token-level change tracking: data, tools and insights

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- Computational Social Science Department -
GESIS - Leibniz Institute for the Social Sciences

Wikimedia Research Showcase
July 11th, 2018

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Quick intro to tracking changes in revisioned documents

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the tracking challenge

Mance Legstrong
From Wikipedia, the free encyclopedia

Tests suggest Legstrong used doping.
He presumably used EPO.

R1

Mance Legstrong
From Wikipedia, the free encyclopedia

Tests suggest Legstrong used doping.
Mance tested positive twice.

R2

Mance Legstrong
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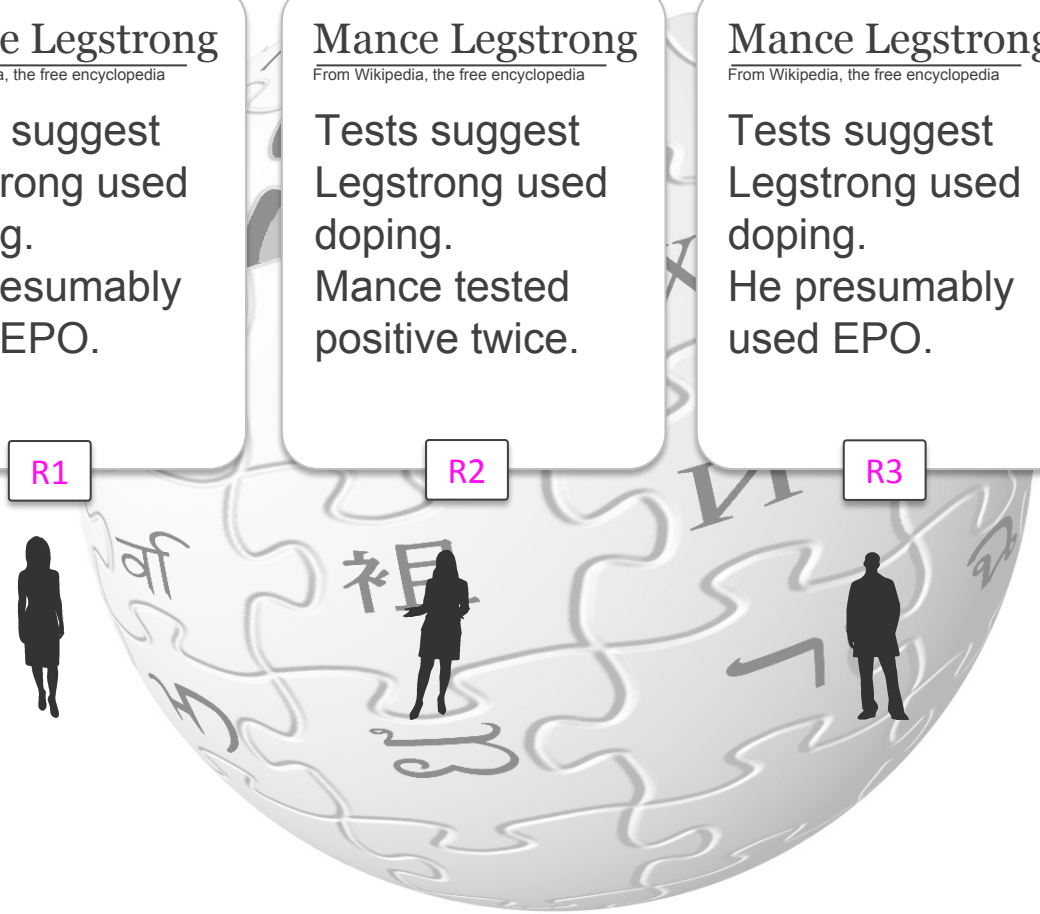
Tests suggest Legstrong used doping.
He presumably used EPO.

R3

Mance Legstrong
From Wikipedia, the free encyclopedia

Tests suggest Legstrong systematically used doping.
Mance tested positive twice.

R4



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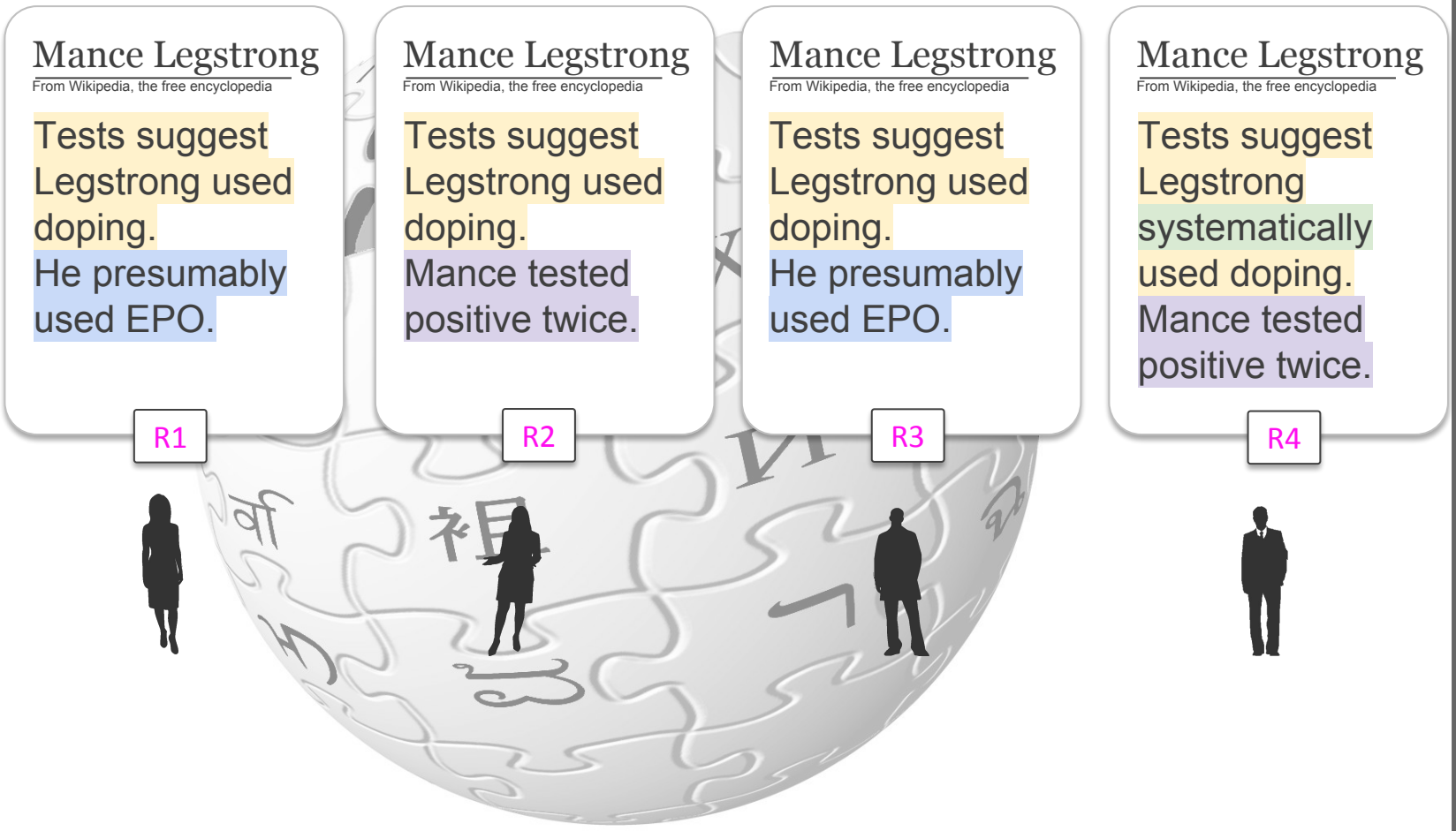
the tracking challenge



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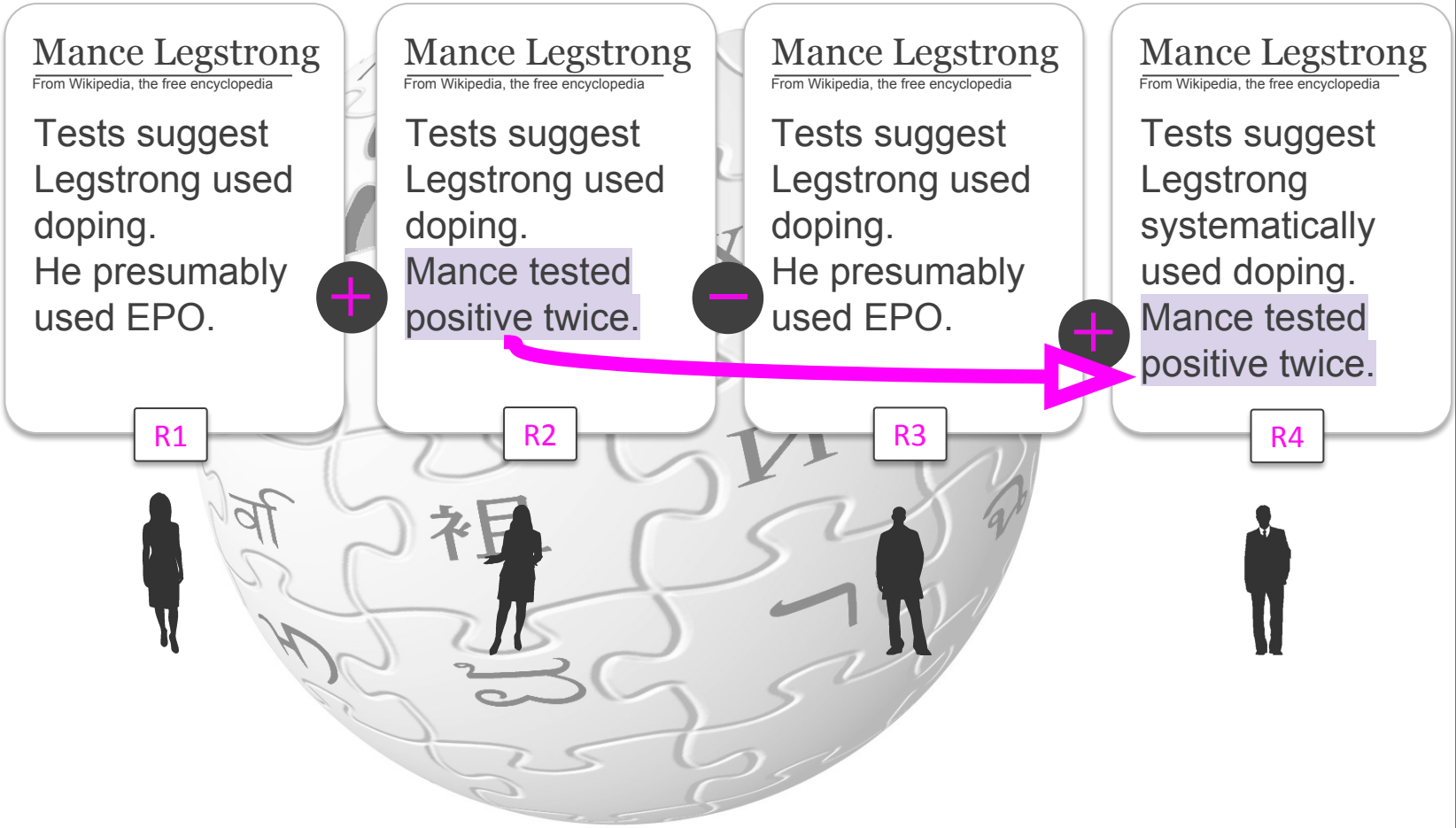
the tracking challenge



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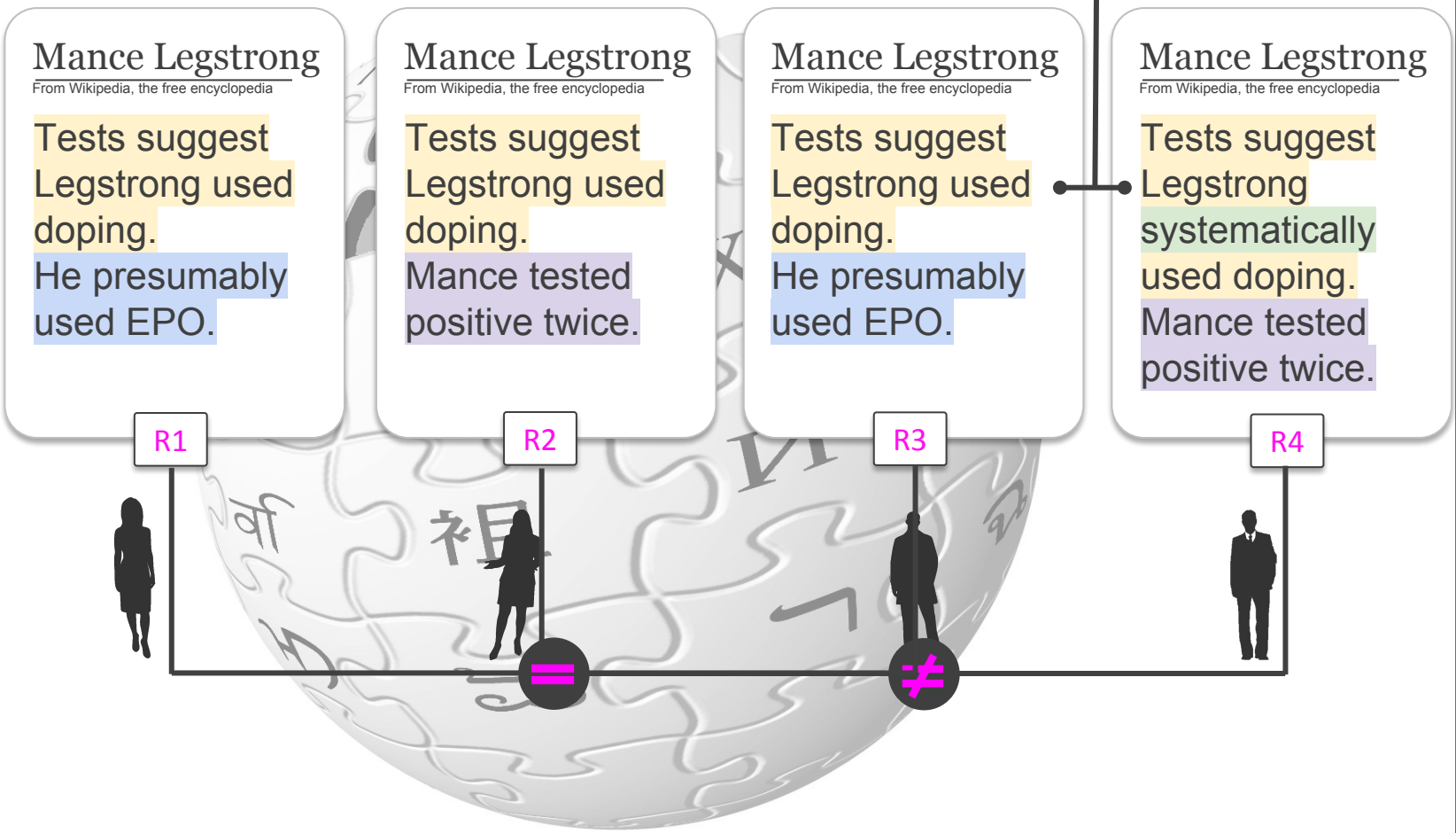
the tracking challenge

- {"He", "presumably", "used", "EPO", "."},
+ {"systematically", "Mance", "tested", "positive", "twice", "."}



Attributing authorship of revisioned content - De Alfaro & Shavlovsky, WWW 2013
Mediawiki utilities, Deltas - Halfaker, 2014

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wikiwho

Flöck & Acosta, WWW Seoul 2014

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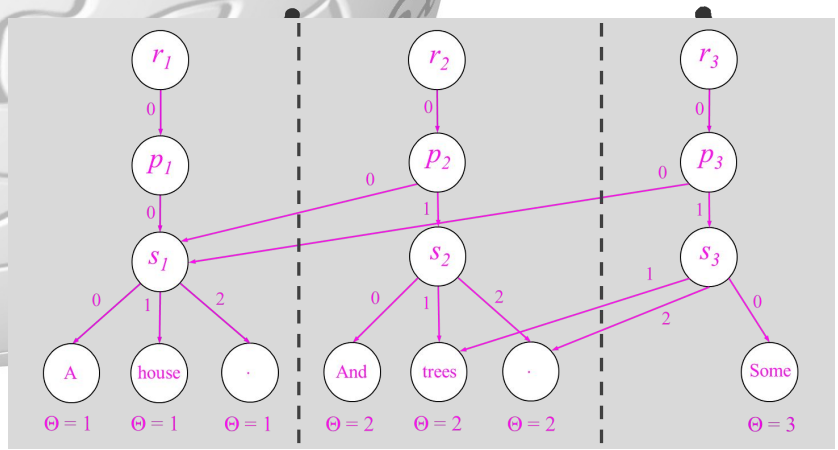

