP:JWB 3 October 2022. Undid revision 1113731603 by Wikinerd881 talk :  
 Undo. even the archived versions of the citations seem unrelated to the text its meant  
 to support, also could we not just get someone to upload a picture of the similar nature  
 to the Commons to directly embed if we want to use that instead of a Flickr cite?

EVENT[Leg 31 selects 345]: : Visual edit 4 October 2022. no sentence : Visual edit Mobile  
 edit Mobile web edit Advanced mobile edit 10 October 2022. no sentence : Visual edit  
 Mobile edit Mobile web edit Advanced mobile edit. . : Reverted 19 October 2022.  
 Reverted 1 edit by Typewritwr12 talk : Not constructive : Twinkle Undo. 24 October 2022.  
 in light of Bush falling to

>> (Rank leg interest level (anomalous interest) 32 = 0.06153111471553373 )  
 >> (Rank leg interest level (anomalous interest) 33 = 0.04981663809174376 )  
 >> (Rank leg interest level (anomalous interest) 34 = 0.01907566796771174 )  
 >> (Rank leg interest level (anomalous interest) 35 = 0.08122333681239892 )  
 >> (Rank leg interest level (anomalous interest) 36 = 0.006503585651131794 )  
 >> (Rank leg interest level (anomalous interest) 37 = 0.05822264550055135 )

>> (Rank leg interest level (anomalous interest) 38 = 0.9783868230753955 )

EVENT[Leg 38 selects 419]: UCB\_Gadget. : Visual edit 7 June 2023. Collaborations : Bluelink  
September 11 terrorist attacks : Reverted Visual edit 9 June 2023. Collaborations :  
September 11 terrorist attacks article linked-to already : Reverted. Collaborations :  
+commas : Manual revert. : Visual edit Mobile edit Mobile web edit 12 June 2023.  
ce : Visual edit. 14 June 2023. Alcohol abuse : no need to link common term "arrested".  
hyperlink: United States presidential election

EVENT[Leg 38 selects 421]: : Reverted Visual edit Mobile edit Mobile web edit 19 June 2023.  
Reverted good faith edits by Parham wiki talk : Inaccurate : Twinkle Undo.  
Afghanistan invasion : Add link 25 June 2023. PEPFAR : Visual edit Mobile edit  
Mobile web edit 26 June 2023. Foreign policy : Nation-building : Reverted 29 June 2023.  
Undid revision 1164008381 by Fanatizka talk puffery, clearly not supported by the source cited.

EVENT[Leg 38 selects 422]: : Undo. Tweaked wording, cut fluff from sentence.  
Presidency 20012009 : ref from link : 2017 wikitext editor. Domestic policy :  
reffix : 2017 wikitext editor. 7 July 2023. link to presidency article not included in  
lede. ranks : Visual edit 8 July 2023. Minor fix of passive voice : Reverted Visual edit  
9 July 2023. Added link to disambiguation for those who may be looking for other people of  
similar name : Reverted Mobile edit Mobile app edit iOS app edit Disambiguation links added  
10 July 2023. Restored revision 1164438922 by Zepellin the I talk : People coming to this  
page will most likely be looking for this George Bush or for his father : Twinkle Undo.  
Foreign perceptions : already linked in sentence earlier 13 July 2023.  
period after sentence : Visual edit Mobile edit Mobile web edit Advanced mobile edit.

-----  
Notable events = 18 of total 1294 efficiency = 7188.888888888889 %  
-----

----- Sumarize ngram Intentionality threshold selection -----

1 organizations 3 3 ----- 3.9  
1 historians 4 4 ----- 4  
1 verifiability 3 3 ----- 3.9  
1 increasing 3 3 ----- 3  
1 favorably 3 3 ----- 2.699999999999997  
1 wayback 8 8 ----- 5.6000000000000005  
1 million 7 7 ----- 4.8999999999999995  
1 democrats 7 7 ----- 6.3  
1 during 38 38 ----- 22.799999999999997  
1 early 15 15 ----- 12  
1 growing 3 3 ----- 2.1  
1 states" 3 3 ----- 2.1  
1 october 42 42 ----- 29.400000000000002  
1 defeated 5 5 ----- 4  
1 creation 4 4 ----- 3.2  
1 counsel 3 3 ----- 2.1  
1 republican 23 23 ----- 23  
1 substantive 3 3 ----- 3.3  
1 growth 4 4 ----- 2.4000000000000004  
1 making 5 5 ----- 3  
1 sentences 7 7 ----- 6.3  
1 house 19 19 ----- 9.5  
1 sense 3 3 ----- 1.5  
1 recategorize 3 3 ----- 3.5999999999999996  
1 opposition 7 7 ----- 7  
1 russian 3 3 ----- 2.1  
1 change 9 9 ----- 5.4  
1 korea 15 15 ----- 7.5  
1 capture 4 4 ----- 2.8000000000000003  
1 himself 7 7 ----- 4.8999999999999995  
1 helper 4 4 ----- 2.4000000000000004  
1 america 7 7 ----- 4.8999999999999995

1 either 3 3 ----- 1.799999999999998  
1 legislative 3 3 ----- 3.3  
1 supported 9 9 ----- 8.1  
1 mission 3 3 ----- 2.1  
1 tenth 3 3 ----- 1.5  
1 2009" 3 3 ----- 1.5  
1 passed 6 6 ----- 3.599999999999996  
1 amnesty 3 3 ----- 2.1  
1 archive 7 7 ----- 4.899999999999995  
1 primary 5 5 ----- 3.5  
1 category 13 13 ----- 10.4  
1 offshore 3 3 ----- 2.4  
1 event 6 6 ----- 3  
1 secretary 6 6 ----- 5.399999999999995  
1 makes 3 3 ----- 1.5  
1 dismissal 4 4 ----- 3.6  
1 title 10 10 ----- 5  
1 outside 3 3 ----- 2.1  
1 moving 5 5 ----- 3  
1 really 3 3 ----- 1.799999999999998  
1 various 3 3 ----- 2.1  
1 tactics 4 4 ----- 2.8000000000000003  
1 description 4 4 ----- 4.4  
1 texans 3 3 ----- 1.799999999999998  
1 judge 6 6 ----- 3  
1 under 11 11 ----- 5.5  
1 links 38 38 ----- 19  
1 editor 13 13 ----- 7.800000000000001  
1 nothing 4 4 ----- 2.8000000000000003  
1 techniques 3 3 ----- 3  
1 treatment 3 3 ----- 2.699999999999997  
1 highest 3 3 ----- 2.1  
1 convention 5 5 ----- 5  
1 authority 5 5 ----- 4.5  
1 harriet 3 3 ----- 2.1  
1 incidents 8 8 ----- 7.2  
1 serious 3 3 ----- 2.1  
1 election 33 33 ----- 26.4  
1 according 13 13 ----- 11.700000000000001  
1 portrayed 4 4 ----- 3.6  
1 subsequently 4 4 ----- 4.800000000000001  
1 father 20 20 ----- 12  
1 seems 3 3 ----- 1.5  
1 create 5 5 ----- 3  
1 looking 3 3 ----- 2.1  
1 context 3 3 ----- 2.1  
1 obama 24 24 ----- 12  
1 urged 5 5 ----- 2.5  
1 republicans 4 4 ----- 4.4  
1 increased 15 15 ----- 13.5  
1 houston 3 3 ----- 2.1  
1 "this 3 3 ----- 1.5  
1 richards 5 5 ----- 4  
1 rally 3 3 ----- 1.5  
1 pickett 3 3 ----- 2.1  
1 alberto 4 4 ----- 2.8000000000000003  
1 appeared 3 3 ----- 2.4  
1 calling 4 4 ----- 2.8000000000000003  
1 school 14 14 ----- 8.399999999999999  
1 activities 3 3 ----- 3  
1 politician 3 3 ----- 3  
1 leading 4 4 ----- 2.8000000000000003  
1 violence 5 5 ----- 4

