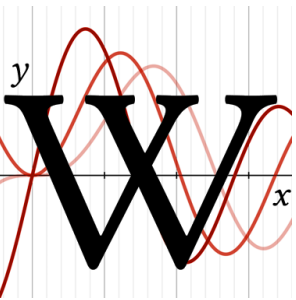
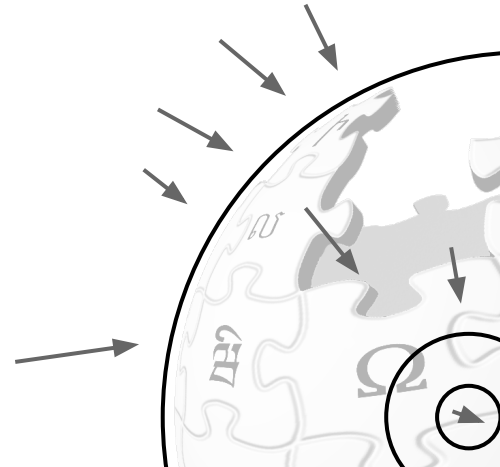


Managing Open Production at Scale

Aaron Halfaker, PhD



Wikimedia
Research



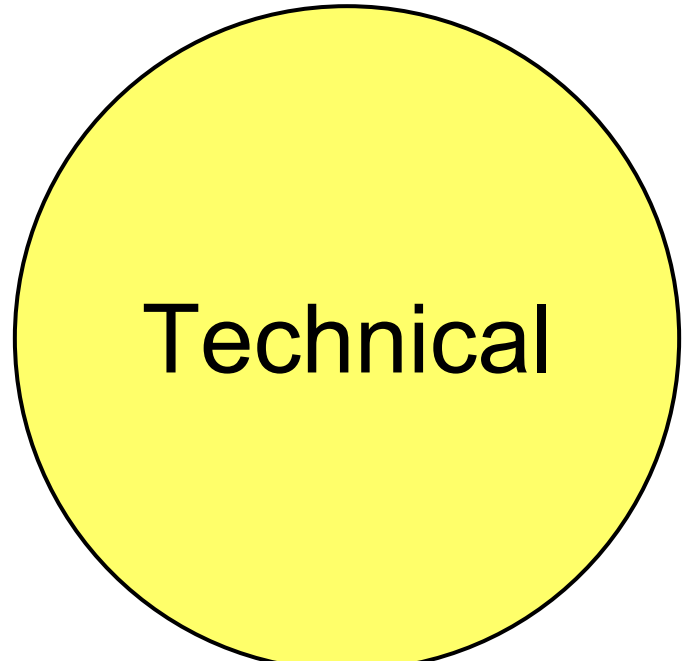
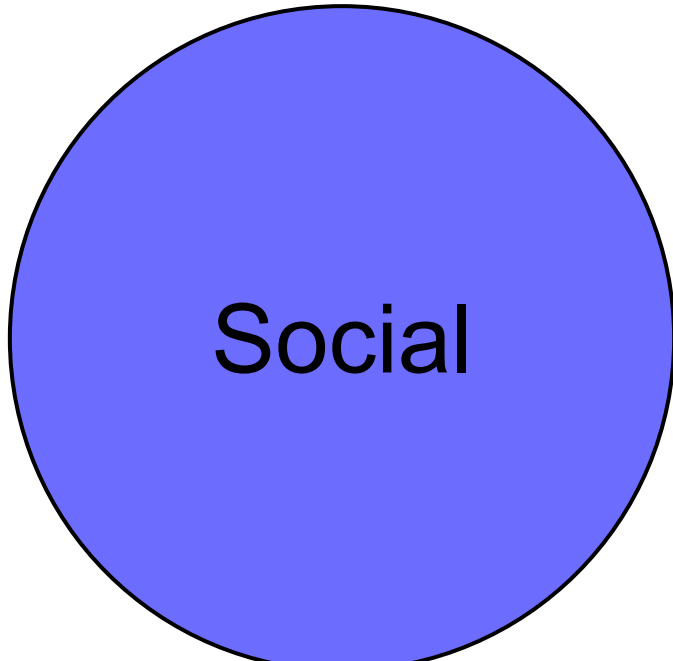
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/who

- Social technologist

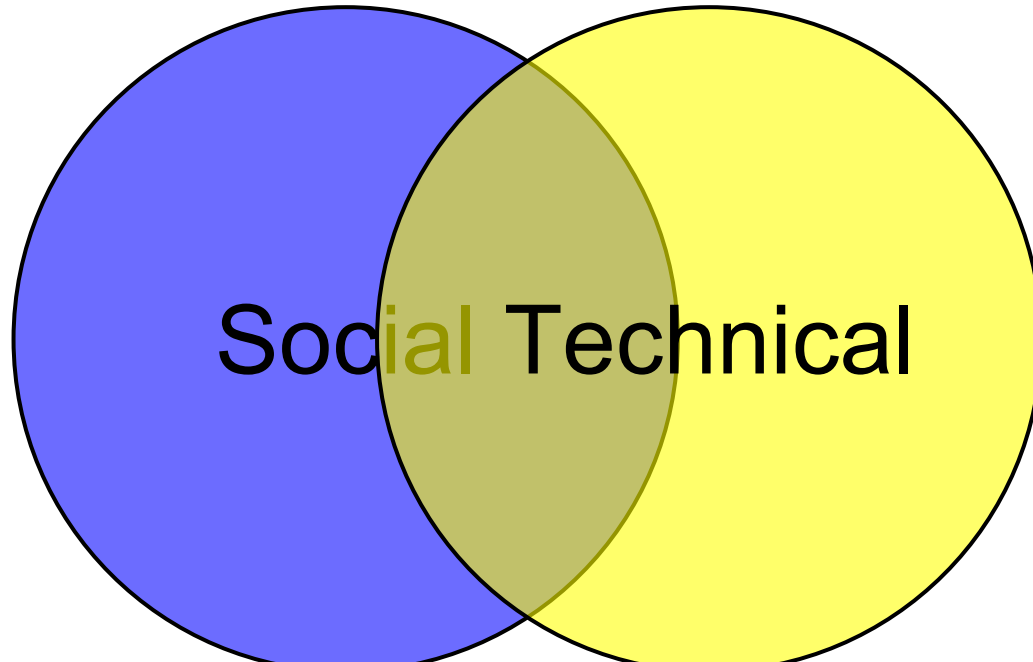
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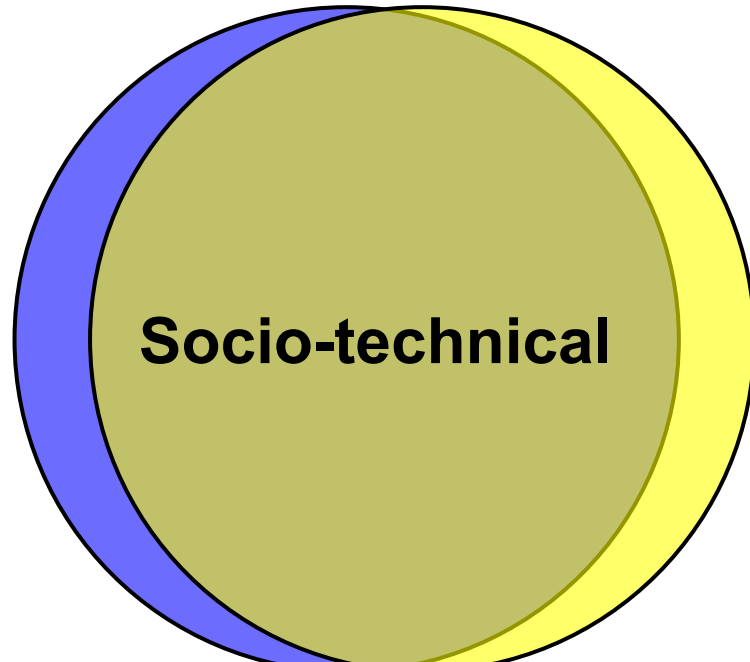
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- Social technologist



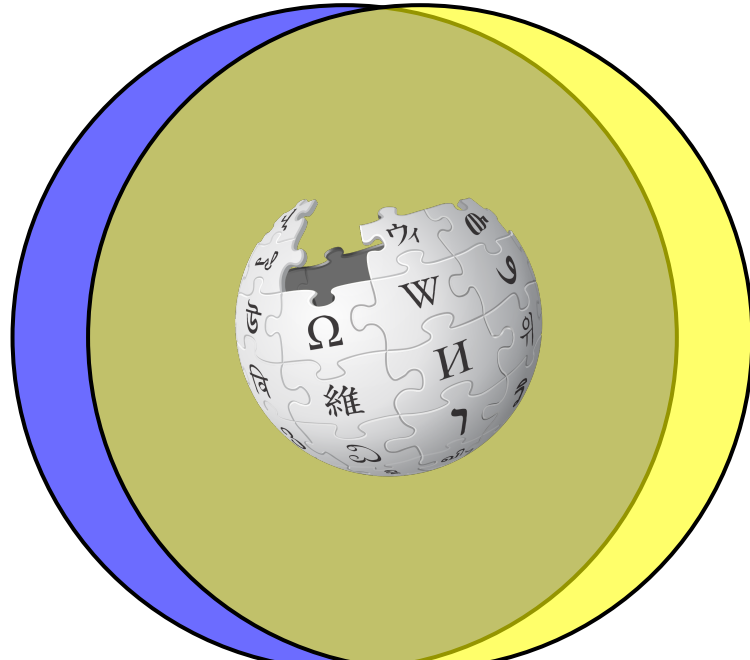
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- Social technologist



/who

- Social technologist

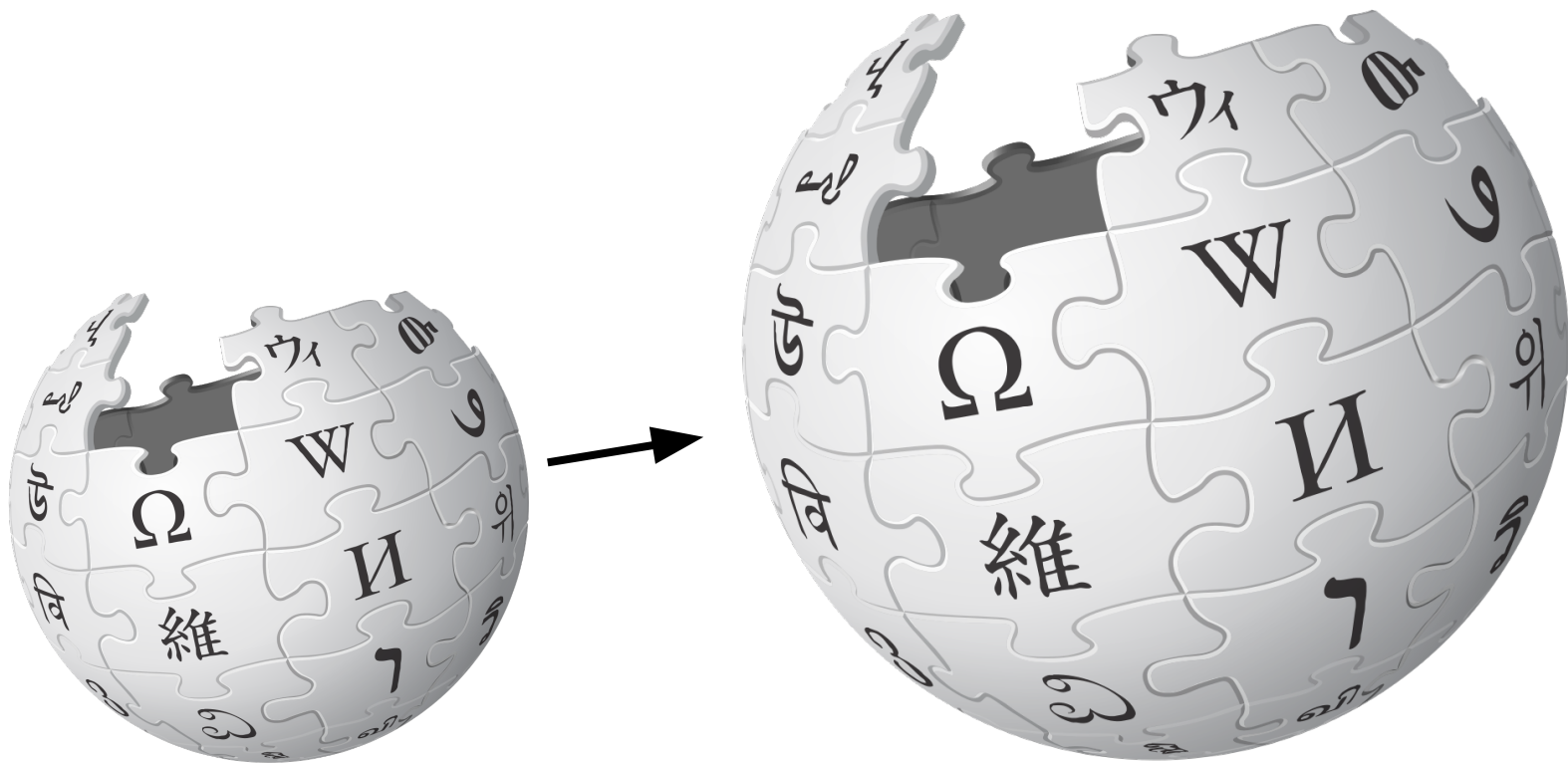


/who

- Social technologist

Science → Theory → New technology

/who



/who

User:Halfak (WMF)