>95% accuracy

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the data

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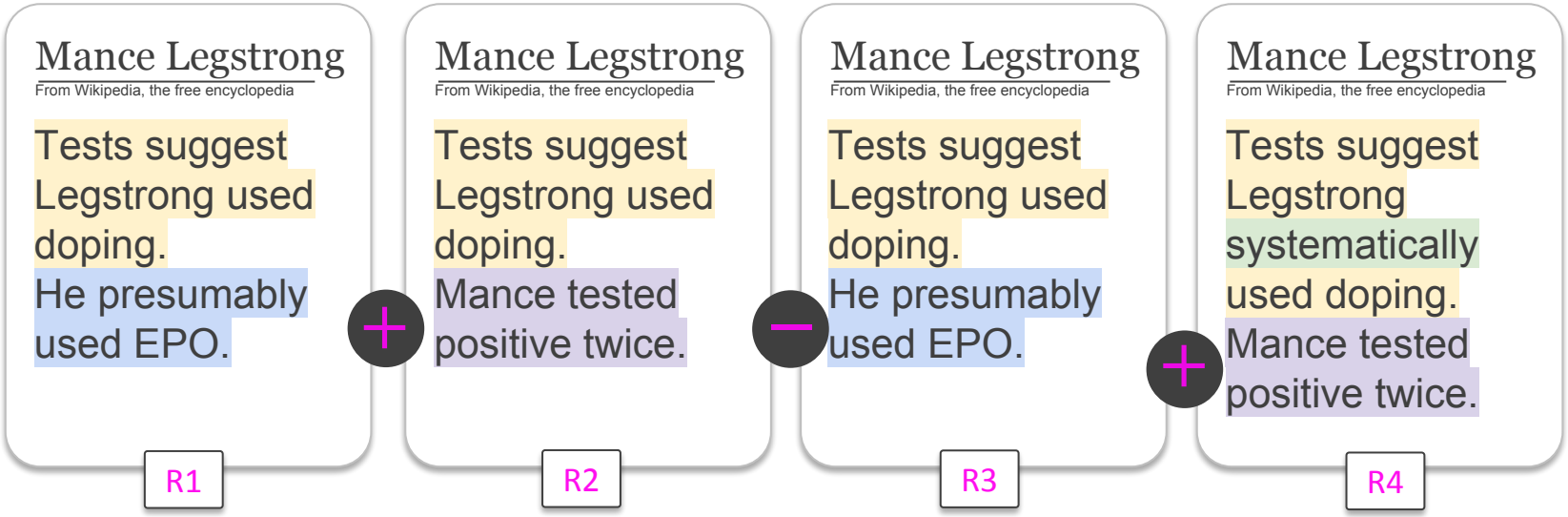
data



Tracking data for content of revision 4

String	Tests	suggest	Legstrong	system-atically	used	doping	.	Mance	tested	positive	twice	.
Token ID	T1	T2	T3	T17	T4	T5	T6	T12	T13	T14	T15	T16
Original Addition	R1	R1	R1	R4	R1	R1	R1	R2	R2	R2	R2	R2
Deleted	{ }	{ }	{ }	{ }	{ }	{ }	{ }	{R3}	{R3}	{R3}	{R3}	{R3}
Re-inserted	{ }	{ }	{ }	{ }	{ }	{ }	{ }	{R4}	{R4}	{R4}	{R4}	{R4}

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July 27, 2017 Dataset Open Access

TokTrack: A Complete Token Provenance and Change Tracking Dataset for the English Wikipedia

Flöck, Fabian; Erdogan, Kenan; Acosta, Maribel

TokTrack dataset: English Wikipedia

01/2001 until 10/2016

All articles (namespace = 0, no redirects) = 5,275,388

13,545,349,787 tokens
~70GB

https://zenodo.org/record/834557

"TokTrack: A Complete Token Provenance and Change Tracking Dataset for the English Wikipedia." ICWSM 2017, Montréal, Canada

Please cite 10.5281/zenodo.789289 for all versions of this dataset, which will always resolve to the latest.

Indexed in OpenAIRE

Publication date:
July 27, 2017

DOI:
DOI 10.5281/zenodo.834557

Keyword(s):
Wikipedia, Collaborative Writing, Provenance, Authorship, Controversy, Content Survival, Content Persistence, Conflict, Reverts, Dataset, Computational Linguistics

Meeting:
11TH INTERNATIONAL AAAI CONFERENCE ON WEB AND SOCIAL MEDIA 2017 (ICWSM2017), Montreal, Canada, 15-18 May 2017

Related identifiers:
Previous versions:
10.5281/zenodo.345571
Supplementary material:
https://arxiv.org/abs/1703.08244,
10.5281/zenodo.439699

Communities:
Wikimedia
Wikipedia-related research

License (for files):
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Versions

data

Mance Legstrong
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\+

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He presumably used EPO.

R3

\+

Mance Legstrong
From Wikipedia, the free encyclopedia

Tests suggest Legstrong systematically used doping.
Mance tested positive twice.

R4

Tracking data for content of revision 4

String				
Token ID				
Original Addition				
Deleted				
Re-inserted				

api.wikiwho.net

api.wikiwho.net

wikiwho

Available APIs ▾ | Contact/Imprint | Register | Login

wikiwho

gesis Leibniz-Institut für Sozialwissenschaften

KIT Karlsruher Institut für Technologie

A service for mining changes and interactions from revisioned writing platforms.

WikiWho APIs

The APIs provide provenance and change information about the tokens a Wikipedia article consists of, for several languages. Apart from the source language edition they draw from, their specifications and usage are identical, as described below.

WikiWho API EN
WikiWho API DE
WikiWho API EU
WikiWho API TR
WikiWho API ES

Usage

For each article page, the API mirrors its current state on the Wikipedia. The API is based on the WikiWho algorithm (~95% acc.).

Currently, there is a limit of 2000 requests/day for unregistered users, and also a 60 requests/minute limit for all users.

Terminology used:

- "*Wikipedia*": A selected language version of Wikipedia. Available languages can be chosen from the top navigation bar.
- "*article (page)*": Any Wikipedia page in namespace = 0.
- "*(article) content*": The tokenized Wiki Markup text content of a (range of) revision(s) of an article page, not the front-end HTML (if you want that, you have to "untokenize" and appropriately parse it; the original order of tokens is retained – or take a look at the WhoColor API).
- "*token*"/"*tokenized*": The Wiki Markup text is split at (i) white spaces and (ii) certain special characters (special chars also act as tokens). E.g., tokens in "A [[house]], a boat." are "a", "[[", "house", "]]", ",", "a", "boat", "." I.e., all tokens are converted into lower-case and certain character combinations that have a specific function in Wiki Markup, such as

WikiWho API

Documentation can be found at api.wikiwho.net

Created by GESIS - Leibniz Institute for the Social Sciences, CSS group

Data from this API is published under the CC-BY-SA 4.0 license. Original revision data is retrieved from Wikimedia servers and the terms for reuse put forth by Wikimedia apply.

1 - Content per revision

Show/Hide | List Operations | Expand Operations

GET	/rev_content/{article_title}/	Get the content of the last revision of an article
GET	/rev_content/{article_title}/{rev_id}/	Get the content of a specific revision of an article
GET	/rev_content/{article_title}/{start_rev_id}/{end_rev_id}/	Get the content of a range of revisions of an article
GET	/rev_content/page_id/{page_id}/	Get the content of the last revision of an article
GET	/rev_content/rev_id/{rev_id}/	Get the content of a specific revision of an article

2 - All content

Show/Hide | List Operations | Expand Operations

GET	/all_content/{article_title}/	Get the all content an article
GET	/all_content/page_id/{page_id}/	Get the all content an article

3 - Revision IDs

Show/Hide | List Operations | Expand Operations

GET	/rev_ids/{article_title}/	Get revision IDs of an article
GET	/rev_ids/page_id/{page_id}/	Get revision IDs of an article

edit action types and survival

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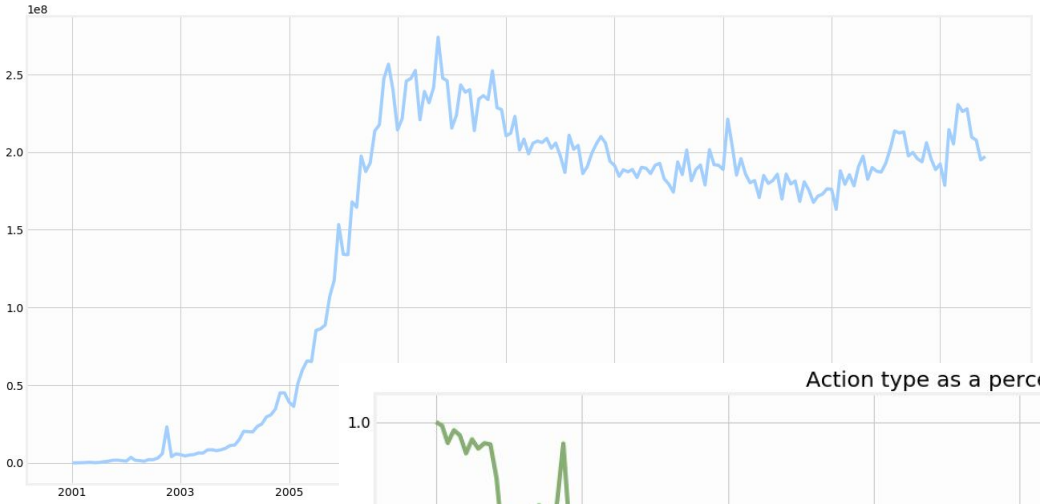
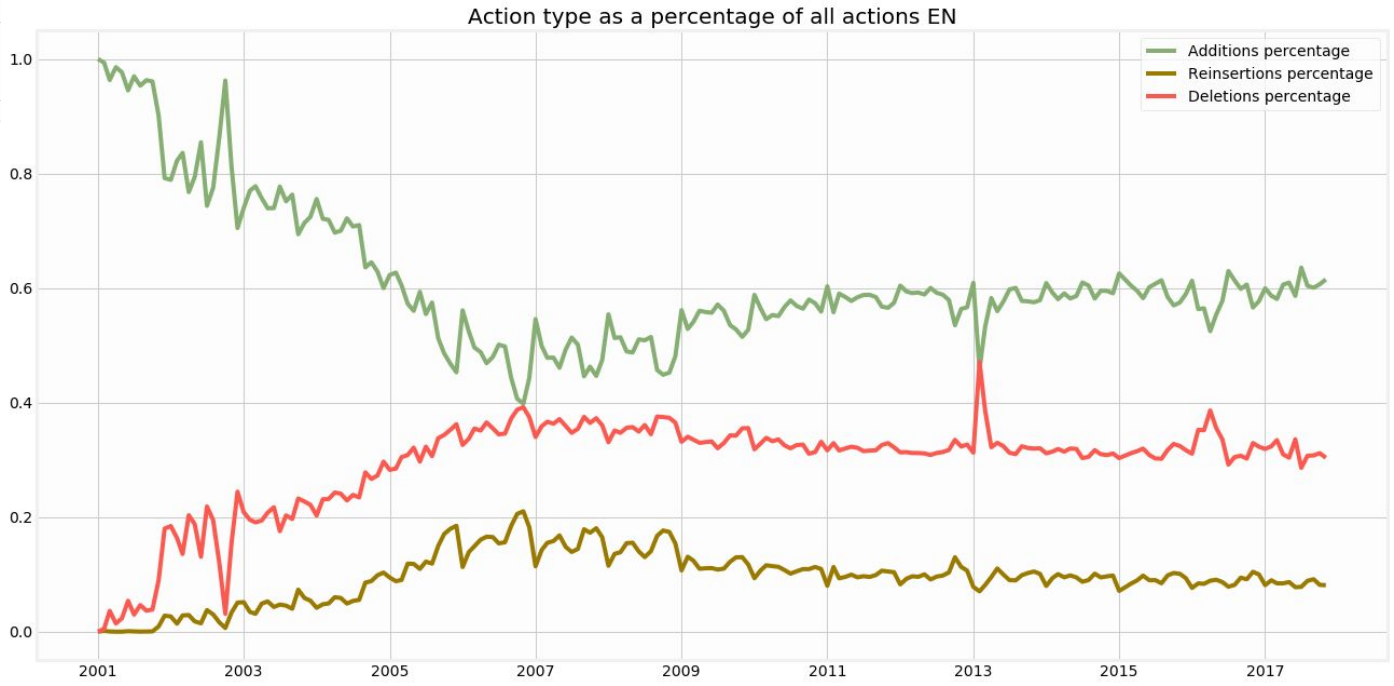
action types over time EN





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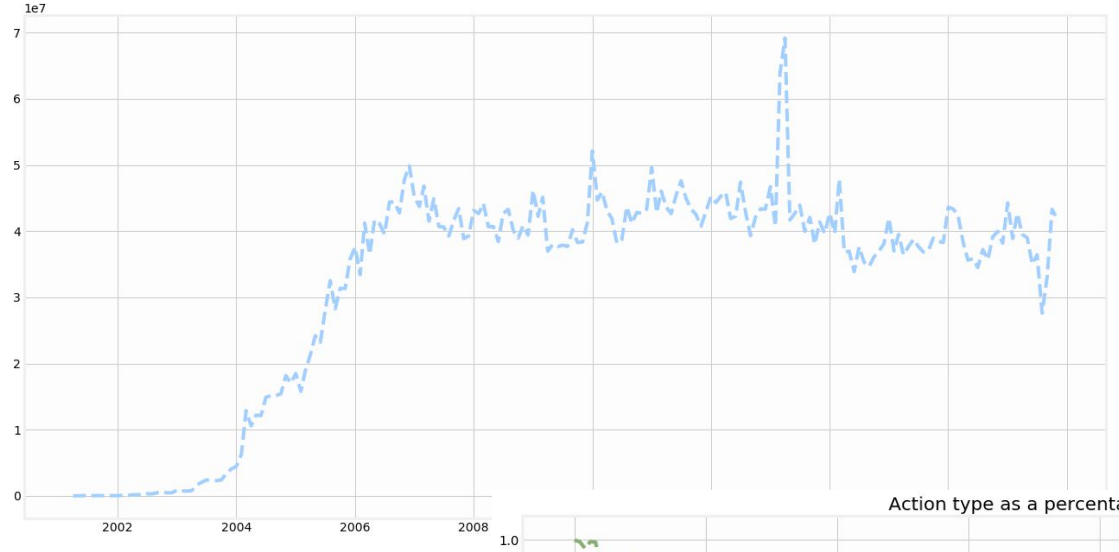
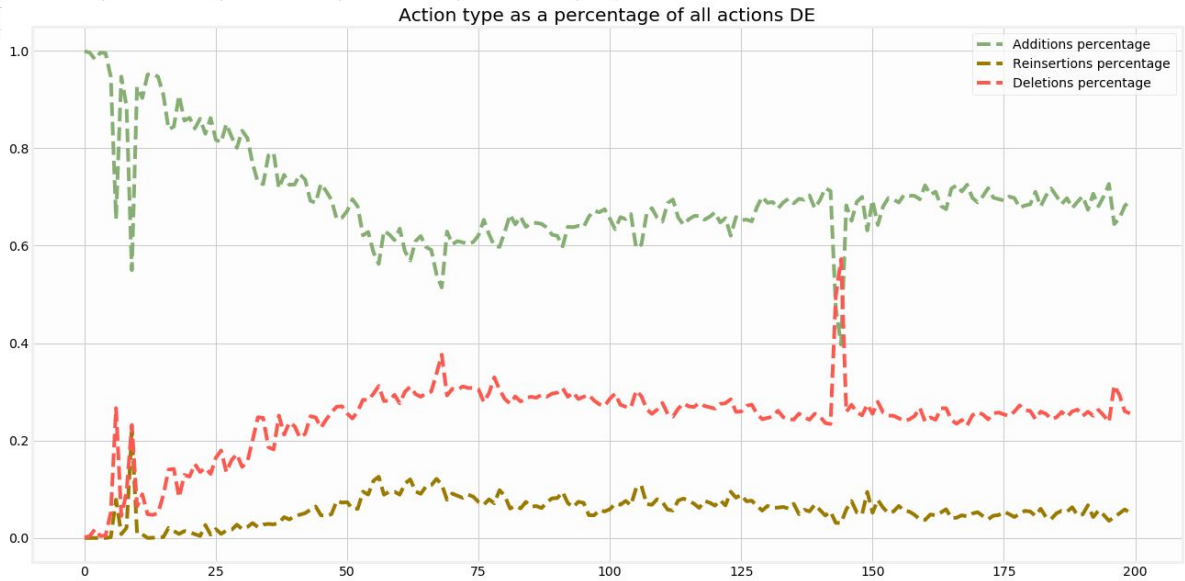
action types over time DE





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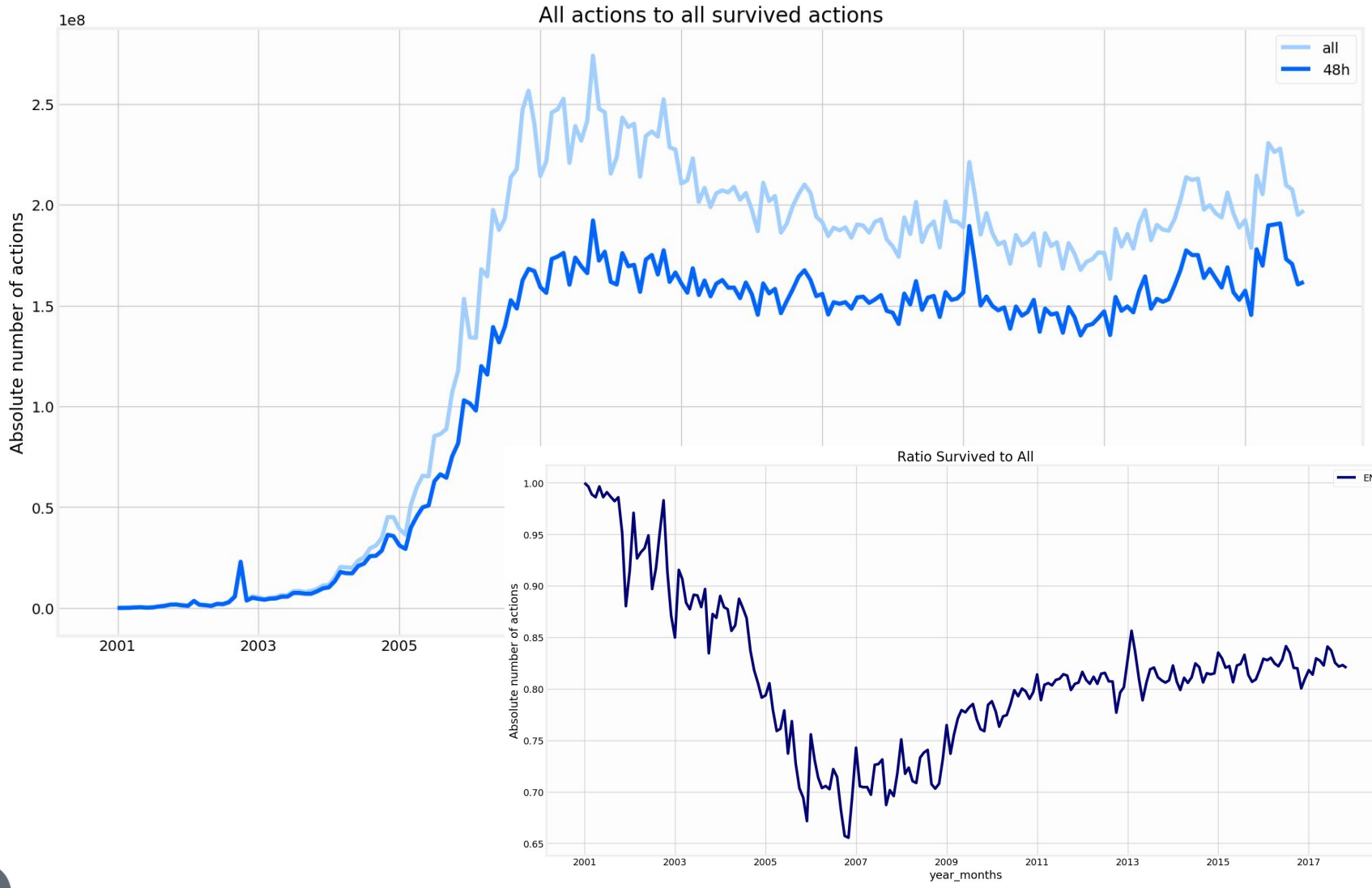
EN actions / survival