1 orleans 4 4 ----- 2.8000000000000003  
1 summer 3 3 ----- 1.7999999999999998  
1 intended 3 3 ----- 2.4  
1 leaders 11 11 ----- 7.7000000000000001  
1 massachusetts 3 3 ----- 3.9  
1 shoeing 7 7 ----- 4.8999999999999995  
1 congress 19 19 ----- 15.2  
1 cells 4 4 ----- 2  
1 reached 4 4 ----- 2.8000000000000003  
1 governments 4 4 ----- 4.4  
1 shoes 4 4 ----- 2  
1 crime 3 3 ----- 1.5  
1 clinton 11 11 ----- 7.7000000000000001  
1 already 9 9 ----- 6.3  
1 disambiguation 10 10 ----- 14  
1 rollback 7 7 ----- 5.6  
1 improve 3 3 ----- 2.1  
1 introduced 3 3 ----- 3  
1 copied 3 3 ----- 1.7999999999999998  
1 citing 3 3 ----- 1.7999999999999998  
1 duplicate 5 5 ----- 4.5  
1 great 4 4 ----- 2  
1 world 12 12 ----- 6  
1 george 74 74 ----- 44.399999999999998  
1 april 58 58 ----- 28.999999999999993  
1 including 19 19 ----- 17.099999999999998  
1 argued 6 6 ----- 3.5999999999999996  
1 protocol 3 3 ----- 2.4  
1 invasion 24 24 ----- 19.2  
1 attacks 32 32 ----- 22.400000000000002  
1 names 3 3 ----- 1.5  
1 hurricane 12 12 ----- 10.799999999999999  
1 20012009 8 8 ----- 8.8  
1 general 18 18 ----- 12.6  
1 gives 3 3 ----- 1.5  
1 district 8 8 ----- 6.4  
1 infobox 11 11 ----- 7.7000000000000001  
1 church 3 3 ----- 1.7999999999999998  
1 someone 3 3 ----- 2.1  
1 business 4 4 ----- 4.4  
1 though 7 7 ----- 4.199999999999999  
1 expand 3 3 ----- 1.7999999999999998  
1 president 89 89 ----- 80.099999999999975  
1 wikipedia 14 14 ----- 12.6  
1 portraits 7 7 ----- 6.3  
1 hatnote 4 4 ----- 2.8000000000000003  
1 material 3 3 ----- 2.4  
1 trillion 9 9 ----- 7.2  
1 small 5 5 ----- 2.5  
1 saddam 3 3 ----- 1.7999999999999998  
1 warming 3 3 ----- 2.1  
1 present 4 4 ----- 2.8000000000000003  
1 improved 7 7 ----- 5.6  
1 right 6 6 ----- 3  
1 expressed 4 4 ----- 3.6  
1 india 4 4 ----- 2  
1 strong 3 3 ----- 1.7999999999999998  
1 leader 10 10 ----- 6  
1 haven 3 3 ----- 1.5  
1 success 7 7 ----- 4.8999999999999995  
1 gonzales 5 5 ----- 4  
1 behind 5 5 ----- 3  
1 advisor 3 3 ----- 2.1

1 previously 6 6 ----- 6  
1 destruction 7 7 ----- 7.699999999999999  
1 campaigns 3 3 ----- 2.6999999999999997  
1 grammar 6 6 ----- 4.2  
1 publications 47 47 ----- 70.5  
1 baseball 5 5 ----- 4  
1 elections 11 11 ----- 9.9  
1 replace 3 3 ----- 2.1  
1 rating 14 14 ----- 8.399999999999999  
1 convicted 3 3 ----- 2.6999999999999997  
1 oversight 3 3 ----- 2.6999999999999997  
1 launched 6 6 ----- 4.8  
1 degree 3 3 ----- 1.7999999999999998  
1 important 4 4 ----- 3.6  
1 military 22 22 ----- 17.6  
1 laden 8 8 ----- 4  
1 order 12 12 ----- 6  
1 jimmy 3 3 ----- 1.5  
1 reduction 3 3 ----- 2.6999999999999997  
1 syria 4 4 ----- 2  
1 blair 5 5 ----- 2.5  
1 additionsdeletions 11 11 ----- 19.8  
1 created 3 3 ----- 2.1  
1 questioned 3 3 ----- 3  
1 needs 3 3 ----- 1.5  
1 involving 5 5 ----- 4.5  
1 worlds 3 3 ----- 1.7999999999999998  
1 certain 3 3 ----- 2.1  
1 karzai 3 3 ----- 1.7999999999999998  
1 sources 10 10 ----- 7  
1 months 3 3 ----- 1.7999999999999998  
1 struggling 3 3 ----- 3  
1 politics 3 3 ----- 2.4  
1 nuremberg 3 3 ----- 2.6999999999999997  
1 previous 4 4 ----- 3.2  
1 anniversary 5 5 ----- 5.5  
1 wording 14 14 ----- 9.799999999999999  
1 designed 3 3 ----- 2.4  
1 organization 4 4 ----- 4.8000000000000001  
1 information 13 13 ----- 14.3  
1 19952000 6 6 ----- 6.6  
1 editing 3 3 ----- 2.1  
1 media 6 6 ----- 3  
1 career 27 27 ----- 16.2000000000000003  
1 governor 3 3 ----- 3.3  
1 senate 10 10 ----- 6  
1 washington 10 10 ----- 10  
1 subcat 4 4 ----- 2.4000000000000004  
1 ordered 6 6 ----- 4.2  
1 spoke 3 3 ----- 1.5  
1 presidents 27 27 ----- 27  
1 incident 6 6 ----- 4.8  
1 killed 6 6 ----- 3.5999999999999996  
1 entered 8 8 ----- 5.6000000000000005  
1 statements 7 7 ----- 7  
1 influence 3 3 ----- 2.6999999999999997  
1 barbara 5 5 ----- 3.5  
1 recession 6 6 ----- 5.3999999999999995  
1 declared 10 10 ----- 8  
1 edited 5 5 ----- 3  
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3 to last revision 4 4 ----- 6.4  
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3 11 terrorist attacks 4 4 ----- 8

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4 september 11 attacks 7 7 ----- 18.9  
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4 to the united states 5 5 ----- 10  
4 his second term bush 3 3 ----- 6  
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4 united states from 2001 5 5 ----- 11.5  
4 different pages the first 3 3 ----- 7.5  
4 united states presidential election 4 4 ----- 14  
4 2022 reverted visual 5 5 ----- 12  
4 2021 reverted visual 3 3 ----- 7.199999999999999  
4 edit visual edit 4 4 ----- 8  
4 revert reverted mobile edit 3 3 ----- 8.1  
4 per mos dateformat by 3 3 ----- 6.3  
4 bush and his wife 3 3 ----- 5.1  
4 september 2022 undid 3 3 ----- 7.199999999999999  
4 what he is primarily 3 3 ----- 6  
4 edit advanced mobile edit 34 34 ----- 85  
4 manual revert reverted mobile 3 3 ----- 8.7  
4 they are not relevant 3 3 ----- 6.3  
4 september 2022 reverted 5 5 ----- 13.5  
4 manual revert reverted 3 3 ----- 7.8  
4 dating maintenance tags 3 3 ----- 8.1  
4 nato russia and arms 10 10 ----- 23  
4 mobile web edit 18 18 ----- 34.2  
4 removing from in 3 3 ----- 6  
4 iraq invasion these 3 3 ----- 7.8  
4 reverted 2 edits 5 5 ----- 10  
4 one of the most 3 3 ----- 4.5  
4 2021 external links 4 4 ----- 10.4  
4 august 2022 reverted 3 3 ----- 7.199999999999999  
4 formats per mos dateformat 3 3 ----- 7.8  
4 advanced mobile edit 10 3 3 ----- 6.899999999999995  
4 invasion these two sentences 3 3 ----- 8.4  
4 twinkle undo reverted 6 6 ----- 15  
4 visual edit reverted 5 5 ----- 12  
4 duplicate word removed 3 3 ----- 7.8  
4 whoop whoop pull up 6 6 ----- 11.4  
4 president of the united 10 10 ----- 23  
4 changing short description from 3 3 ----- 9.299999999999999  
4 to last revision by 4 4 ----- 7.600000000000005  
4 may 2020 reverted 3 3 ----- 6.3  
4 may 2021 reverted 3 3 ----- 6.3  
4 suggested by whoop whoop 5 5 ----- 12  
4 by whoop whoop pull 5 5 ----- 9.5  
4 reverted 1 edit by 33 33 ----- 59.4  
4 visual edit undid 4 4 ----- 8.4  
4 january 2023 added 3 3 ----- 6.6  
4 june 2021 reverted 4 4 ----- 8.8  
4 edit mobile edit mobile 21 21 ----- 48.300000000000004  
4 reverted good faith edits 14 14 ----- 35  
4 to per wikipedia categories 3 3 ----- 8.1  
4 app edit ios app 12 12 ----- 19.2  
4 referring to the individual 3 3 ----- 8.1  
4 legacy visual edit 3 3 ----- 7.5  
4 web edit reverted 7 7 ----- 14.7  
4 edit undid revision 6 6 ----- 13.799999999999999  
4 mobile web edit 13 3 3 ----- 5.399999999999995  
4 second to the page 3 3 ----- 5.399999999999995  
4 app edit reverted 10 10 ----- 21  
4 2022 visual edit 3 3 ----- 6  
4 sentence visual edit mobile 4 4 ----- 10.8  
4 september 2021 reverted 4 4 ----- 10.8  
4 edit ios app edit 12 12 ----- 20.4  
4 first to the iraq 3 3 ----- 5.1