From Wikipedia, the free encyclopedia

Aaron Halfaker

Research Scientist, Wikimedia Foundation

Think big. Measure what you can.




About me

Hi. I'm Aaron Halfaker. I'm a computer scientist. I've been a Wikipedian since 2008. See [my publications](#). In 2011, I started working with the Wikimedia Foundation as a researcher. See my

My work

I use the scientific method to explore the structure and function of Wikipedia. My goal is to identify problems/opportunities and to use this knowledge to improve/extend the software. See [The Rise and Decline](#) for an

Contact me

- E-mail: ahalfaker@wikimedia.org
- Website: <http://halfaker.info> 
- Twitter:

Outline

Outline

1. Wikipedia is *academically interesting*

Outline

1. Wikipedia is *academically interesting*
2. My work studying the *socio-technical*

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1. Wikipedia is *academically interesting*
2. My work studying the *socio-technical*
3. WMF Research *community support*

Part 1.

Wikipedia is academically interesting

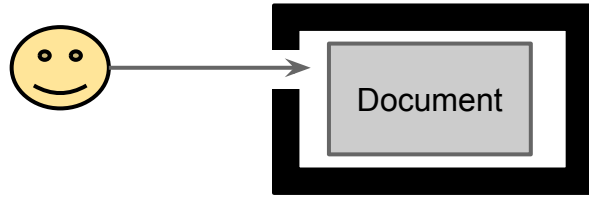
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It's a wiki.

It's a wiki.

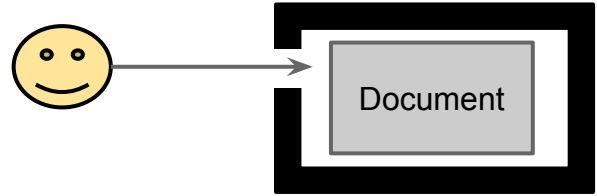
- What's a wiki?

Traditional

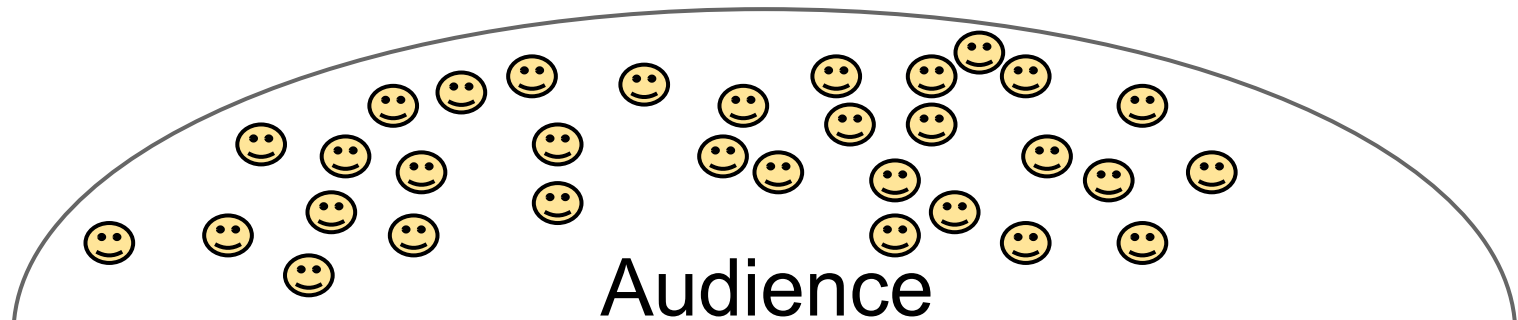


Wiki

Traditional

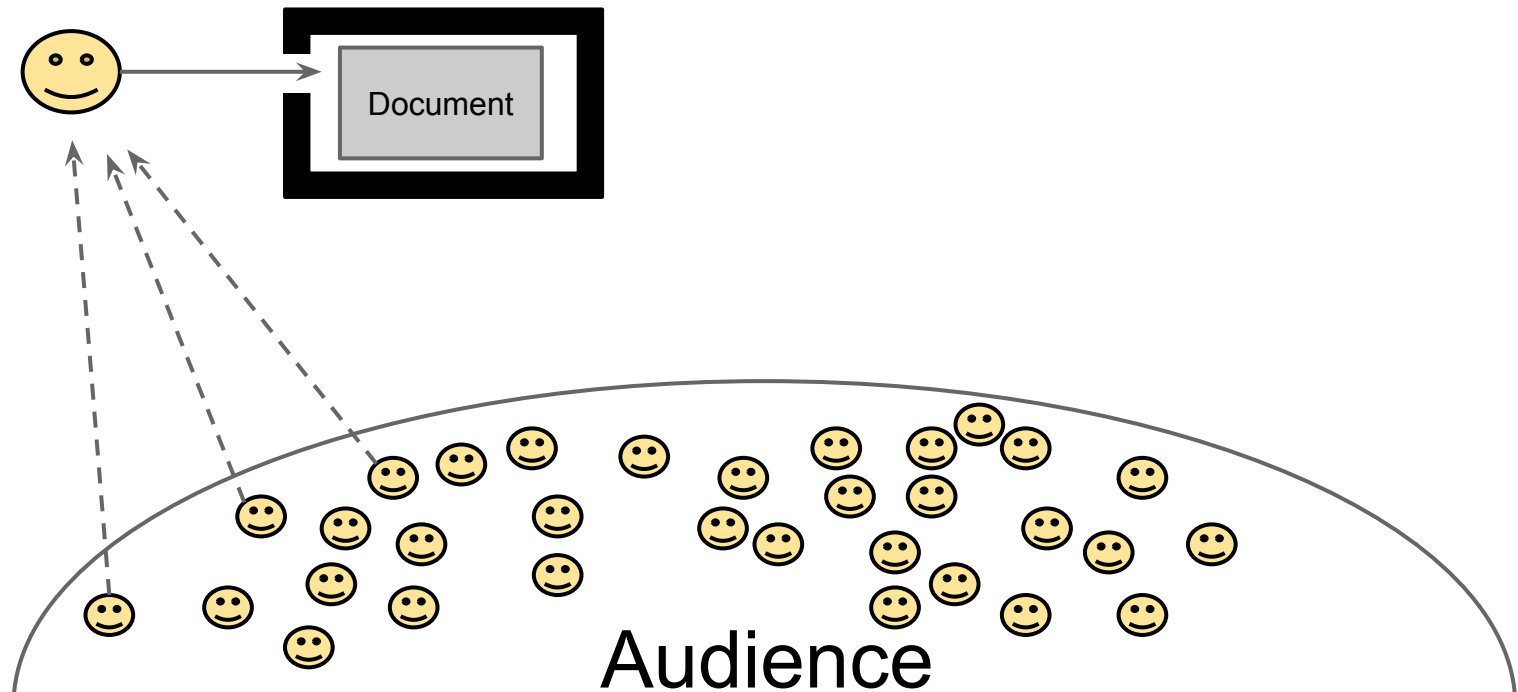


Wiki

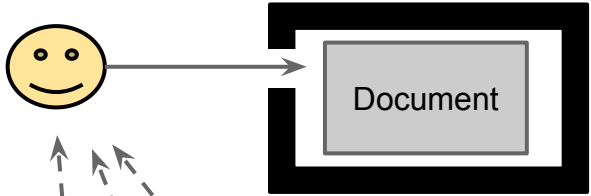


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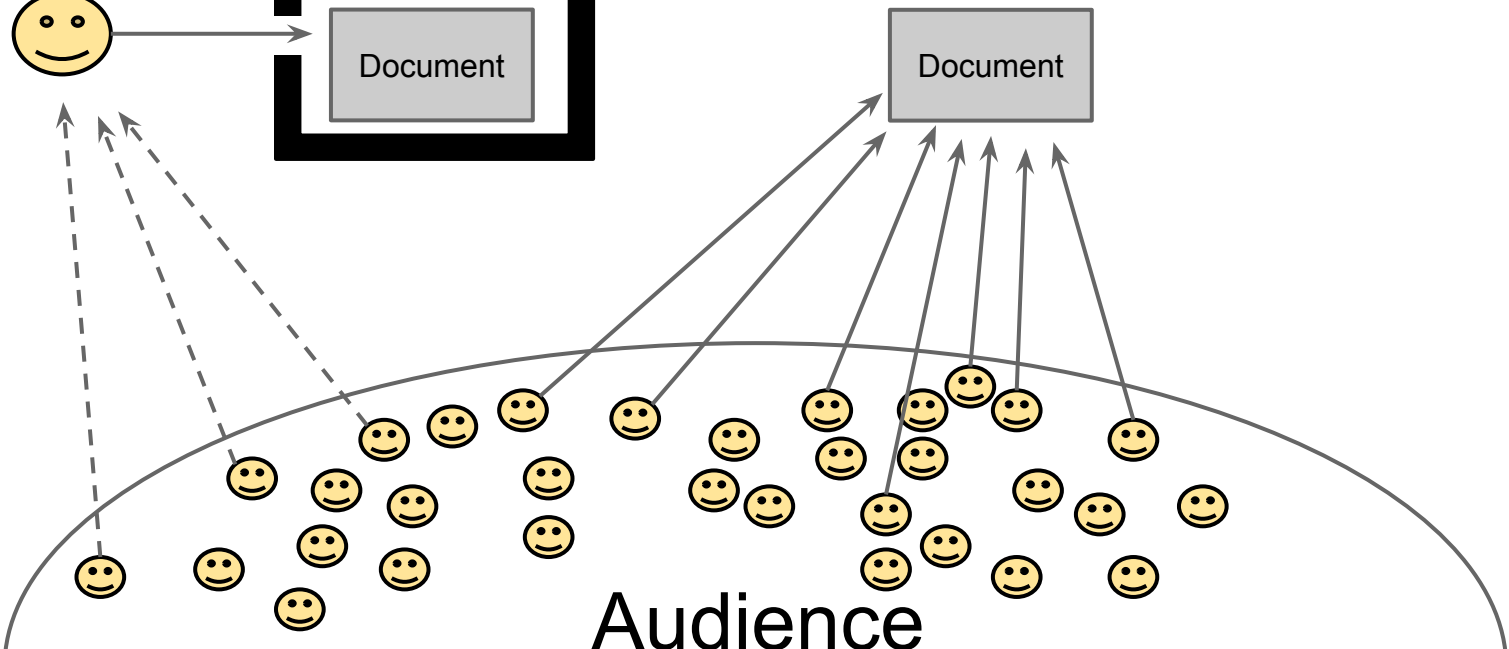
Wiki