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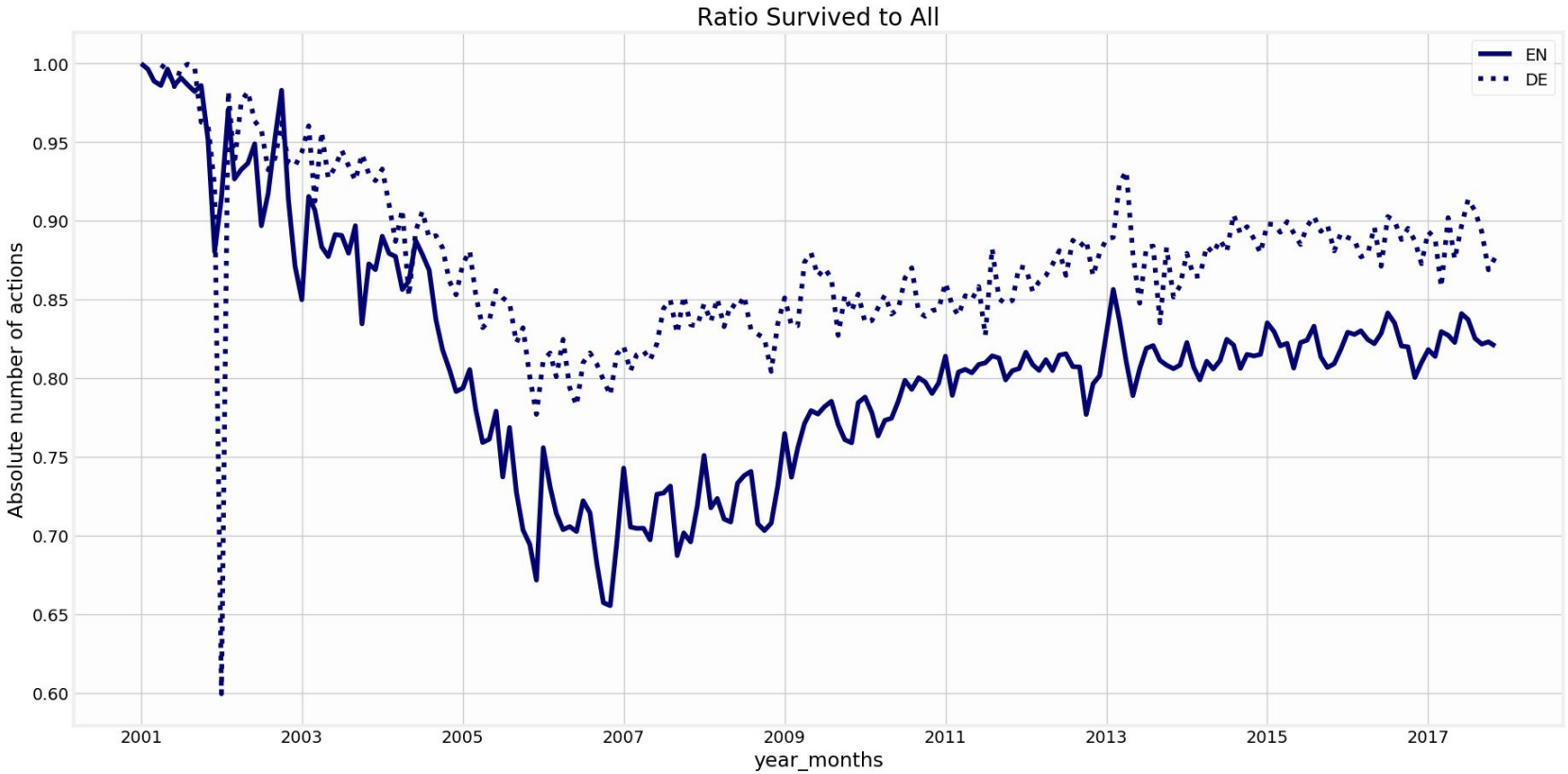
EN vs. DE actions / survival



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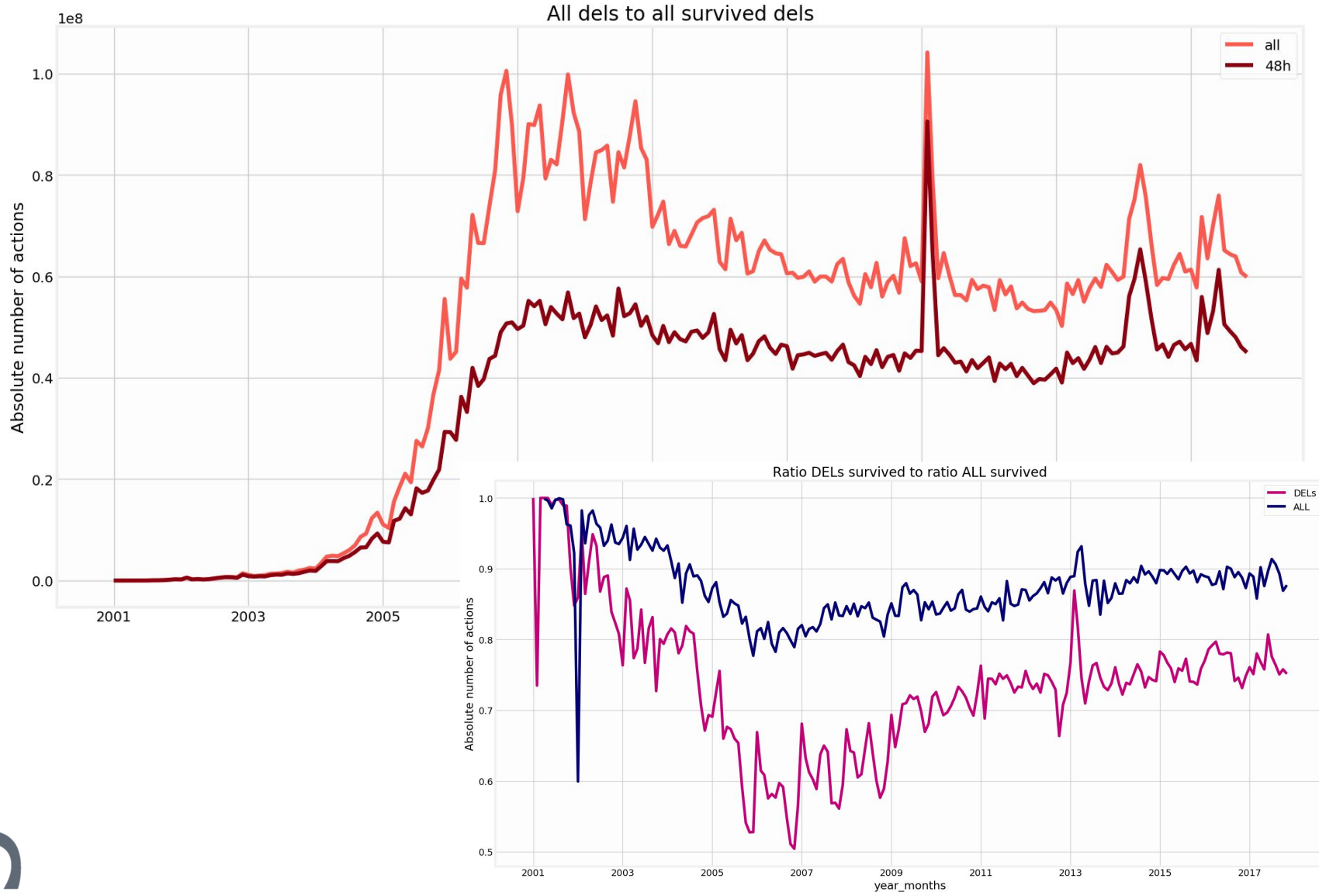
EN DEL actions / survival



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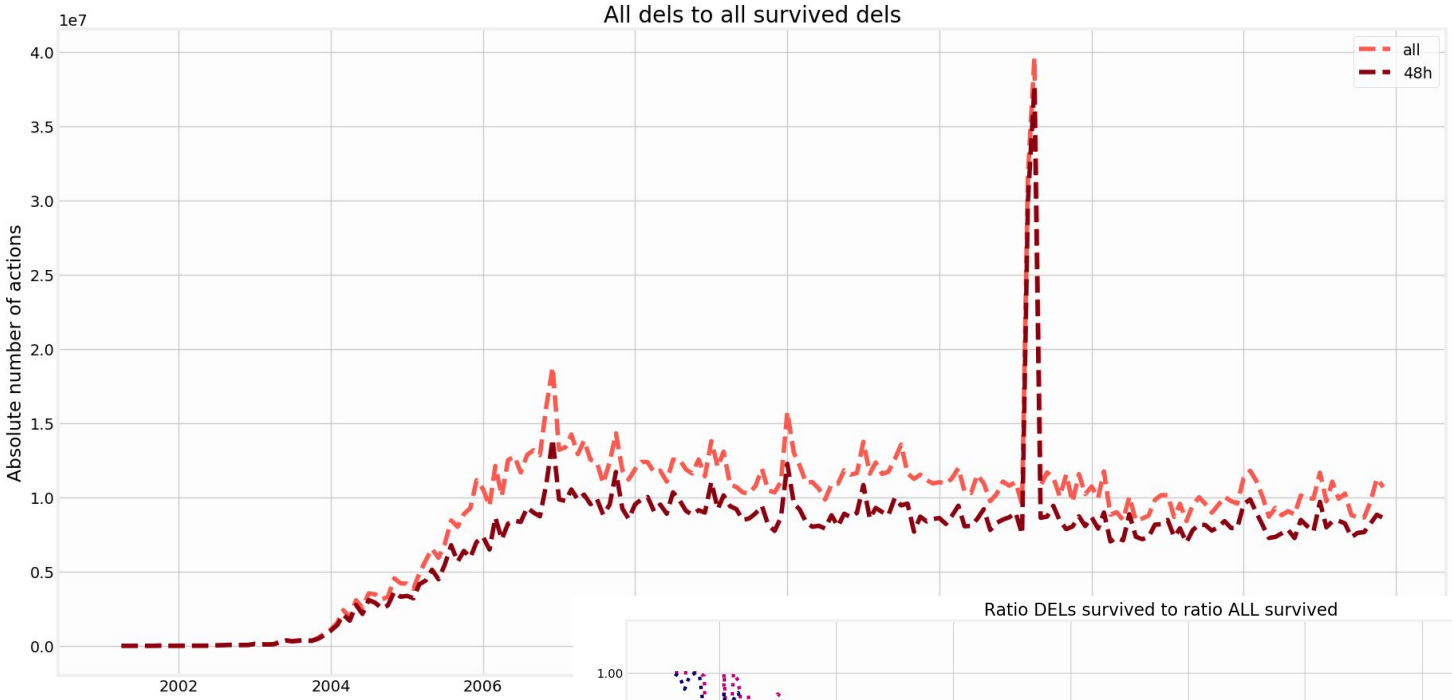
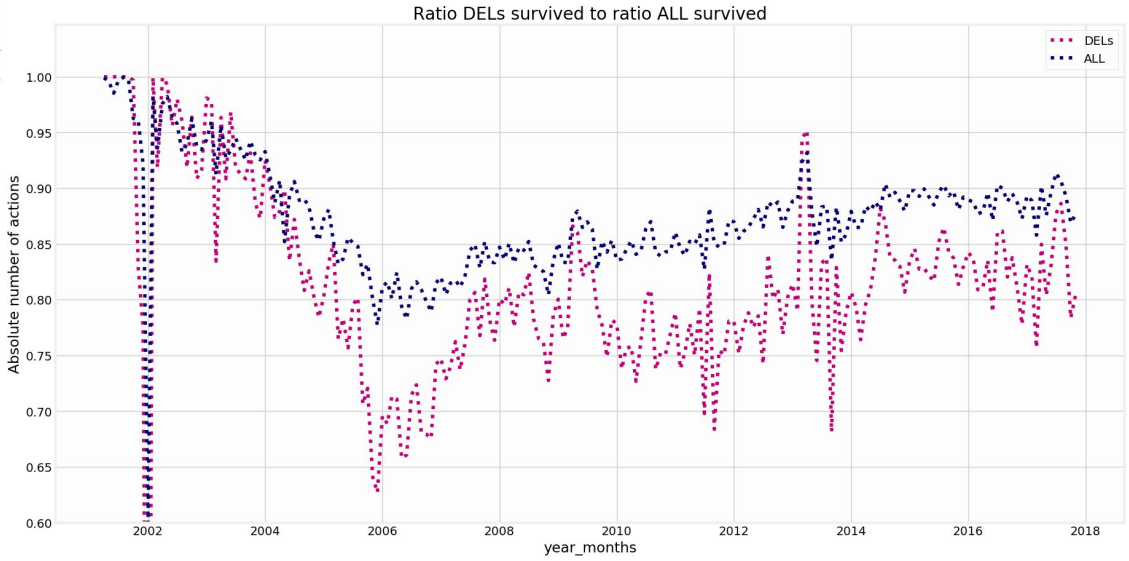
DE DEL actions / survival





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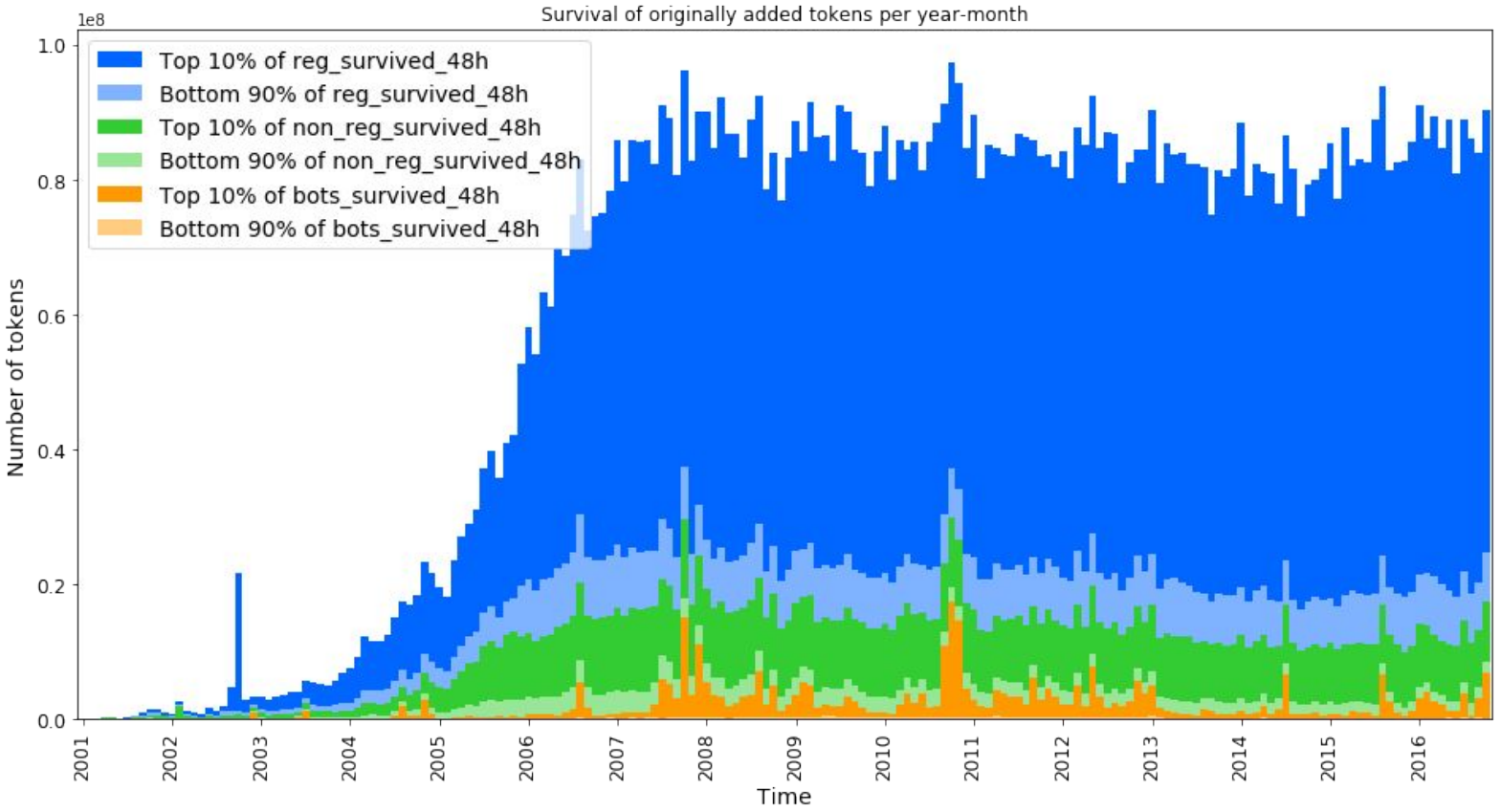
content authorship & survival