4 issue with my edit 3 3 ----- 5.3999999999999995  
4 visual edit legacy 4 4 ----- 10  
4 foreign policy 4 4 ----- 10  
4 2023 undid revision 4 4 ----- 9.2000000000000001  
4 early life and career 12 12 ----- 28.799999999999997  
4 2022 foreign policy 3 3 ----- 7.8  
4 nopipe and mos nopipe 3 3 ----- 6.3  
4 education and public health 6 6 ----- 18  
4 august 2020 added 4 4 ----- 8.4  
4 removing per wikipedia 5 5 ----- 13  
4 2022 reverted mobile 9 9 ----- 21.6  
4 2021 reverted mobile 3 3 ----- 7.199999999999999  
4 july 2022 reverted 3 3 ----- 6.6  
4 iraq invasion these two 3 3 ----- 7.8  
4 november 2022 reverted 4 4 ----- 10.4  
4 since he left office 3 3 ----- 6  
4 not relevant to this 3 3 ----- 6  
4 sentences are not relevant 3 3 ----- 7.8  
4 war on terror 4 4 ----- 8  
4 additionsdeletions were actually parameter 3 3 ----- 12.6  
4 early political involvement 3 3 ----- 10.2  
4 april 2022 legacy 4 4 ----- 9.6000000000000001  
4 section of gwb page 3 3 ----- 5.7  
4 removing from in subcat 3 3 ----- 6.8999999999999995  
4 page and the second 3 3 ----- 5.7  
4 governor of texas 3 3 ----- 7.199999999999999  
4 mobile edit mobile 25 25 ----- 55  
4 ios app edit 5 5 ----- 8  
4 mobile web edit advanced 34 34 ----- 81.6  
4 visual edit 10 10 ----- 19  
4 edit mobile edit 4 4 ----- 8  
4 weapons of mass destruction 5 5 ----- 13.5  
4 attorney general alberto gonzales 3 3 ----- 9.9  
4 sentences could be placed 3 3 ----- 7.5  
4 from 2001 to 2009" 3 3 ----- 5.3999999999999995  
4 ce lead 3 3 ----- 4.5  
4 reverted good faith 14 14 ----- 32.199999999999996  
4 wikipedia categories for discussionlog2022 3 3 ----- 12.6  
4 two sentences are not 3 3 ----- 6.3  
4 on the talk page 4 4 ----- 6.4  
4 app edit mobile 3 3 ----- 5.7  
4 reverted 2 edits by 5 5 ----- 9.5  
4 reverted edits by 6 6 ----- 12.6  
4 to the page referring 3 3 ----- 6.3  
4 june 2022 reverted 3 3 ----- 6.6  
4 advanced mobile edit 12 3 3 ----- 6.8999999999999995  
4 edit mobile app edit 33 33 ----- 66  
4 arms control treaties ref 4 4 ----- 10  
4 2023 visual edit 4 4 ----- 8  
4 to last version by 4 4 ----- 7.2  
4 simplifying links per wp 3 3 ----- 7.199999999999999  
4 legacy ce 3 3 ----- 6  
4 reverted visual edit 11 11 ----- 26.400000000000002  
4 visual edit mobile edit 21 21 ----- 48.300000000000004  
4 policy of the george 5 5 ----- 10  
4 relevant to this page 3 3 ----- 6.3  
4 visual edit publications 3 3 ----- 9.299999999999999  
4 could be placed in 3 3 ----- 5.3999999999999995  
4 2022 undid revision 15 15 ----- 34.5  
4 reverted 1 edit 33 33 ----- 62.699999999999996  
4 date formats per mos 3 3 ----- 6  
4 2017 wikitext editor 4 4 ----- 9.600000000000001  
4 may 2022 reverted 4 4 ----- 8.4



4 reverted reverted 7 7 ----- 17.5  
4 reverted restored revision 3 3 ----- 9  
4 can use this bot 5 5 ----- 8  
4 be placed in different 3 3 ----- 6.6  
4 child left behind act 3 3 ----- 6.3  
4 duplicate word removed 3 3 ----- 7.8  
4 2021 reverted 4 4 ----- 8.4  
4 alter template type 8 8 ----- 18.400000000000002  
4 reverted to revision 3 3 ----- 7.199999999999999  
4 simplifying links per 3 3 ----- 7.5  
4 you can use this 5 5 ----- 8  
4 from 2001 to 2009 3 3 ----- 5.1  
4 reverted visual edit mobile 10 10 ----- 27  
4 reverted mobile edit 29 29 ----- 69.6  
4 state of the union 7 7 ----- 12.6  
4 2021 iraq invasion 3 3 ----- 7.5  
4 2021 undid revision 6 6 ----- 13.799999999999999  
4 additionsdeletions were parameter name 8 8 ----- 30.400000000000002  
4 reverted undid revision 8 8 ----- 21.6  
4 publications and appearances 9 9 ----- 31.5  
4 mobile edit mobile web 86 86 ----- 189.199999999999956  
4 2022 mobile edit 4 4 ----- 8  
4 september 11 terrorist attacks 4 4 ----- 12  
4 2021 mobile edit 7 7 ----- 14  
4 education and public 6 6 ----- 16.2  
4 links per wp nopipe 3 3 ----- 5.7  
4 edit mobile web edit 86 86 ----- 171.999999999999963  
4 use this bot yourself 5 5 ----- 10.5  
4 tell me if theres 3 3 ----- 5.1  
5 could be placed in different 3 3 ----- 8.4  
5 manual revert reverted mobile edit 3 3 ----- 10.2  
5 2020 reverted 1 edit 6 6 ----- 14.399999999999999  
5 "43rd president of the united 5 5 ----- 14.5  
5 nato russia and arms 10 10 ----- 27  
5 some additionsdeletions were parameter name 8 8 ----- 34.4  
5 reverted mobile edit mobile app 18 18 ----- 55.800000000000004  
5 simplifying links per wp 3 3 ----- 8.4  
5 2022 reverted visual edit 5 5 ----- 14.5  
5 edit advanced mobile edit 12 3 3 ----- 8.4  
5 an issue with my edit 3 3 ----- 6.3  
5 edit advanced mobile edit 7 7 ----- 20.299999999999997  
5 suggested by whoop whoop pull 5 5 ----- 14.5  
5 reverted visual edit mobile edit 10 10 ----- 32  
5 publications and appearances added 7 7 ----- 28.7  
5 talk to last version by 4 4 ----- 9.200000000000001  
5 mobile edit mobile app edit 33 33 ----- 89.1  
5 legacy visual edit 3 3 ----- 8.7  
5 not relevant to this page 3 3 ----- 7.5  
5 edit reverted reverted 3 3 ----- 9  
5 mobile app edit ios app 12 12 ----- 27.599999999999998  
5 to the iraq war page 3 3 ----- 6  
5 by whoop whoop pull up 5 5 ----- 11  
5 edit ios app edit 5 5 ----- 10.5  
5 removing per wikipedia categories 5 5 ----- 18.5  
5 an " axis of evil 3 3 ----- 5.1  
5 edit mobile edit mobile 4 4 ----- 10.8  
5 2022 reverted good faith 3 3 ----- 8.4  
5 mobile app edit reverted 7 7 ----- 19.599999999999998  
5 edit reverted 1 edit 4 4 ----- 9.600000000000001  
5 visual edit undid revision 4 4 ----- 12  
5 duplicate word removed 3 3 ----- 9  
5 manual revert reverted mobile 3 3 ----- 9.9  
5 september 11 attacks reverted 3 3 ----- 10.799999999999999