Traditional

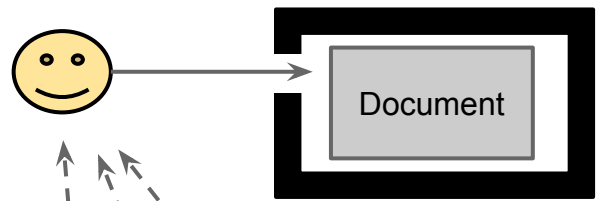


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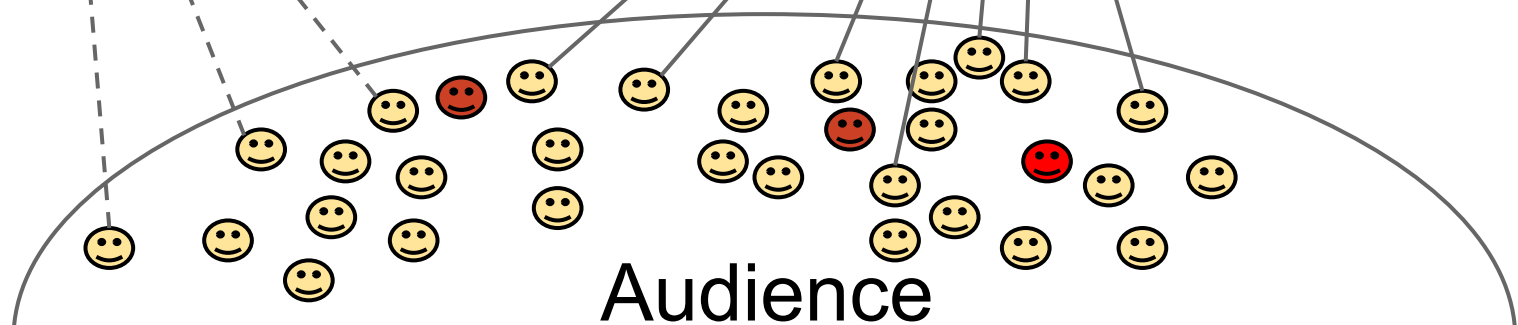
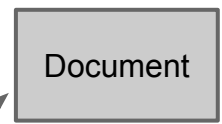


Audience

Traditional

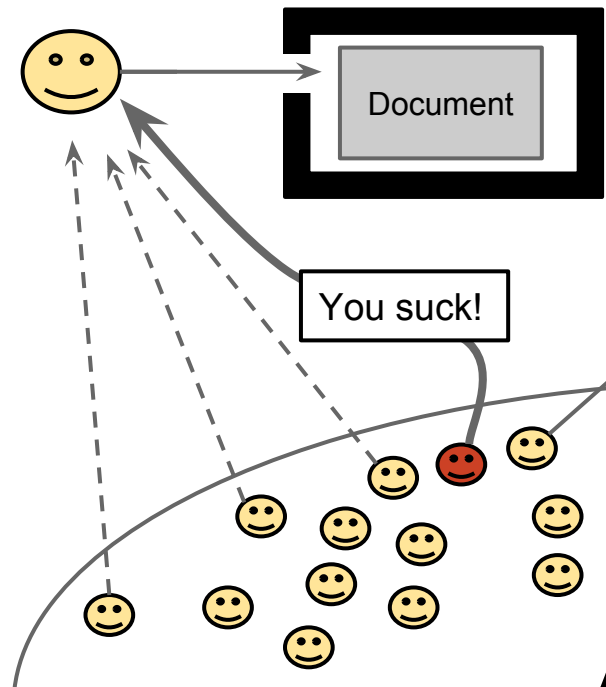


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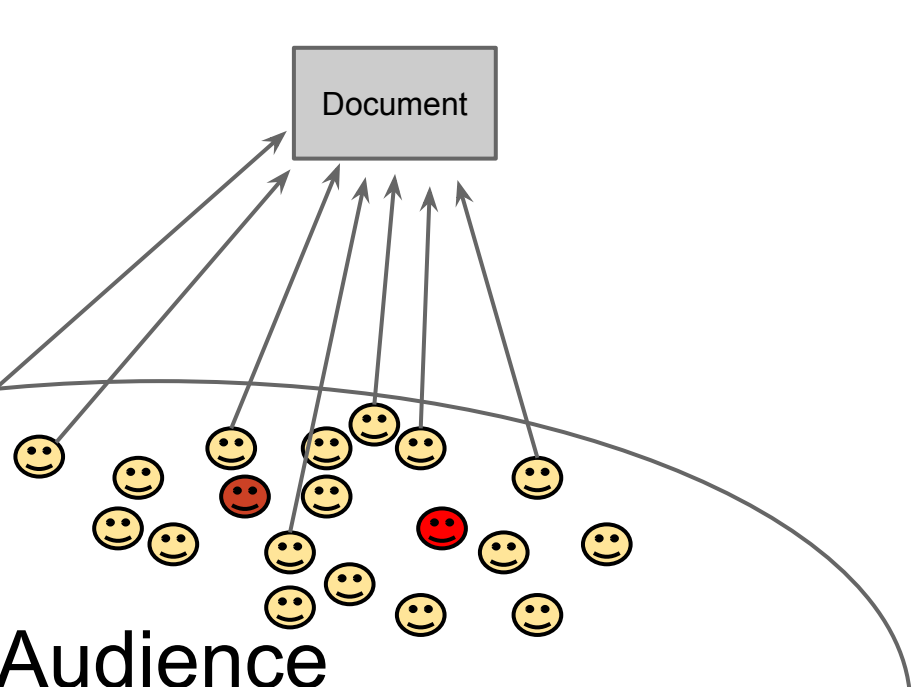


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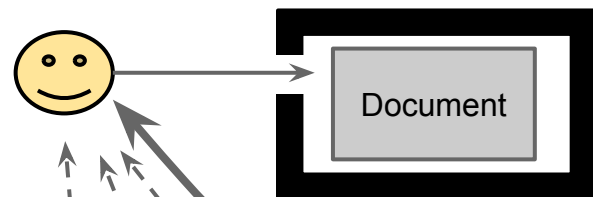
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Wiki



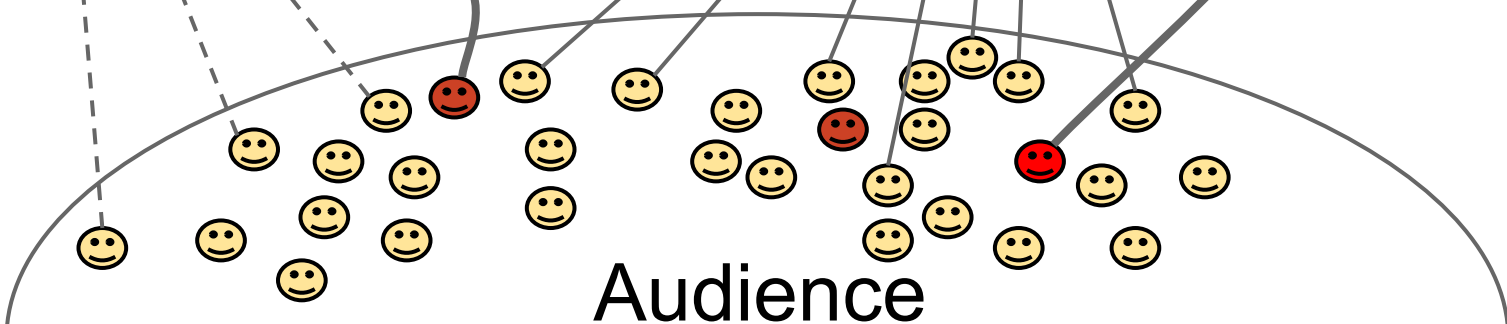
Traditional



Wiki

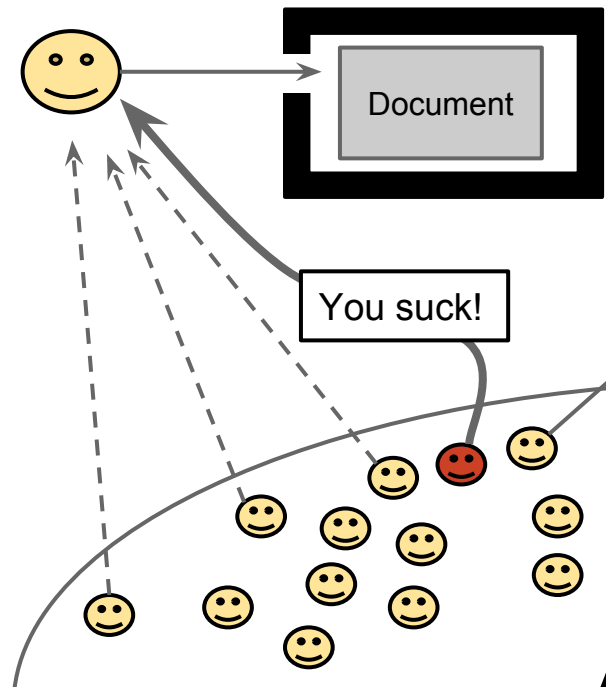


You suck!