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insights about reverts

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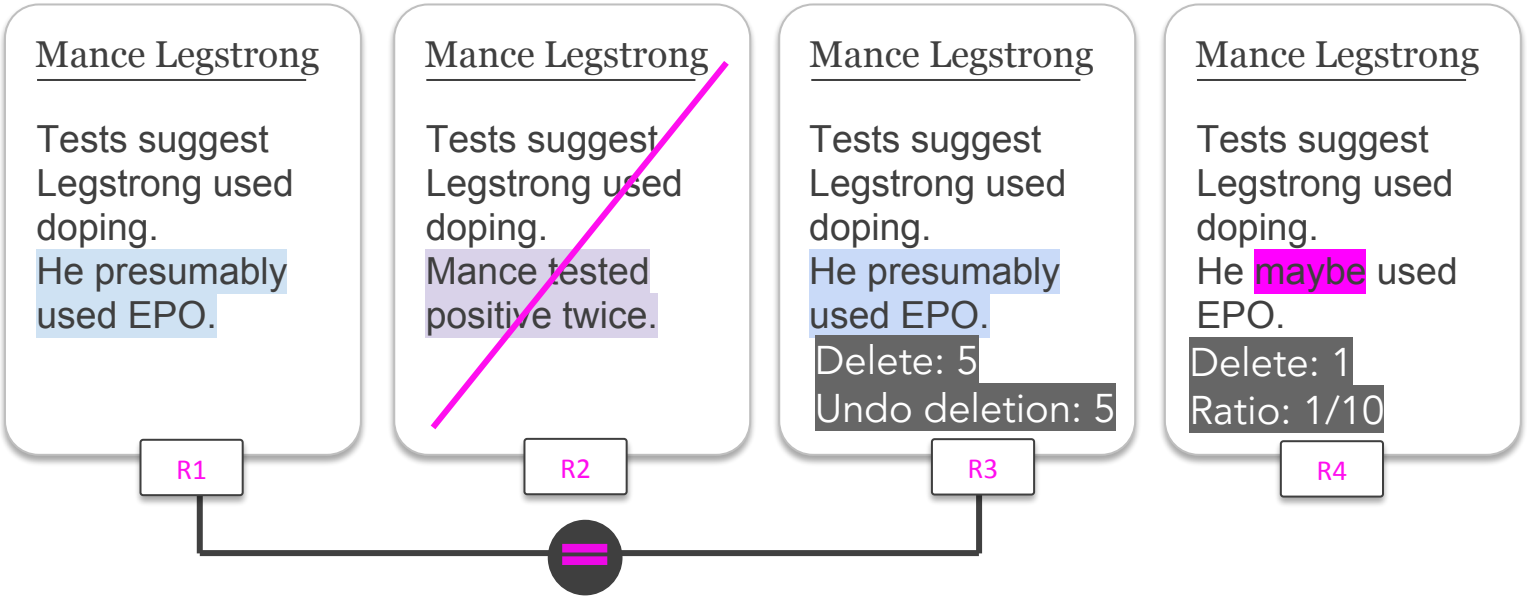
partial reverts/undoing



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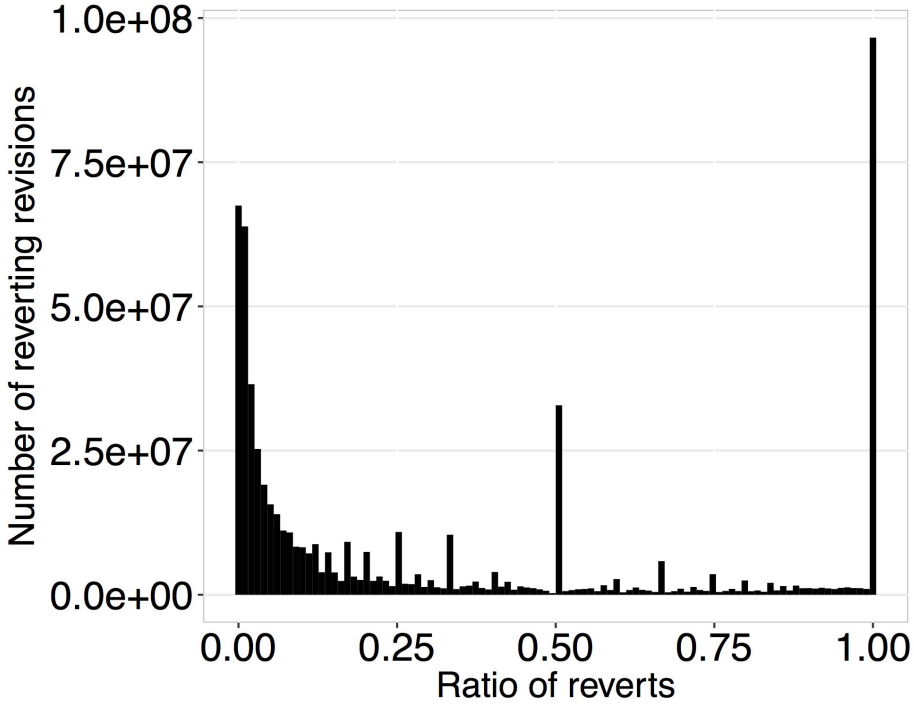
why partial reverts matter



- Most revisions undoing smth. are not full reverts (~3.4:1 partial:full)
- Finding full reverts w/ "old school" identity reverts:
  - We miss ~6% of actual fully **reverting** revisions
  - 28.6% of revisions detected as fully **reverted** are actually partially reverted or not reverted at all

- Fun fact 1: 61.51% of all edits include some kind of removal or reinsertion of content
- Fun fact 2: in 14.62% of the revisions editors correct their own edits

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n-gram survival/popularity

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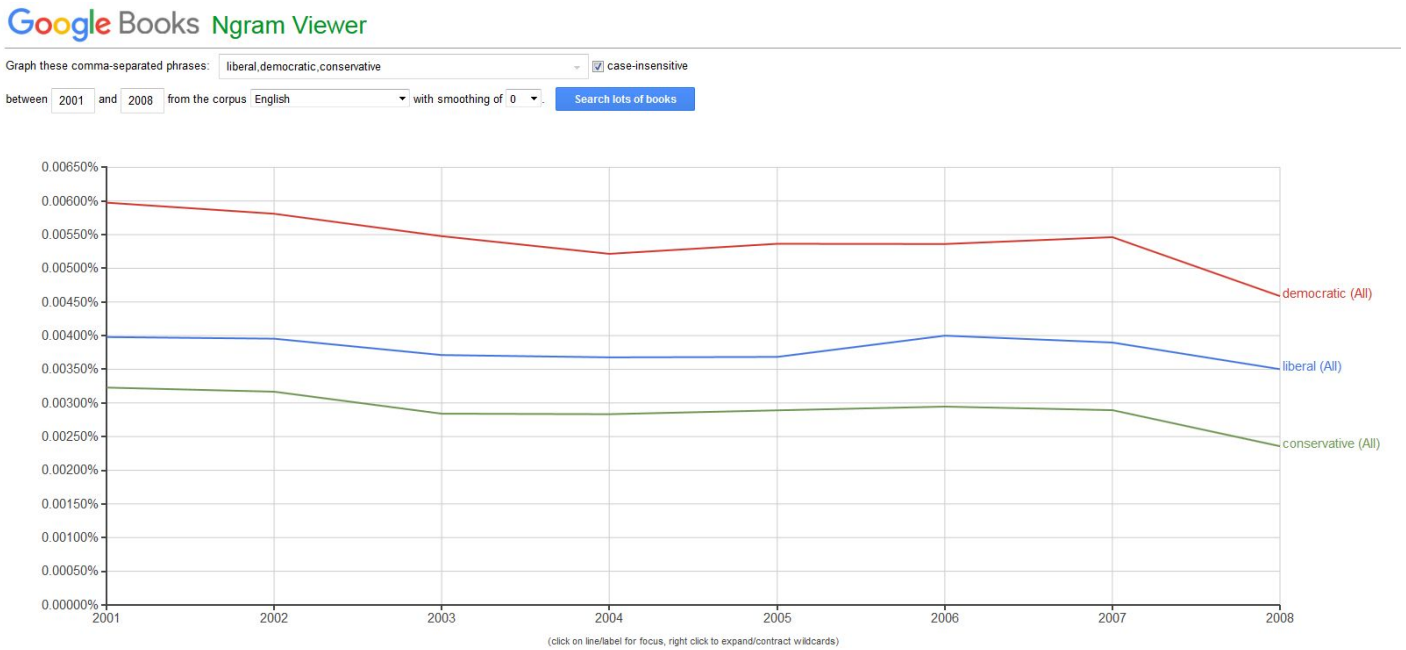
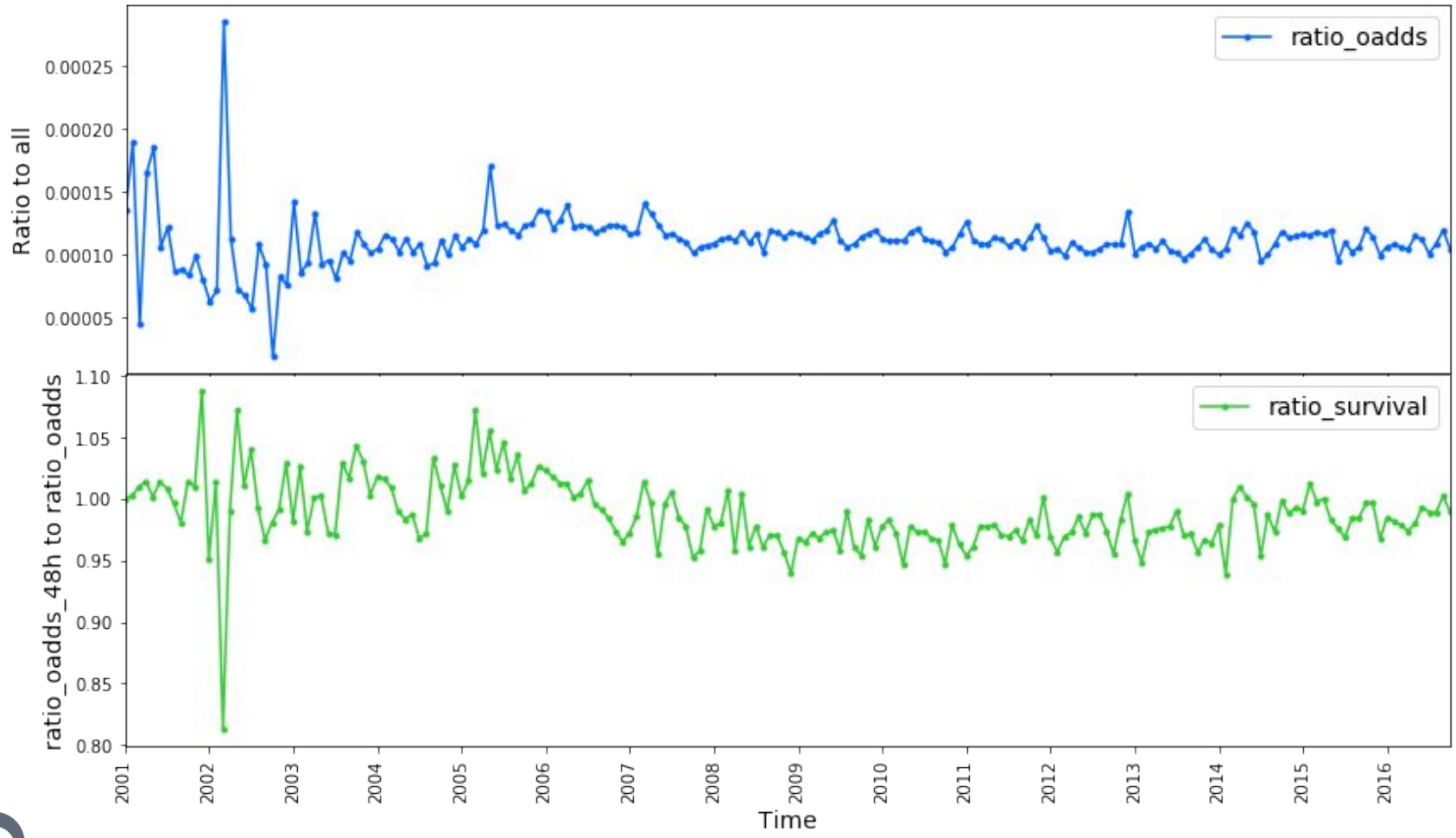
n=1 survival/popularity



"vanilla" 1-grams

"green"



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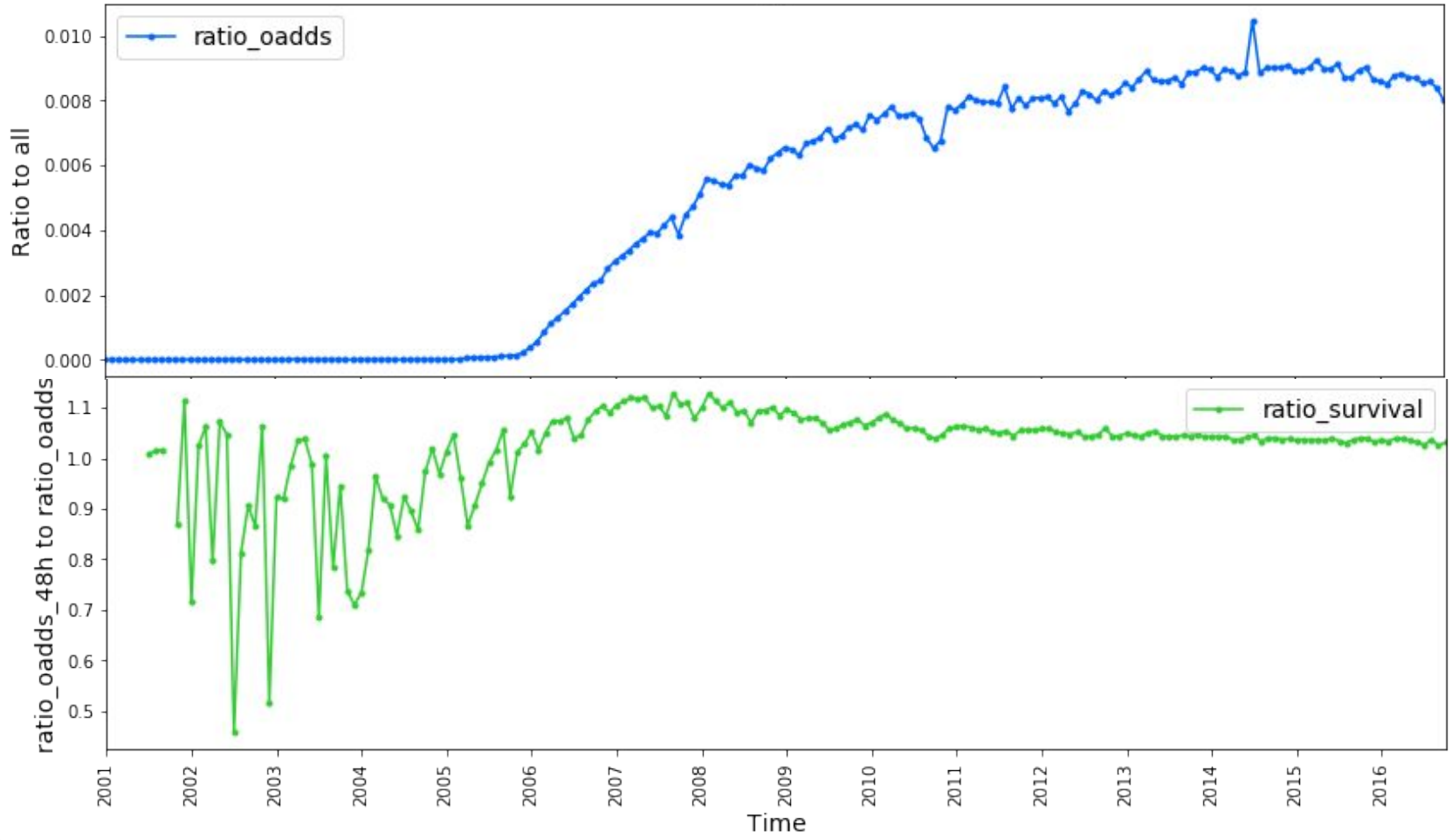
markup 1-grams

"ref"



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problematic 1-grams

Project page | Talk | Read

Wikipedia:Manual of Style/Words to watch

1 Words that may introduce bias [edit source]

1.1 Puffery [edit source]

See also: Wikipedia:Neutral point of view

Shortcuts
MOS:PUFF
WP:PEA
WP:PEACOCK
WP:FLOWERY

Words to watch: **legendary, great, acclaimed, iconic, visionary, outstanding, leading, celebrated, award-winning, landmark, cutting-edge, innovative, extraordinary, brilliant, hit, famous, renowned, remarkable, prestigious, world-class, respected, notable, virtuoso, honorable, awesome, unique, ...**

Words such as these are often used without attribution to promote the subject of an article, while neither imparting nor plainly summarizing verifiable information. They are known as "peacock terms" by Wikipedia contributors.[2] Instead of making unprovable proclamations about a subject's importance, use facts and attribution to demonstrate that importance.