5 additionsdeletions were parameter name changes 8 8 ----- 36.800000000000004  
5 early life and career 12 12 ----- 33.6  
5 2021 alter template type 3 3 ----- 8.4  
5 undo reverted undid revision 4 4 ----- 12.8  
5 per mos dateformat by script 3 3 ----- 8.4  
5 edit visual edit 3 3 ----- 7.199999999999999  
5 from in subcat using cat-a-lot 3 3 ----- 9  
5 2022 reverted 1 edit 7 7 ----- 16.799999999999997  
5 2021 reverted reverted 3 3 ----- 9  
5 formats per mos dateformat by 3 3 ----- 8.7  
5 reverted 2 edits by 5 5 ----- 11.5  
5 nato russia and arms control 10 10 ----- 31  
5 reverted mobile edit mobile 29 29 ----- 89.89999999999999  
5 edit reverted mobile edit 8 8 ----- 23.200000000000003  
5 app edit mobile edit 3 3 ----- 7.199999999999999  
5 per wikipedia categories for discussionlog2022 3 3 ----- 13.799999999999999  
5 to per wikipedia categories for 3 3 ----- 9.299999999999999  
5 revert reverted mobile edit mobile 3 3 ----- 10.2  
5 iraq invasion these two 3 3 ----- 9  
5 2021 reverted visual edit 3 3 ----- 8.7  
5 removing from in subcat 3 3 ----- 8.1  
5 reverted reverted 2 edits 3 3 ----- 8.7  
5 web edit advanced mobile edit 34 34 ----- 98.6  
5 nopipe and mos nopipe 3 3 ----- 7.5  
5 reverted mobile edit mobile web 27 27 ----- 83.7  
5 sentence visual edit mobile edit 4 4 ----- 12.8  
5 state of the union address 7 7 ----- 18.2  
5 edit advanced mobile edit 10 3 3 ----- 8.4  
5 2021 reverted mobile edit 3 3 ----- 8.7  
5 ios app edit reverted 3 3 ----- 7.5  
5 president of the united states 8 8 ----- 24  
5 2023 reverted 1 edit 3 3 ----- 7.199999999999999  
5 publications and appearances 9 9 ----- 35.1  
5 per wp nopipe and mos 3 3 ----- 6.3  
5 edit mobile web edit 13 3 3 ----- 6.8999999999999995  
5 may 2022 reverted visual 3 3 ----- 8.4  
5 iraq war section of gwb 3 3 ----- 6.8999999999999995  
5 two sentences could be placed 3 3 ----- 8.7  
5 two sentences are not relevant 3 3 ----- 9  
5 app edit reverted mobile 6 6 ----- 16.8  
5 removing per wikipedia categories for 5 5 ----- 18.5  
5 reverted visual edit mobile 7 7 ----- 21.7  
5 2021 reverted 1 edit 5 5 ----- 12  
5 september 2022 undid revision 3 3 ----- 9.9  
5 mobile edit mobile app 10 10 ----- 26  
5 changing short description from 3 3 ----- 10.5  
5 relevant to the iraq war 3 3 ----- 7.199999999999999  
5 iraq invasion these two sentences 3 3 ----- 10.799999999999999  
5 referring to the individual mentioned 3 3 ----- 11.1  
5 can use this bot yourself 5 5 ----- 12.5  
5 arms control treaties ce 3 3 ----- 8.4  
5 43rd president of the united 3 3 ----- 8.4  
5 page referring to the individual 3 3 ----- 9.6  
5 edit mobile web edit advanced 34 34 ----- 98.6  
5 me if theres an issue 3 3 ----- 6.3  
5 undo publications and appearances 4 4 ----- 16  
5 additionsdeletions were actually parameter name 3 3 ----- 14.1  
5 you can use this bot 5 5 ----- 10  
5 date formats per mos dateformat 3 3 ----- 9.299999999999999  
5 war page and the second 3 3 ----- 6.8999999999999995  
5 reverted visual edit undid 3 3 ----- 9  
5 2020 publications and appearances 10 10 ----- 40  
5 mobile edit mobile web 15 15 ----- 39

5 june 2022 undid revision 3 3 ----- 8.4  
5 to the iraq war section 3 3 ----- 6.899999999999995  
5 mobile web edit advanced mobile 34 34 ----- 105.39999999999999  
5 app edit ios app edit 12 12 ----- 25.2  
5 not relevant to the iraq 3 3 ----- 7.199999999999999  
5 some additionsdeletions were actually parameter 3 3 ----- 14.1  
5 edit mobile edit mobile web 21 21 ----- 56.7  
5 war section of gwb page 3 3 ----- 6.899999999999995  
5 reverted reverted 1 edit 6 6 ----- 16.8  
5 second to the page referring 3 3 ----- 8.4  
5 undo mobile edit mobile 3 3 ----- 8.1  
5 mobile web edit reverted 7 7 ----- 19.599999999999998  
5 sentences could be placed in 3 3 ----- 8.4  
5 edit publications and appearances 4 4 ----- 16  
5 mobile app edit mobile 3 3 ----- 7.8  
5 reverted 1 edit by 33 33 ----- 72.6  
5 education and public health 6 6 ----- 20.4  
5 reverted good faith edits by 14 14 ----- 39.199999999999996  
5 reverted good faith edits 14 14 ----- 40.599999999999994  
5 2021 publications and appearances 5 5 ----- 20  
5 russia and arms control treaties 10 10 ----- 32  
5 2022 reverted mobile edit 9 9 ----- 26.1  
5 edit mobile app edit ios 12 12 ----- 28.799999999999997  
5 talk to last revision by 4 4 ----- 9.600000000000001  
5 2022 mobile edit mobile 4 4 ----- 10.8  
5 be placed in different pages 3 3 ----- 8.4  
5 simplifying links per wp nopipe 3 3 ----- 9.299999999999999  
5 states from 2001 to 2009" 3 3 ----- 7.5  
5 visual edit mobile edit mobile 21 21 ----- 63  
5 2021 mobile edit mobile 7 7 ----- 18.9  
5 edit mobile web edit 31 3 3 ----- 6.899999999999995  
5 appearances publications and appearances 5 5 ----- 23.5  
5 governor of texas 19952000 3 3 ----- 10.799999999999999  
5 mobile edit mobile web edit 86 86 ----- 232.199999999999948  
5 wp nopipe and mos nopipe 3 3 ----- 7.199999999999999  
5 edit mobile app edit 12 12 ----- 28.799999999999997  
5 first to the iraq war 3 3 ----- 6.3  
5 publications and appearances publications 5 5 ----- 25.5  
5 edit mobile web edit 18 18 ----- 43.2  
6 removing per wikipedia categories for 5 5 ----- 20.5  
6 invasion these two sentences are not 3 3 ----- 10.799999999999999  
6 edit mobile edit mobile app 3 3 ----- 9.299999999999999  
6 manual revert reverted mobile edit mobile 3 3 ----- 12.299999999999999  
6 additionsdeletions were actually parameter name changes 3 3 ----- 16.5  
6 2020 reverted 1 edit by 6 6 ----- 16.2  
6 first to the iraq war page 3 3 ----- 7.8  
6 reverted mobile edit mobile web edit 27 27 ----- 97.2  
6 iraq war page and the second 3 3 ----- 8.4  
6 date formats per mos dateformat by 3 3 ----- 10.2  
6 undo reverted reverted 1 edit 3 3 ----- 9.9  
6 russia and arms control treaties ref 4 4 ----- 14.4  
6 to "43rd president of the united 3 3 ----- 9.6  
6 iraq war section of gwb page 3 3 ----- 8.4  
6 tell me if theres an issue 3 3 ----- 7.8  
6 edit mobile app edit mobile 3 3 ----- 9.299999999999999  
6 app edit ios app edit 5 5 ----- 12.5  
6 reverted good faith edits by 14 14 ----- 44.8  
6 removing from in subcat using cat-a-lot 3 3 ----- 11.7  
6 2022 reverted 1 edit by 7 7 ----- 18.9  
6 per wp nopipe and mos nopipe 3 3 ----- 8.4  
6 edit reverted mobile edit mobile 8 8 ----- 28.8  
6 mobile edit mobile web edit 31 3 3 ----- 9  
6 sentences could be placed in different 3 3 ----- 11.4