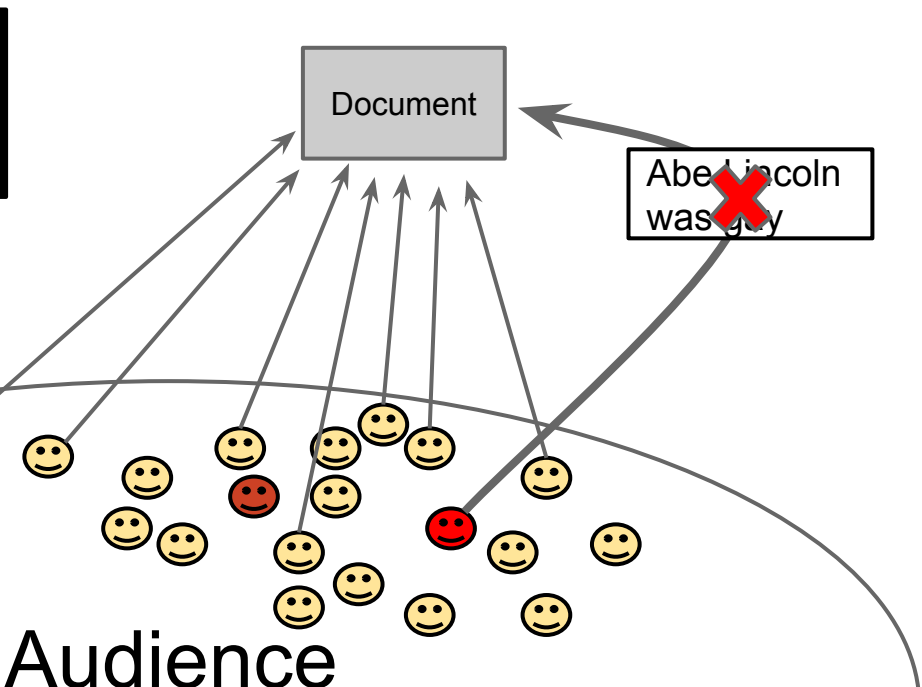


Audience

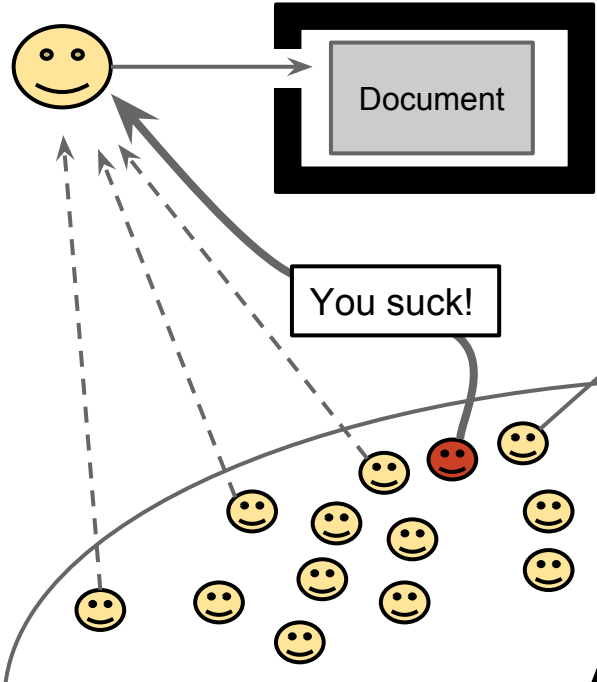
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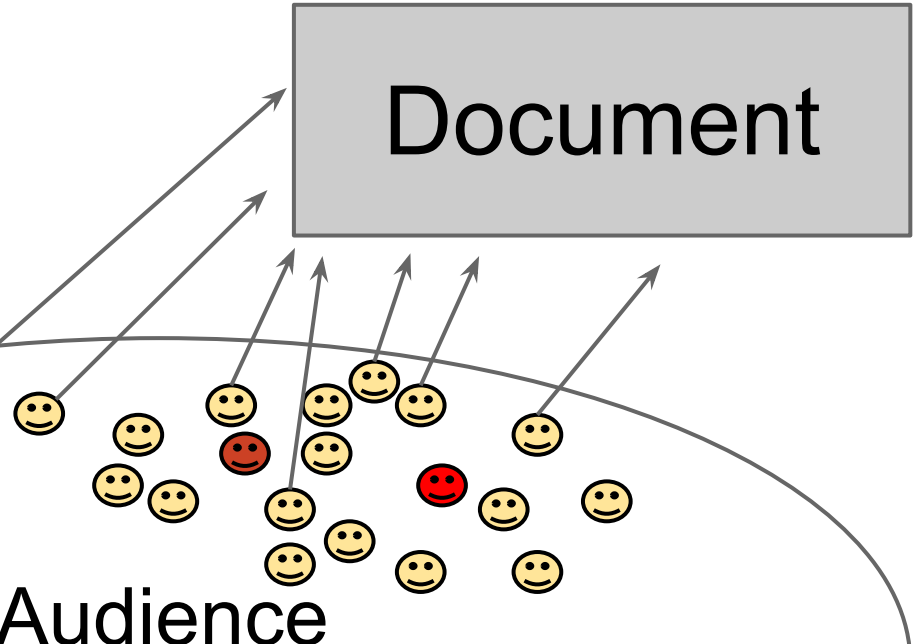
Wiki



Traditional



Wiki



What is Wikipedia?

- Wiki platform

What is Wikipedia?

- Wiki platform
 - Readers → Contributors
 - Openness → more contributions + damage

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- Open governance model

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 - Who owns the content? **Everyone?**
 - Who makes the rules? **...everyone?**

How's that going to work?

wikipedia governance



About 37,400 results (0.07 sec)

[Decentralization in Wikipedia governance](#)

[A Forte](#), [V Larco](#), [A Bruckman](#) - Journal of Management Information ..., 2009 - ME Sharpe

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[Governance, organization, and democracy on the Internet: The iron law and the evolution of Wikipedia](#)

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[A Forte](#), [N Kittur](#), [V Larco](#), [H Zhu](#), [A Bruckman](#)... - Proceedings of the ..., 2012 - dl.acm.org

... In our first round of interviews, we sought to understand **governance** in **Wikipedia** as a site-wide phenomenon. As such, we interviewed eleven individuals who had been involved in the site for many years, in many different capacities ...

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... The development of a service context involves the asking of tough questions to examine the strategic goal and objectives of a service organization in order 9 Adapted from the **Wikipedia** articles on strategy and corporate **governance**. Page 9. ...

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[P Wang](#), [C Domeniconi](#) - Proceedings of the 14th ACM SIGKDD ..., 2008 - dl.acm.org

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Wikipedia is absurd

Wikipedia is absurd

- Anyone can edit. No registration necessary.

Wikipedia is absurd

- Anyone can edit. No registration necessary.
- No reward system. If anything, negative attention.

Wikipedia is absurd

- Anyone can edit. No registration necessary.
- No reward system. If anything, negative attention.
- Actually a **wild success!**



data from March 2012

1:10



data from March 2012



Planet

Earth

(6.97 billion)

1:10



Monthly
Wikipedia
Readers
(500 million)

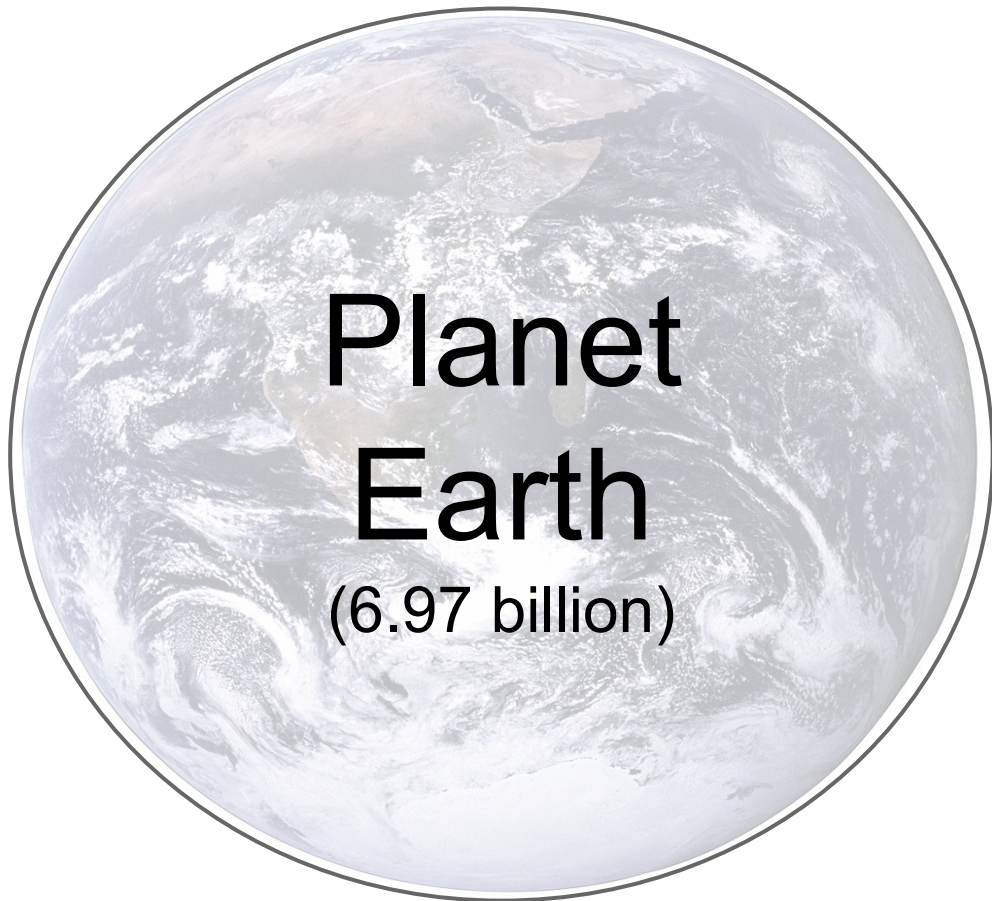
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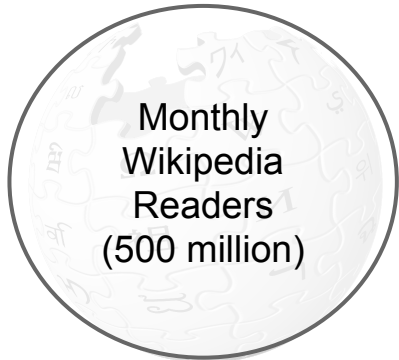
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(113,304)

data from March 2012

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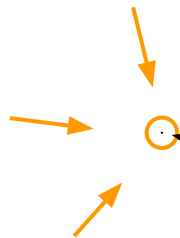


Planet
Earth
(6.97 billion)



Monthly
Wikipedia
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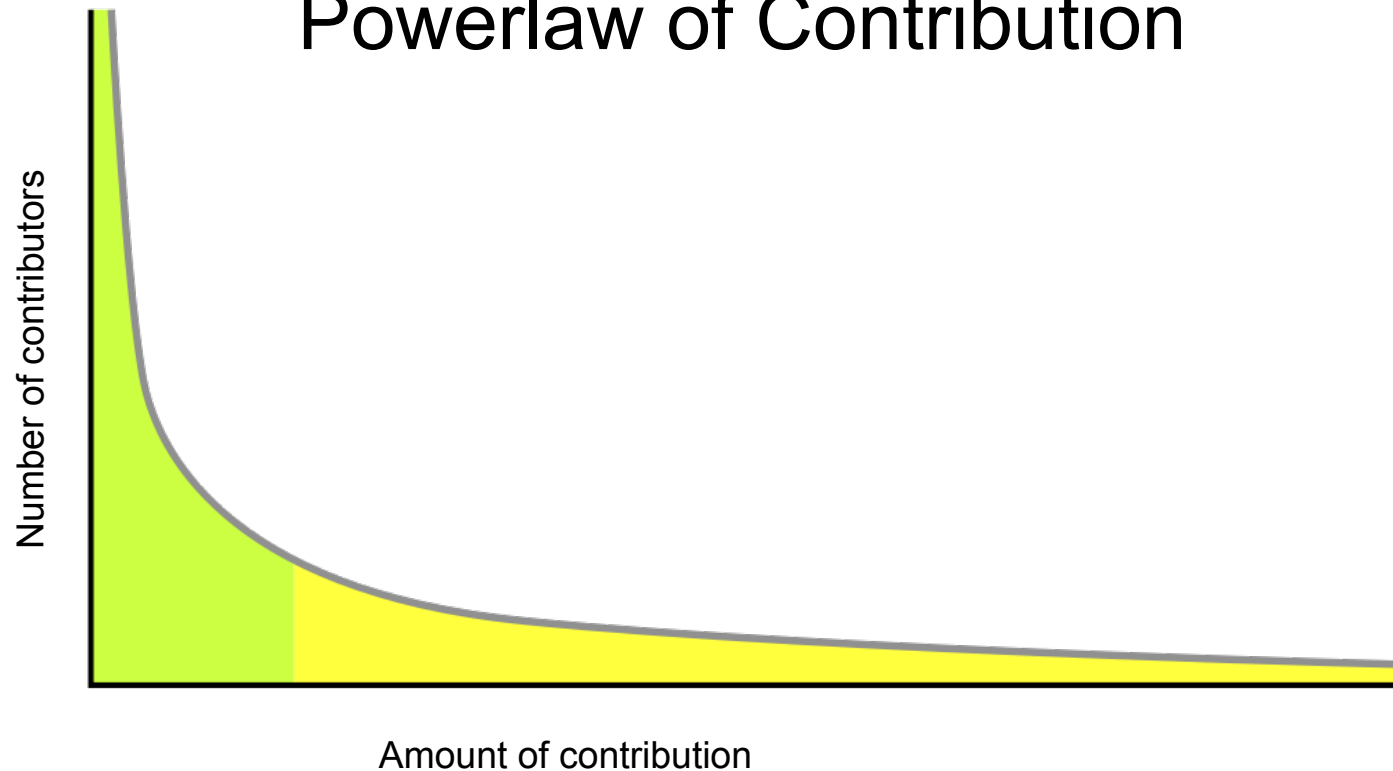
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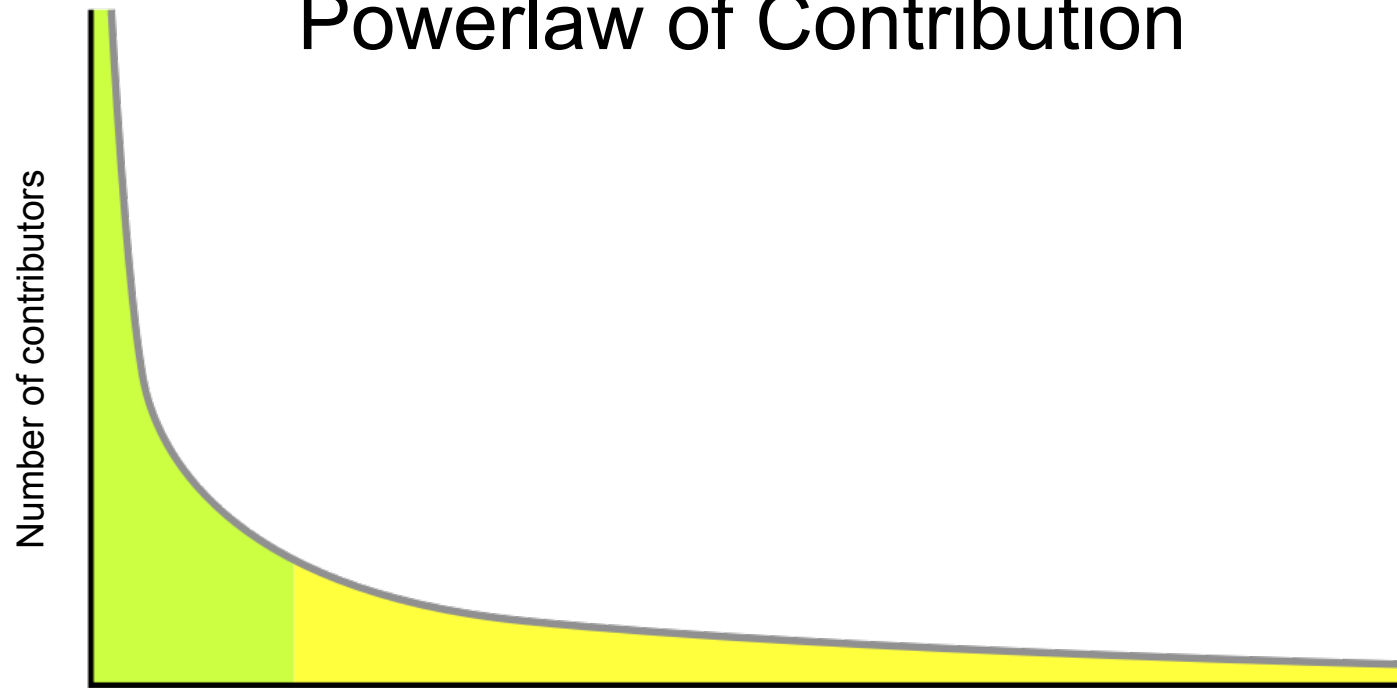
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data from March 2012