An example of peacock terms

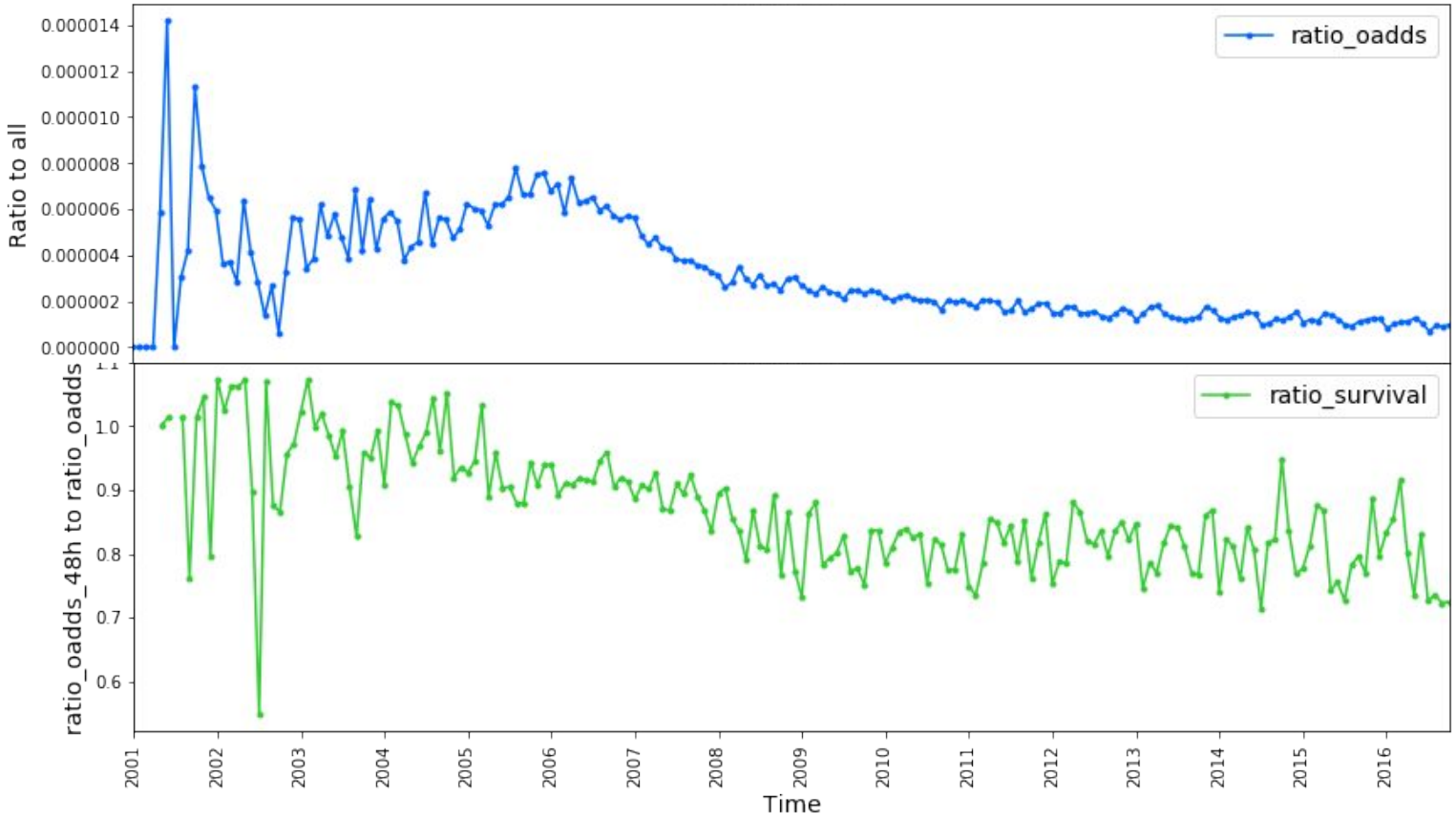
- **Peacock example:**
  - Bob Dylan is the defining figure of the 1960s counterculture and a brilliant songwriter.
- **Just the facts:**
  - Dylan was included in *Time*'s 100: The Most Important People of the Century, in which he was called "master poet, caustic social critic and intrepid, guiding spirit of the counterculture generation".[refs 1] By the mid-1970s, his songs had been covered by hundreds of other artists.[refs 2]

Articles suffering from such language should be rewritten to correct the problem or may be tagged with an appropriate template[2] if an editor is unsure how best to correct them.

Puffery is an example of positively loaded language; negatively loaded language should be avoided just as much. People responsible for "public spending" (the neutral term) can be loaded both ways, as "the tax-and-spend politicians borrowing off the backs of our grandchildren" or "the

problematic 1-grams

"interesting*"



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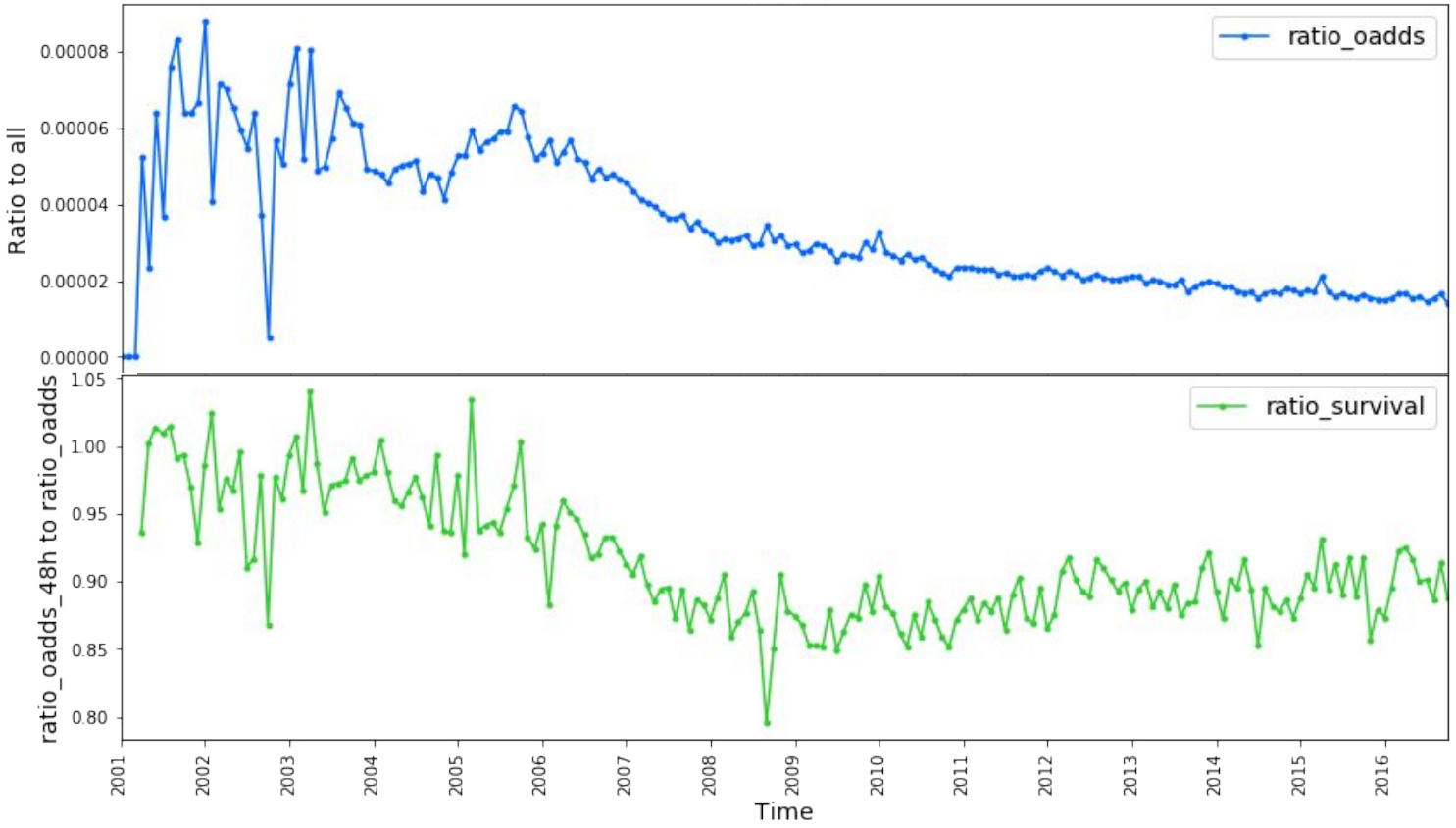
problematic 1-grams

"apparent*"



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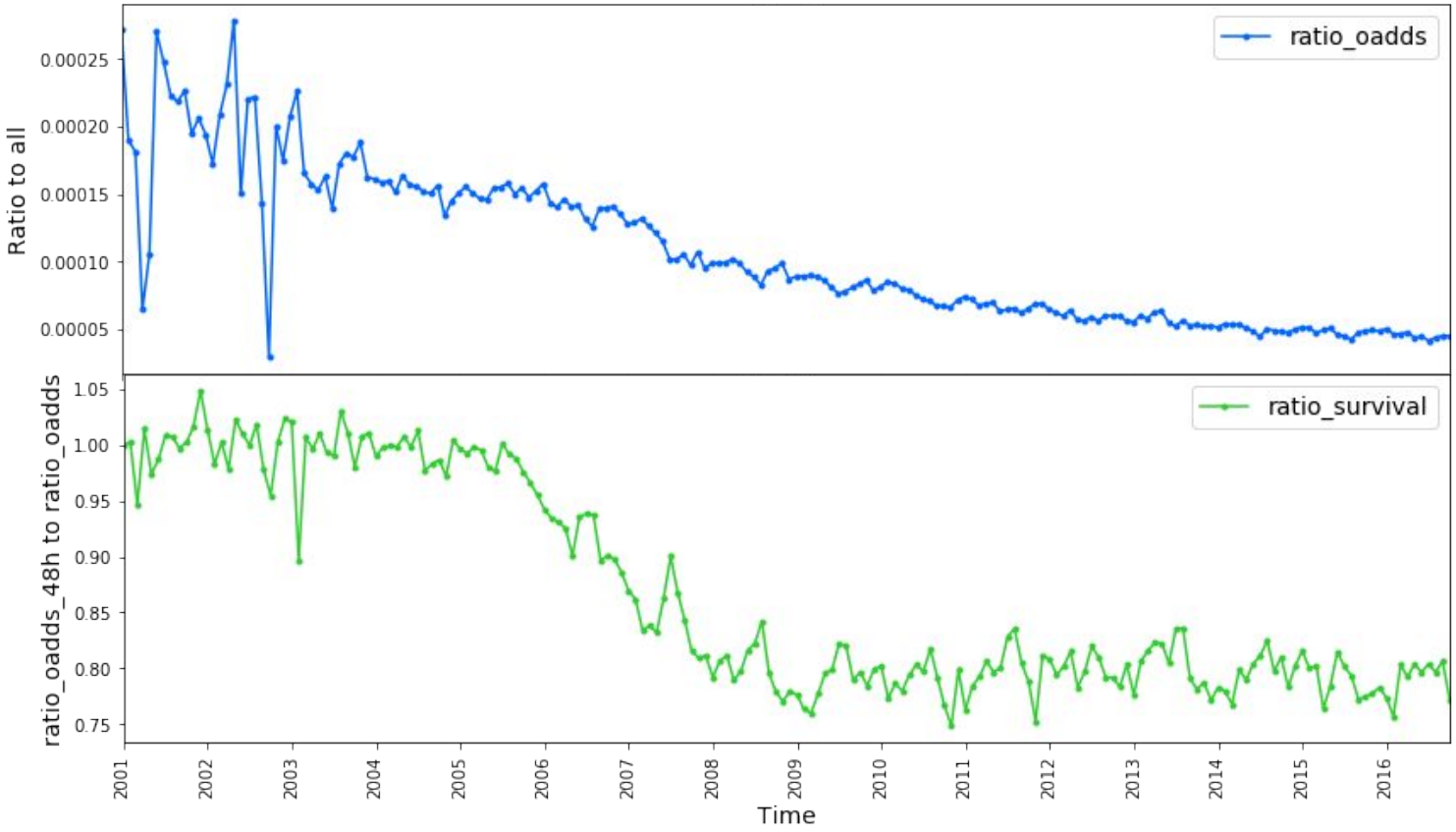
problematic 1-grams

"famous*"



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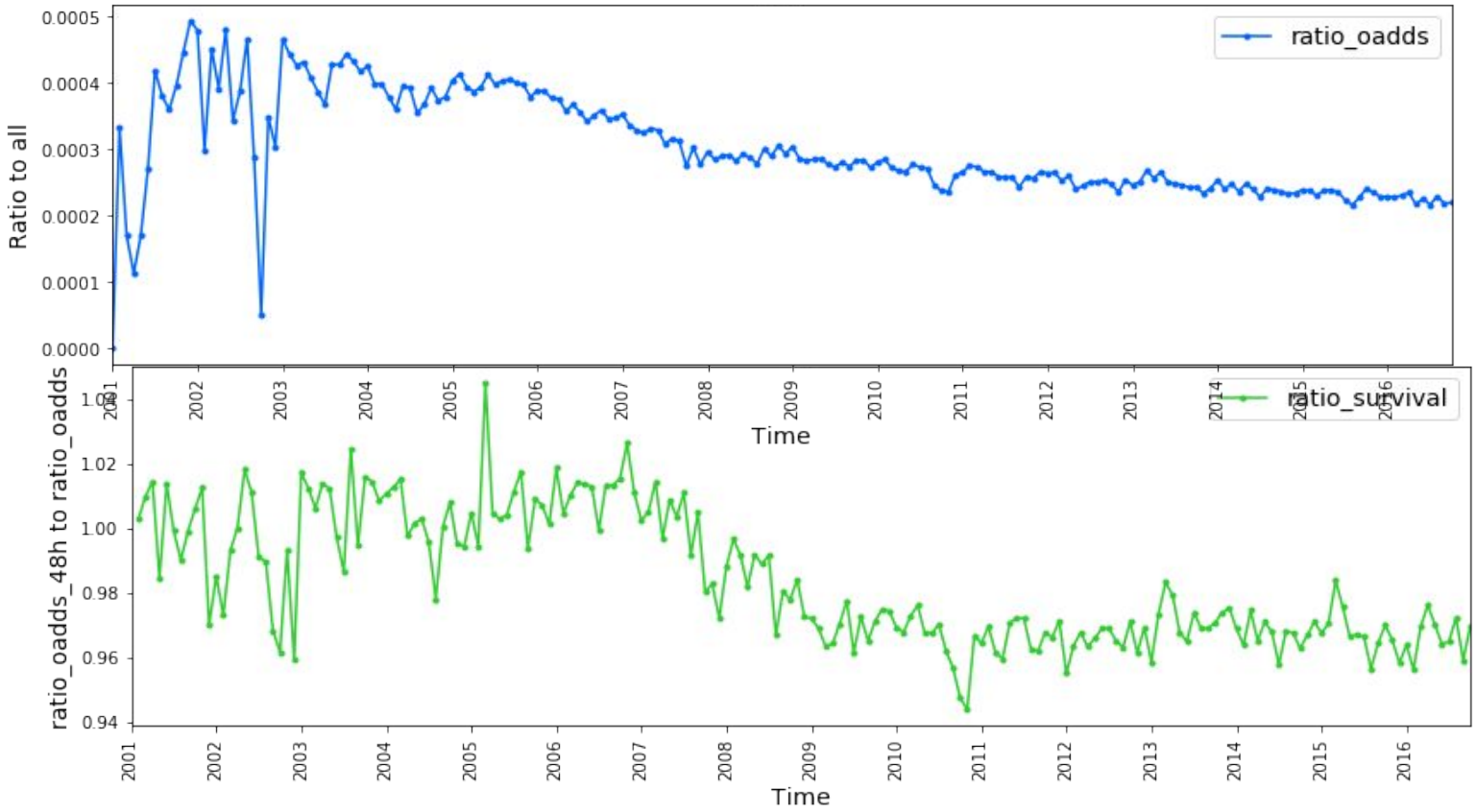
? 1-grams

"later"



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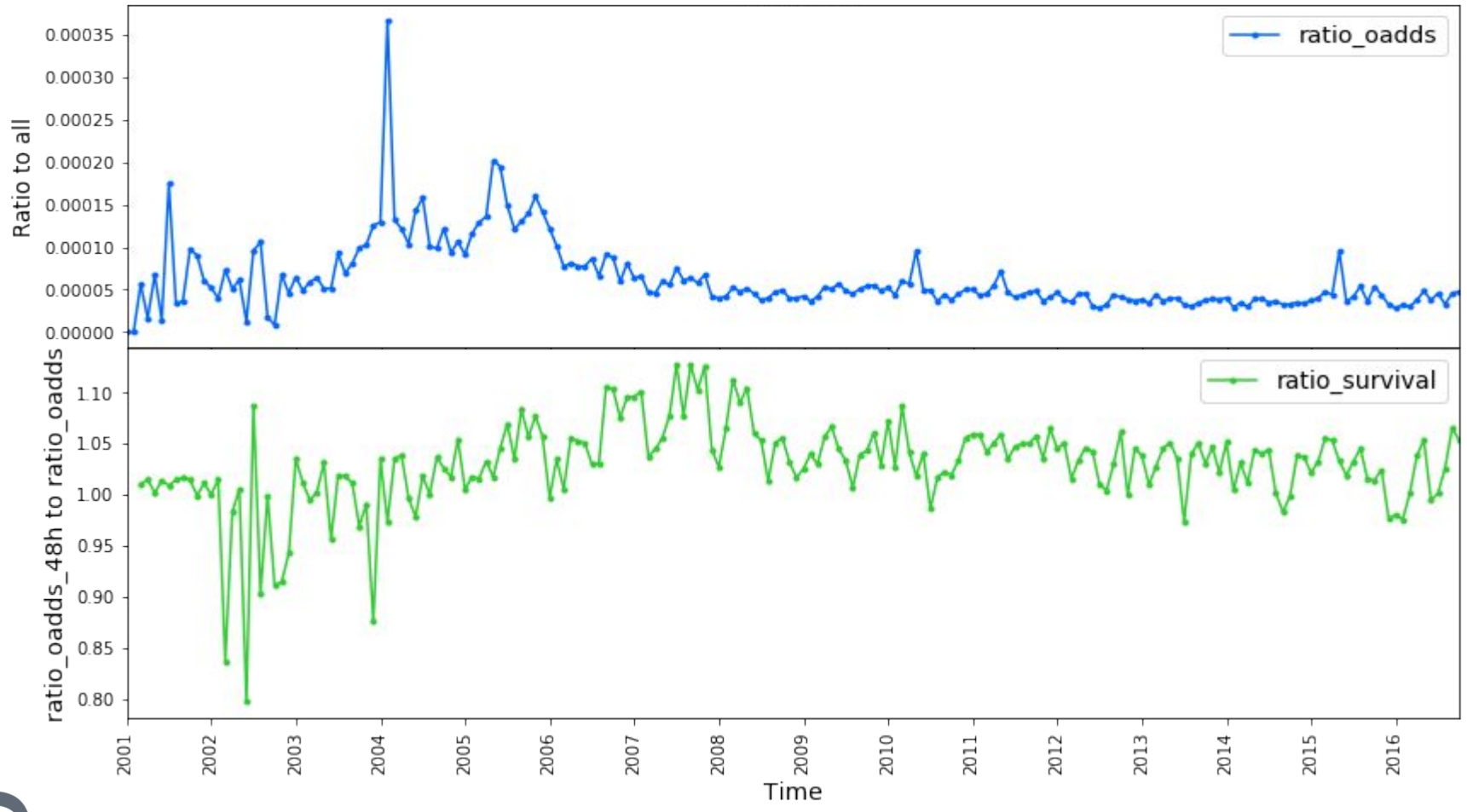
? 1-grams