6 some additionsdeletions were actually parameter name 3 3 ----- 15.6  
6 web edit advanced mobile edit 12 3 3 ----- 9.6  
6 not relevant to the iraq war 3 3 ----- 8.4  
6 visual edit mobile edit mobile web 21 21 ----- 71.4  
6 2021 mobile edit mobile web 6 6 ----- 18.599999999999998  
6 2021 reverted mobile edit mobile 3 3 ----- 10.799999999999999  
6 united states from 2001 to 2009" 3 3 ----- 9.6  
6 mobile edit mobile web edit 18 18 ----- 55.800000000000004  
6 sentence visual edit mobile edit mobile 4 4 ----- 15.600000000000001  
6 app edit reverted mobile edit 6 6 ----- 19.8  
6 edit mobile app edit ios app 12 12 ----- 33.6  
6 wp nopipe and mos nopipe 3 3 ----- 8.4  
6 reverted reverted 1 edit by 6 6 ----- 18.599999999999998  
6 reverted mobile edit mobile app 14 14 ----- 49  
6 edit reverted 1 edit by 4 4 ----- 10.8  
6 sources and tagging 0 as dead 3 3 ----- 8.7  
6 mobile app edit mobile edit 3 3 ----- 9.299999999999999  
6 reverted mobile edit mobile web 15 15 ----- 52.5  
6 pages the first to the iraq 3 3 ----- 8.1  
6 mobile web edit advanced mobile edit 34 34 ----- 122.399999999999999  
6 sentences are not relevant to this 3 3 ----- 10.2  
6 reverted reverted 2 edits by 3 3 ----- 9.6  
6 state of the union address bush 5 5 ----- 15.5  
6 nato russia and arms control treaties 10 10 ----- 40  
6 2022 mobile edit mobile app 4 4 ----- 12.4  
6 formats per mos dateformat by script 3 3 ----- 10.799999999999999  
6 2022 reverted good faith edits 3 3 ----- 10.2  
6 simplifying links per wp nopipe 3 3 ----- 10.5  
6 visual edit publications and appearances 3 3 ----- 14.1  
6 reverted visual edit mobile edit mobile 10 10 ----- 39  
6 edit mobile web edit reverted 7 7 ----- 23.099999999999998  
6 edit mobile web edit advanced mobile 34 34 ----- 122.399999999999999  
6 nato russia and arms control 10 10 ----- 35  
6 web edit advanced mobile edit 7 7 ----- 23.099999999999998  
6 mobile app edit ios app edit 12 12 ----- 33.6  
6 reverted visual edit undid revision 3 3 ----- 11.7  
6 2020 publications and appearances added 4 4 ----- 18.400000000000002  
6 relevant to the iraq war section 3 3 ----- 9.6  
6 edit ios app edit reverted 3 3 ----- 9  
6 iraq invasion these two sentences 3 3 ----- 12  
6 mobile edit mobile app edit 10 10 ----- 31  
6 theres an issue with my edit 3 3 ----- 8.4  
6 from in subcat using cat-a-lot 3 3 ----- 10.2  
6 "43rd president of the united states 3 3 ----- 10.799999999999999  
6 2021 reverted 1 edit by 5 5 ----- 13.5  
6 2022 reverted mobile edit mobile 9 9 ----- 32.4  
6 43rd president of the united states 3 3 ----- 10.5  
6 placed in different pages the first 3 3 ----- 10.5  
6 could be placed in different pages 3 3 ----- 10.2  
6 you can use this bot yourself 5 5 ----- 14.5  
6 app edit mobile edit mobile 3 3 ----- 9.299999999999999  
6 suggested by whoop whoop pull up 5 5 ----- 16  
6 two sentences could be placed in 3 3 ----- 9.6  
6 page referring to the individual mentioned 3 3 ----- 12.6  
6 president of the united states from 4 4 ----- 14  
6 mobile edit mobile web edit 15 15 ----- 46.5  
6 2023 reverted 1 edit by 3 3 ----- 8.1  
6 reverted mobile edit mobile app edit 18 18 ----- 64.8  
6 links per wp nopipe and mos 3 3 ----- 8.1  
6 may 2022 reverted visual edit 3 3 ----- 9.9  
6 mobile edit mobile web edit advanced 34 34 ----- 122.399999999999999  
6 mobile app edit reverted mobile 6 6 ----- 21  
6 some additionsdeletions were parameter name changes 8 8 ----- 40.800000000000004

6 mobile edit mobile web edit 13 3 3 ----- 9  
6 publications and appearances publications 5 5 ----- 27.5  
6 edit mobile edit mobile web edit 21 21 ----- 67.2  
6 edit mobile app edit reverted 7 7 ----- 23.099999999999998  
6 manual revert reverted mobile edit 3 3 ----- 11.4  
6 web edit advanced mobile edit 10 3 3 ----- 9.6  
6 reverted visual edit mobile edit 7 7 ----- 25.2  
6 mobile edit mobile app edit 12 12 ----- 37.199999999999996  
6 2022 reverted visual edit mobile 3 3 ----- 10.799999999999999  
6 mobile edit mobile app edit ios 12 12 ----- 37.199999999999996  
6 russia and arms control treaties ce 3 3 ----- 10.5

----- Emergent Longitudinally Stable Concept Fragments -----

Particular theme/topic "pilot" (= 1.500000)  
Particular theme/topic "typos" (= 1.500000)  
Particular theme/topic "seems" (= 1.500000)  
Particular theme/topic "floyd" (= 1.500000)  
Particular theme/topic "third" (= 1.500000)  
Particular theme/topic "me if" (= 1.500000)  
Particular theme/topic "equal" (= 1.500000)  
Particular theme/topic "theres" (= 1.800000)  
Particular theme/topic "worst" (= 2.000000)  
Particular theme/topic "great" (= 2.000000)  
Particular theme/topic "never" (= 2.000000)  
Particular theme/topic "include" (= 2.100000)  
Particular theme/topic "display" (= 2.100000)  
Particular theme/topic "improve" (= 2.100000)  
Particular theme/topic "houston" (= 2.100000)  
Particular theme/topic "tell me" (= 2.100000)  
Particular theme/topic "my edit" (= 2.100000)  
Particular theme/topic "pandemic" (= 2.400000)  
Particular theme/topic "bush for" (= 2.400000)  
Particular theme/topic " task" (= 2.400000)  
Particular theme/topic "an issue" (= 2.400000)  
Particular theme/topic "worked" (= 2.400000)  
Particular theme/topic "walker" (= 2.400000)  
Particular theme/topic "he has" (= 2.400000)  
Particular theme/topic "middle" (= 2.400000)  
Particular theme/topic "bushes" (= 2.400000)  
Particular theme/topic "close" (= 2.500000)  
Particular theme/topic "named" (= 2.500000)  
Particular theme/topic "if theres" (= 2.700000)  
Particular theme/topic "attention" (= 2.700000)  
Particular theme/topic "joe biden" (= 2.700000)  
Particular theme/topic " https" (= 2.700000)  
Particular theme/topic "project" (= 2.800000)  
Particular theme/topic "results" (= 2.800000)  
Particular theme/topic "cleanup" (= 2.800000)  
Particular theme/topic "kennedy" (= 2.800000)  
Particular theme/topic "capital" (= 2.800000)  
Particular theme/topic "served" (= 3.000000)  
Particular theme/topic "tell me if" (= 3.000000)  
Particular theme/topic "money" (= 3.000000)  
Particular theme/topic "biden" (= 3.000000)  
Particular theme/topic "cheney" (= 3.000000)  
Particular theme/topic "failed" (= 3.000000)  
Particular theme/topic "making" (= 3.000000)  
Particular theme/topic "first term" (= 3.000000)  
Particular theme/topic "one of his" (= 3.000000)  
Particular theme/topic "placed" (= 3.000000)  
Particular theme/topic "nationwide" (= 3.000000)  
Particular theme/topic "judge" (= 3.000000)  
Particular theme/topic "number" (= 3.000000)  
Particular theme/topic "polls" (= 3.000000)