Powerlaw of Contribution

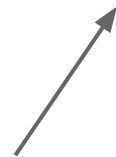


Powerlaw of Contribution

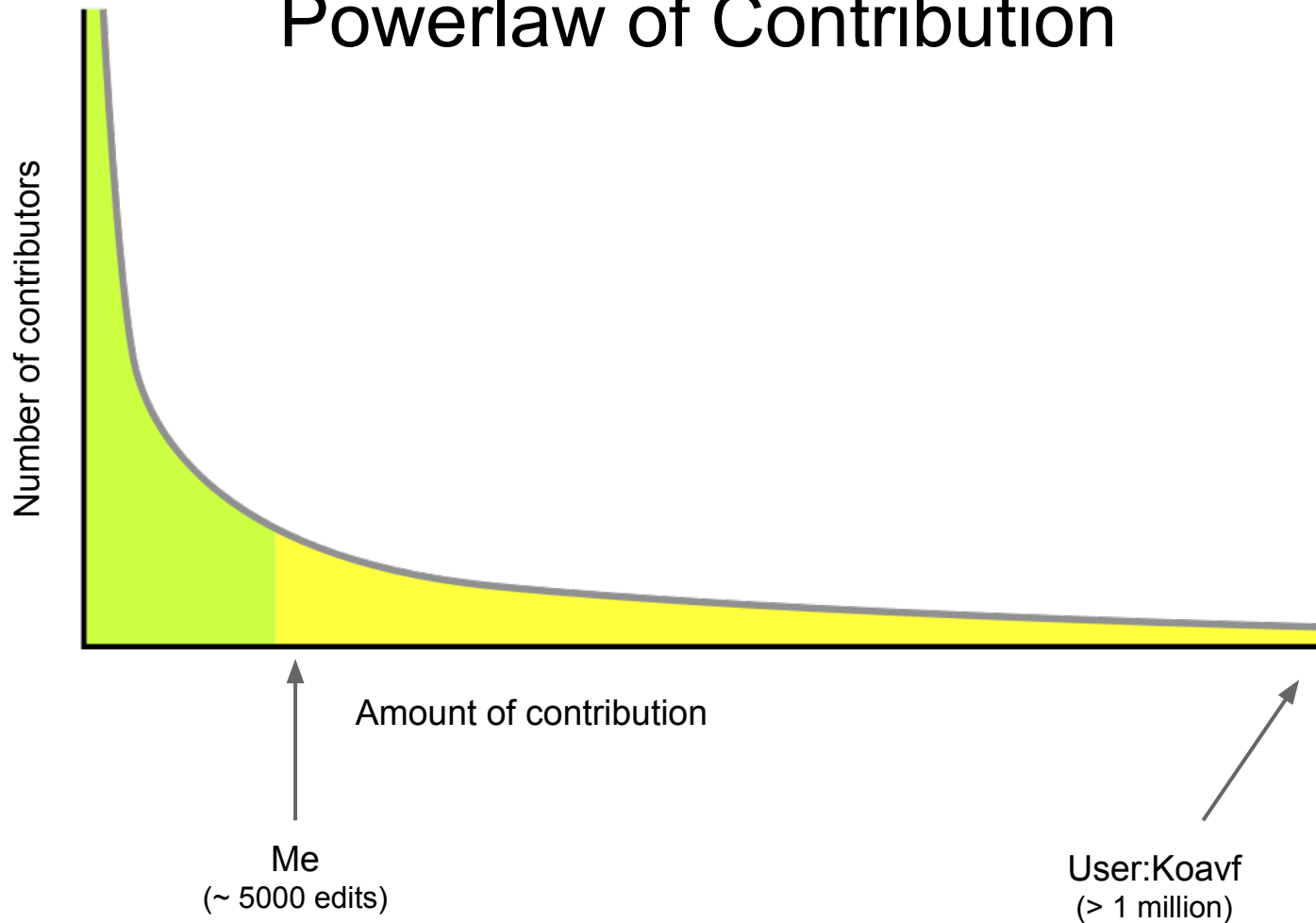


Amount of contribution

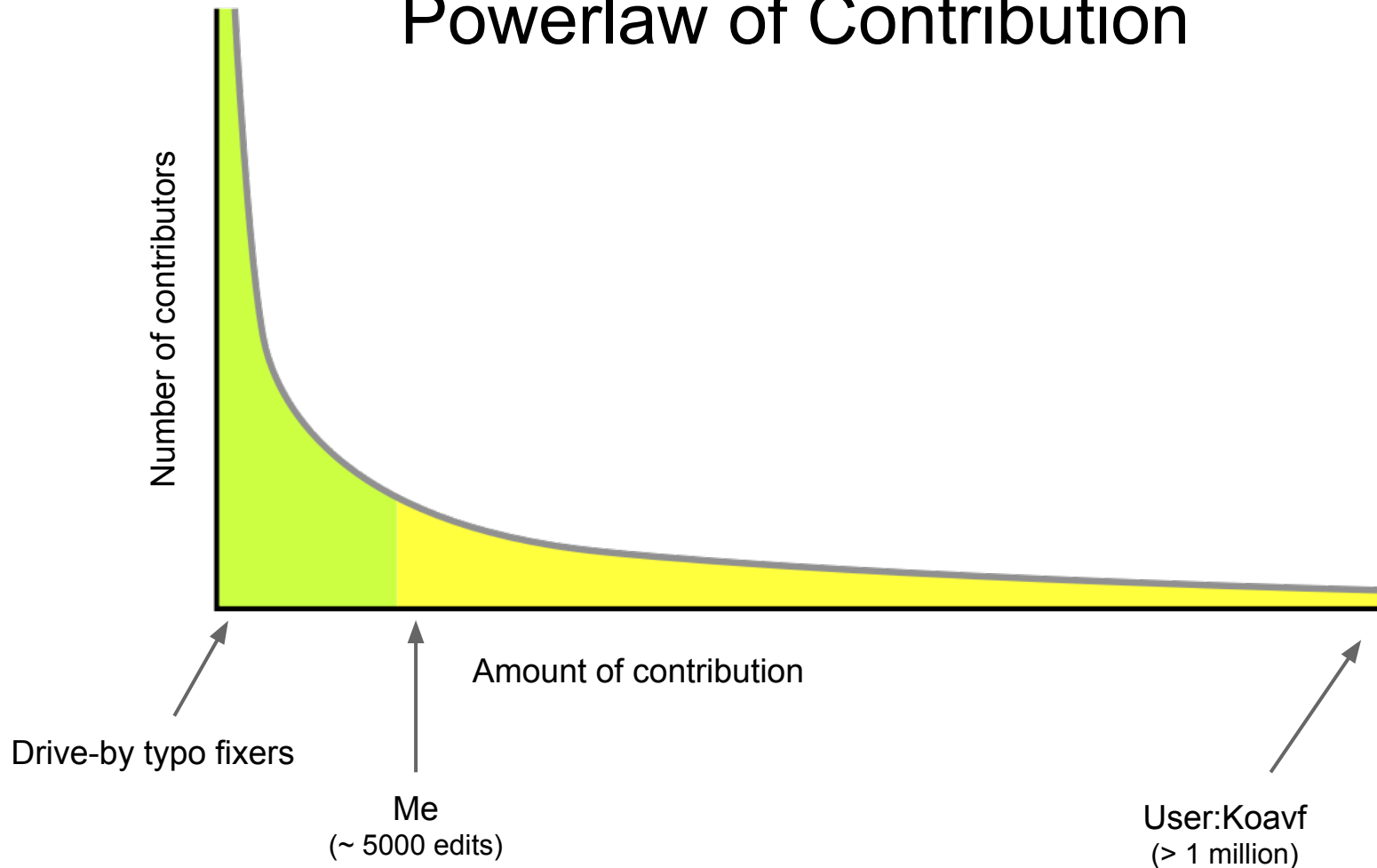
User:Koavf
(> 1 million)



Powerlaw of Contribution



Powerlaw of Contribution



Powerlaws everywhere

- Wikipedia
- Bugzilla
- Digg
- Essembly

Powerlaws everywhere

- Wikipedia
- Bugzilla
- Digg
- Essembly (???)



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The Free Encyclopedia

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Search



Essembly

From Wikipedia, the free encyclopedia

Essembly is a non-partisan political [social networking website](#) that allows its users to connect with one another based on political opinions, participate in unmoderated discussion, and organize for political action. It was founded in 2005 by Joe Green, a [Harvard](#) graduate and college roommate of [Mark Zuckerberg](#), the founder of the collegiate social-networking site [Facebook](#). Essembly differentiates itself from other social-networking sites by actively promoting intelligent discussion and debate while remaining (as the site's "About Us" page claims) "fiercely non-partisan." A July 2006 [Newsweek](#) article put the number of registered users at over 17,000^[1]

After its launch in 2005, Essembly membership was offered by invitation only, as the website was still in closed beta. In May 2006, Essembly opened membership to the public (to anyone with a valid email address), and began to run advertisements on [Facebook](#). As of September 2006, Essembly remains in public beta, the staff of Essembly has, on the whole, moved on to a new venture called Project Agape. This has resulted in intermittent user support and server crashes, as well as some bitterness by many of the long-time users.^[*who?*]

On January 30, 2010 Essembly stopped working. After being alerted to the problem by a long-time Essembly user, Joe Green restored the site by Valentine's Day. However, since May, 2010 the site has been down.