"conservative"



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Calculating conflict

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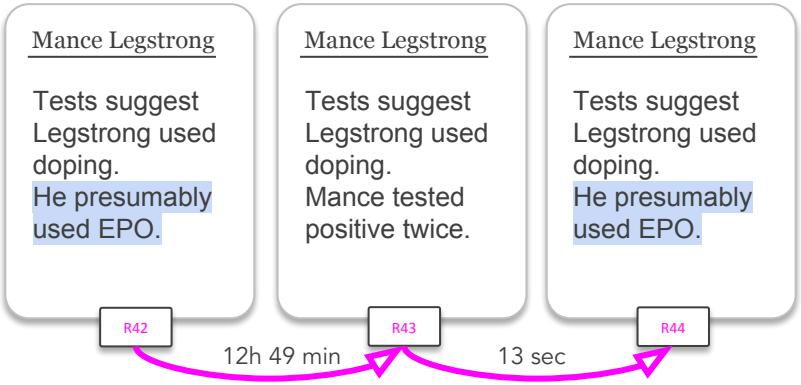
n-gram-based conflicts



Rank	String (cT_n)	n	cT_n
1	barneys	1058	27.9
2	speciation	2289	24.4
3	kishimoto	1146	21.7
4	phishing	1061	14.7
5	smackdown	1248	12.8
6	dumbledore	1159	12.6
7	multicellular	1057	12.4
8	asda	1480	12.3
9	kemal	6126	11.8
10	bungie	2528	11.3
11	voldemort	1243	11.2
12	halo	1521	11.1
13	guitar	2562	10.9
14	mediawiki	1784	10.9
15	alleles	2293	10.4

Top 10 articles with most conflict for string „voldemort“

Rank of most controversy for string	*n* of string in article	Article title	Global article controversy ranking
1	137	Lord Voldemort	3101
2	39	Harry Potter (character)	686
3	37	Harry Potter	647
4	103	Death Eater	7845
5	34	Albus Dumbledore	2178
6	29	Severus Snape	3979
7	68	Magical objects in Harry Potter	9349
8	22	Harry Potter and the Deathly Hallows – Part 2	18563
9	60	Magic in Harry Potter	5878
10	55	List of supporting Harry Potter characters	7157

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n-gram-based conflicts

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The Free Encyclopedia

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United Kingdom European Union membership referendum, 2016

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Cite this page

The **United Kingdom European Union membership referendum**, also known as the **EU referendum** and the **Brexit referendum**, took place on 23 June 2016 in the United Kingdom (UK) and Gibraltar to gauge support for the country either remaining a member of, or leaving, the European Union (EU). The referendum resulted in 51.9% of voters voting in favour of leaving the EU. The UK government initiated the official EU withdrawal process on 29 March 2017: this put the country on course to complete the withdrawal process by 30 March 2019 (unless all parties to the negotiations agree to do otherwise).

Membership of the EU and its predecessors has long been a topic of debate in the United Kingdom. The country joined what were then the three European Communities, principally the European Economic Community (EEC, or "Common Market"), in 1973. A referendum on continued membership of the European Communities was held in 1975, and it was approved by 67% of voters.

In 2015, in accordance with a Conservative Party manifesto commitment, the legal basis for a referendum on EU membership was established by the UK Parliament through the European Union

United Kingdom European Union membership referendum

Should the United Kingdom remain a member of the European Union or leave the European Union?

Location: United Kingdom, Gibraltar

Date: 23 June 2016

Results

	Votes	%
Leave	**17,410,742**	**51.89%**
Remain	16,141,241	48.11%
Valid votes	33,551,983	99.92%
Invalid or blank votes	25,359	0.08%
Total votes	**33,577,342**	**100.00%**
Registered voters/turnout	46,500,001	72.21%

Results by voting areas

All

Rank	String	*na*	cT_{na}
1	declaration	1	258.6
2	newsletter	1	257.4
3	7224491	1	257.4
4	tory	1	256.8
5	outlines	1	256.8
6	request	1	256.8
7	2015	1	256.8
8	memberships	1	256.8
9	massive	1	256.8
10	write	1	256.8

Appear at least 10 times in article

Rank	String	*na*	cT_{na}
1	unionist	13	208.8
2	february	46	202.5
3	december	15	202.2
4	bill	29	199.5
5	2013	29	197.5
6	economy	13	188.0
7	stay	14	184.5
8	org	46	184.4
9	2015	120	181.1
10	counts	10	178.6

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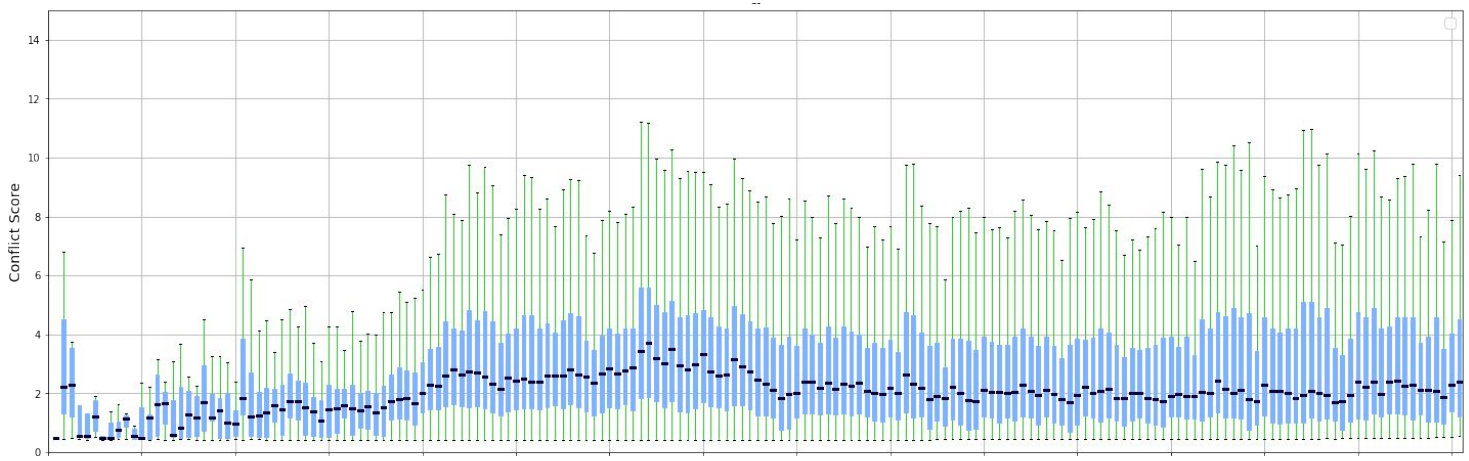
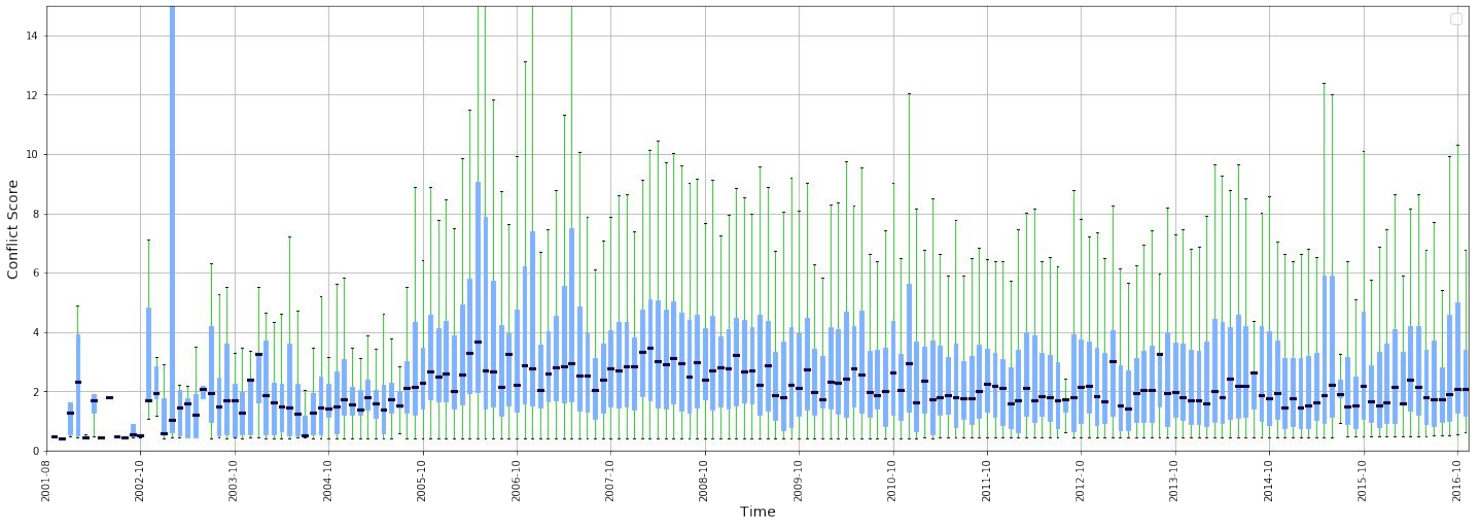
n-gram-based conflicts

"conservative*"



"liberal*"

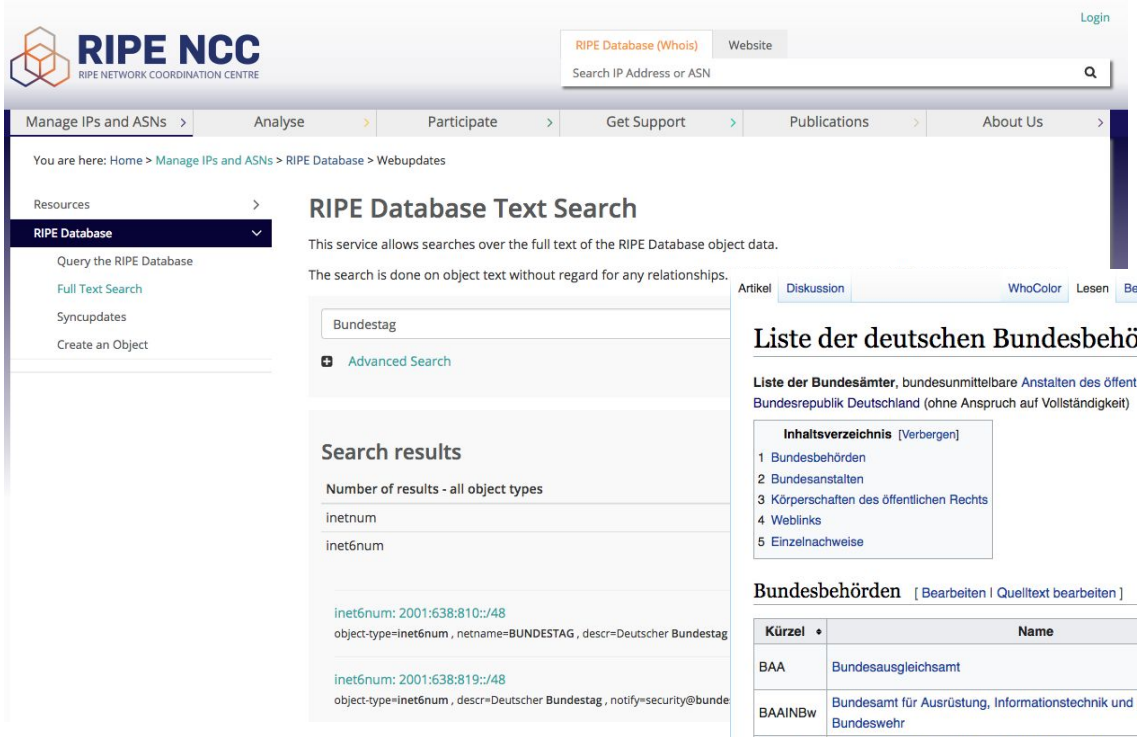


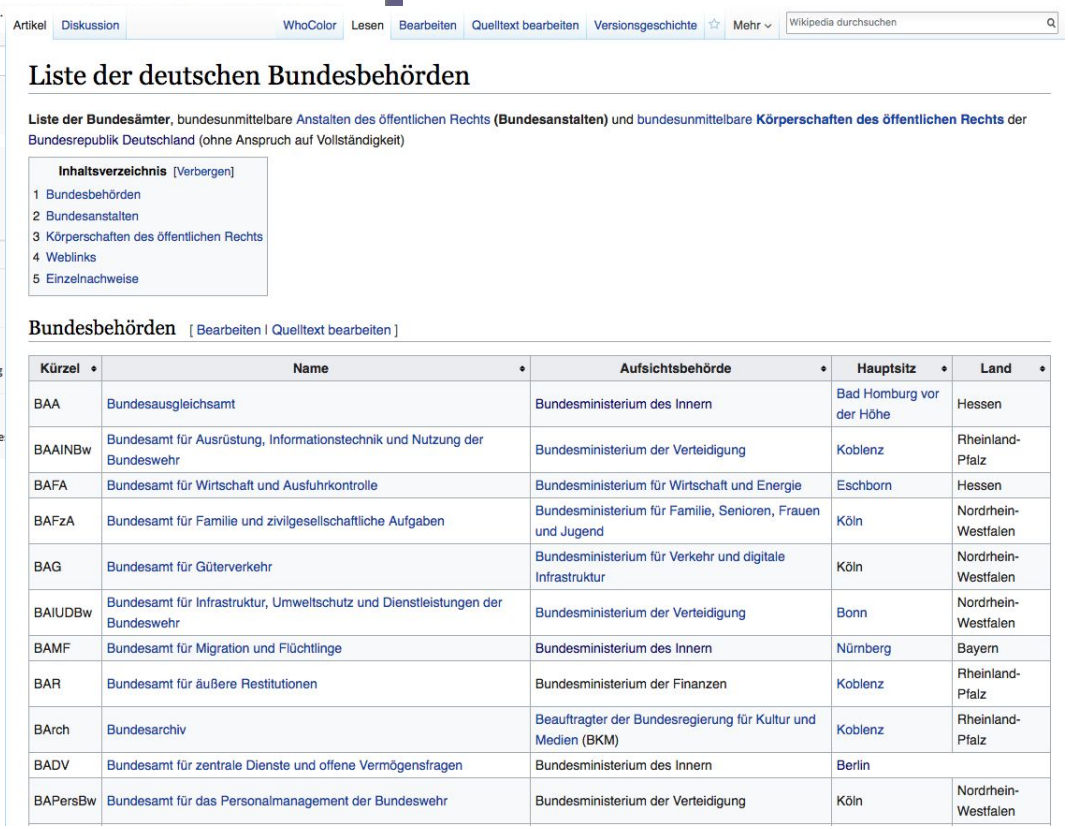
gesis

Are German officials doing something productive on WP?