Particular theme/topic "specific" (= 3.200000)  
Particular theme/topic "senators" (= 3.200000)  
Particular theme/topic "majority" (= 3.200000)  
Particular theme/topic "evidence" (= 3.200000)  
Particular theme/topic "talk please" (= 3.300000)  
Particular theme/topic "typos fixed" (= 3.300000)  
Particular theme/topic "iraq war in" (= 3.300000)  
Particular theme/topic "july 6 1946" (= 3.300000)  
Particular theme/topic "roberts" (= 3.500000)  
Particular theme/topic "final" (= 3.500000)  
Particular theme/topic "death" (= 3.500000)  
Particular theme/topic "issue" (= 3.500000)  
Particular theme/topic "outcome" (= 3.500000)  
Particular theme/topic "recount" (= 3.500000)  
Particular theme/topic "you can" (= 3.500000)  
Particular theme/topic "largely" (= 3.500000)  
Particular theme/topic "barbara" (= 3.500000)  
Particular theme/topic "initial" (= 3.500000)  
Particular theme/topic "can use" (= 3.500000)  
Particular theme/topic "me if theres" (= 3.600000)  
Particular theme/topic "bush himself" (= 3.600000)  
Particular theme/topic "george floyd" (= 3.600000)  
Particular theme/topic "with my edit" (= 3.600000)  
Particular theme/topic "awards" (= 3.600000)  
Particular theme/topic "having" (= 3.600000)  
Particular theme/topic "referring" (= 3.600000)  
Particular theme/topic "be placed" (= 3.600000)  
Particular theme/topic "texas air" (= 3.600000)  
Particular theme/topic "george walker" (= 3.900000)  
Particular theme/topic "february 2008" (= 3.900000)  
Particular theme/topic "richards" (= 4.000000)  
Particular theme/topic "pages" (= 4.000000)  
Particular theme/topic "among" (= 4.000000)  
Particular theme/topic "lieutenant" (= 4.000000)  
Particular theme/topic "children" (= 4.000000)  
Particular theme/topic "wrote" (= 4.000000)  
Particular theme/topic "yourself" (= 4.000000)  
Particular theme/topic "needed" (= 4.200000)  
Particular theme/topic "series" (= 4.200000)  
Particular theme/topic "survey" (= 4.200000)  
Particular theme/topic "george bush jr" (= 4.200000)  
Particular theme/topic "fathers" (= 4.200000)  
Particular theme/topic "florida" (= 4.200000)  
Particular theme/topic "https security" (= 4.200000)  
Particular theme/topic "schools" (= 4.200000)  
Particular theme/topic "43rd president" (= 4.200000)  
Particular theme/topic "several" (= 4.200000)  
Particular theme/topic "walker bush" (= 4.400000)  
Particular theme/topic "significant" (= 4.400000)  
Particular theme/topic "theres an issue" (= 4.500000)  
Particular theme/topic "chief" (= 4.500000)  
Particular theme/topic "washington post" (= 4.500000)  
Particular theme/topic "business school" (= 4.500000)  
Particular theme/topic "bugs here" (= 4.500000)  
Particular theme/topic "harvard business" (= 4.800000)  
Particular theme/topic "memorial" (= 4.800000)  
Particular theme/topic "2020 removed" (= 4.800000)  
Particular theme/topic "launched" (= 4.800000)  
Particular theme/topic "points" (= 4.800000)  
Particular theme/topic "courts" (= 4.800000)  
Particular theme/topic "donald trump" (= 4.800000)  
Particular theme/topic "himself" (= 4.900000)  
Particular theme/topic "funeral" (= 4.900000)

Particular theme/topic "https" (= 5.000000)  
Particular theme/topic "photo" (= 5.000000)  
Particular theme/topic "york times" (= 5.000000)  
Particular theme/topic "title" (= 5.000000)  
Particular theme/topic "convention" (= 5.000000)  
Particular theme/topic "tell me if theres" (= 5.100000)  
Particular theme/topic "recession" (= 5.400000)  
Particular theme/topic "issue with my edit" (= 5.400000)  
Particular theme/topic "published" (= 5.400000)  
Particular theme/topic "harvard university" (= 5.400000)  
Particular theme/topic "actually parameter" (= 5.400000)  
Particular theme/topic "if theres an issue" (= 5.400000)  
Particular theme/topic " https security" (= 5.400000)  
Particular theme/topic "george walker bush" (= 5.400000)  
Particular theme/topic "change" (= 5.400000)  
Particular theme/topic "called" (= 5.400000)  
Particular theme/topic "times" (= 5.500000)  
Particular theme/topic "you can use" (= 5.500000)  
Particular theme/topic "fixes" (= 5.500000)  
Particular theme/topic "found" (= 5.500000)  
Particular theme/topic "involvement" (= 5.500000)  
Particular theme/topic "business" (= 5.600000)  
Particular theme/topic "new york" (= 5.600000)  
Particular theme/topic "improved" (= 5.600000)  
Particular theme/topic "harvard" (= 5.600000)  
Particular theme/topic "bot yourself" (= 6.000000)  
Particular theme/topic "war in" (= 6.000000)  
Particular theme/topic "order" (= 6.000000)  
Particular theme/topic "saying" (= 6.000000)  
Particular theme/topic "three" (= 6.000000)  
Particular theme/topic "those" (= 6.000000)  
Particular theme/topic "crisis" (= 6.000000)  
Particular theme/topic "known" (= 6.000000)  
Particular theme/topic "reverted to revision" (= 6.000000)  
Particular theme/topic "senate" (= 6.000000)  
Particular theme/topic "per wp" (= 6.000000)  
Particular theme/topic "individual" (= 6.000000)  
Particular theme/topic "issues" (= 6.000000)  
Particular theme/topic "recent" (= 6.000000)  
Particular theme/topic "please" (= 6.000000)  
Particular theme/topic "barack" (= 6.000000)  
Particular theme/topic "leader" (= 6.000000)  
Particular theme/topic "can use this" (= 6.000000)  
Particular theme/topic "however" (= 6.300000)  
Particular theme/topic "may 2020 reverted" (= 6.300000)  
Particular theme/topic "because" (= 6.300000)  
Particular theme/topic "country" (= 6.300000)  
Particular theme/topic "an issue with my edit" (= 6.300000)  
Particular theme/topic "me if theres an issue" (= 6.300000)  
Particular theme/topic "policies" (= 6.400000)  
Particular theme/topic "former president" (= 6.400000)  
Particular theme/topic "standing" (= 6.400000)  
Particular theme/topic "alter" (= 6.500000)  
Particular theme/topic "abductive via" (= 6.500000)  
Particular theme/topic "his fathers" (= 6.600000)  
Particular theme/topic "family" (= 6.600000)  
Particular theme/topic "reason" (= 6.600000)  
Particular theme/topic "2020 early" (= 6.800000)  
Particular theme/topic "actually parameter name" (= 6.900000)  
Particular theme/topic "former president george" (= 6.900000)  
Particular theme/topic "harvard business school" (= 6.900000)  
Particular theme/topic "average" (= 7.000000)  
Particular theme/topic "where" (= 7.000000)

Particular theme/topic "nomination" (= 7.000000)  
Particular theme/topic "being" (= 7.000000)  
Particular theme/topic "service" (= 7.000000)  
Particular theme/topic "new york times" (= 7.000000)  
Particular theme/topic "sources" (= 7.000000)  
Particular theme/topic "opinion" (= 7.000000)  
Particular theme/topic "better" (= 7.200000)  
Particular theme/topic " reverted to revision" (= 7.200000)  
Particular theme/topic "speech" (= 7.200000)  
Particular theme/topic "war on" (= 7.200000)  
Particular theme/topic "not relevant" (= 7.200000)  
Particular theme/topic "incidents" (= 7.200000)  
Particular theme/topic "trillion" (= 7.200000)  
Particular theme/topic "texas air national" (= 7.200000)  
Particular theme/topic "articles" (= 7.200000)  
Particular theme/topic "personal" (= 7.200000)  
Particular theme/topic "north" (= 7.500000)  
Particular theme/topic "korea" (= 7.500000)  
Particular theme/topic "immigration" (= 7.700000)  
Particular theme/topic "left office" (= 7.700000)  
Particular theme/topic "taliban" (= 7.700000)  
Particular theme/topic "clinton" (= 7.700000)  
Particular theme/topic "katrina" (= 7.700000)  
Particular theme/topic "tell me if theres an issue" (= 7.800000)  
Particular theme/topic "two sentences" (= 7.800000)  
Particular theme/topic "should" (= 7.800000)  
Particular theme/topic "adding" (= 7.800000)  
Particular theme/topic "editor" (= 7.800000)  
Particular theme/topic "before" (= 7.800000)  
Particular theme/topic "to his" (= 7.800000)  
Particular theme/topic "by abductive via" (= 8.000000)  
Particular theme/topic "their" (= 8.000000)  
Particular theme/topic "using" (= 8.000000)  
Particular theme/topic "can use this bot" (= 8.000000)  
Particular theme/topic "report bugs here" (= 8.000000)  
Particular theme/topic "you can use this" (= 8.000000)  
Particular theme/topic "president george" (= 8.000000)  
Particular theme/topic "early" (= 8.000000)  
Particular theme/topic "released" (= 8.000000)  
Particular theme/topic "magazine" (= 8.000000)  
Particular theme/topic "criticism" (= 8.100000)  
Particular theme/topic "bill clinton" (= 8.400000)  
Particular theme/topic "school" (= 8.400000)  
Particular theme/topic "social" (= 8.400000)  
Particular theme/topic "theres an issue with my edit" (= 8.400000)  
Particular theme/topic "43rd president of the united" (= 8.400000)  
Particular theme/topic "governor of texas" (= 8.500000)  
Particular theme/topic "there" (= 8.500000)  
Particular theme/topic "this bot yourself" (= 8.500000)  
Particular theme/topic "restored" (= 8.800000)  
Particular theme/topic "to the iraq" (= 8.800000)  
Particular theme/topic "governor" (= 8.800000)  
Particular theme/topic "countries" (= 9.000000)  
Particular theme/topic "faith" (= 9.000000)  
Particular theme/topic "abductive" (= 9.000000)  
Particular theme/topic "health" (= 9.000000)  
Particular theme/topic "russia" (= 9.000000)  
Particular theme/topic "state" (= 9.000000)  
Particular theme/topic "to the united" (= 9.100000)  
Particular theme/topic "public health" (= 9.100000)  
Particular theme/topic "actually parameter name changes" (= 9.300000)  
Particular theme/topic "these" (= 9.500000)  
Particular theme/topic "court" (= 9.500000)