Essembly.com



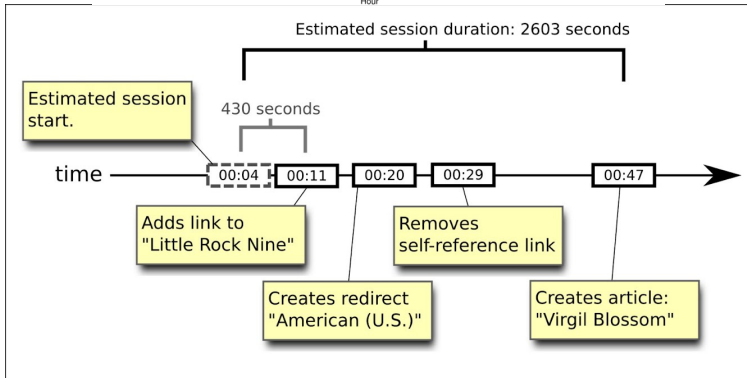
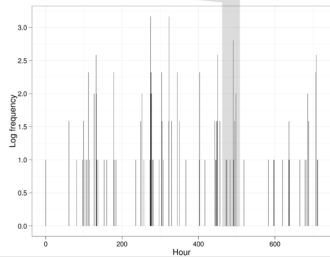
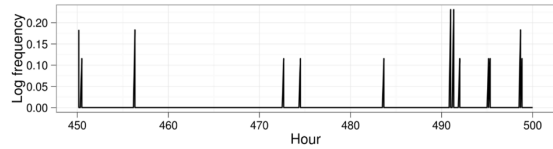
Screenshot of the "Show Resolves" page on Essembly (User information concealed)

Web address	http://www.essembly.com
Commercial?	Yes
Type of site	Social network service
Registration	Required
Owner	Essembly, LLC
Created by	Joe Green

**How much time goes into
Wikipedia?**

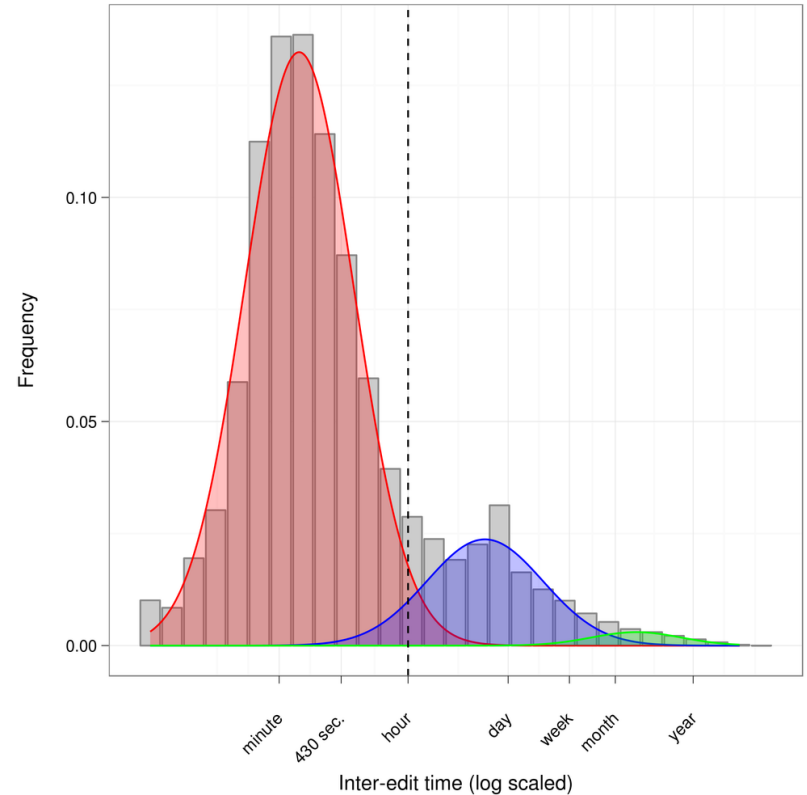
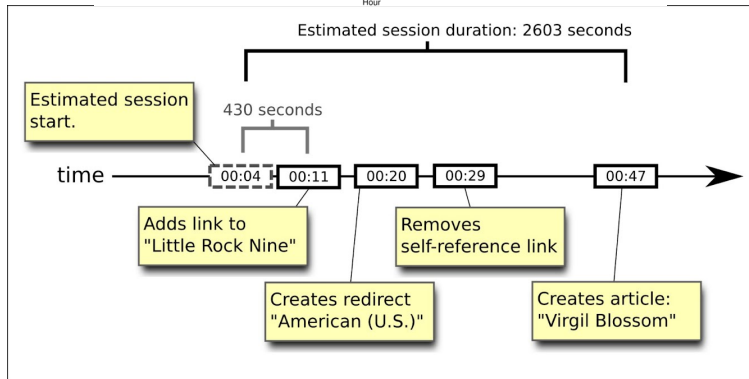
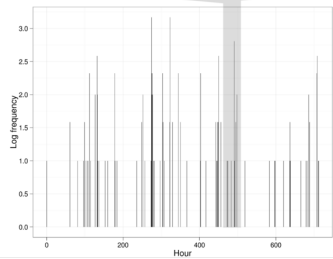
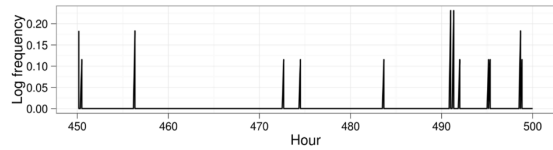
How much time goes into Wikipedia?

Jimmy Wales



How much time goes into Wikipedia?

Jimmy Wales

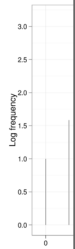
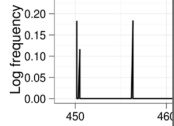


How much time goes into Wikipedia?

Jimmy Wales

- **English Wikipedia: 41,018,804 hours**

March, 2012



Estimated session start.

430 s

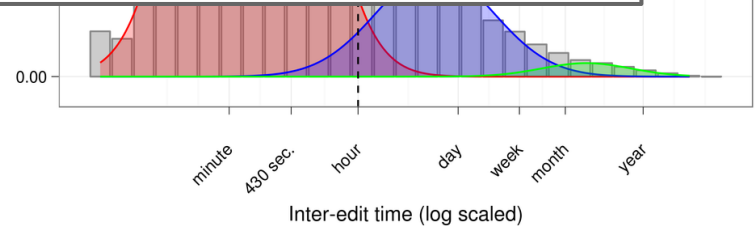
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Adds link to "Little Rock Nine"

Removes self-reference link

Creates redirect "American (U.S.)"

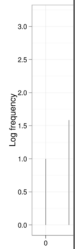
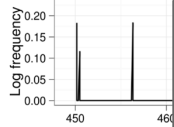
Creates article: "Virgil Blossom"



How much time goes into Wikipedia?

Jimmy Wales

- **English Wikipedia: 41,018,804 hours**
- **Empire State Building: ~7,000,000**



Estimated session start.

430 s

time →

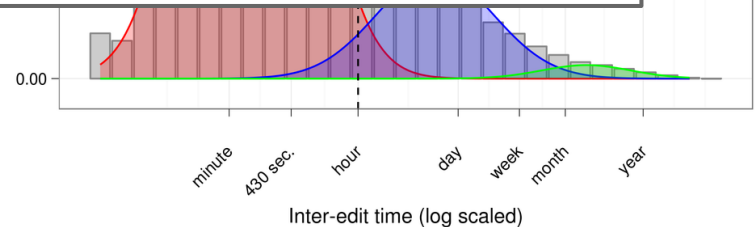
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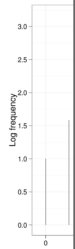
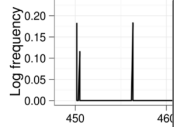
Creates article: "Virgil Blossom"



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Jimmy Wales

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- **Empire State Building: ~7,000,000**
- **Channel tunnel: ~170,000,000**



Estimated session start.

430 s

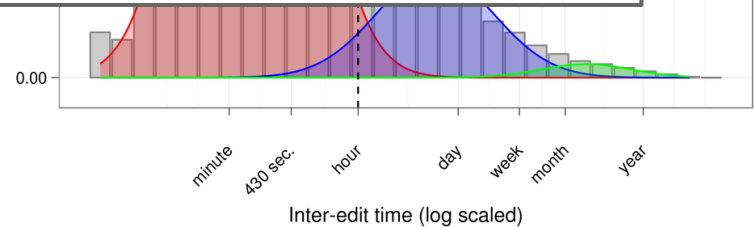
time → 00:04 | 00:11 | 00:20 | 00:29 | 00:47 →

Adds link to "Little Rock Nine"

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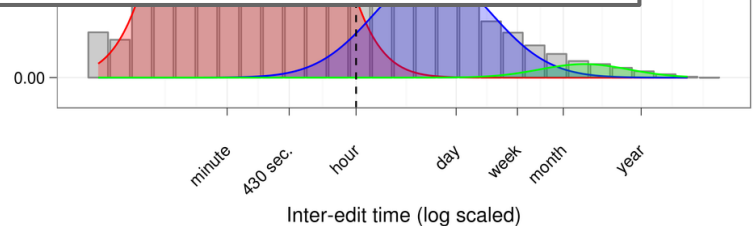
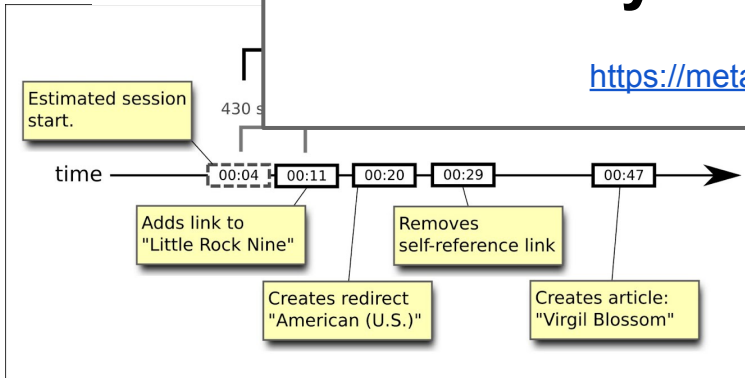


How much time goes into Wikipedia?

Jimmy Wales

- **English Wikipedia: 41,018,804 hours**
- **Empire State Building: ~7,000,000**
- **Channel tunnel: ~170,000,000**
- **1st Encyclopedia Britannica: ~12,000**

https://meta.wikimedia.org/wiki/Research:Edit_session



How did Wikipedia succeed?

How did Wikipedia succeed?

- It's so easy to vandalize!

Elephant

From Wikipedia, the free encyclopedia 4 reader comments

This article is about the living species. For extinct relatives also known as elephants, see [Elephantidae](#). For other uses, see [Elephant \(disambiguation\)](#).

Elephants are large mammals of the family [Elephantidae](#) and the order [Proboscidea](#). Traditionally, two species are recognised, the [African elephant](#) (*Loxodonta africana*) and the [Asian elephant](#) (*Elephas maximus*), although some evidence suggests that [African bush elephants](#) and [African forest elephants](#) are separate species (*L. africana* and *L. cyclotis* respectively). Elephants are scattered throughout [sub-Saharan Africa](#), [South Asia](#), and [Southeast Asia](#). [Elephantidae](#) are the only surviving family of the order proboscidea; other, now extinct, families of the order include [mammoths](#) and [mastodons](#). The largest living [terrestrial animals](#), male African elephants can reach a height of 4 m (13 ft) and weigh 7,000 kg (15,000 lb). All elephants have several distinctive features the most notable of which is a long [proboscis](#) or trunk used for many purposes, particularly for grasping objects. In addition to their trunks, their [incisors](#) grow into tusks, which serve as tools for moving objects and digging and as weapons for fighting. The elephant's large ear flaps help to control the temperature of its body. African elephants have larger ears and concave backs while Asian elephants have smaller ears and convex or level backs.