gesis

IP ranges

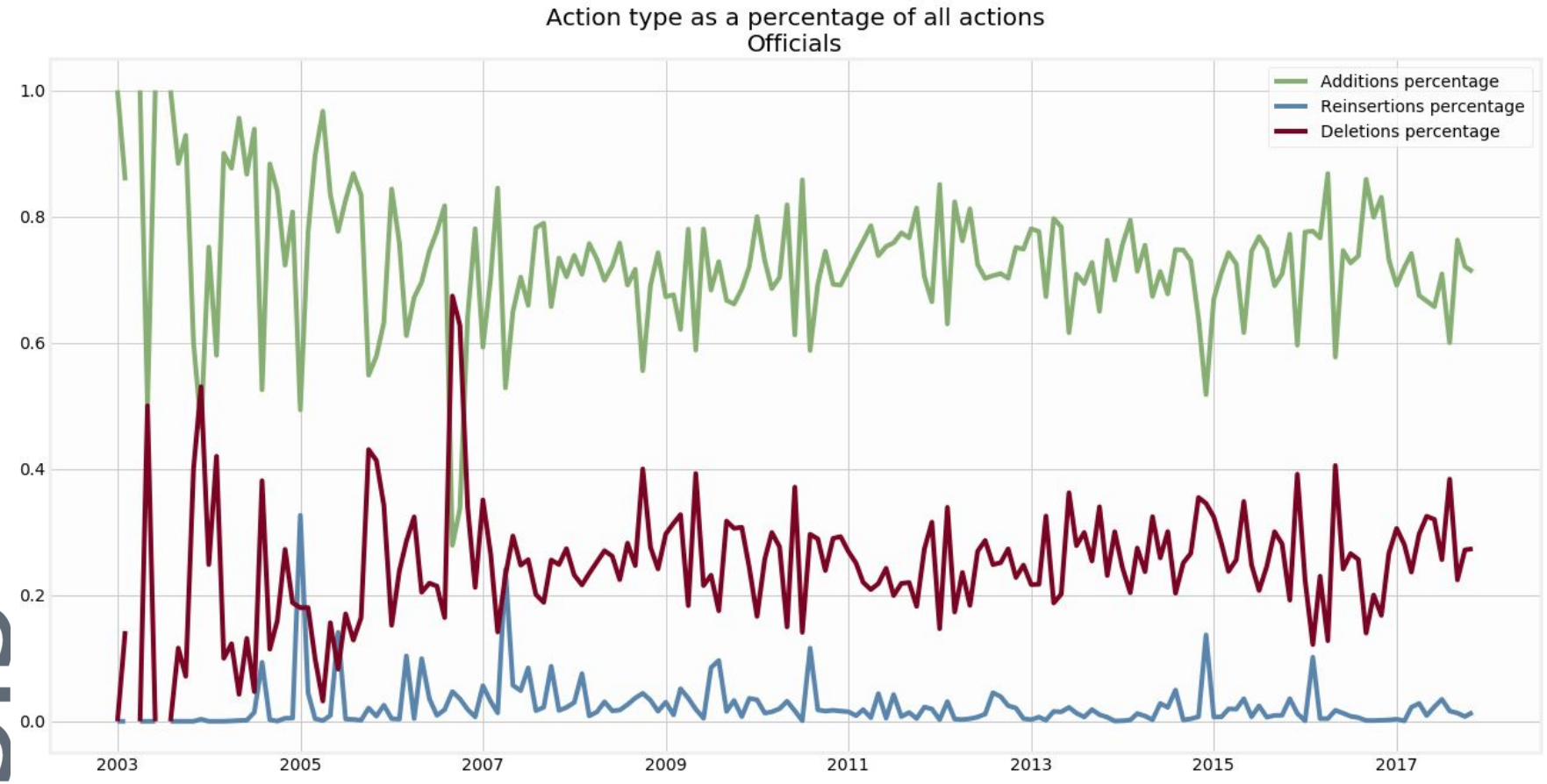




Kürzel	Name	Aufsichtsbehörde	Hauptsitz	Land
BAA	Bundesausgleichsamt	Bundesministerium des Innern	Bad Homburg vor der Höhe	Hessen
BAAINBw	Bundesamt für Ausrüstung, Informationstechnik und Nutzung der Bundeswehr	Bundesministerium der Verteidigung	Koblenz	Rheinland-Pfalz
BAFA	Bundesamt für Wirtschaft und Ausfuhrkontrolle	Bundesministerium für Wirtschaft und Energie	Eschborn	Hessen
BAFzA	Bundesamt für Familie und zivilgesellschaftliche Aufgaben	Bundesministerium für Familie, Senioren, Frauen und Jugend	Köln	Nordrhein-Westfalen
BAG	Bundesamt für Güterverkehr	Bundesministerium für Verkehr und digitale Infrastruktur	Köln	Nordrhein-Westfalen
BAIUDBw	Bundesamt für Infrastruktur, Umweltschutz und Dienstleistungen der Bundeswehr	Bundesministerium der Verteidigung	Bonn	Nordrhein-Westfalen
BAMF	Bundesamt für Migration und Flüchtlinge	Bundesministerium des Innern	Nürnberg	Bayern
BAR	Bundesamt für äußere Restitutionen	Bundesministerium der Finanzen	Koblenz	Rheinland-Pfalz
BArch	Bundesarchiv	Beauftragter der Bundesregierung für Kultur und Medien (BKM)	Koblenz	Rheinland-Pfalz
BADV	Bundesamt für zentrale Dienste und offene Vermögensfragen	Bundesministerium des Innern	Berlin	
BAPersBw	Bundesamt für das Personalmanagement der Bundeswehr	Bundesministerium der Verteidigung	Köln	Nordrhein-Westfalen

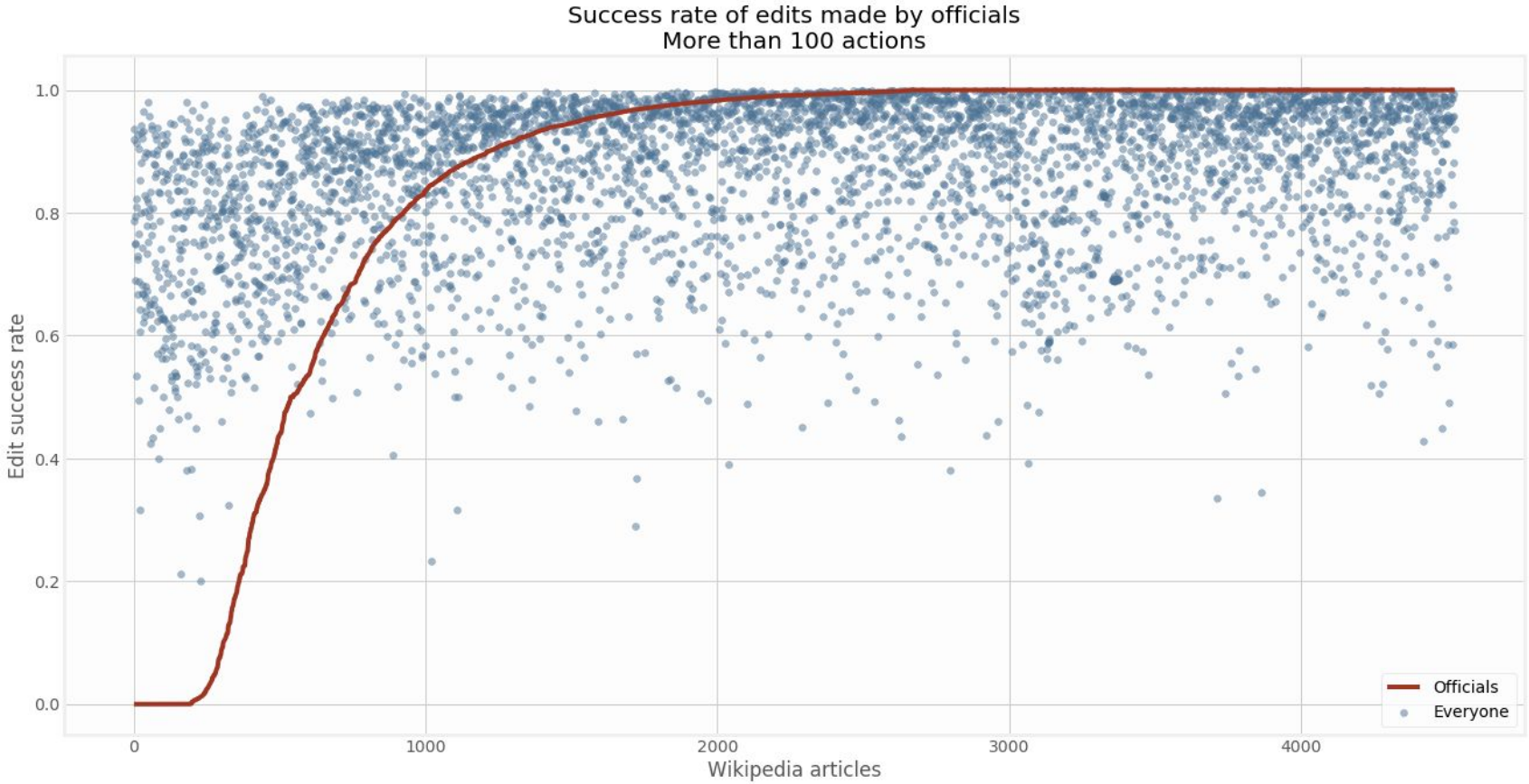
gesis

Type of actions officials



gesis

Success rate officials



gesis

Tools:
mark up

gesis

WhoColor

FaFlo Diskussion Einstellungen Beta Beobachtungsliste Beiträge Abmelden

Artikel | Diskussion | WhoColor | Lesen | Bearbeiten | Quelltext bearbeiten | Versionsgeschichte | Mehr | Wikipedia durchsuchen

Fußball-Weltmeisterschaft 2018

Dieser Artikel beschreibt ein aktuelles Ereignis. Die Informationen können sich deshalb rasch ändern.

Die Endrunde der Fußball-Weltmeisterschaft **2018** (russisch Чемпионат мира по футболу 2018, englisch *2018 FIFA World Cup*) ist die **21.** Austragung des bedeutendsten Turniers für Fußball-Nationalmannschaften und findet seit dem 14. Juni bis zum 15. Juli 2018[1] in Russland statt. Als Generalprobe diente der FIFA-Konföderationen-Pokal 2017 in Russland.

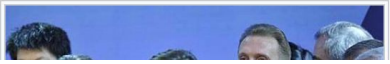
Vergabe [Bearbeiten | Quelltext bearbeiten]

→ *Hauptartikel: Vergabe der Fußball-Weltmeisterschaften 2018 und 2022*

Das Exekutivkomitee der FIFA[2] hatte am 19. Dezember 2008 während seiner Sitzung in Tokio beschlossen, die beiden Weltmeisterschaften 2018 und 2022 gleichzeitig zu vergeben. Die Frist für die Mitgliedsverbände zur Bekundung ihres Interesses an der Ausrichtung endete am 2. Februar 2009. Für die beiden Turniere gingen elf Bewerbungen aus 13 Ländern ein. Dem 2007 modifizierten Rotationsverfahren entsprechend waren für das Turnier 2018 die Kontinentalverbände, in denen die beiden vorangehenden Weltmeisterschaften stattgefunden haben (Afrika mit Südafrika 2010 und Südamerika mit Brasilien 2014), von der Bewerbung ausgeschlossen. Bis zur Vergabe zogen sich alle nicht-europäischen Bewerber für die Weltmeisterschaft 2018 zurück und konzentrierten sich auf die Weltmeisterschaft 2022.

Den Gastgeber der WM 2018 gab die FIFA am 2. Dezember 2010 in Zürich bekannt. Russland setzte sich gegen die Gemeinschaftsbewerbungen von Spanien und Portugal, der Niederlande und Belgien sowie die Bewerbung von England durch. Bei der Wahl war eine absolute Mehrheit von zwölf Stimmen erforderlich. Bis diese erreicht wurde, schied pro Runde der Bewerber mit den wenigsten Stimmen aus.[3]

Fußball-Weltmeisterschaft 2018 *2018 FIFA World Cup Russia* FIFA WORLD CUP RUSSIA 2018	
Anzahl Nationen	32 (von 211 Bewerbern)
Austragungsort	Russland
Eröffnungsspiel	14. Juni 2018 (Moskau)
Endspiel	15. Juli 2018 (Moskau)
Spiele	64 insgesamt 60 bisher absolviert
Tore	157 (ø: 2,62 pro Spiel)
Zuschauer	2.747.054 (ø: 45.784 pro Spiel)
Gelbe Karten	205 (ø: 3,42 pro Spiel)
Gelb-Rote Karten	2 (ø: 0,03 pro Spiel)
Rote Karten	2 (ø: 0,03 pro Spiel)
Strafstöße	28 (ø: 0,47 pro Spiel)



Provenance | Conflict | Age

Editor List

Superbia23	20.0%
SanFran Farmer	12.0%
Flodder666	9.5%
Salazarssoul	5.8%
Steindy	5.7%
Toni Müller	3.7%
Cum Deo	2.3%
WikiFreibeuter	1.9%
Manib	1.7%
Thylacin	1.6%
0l89.181.245.250	1.5%
4ecken	1.4%
Petruz	1.4%
Themenportale211	1.3%
Exil	1.0%
Elephant1989	0.9%
Anidaat	0.9%
Gr1	0.9%
Rmcharb	0.8%

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WhoColor

FaFlo
Diskussion Einstellungen Beta Beobachtungsliste Beiträge Abmelden
Artikel Diskussion WhoColor Lesen Bearbeiten Quelltext bearbeiten Versionsgeschichte Mehr
Wikipedia durchsuchen
Provenance Conflict Age
Conflict View
Fußball-Weltmeisterschaft 2018
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→ Hauptartikel: Vergabe der Fußball-Weltmeisterschaften 2018 und 2022
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WhoColor

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Artikel Diskussion WhoColor Lesen Bearbeiten Quelltext bearbeiten Versionsgeschichte Mehr
Wikipedia durchsuchen
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Rote Karten 2 (ø: 0,03 pro Spiel)
Strafstöße 28 (ø: 0,47 pro Spiel)
Provenance Conflict Age
Age View
Days from: 0
Days to: 360
Group size: 10
Calculate

WikiEdu dashboard

Epidemiology ENPH 450 | Home | Timeline | Students | Articles | Uploads | Activity

Hand, foot, and mouth disease

How did the article viewer work for you?

the reported hair loss is unclear; however, it is temporary and hair growth resumes without treatment.

Minor complications due to symptoms can occur such as dehydration, due to mouth sores causing discomfort with intake of foods and fluid.[25]

Epidemiology

Hand, foot and mouth disease most commonly occurs in children under the age of 10.[4][17] It tends to occur in outbreaks during the spring, summer, and autumn seasons.[6] This is believed to be due to heat and humidity improving spread.[20] HFMD is more common in rural areas than urban areas; however, socioeconomic status and hygiene levels need to considered.[26] Poor hygiene is a risk factor for HFMD.[27]

Outbreaks have occurred in China, Japan, Hong Kong, the Republic of Korea, Malaysia, Singapore, Thailand, Taiwan and Vietnam.[20] HFMD most commonly affects young children under the age of 10 and more often under the age of 5, but can also affect adults with varying symptoms.[18]

Since 1997 there have been 71 large enterovirus outbreaks reported, mostly in East and South East Asia, primarily affecting children.[20] From the years 2008 to 2014, more than 1 million HFMD cases have been reported in China each year.[28]

Outbreaks

- In 1998, there was an outbreak in Taiwan, affecting mainly children.[29] There were 405 severe complications, and 78 children

Edits by: DonnieTrump Apelle1

View on wiki

WikiWho
German
Contact
Register
Login
WhoColor API
Documentation can be found at api.wikiwho.net.
Created by GESIS - Leibniz Institute for the Social Sciences, CSS group
Extended html
Show/Hide
List Operations
Expand Operations
GET
/{page_title}/
Get the extended html of last revision of an article
GET
/{page_title}/{rev_id}/
Get the extended html of a specific revision of an article
[BASE URL: /de/whocolor/v1.0.0-beta , API VERSION: 1.0.0-beta]
VALID
{...}

gesis

Tools:

editor productivity / disputes

Interactive Jupyter Notebooks that query api.wikiwho.net
(screenshots of prototype, to be released)

gesis

Forschungspraktikum Computational Social Science

This web service serves to measure the influence of a user in Wikipedia. Many foreign APIs were used. Further information can be found in the Github documentation. This project was a part of a research internship in the winter term 2017/18 at the University of Koblenz-Landau in cooperation with the GESIS - Leibniz Institute for the Social Sciences. If you have any questions please do not hesitate to contact us.

Please insert a Username or Userid or use the preloaded datasets below!

ANON

Search!

```
Stored 'userid_input' (int)
Stored 'username_input' (str)
```

Go to Workbook two

Start a new query!

User-related information for the wikipedia user: ANON and all contributed articles

Network Statistics

Username: ANON

Userid: 123456

Gender: unknown

Registration Date: 2005-12-05T22:24:18Z

Days registered: 12 y 7 m 7 d

Editcount: 7911

Edits per day: 1.7198

Link to Userpage: https://en.wikipedia.org/wiki/User:ANON

Articles Summary

Number of article pages user ANON has created, deleted, redirected

Pages created: 110

Pages deleted: 1

Page redirects: 0

Article pages created by user ANON

BokehJS 0.12.14 successfully loaded.