Particular theme/topic "image" (= 9.500000)  
Particular theme/topic "attended" (= 9.600000)  
Particular theme/topic "additionsdeletions were actually" (= 9.600000)  
Particular theme/topic "bushs presidency" (= 9.600000)  
Particular theme/topic "texas air national guard" (= 9.600000)  
Particular theme/topic "control" (= 9.800000)  
Particular theme/topic "for his" (= 9.800000)  
Particular theme/topic "elections" (= 9.900000)  
Particular theme/topic "statement" (= 9.900000)  
Particular theme/topic "terrorist" (= 9.900000)  
Particular theme/topic "education" (= 9.900000)  
Particular theme/topic "while" (= 10.000000)  
Particular theme/topic "to the united states" (= 10.000000)  
Particular theme/topic "later" (= 10.000000)  
Particular theme/topic "washington" (= 10.000000)  
Particular theme/topic "you can use this bot" (= 10.000000)  
Particular theme/topic "terror" (= 10.200000)  
Particular theme/topic "former presidents" (= 10.200000)  
Particular theme/topic "talk not" (= 10.400000)  
Particular theme/topic "bush has" (= 10.400000)  
Particular theme/topic "economic" (= 10.400000)  
Particular theme/topic "43rd president of the united states" (= 10.500000)  
Particular theme/topic "presidential campaign" (= 10.500000)  
Particular theme/topic "use this bot yourself" (= 10.500000)  
Particular theme/topic "history" (= 10.500000)  
Particular theme/topic "2021 mobile" (= 10.500000)  
Particular theme/topic "which was" (= 10.800000)  
Particular theme/topic "source" (= 10.800000)  
Particular theme/topic "second" (= 10.800000)  
Particular theme/topic "noteworthy" (= 11.000000)  
Particular theme/topic "some additionsdeletions were actually" (= 11.100000)  
Particular theme/topic "about" (= 11.500000)  
Particular theme/topic "years" (= 11.500000)  
Particular theme/topic "parameter" (= 11.700000)  
Particular theme/topic " alter" (= 11.700000)  
Particular theme/topic "ratings" (= 11.900000)  
Particular theme/topic "did not" (= 11.900000)  
Particular theme/topic "foreign" (= 11.900000)  
Particular theme/topic "has been" (= 12.000000)  
Particular theme/topic "father" (= 12.000000)  
Particular theme/topic "university" (= 12.000000)  
Particular theme/topic "obama" (= 12.000000)  
Particular theme/topic "manual" (= 12.000000)  
Particular theme/topic "he was" (= 12.000000)  
Particular theme/topic "to the iraq war" (= 12.000000)  
Particular theme/topic "by abductive" (= 12.000000)  
Particular theme/topic "barack obama" (= 12.000000)  
Particular theme/topic "ucb\_category" (= 12.000000)  
Particular theme/topic "north korea" (= 12.100000)  
Particular theme/topic "can use this bot yourself" (= 12.500000)  
Particular theme/topic "he also" (= 12.600000)  
Particular theme/topic "changes" (= 12.600000)  
Particular theme/topic "additionsdeletions were actually parameter" (= 12.600000)  
Particular theme/topic "general" (= 12.600000)  
Particular theme/topic "wikipedia" (= 12.600000)  
Particular theme/topic "template" (= 12.800000)  
Particular theme/topic "suggested by abductive via" (= 13.000000)  
Particular theme/topic "government" (= 13.000000)  
Particular theme/topic "april 2021" (= 13.000000)  
Particular theme/topic "second term" (= 13.200000)  
Particular theme/topic "name changes" (= 13.200000)  
Particular theme/topic "people" (= 13.200000)  
Particular theme/topic "section" (= 13.300000)

Particular theme/topic "on terror" (= 13.500000)  
 Particular theme/topic "education and public" (= 13.800000)  
 Particular theme/topic "parameters" (= 14.000000)  
 Particular theme/topic "foreign policy" (= 14.000000)  
 Particular theme/topic "2021 mobile edit" (= 14.000000)  
 Particular theme/topic "since" (= 14.000000)  
 Particular theme/topic "some additionsdeletions were actually parameter" (= 14.100000)  
 Particular theme/topic "additionsdeletions were actually parameter name" (= 14.100000)  
 Particular theme/topic "information" (= 14.300000)  
 Particular theme/topic "international" (= 14.300000)  
 Particular theme/topic "war on terror" (= 14.300000)  
 Particular theme/topic "former" (= 14.400000)  
 Particular theme/topic "2020 reverted 1 edit" (= 14.400000)  
 Particular theme/topic "you can use this bot yourself" (= 14.500000)  
 Particular theme/topic "support" (= 14.700000)  
 Particular theme/topic "office" (= 15.000000)  
 Particular theme/topic "11 attacks" (= 15.000000)  
 Particular theme/topic "congress" (= 15.200000)  
 Particular theme/topic "iraq war" (= 15.200000)  
 Particular theme/topic "faith edits" (= 15.400000)  
 Particular theme/topic "parameter name" (= 15.400000)  
 Particular theme/topic "some additionsdeletions were actually parameter name" (= 15.600000)  
 Particular theme/topic "good faith" (= 16.000000)  
 Particular theme/topic " education and public" (= 16.200000)  
 Particular theme/topic "2020 reverted 1 edit by" (= 16.200000)  
 Particular theme/topic "career" (= 16.200000)  
 Particular theme/topic "public" (= 16.200000)  
 Particular theme/topic "report" (= 16.200000)  
 Particular theme/topic "additionsdeletions were actually parameter name changes" (= 16.500000)  
 Particular theme/topic "this bot" (= 16.800000)  
 Particular theme/topic "his father" (= 17.000000)  
 Particular theme/topic "including" (= 17.100000)  
 Particular theme/topic "first" (= 17.500000)  
 Particular theme/topic "use this" (= 17.600000)  
 Particular theme/topic "military" (= 17.600000)  
 Particular theme/topic "afghanistan" (= 17.600000)  
 Particular theme/topic "social security" (= 18.000000)  
 Particular theme/topic "education and public health" (= 18.000000)  
 Particular theme/topic "reverted good" (= 18.200000)  
 Particular theme/topic "his presidency" (= 18.200000)  
 Particular theme/topic "sentence" (= 18.400000)  
 Particular theme/topic "2020 publications and appearances added" (= 18.400000)  
 Particular theme/topic "2021 mobile edit mobile" (= 18.900000)  
 Particular theme/topic "invasion" (= 19.200000)  
 Particular theme/topic "campaign" (= 19.200000)  
 Particular theme/topic "life and career" (= 19.500000)  
 Particular theme/topic "faith edits by" (= 19.600000)  
 Particular theme/topic "suggested" (= 19.800000)  
 Particular theme/topic "additionsdeletions" (= 19.800000)  
 Particular theme/topic "would" (= 20.000000)  
 Particular theme/topic "texas" (= 20.000000)  
 Particular theme/topic " education and public health" (= 20.400000)  
 Particular theme/topic "other" (= 20.500000)  
 Particular theme/topic "political" (= 21.600000)  
 Particular theme/topic "september 11" (= 21.600000)  
 Particular theme/topic "suggested by abductive" (= 22.000000)  
 Particular theme/topic "after" (= 22.000000)  
 Particular theme/topic "good faith edits" (= 22.400000)  
 Particular theme/topic "approval" (= 22.400000)  
 Particular theme/topic "attacks" (= 22.400000)  
 Particular theme/topic "president bush" (= 22.400000)  
 Particular theme/topic "president of the united" (= 23.000000)  
 Particular theme/topic "republican" (= 23.000000)