Elephants are herbivorous and can be found in different habitats including [savannahs](#), forests, deserts and [marshes](#). They prefer to stay near water. They are considered to be [keystone species](#) due to their impact on their environments. Other animals tend to keep their distance, and predators such as lions, tigers, [hyenas](#) and wild [dogs](#) usually target only the young elephants (or "calves"). Females ("cows") tend to live in family groups, which can consist of one female with her calves or several related females with offspring. The groups are led by an individual known as the [matriarch](#), often the oldest cow. Elephants have a [fission-fusion society](#) in which multiple family groups come together to socialise. Males ("bulls") leave their family groups when they reach puberty, and may live alone or with other males. Adult bulls mostly interact with family groups when looking for a mate and enter a state of increased [testosterone](#) and aggression known as [musth](#), which helps them gain [dominance](#) and

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 - [বাংলা](#)
 - [Bahasa Banjar](#)

Elephants

Temporal range: Pliocene–Recent

PreЄ	Є	O	S	D	C	P	T	J	K	Pg	N
------	---	---	---	---	---	---	---	---	---	----	---



African elephant in [Mikumi National Park](#), Tanzania



```
| familia = [[Elephantidae]]
| familia_authority = [[John Edward Gray|Gray]], 1821
| subdivision_ranks = Genera
| subdivision ={{plainlist|
* ''[[African elephant|Loxodonta]]''
* ''[[Elephas]]''}}
}}
```

'''Elephants''' are **STUPID** mammals of the family [[Elephantidae]] and the order [[Proboscidea]]. Traditionally, two species are recognised, the [[African elephant]] (''*Loxodonta africana*''') and the [[Asian elephant]] (''*Elephas maximus*'''), although some evidence suggests that [[African bush elephant]]s and [[African forest elephant]]s are separate species (''*L. africana*'' and '*L. cyclotis*'' respectively). Elephants are scattered throughout [[sub-Saharan Africa]], [[South Asia]], and [[Southeast Asia]]. [[Elephantidae]] are the only surviving family of the order proboscidea; other, now extinct, families of the order include [[mammoth]]s and [[mastodon]]s. The largest living [[terrestrial animal]]s, male African elephants can reach a height of {{convert|4|m|ft|0|abbr=on}} and weigh {{convert|7000|kg|lb|-3|abbr=on}}. All elephants have several distinctive features the most notable of which is a long [[proboscis]] or trunk used for many purposes, particularly for grasping objects. In addition to their trunks, their [[incisor]]s grow into tusks, which serve as tools for moving objects and digging and as weapons for fighting. The elephant's large ear flaps help to control the temperature of its body. African elephants have larger ears and concave backs while Asian elephants have smaller ears and convex or level backs.

[Edit summary](#) (Briefly describe the changes you have made)

This is a [minor edit](#) Watch this page

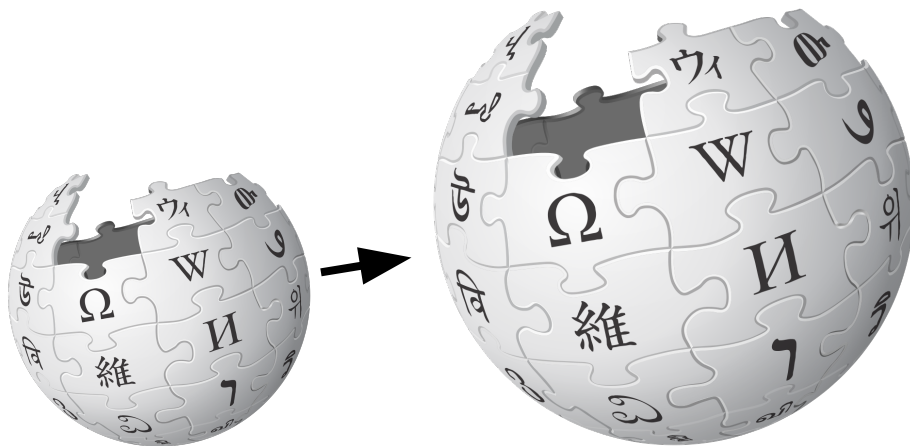
Wikipedia works in **practice**.

Wikipedia works in **practice**.

But it doesn't work in **Theory**.

Wikipedia works in **practice**.

But it doesn't work in **Theory**.



Part 2.

Towards a theory of wikis

How to get some Theory

How to get some Theory

1. Observe unexplained phenomena

How to get some Theory

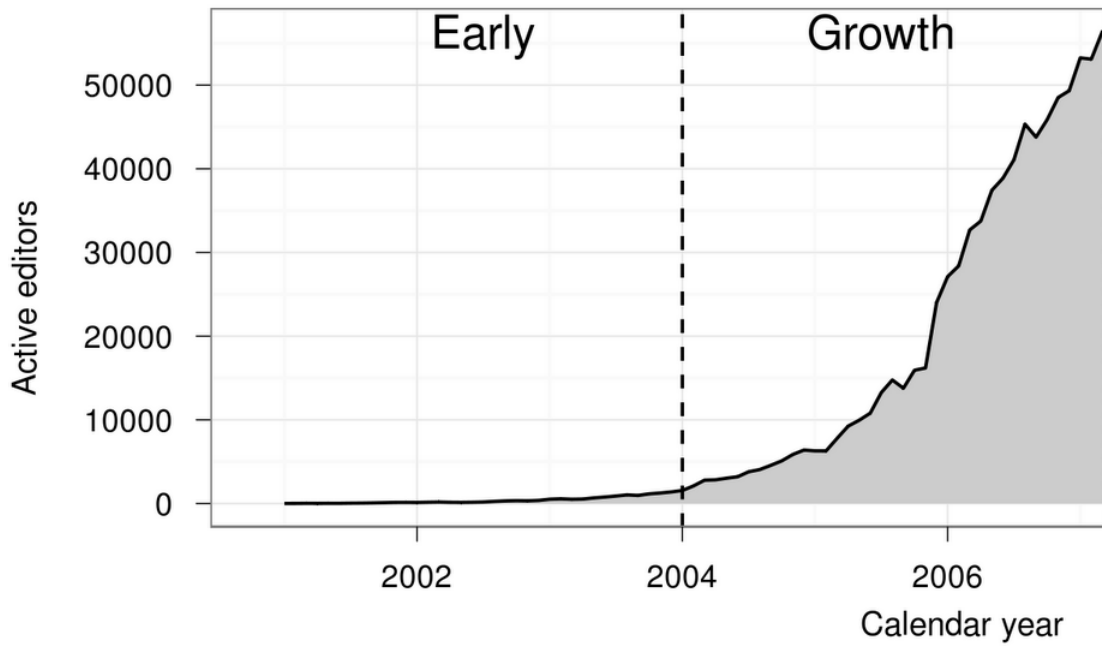
1. Observe unexplained phenomena
2. Hypothesize explanations

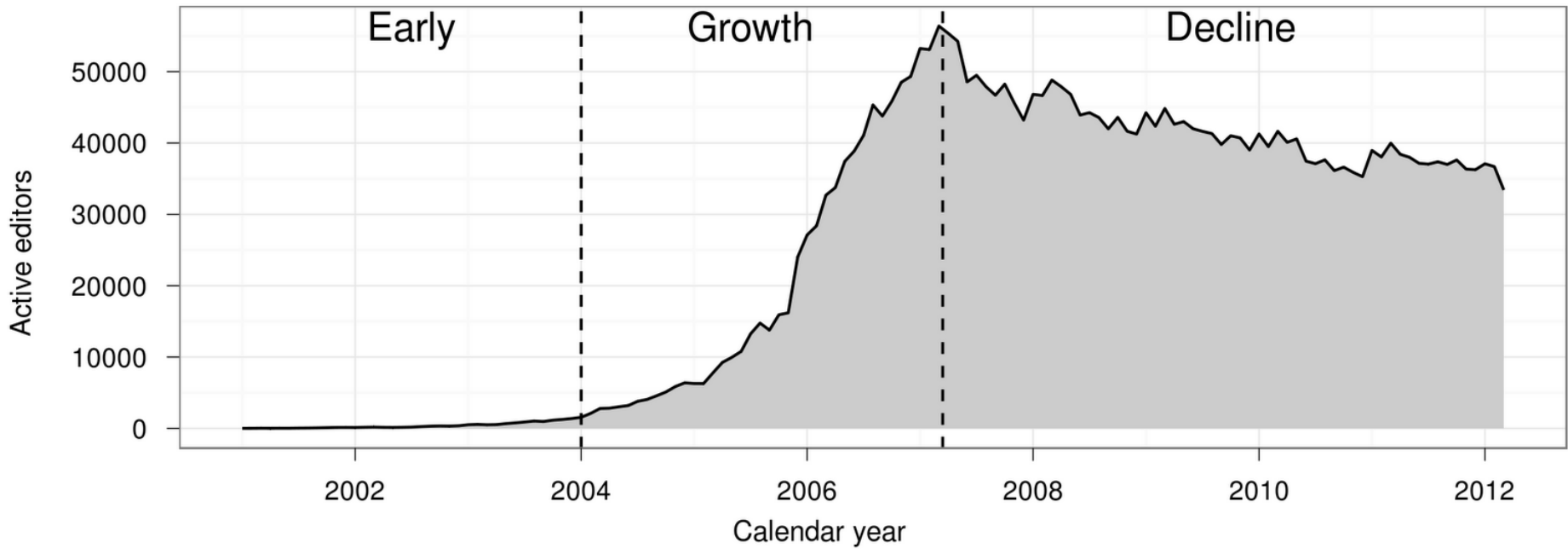
How to get some Theory

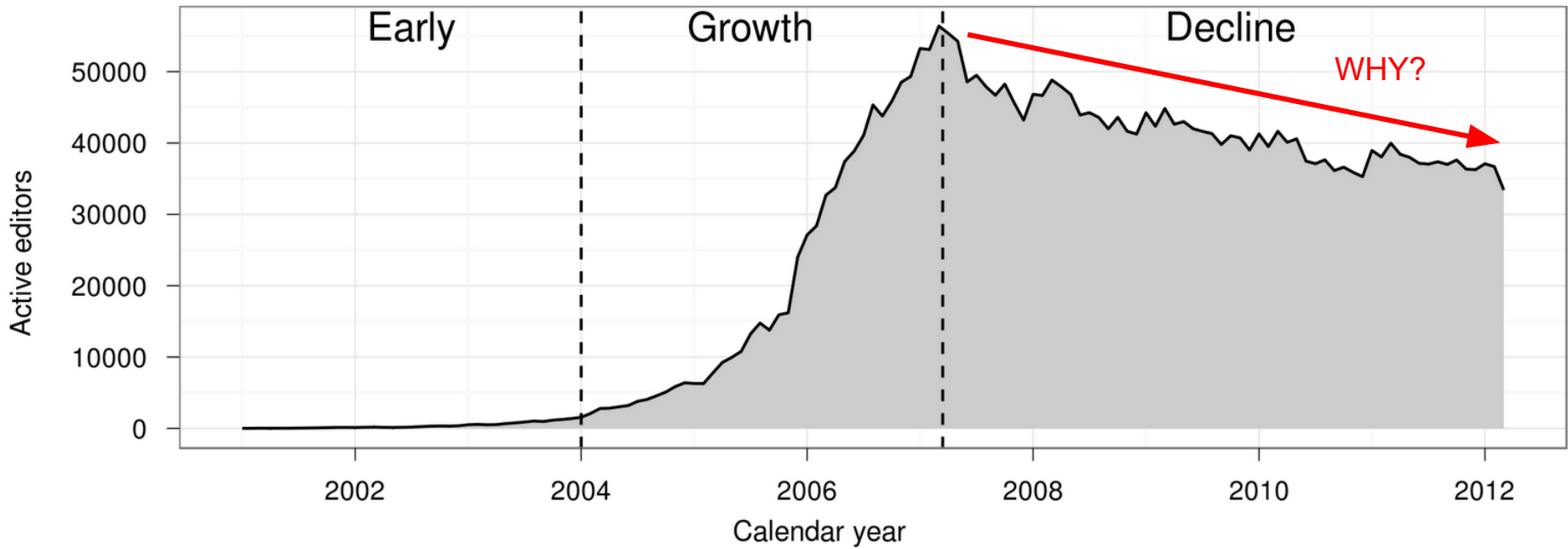
1. Observe unexplained phenomena
2. Hypothesize explanations
3. Look for evidence