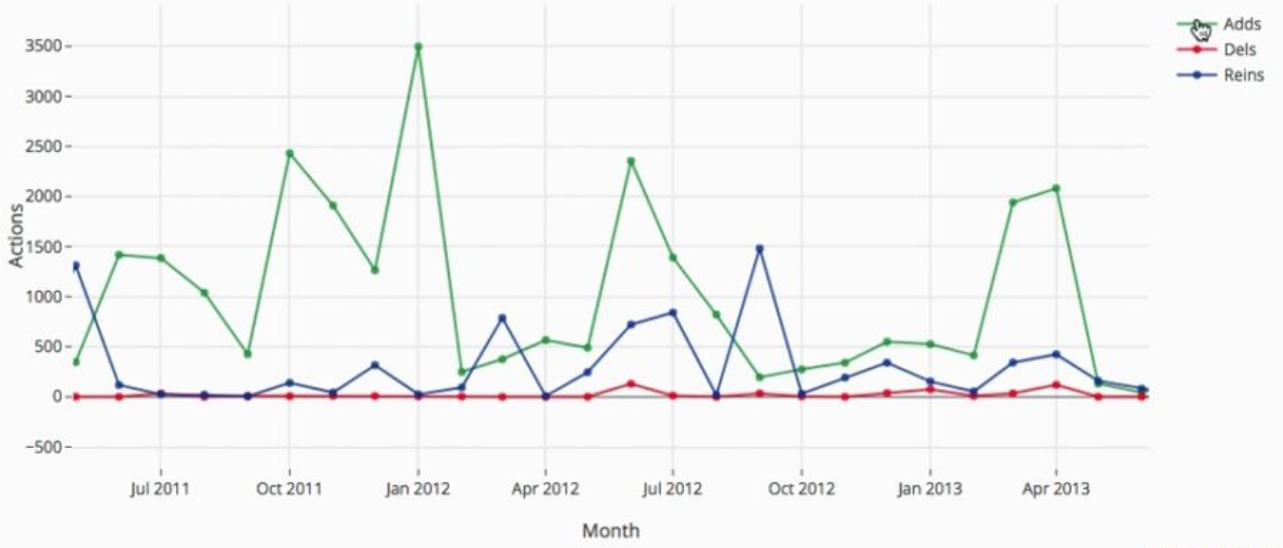
#	Talk Page Title	Page Length	Creation Date
0	Iris (transponder)	2347	2018-05-06 00:13
1	International Roadmap for Devices and Systems	1664	2017-07-26 17:24
2	Neural circuit reconstruction	5517	2016-10-06 19:45
3	Goldstone Solar System Radar	3016	2015-11-04 23:30
4	Solar Star	6458	2015-06-03 16:25
5	List of organizations opposing mainstream scie...	9959	2014-10-09 23:50
6	Deep space bands	1463	2014-07-13 00:09
7	Drosophila connectome	6150	2013-08-18 16:47
8	Universal Space Network	2016	2013-04-08 15:15
9	Autapse	18967	2013-03-28 15:08
10	Three-mirror anastigmat	7165	2012-06-13 03:19
11	Super-LOTIS	2487	2012-01-10 14:07

#	Article Name	Artic	total_adds	adds	adds_s	adds_surv	total_dels	dels_stop	dels_surv_48h	dels_	total	reins_sto	reins_sur	reins_sur	total_actions	total	total_actions_surv_
3	1L6	5...	1	0	1	1	0	0	0	0	0	0	0	0	1	0	1
4	2007 BCS comp...	1...	73	23	73	1	0	0	0	0	0	0	0	0	73	23	73
5	2N3055	4...	5	2	5	2	0	0	0	0	0	0	0	0	5	2	5
6	2nd Avenue	1...	1	0	1	1	0	0	0	0	0	0	0	0	1	0	1
7	5-Inch Forward ...	3...	285	85	285	2	0	0	0	0	0	0	0	0	285	85	285
8	9 Songs	2...	4	1	4	1	0	0	0	0	0	0	0	0	4	1	4
9	A Treatise on th...	5...	832	2...	832	8	0	0	0	0	3	2	3	1	835	2...	835
10	A Treatise upon...	5...	10	3	10	1	0	0	0	0	0	0	0	0	10	3	10
11	A treatise on th...	5...	10	3	10	1	0	0	0	0	0	0	0	0	10	3	10

Activity Overview

begin 2005-12-01 00:00:00

end 2018-03-01 00:00:00



Export to plot.ly »

Adds Survival Ratio

begin 2005-12-01 00:00:00

Edit App Logout

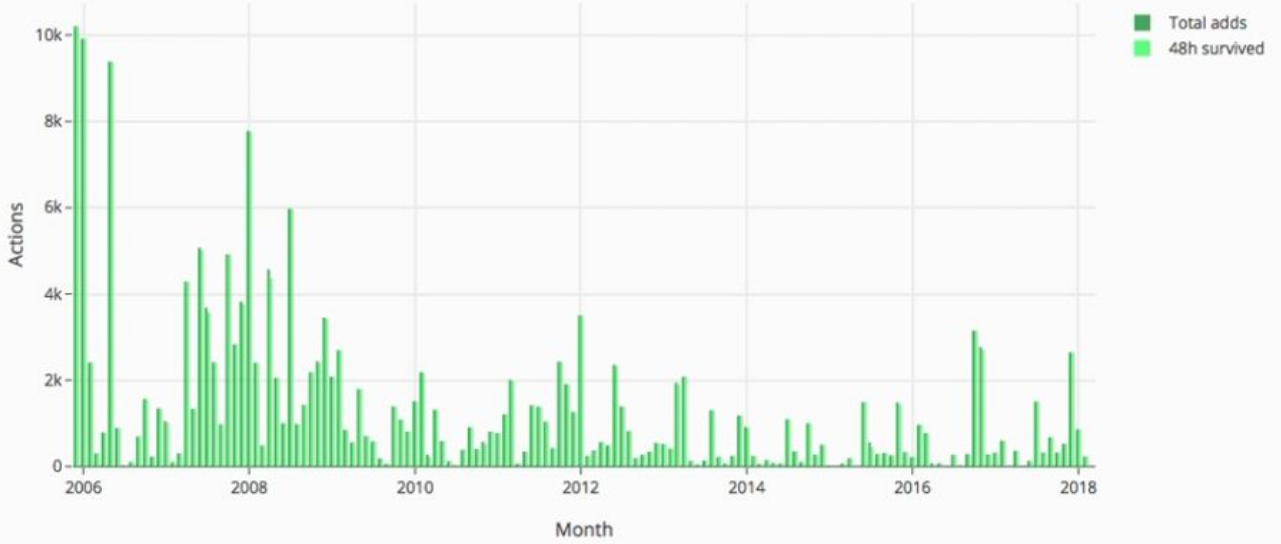
Month

Export to plot.ly »

Adds Survival Ratio

begin 2005-12-01 00:00:00

end 2018-03-01 00:00:00



Export to plot.ly »

Deletes Survival Ratio

begin 2005-12-01 00:00:00

end 2018-03-01 00:00:00

Avg. Actions per Edits Within Hour:	19.6028
Avg. Actions per Edits After one Hour:	22.9001
Avg. Actions per Edits Exactly in one Hour:	0.0336591
Avg. Sessions Within one Hour:	1.81366
Avg. Sessions After one Hour:	3.37171
Avg. Sessions Exactly in one Hour:	0.00390244

Articles with the highest Conflict Rate

Conflict rate is compute as follows :

For a given article: A and editor: X, if X added/deleted a token and another editor B del/add the same token after X and X add/del it after B again, it will be count as a conflict.

For computing the conflict score, the following code is used

t1 = difference between add/del1 by A and del/add2 by B in seconds
t2 = difference between add/del2 by B and del/add3 by A in seconds

$$c_1 = \frac{\lg 3600}{\lg(t_1+2.0)}$$

$$c_2 = \frac{\lg 3600}{\lg(t_2+2.0)}$$

S = Sum of all c1 and c2 over a token
A = Actions of A in this token

$$conflictscore = \frac{S}{A}$$

this returns a value between 0 and 7.5, and the value diverges to 0, the longer the time between add / del, so changes for under 1 hour are weighted stronger.

```
Stored 'TopConflictScore_df' (DataFrame)
Old dataset successfully loaded!
```

BokehJS 0.12.14 successfully loaded.

#	Articlename	Conflict Score
0	Aluminium	0.536824449534087
1	Trigeminal neuralgia	0.3455059860451581
2	Genetic code	0.27731690618353194
3	Zélia Cardoso de Mello	0.2671895899231287
4	Navier–Stokes existence and smoothness	0.2570721829550357
5	Zinc Oxide and You	0.2355882026427944 5
6	Dr. Heinz Doofenshmirtz	0.2309817060407737
7	Waveguide filter	0.2267588096885622
8	Binomial theorem	0.20082561468266652
9	Argon	0.18845347753822345

Select an article and see further information

Toggle Code.

Start a new query! See User Statistics!

```
Aluminium
904
```

Userinformation for the User: ANON and the Article Aluminium

Link to Article: https://en.wikipedia.org/wiki/Aluminium

This table shows all monthly actions the wikipedia user ANON has done in article Aluminium

BokehJS 0.12.14 successfully loaded.

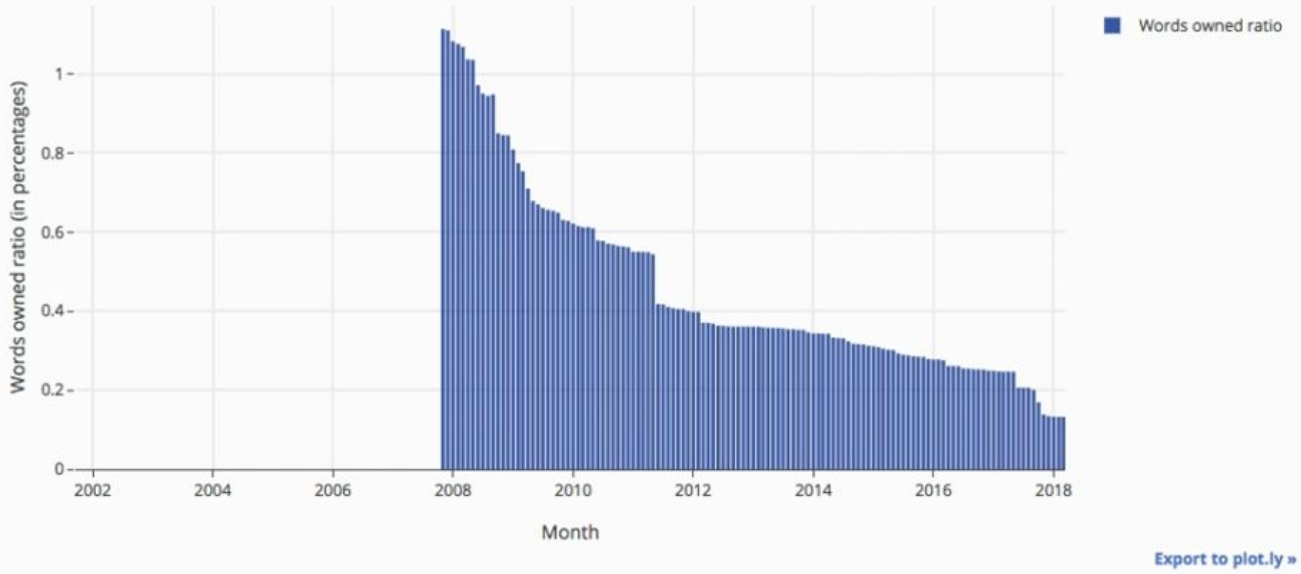
#	Month	Article	total_adds	adds_stopword	adds_surv_48h	adds_survived_	total_dels	dels_stopword_	dels_surv_48h	dels_survived_	total_reins
0	2007-11	Aluminium	40	18	40	1	0	0	0	0	9
1	2007-10	Aluminium	0	0	0	0	0	0	0	0	0
2	2007-09	Aluminium	0	0	0	0	0	0	0	0	9
3	2007-08	Aluminium	0	0	0	0	0	0	0	0	0
4	2007-07	Aluminium	0	0	0	0	0	0	0	0	300
5	2007-06	Aluminium	0	0	0	0	0	0	0	0	0
6	2007-05	Aluminium	0	0	0	0	0	0	0	0	156
7	2007-04	Aluminium	0	0	0	0	0	0	0	0	25

Graphical representation of monthly activity

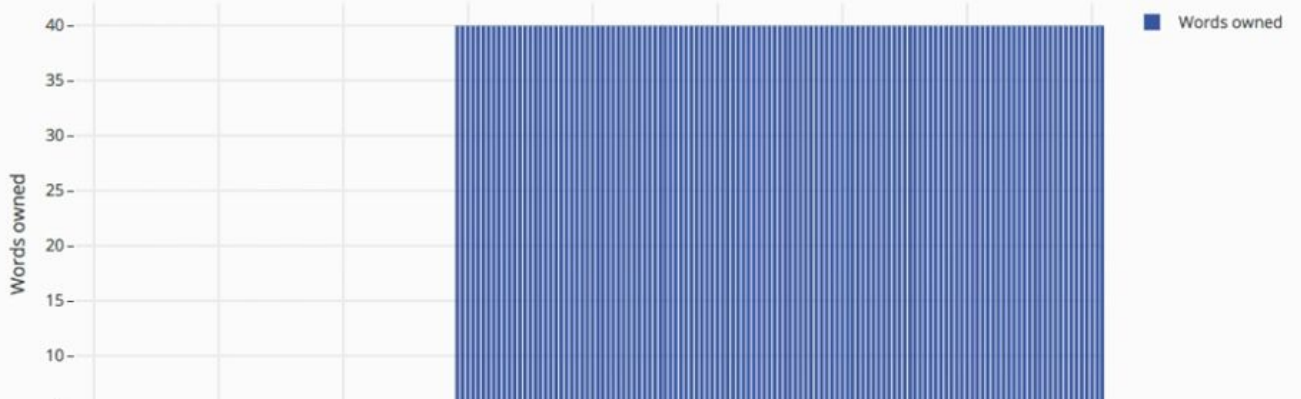
begin 2005-12-01 00:00:00

end 2018-03-01 00:00:00

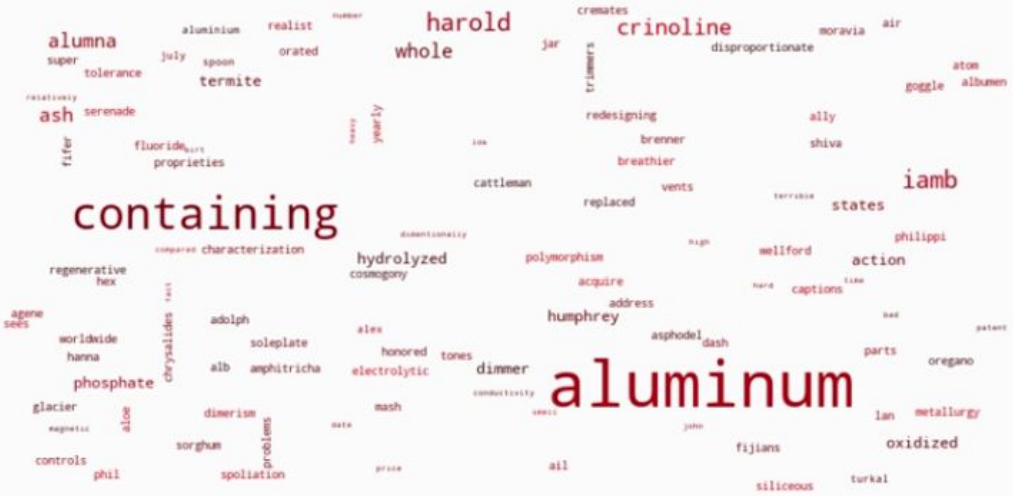
Graphical representation of monthly words owned ratio



Graphical representation of monthly number of owned words



All deleted Tokens for this article



BokehJS 0.12.14 successfully loaded.

#	Deleted Tokens	Quantity
0	aluminum	483
1	containing	192
2	harold	15
3	iamb	15
4	'	15
5	s	12
6	crinoline	12
7	ash	9
8	whole	9
9	alumna	9
10	,	8

Show deleted and added Tokens for a selected period

The table below shows all tokens added by the author. You can use the filter to restrict the tokens.

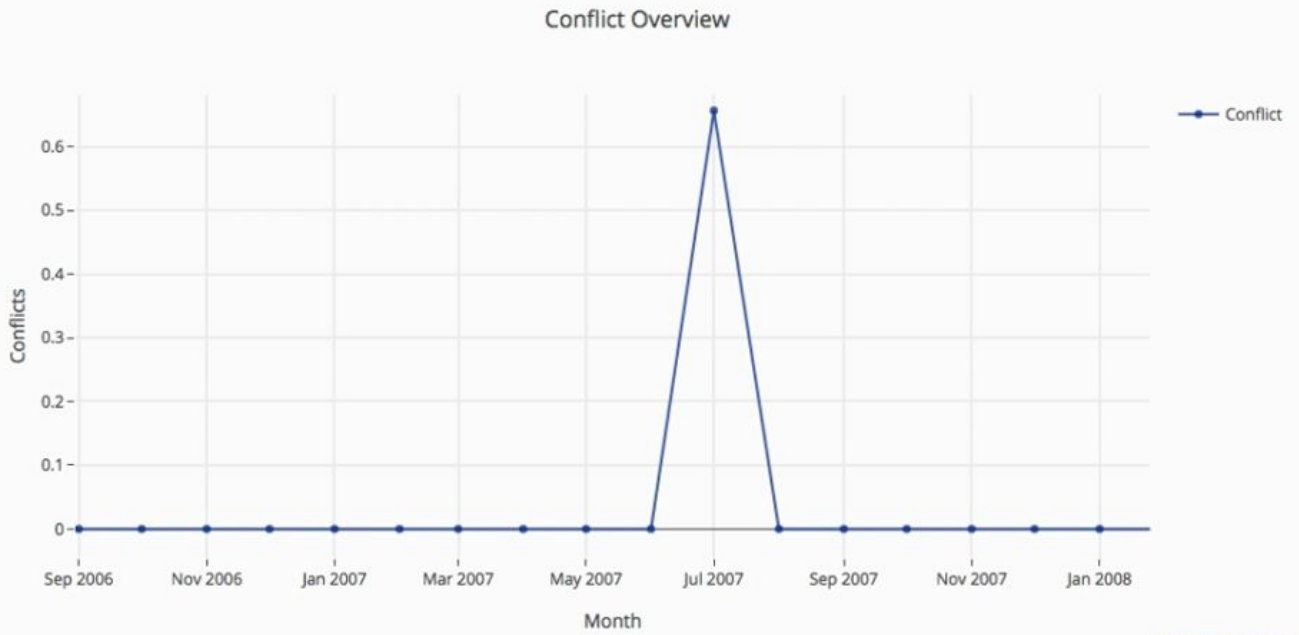
Added Tokens

begin 2007-03-01

end 2007-10-26

9	2005-10-01	0
10	2005-11-01	0

Visualization of Conflict Score by month



Export to plot.ly »

Conflict Score Token List

BokehJS 0.12.14 successfully loaded.

#	Token Id	String	Conflict Score	Actions
0	50	soft	0.8232959872425243	2
1	51	lightweight	0.8232959872425243	2
2	145	aluminium	1.6984734732139977	3
3	158	heroult	1.6984734732139977	3
4	172	aluminium	1.6984734732139977	3
5	189	aluminium	1.6984734732139977	3
6	235	aluminium	1.6984734732139977	3
7	256	aluminium	1.6984734732139977	3
8	267	aluminium	1.6984734732139977	3
9	273	aluminium	1.6984734732139977	3

the end

TokTrack dataset:
zenodo.org/record/345571

ICWSM paper:
https://aaai.org/ocs/index.php/ICWSM/ICWSM17/paper/view/15689

API:
api.wikiwho.net

github.com/wikiwho

Website (with tools):
www.wikiwho.net

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