Particular theme/topic "removed parameters" (= 23.400000)  
 Particular theme/topic " reverted good" (= 23.800000)  
 Particular theme/topic "american" (= 24.000000)  
 Particular theme/topic "president of the united states" (= 24.000000)  
 Particular theme/topic "report bugs" (= 24.200000)  
 Particular theme/topic "parameter name changes" (= 24.200000)  
 Particular theme/topic "bushs" (= 24.500000)  
 Particular theme/topic "bush was" (= 24.800000)  
 Particular theme/topic "use this bot" (= 25.200000)  
 Particular theme/topic "suggested by" (= 25.200000)  
 Particular theme/topic "main article" (= 25.200000)  
 Particular theme/topic "additionsdeletions were" (= 25.300000)  
 Particular theme/topic "some additionsdeletions" (= 25.300000)  
 Particular theme/topic "security" (= 25.600000)  
 Particular theme/topic "election" (= 26.400000)  
 Particular theme/topic "policy" (= 26.400000)  
 Particular theme/topic "august" (= 26.400000)  
 Particular theme/topic "reverted good faith" (= 26.600000)  
 Particular theme/topic "good faith edits by" (= 26.600000)  
 Particular theme/topic "presidents" (= 27.000000)  
 Particular theme/topic "march" (= 27.500000)  
 Particular theme/topic "which" (= 28.000000)  
 Particular theme/topic "advanced" (= 28.800000)  
 Particular theme/topic "april" (= 29.000000)  
 Particular theme/topic "october" (= 29.400000)  
 Particular theme/topic "bush administration" (= 30.400000)  
 Particular theme/topic "some additionsdeletions were" (= 30.800000)  
 Particular theme/topic " reverted good faith" (= 32.200000)  
 Particular theme/topic "december" (= 32.800000)  
 Particular theme/topic "united" (= 34.800000)  
 Particular theme/topic "presidency" (= 35.000000)  
 Particular theme/topic "reverted good faith edits" (= 35.000000)  
 Particular theme/topic "states" (= 35.400000)  
 Particular theme/topic "february" (= 36.000000)  
 Particular theme/topic "article" (= 37.100000)  
 Particular theme/topic "added" (= 37.500000)  
 Particular theme/topic "november" (= 37.600000)  
 Particular theme/topic "reverted good faith edits by" (= 39.200000)  
 Particular theme/topic " reverted good faith edits" (= 40.600000)  
 Particular theme/topic "administration" (= 43.400000)  
 Particular theme/topic "george" (= 44.400000)  
 Particular theme/topic " reverted good faith edits by" (= 44.800000)  
 Particular theme/topic "january" (= 47.600000)  
 Particular theme/topic "presidential" (= 48.000000)  
 Particular theme/topic "appearances" (= 53.900000)  
 Particular theme/topic "united states" (= 62.400000)  
 Particular theme/topic "september" (= 64.800000)  
 Particular theme/topic "president" (= 80.100000)

```
*****
* Total contentious article issues for George W. Bush = 275
*****
```

As one sees, the text remains noisy and filled with spurious annotative symbols. This is partly a result of HTML markup being so messy, particularly when generated by Wiki software, and partly a result of the way people and software bots make notes and categorical classification labellings. Language is a messy business when it isn't prose or conversational.

The handling of spaces and punctuation in general is also noisy due to the multiple encodings being used between HTML rendering, UTF, and different operating system conventions.

The trustworthiness of users is beset with other difficulties. Some users no longer exist; they've moved on or been renamed. This could be a potential issue of deception or it could just be a natural evolution

of the user base. This is why one should not be too mistrustful without reasonable doubt of a user's intentions. Contexts are not a part of the annotation. Part of our task is to see whether we can infer anything at all about the tone and substance of edits from the notes. Reversions are amongst a minority of examples that signal contention directly.

## B Graphs

```

I := float64(ARTICLE_ISSUES)           // counted altercations
IL := math.Log(I)

N := average_cluster                    // av users per episode
NL := math.Log(N)

N2 := (N*N-N)
N2L := math.Log(N2)

L := float64(textlength)                // article length in sentences
LL := math.Log(L)

H := float64(talklength)                 // change process in sentence/entries
//HL := math.Log(H)

s := float64(len(remarks))               // changes subsampled on trust
S := float64(len(selected))              // article subsampled on trust

e := s/H // trusted process watch list fraction
E := S/L // trusted article watch list fraction

// work and sampled(untrusted)

w := H/L
wL := math.Log(w)
u := s/S
uL := math.Log(u)

output := fmt.Sprintf(
L, // 1 text
LL, // 2
N, // 3 users
NL, // 4
N2, // 5 users-cluster
N2L, // 6
I, // 7
IL, // 8
    w, // 9
wL, // 10
u, // 11
uL, // 12
)
// Look for the dynamics of the change process as fn of L and N
// I(N) -> (3,7), exp(3,8), pow(4,8)
// I(N2) -> (5,7), exp(5,8), pow(6,8)
// I(L) -> (1,7), exp(1,8), pow(2,8)

// Relaxation of history activity per length of article H/L and its trusted fraction s/S
// R(L) as time goes on, L converges and issues come to a halt, L is a proxy for tau
// Rw(L) -> (1,9), exp(1,10), pow(2,10)

```

```
// Ru(L) -> (1,11), exp(1,12), pow(2,12)
```

Gnuplot instructions for the graphs.

```
gnuplot
set xlabel "Article length L"
set ylabel "I/L"
set title "0"
set term pdf monochrome
set output "gr_0.pdf"
plot "/tmp/trust.dat" using 1:3
```

```
# ...
```

```
set xlabel "L"
set ylabel "N"
set title "1"
set term pdf monochrome
set output "gr_1.pdf"
plot "/tmp/trust.dat" using 1:3
```

```
set xlabel "log L"
set ylabel "log N"
set title "1"
set term pdf monochrome
set output "gr_2.pdf"
plot "/tmp/trust.dat" using 2:4
```

```
# '''
```

```
set xlabel "N"
set ylabel "I(N)"
set title "3"
set term pdf monochrome
set output "gr_3.pdf"
plot "/tmp/trust.dat" using 3:7
```

```
set xlabel "N"
set ylabel "Log I(N)"
set title "4"
set term pdf monochrome
set output "gr_4.pdf"
plot "/tmp/trust.dat" using 3:8
```

```
set xlabel "log N"
set ylabel "log I(N)"
set title "5"
set term pdf monochrome
set output "gr_5.pdf"
plot "/tmp/trust.dat" using 4:8
```

```
# ...
```

```
set xlabel "N^2-N"
set ylabel "I"
set title "6"
```

```
set term pdf monochrome
set output "gr_6.pdf"
plot "/tmp/trust.dat" using 5:7
```

```
set xlabel "N^2-N"
set ylabel "I"
set title "7"
set term pdf monochrome
set output "gr_7.pdf"
plot "/tmp/trust.dat" using 5:8
```

```
set xlabel "log N^2-N"
set ylabel "I"
set title "8"
set term pdf monochrome
set output "gr_8.pdf"
plot "/tmp/trust.dat" using 6:8
```

```
#
```

```
set xlabel "L"
set ylabel "I(L)"
set title "9"
set term pdf monochrome
set output "gr_9.pdf"
plot "/tmp/trust.dat" using 1:7
```

```
set xlabel "log L"
set ylabel "I(L)"
set title "10"
set term pdf monochrome
set output "gr_10.pdf"
plot "/tmp/trust.dat" using 1:8
```

```
set xlabel "log L"
set ylabel "log I(L)"
set title "11"
set term pdf monochrome
set output "gr_11.pdf"
plot "/tmp/trust.dat" using 2:8
```

```
#
```

```
set xlabel "L"
set ylabel "Rw"
set title "12"
set term pdf monochrome
set output "gr_12.pdf"
plot "/tmp/trust.dat" using 1:9
```

```
set xlabel "log L"
set ylabel "Rw"
set title "13"
set term pdf monochrome
set output "gr_13.pdf"
plot "/tmp/trust.dat" using 1:10
```

```

set xlabel "log L"
set ylabel "log Rw"
set title "14"
set term pdf monochrome
set output "gr_14.pdf"
plot "/tmp/trust.dat" using 2:10

#

set xlabel "L"
set ylabel "Ru"
set title "15"
set term pdf monochrome
set output "gr_15.pdf"
plot "/tmp/trust.dat" using 1:11

set xlabel "log L"
set ylabel "Ru"
set title "16"
set term pdf monochrome
set output "gr_16.pdf"
plot "/tmp/trust.dat" using 1:12

set xlabel "log L"
set ylabel "log Ru"
set title "17"
set term pdf monochrome
set output "gr_17.pdf"
plot "/tmp/trust.dat" using 2:12

```

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