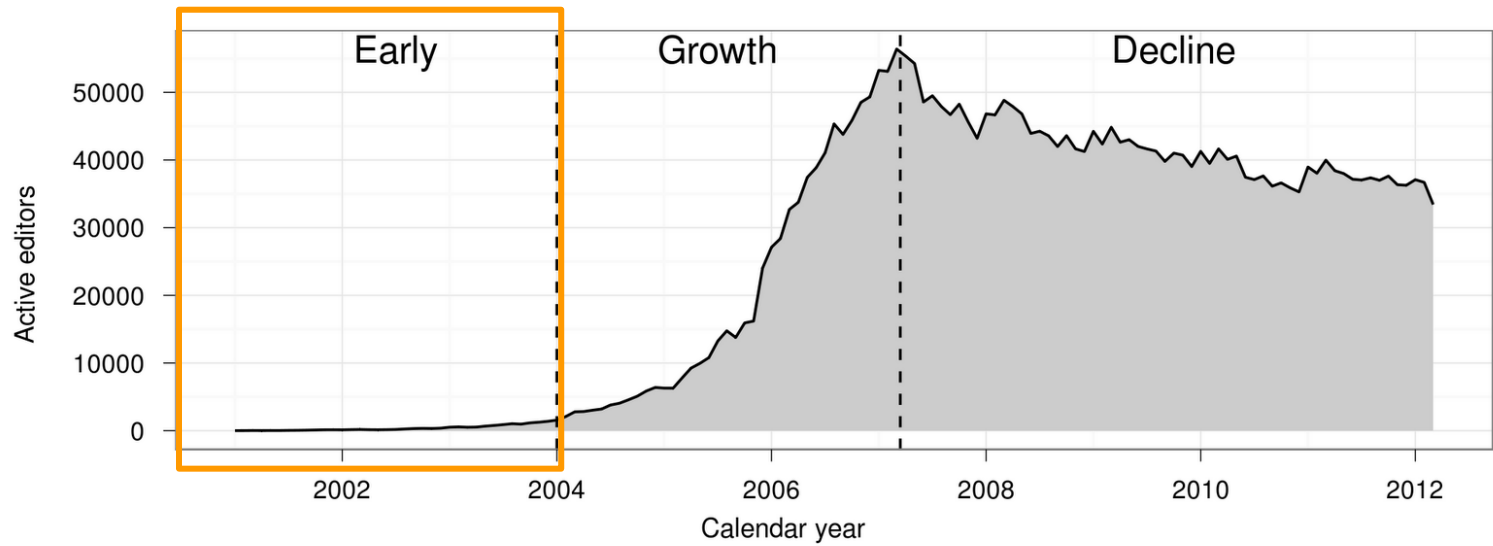
How to get some Theory

1. Observe unexplained phenomena
2. Hypothesize explanations
3. Look for evidence
4. Repeat

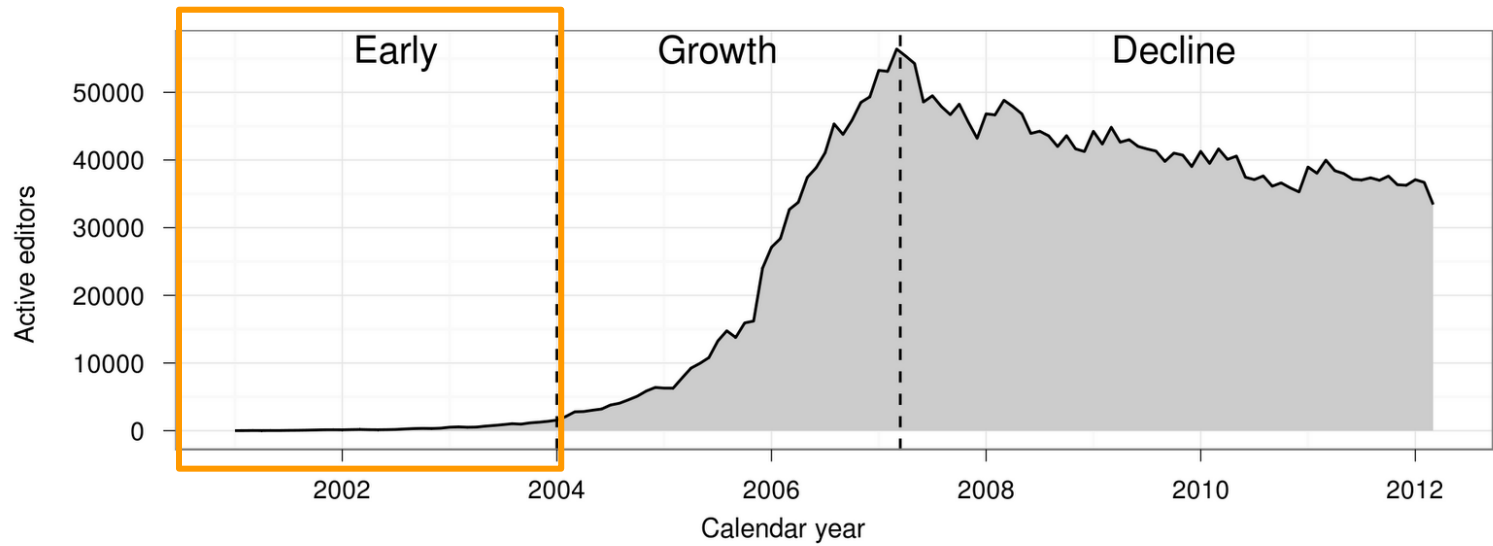




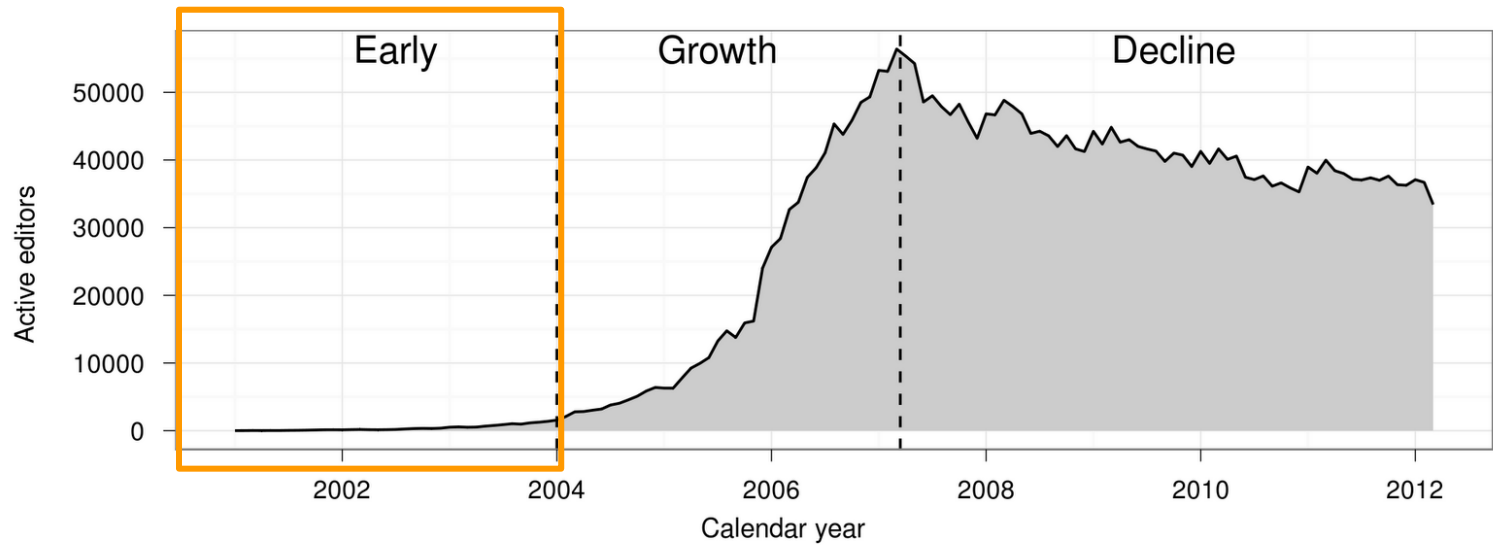




A long time ago -- before it was obvious that Wikipedia worked at all...

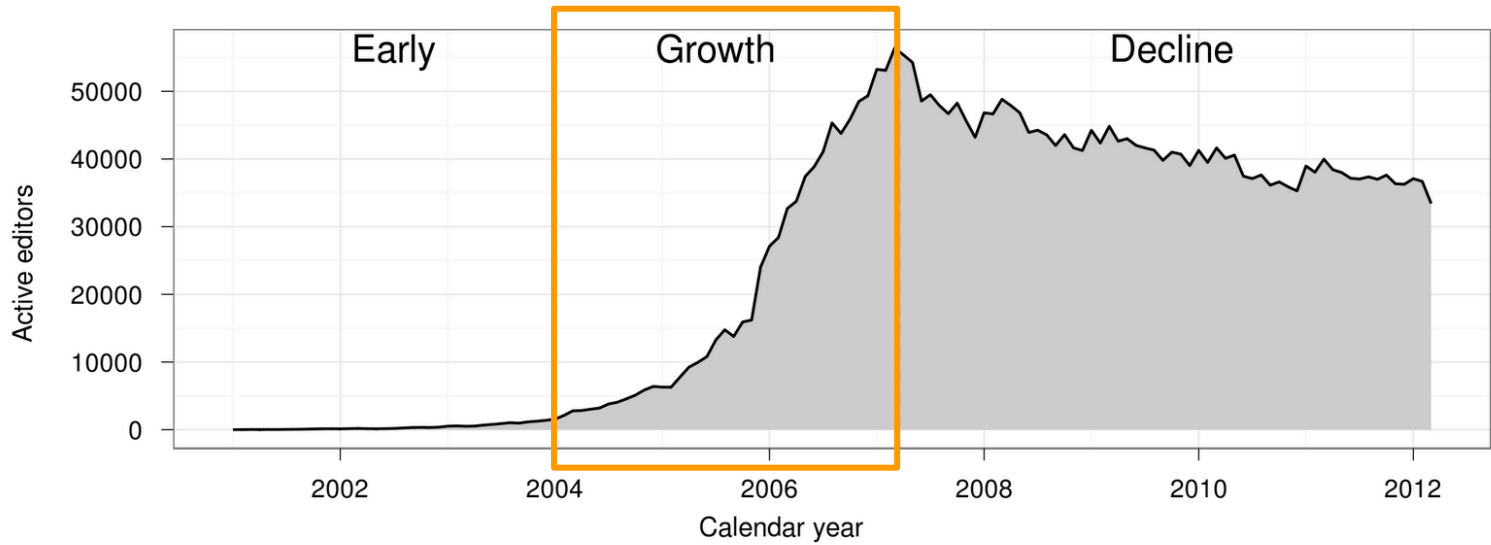


- Small
- Few editors
- Fewer vandals

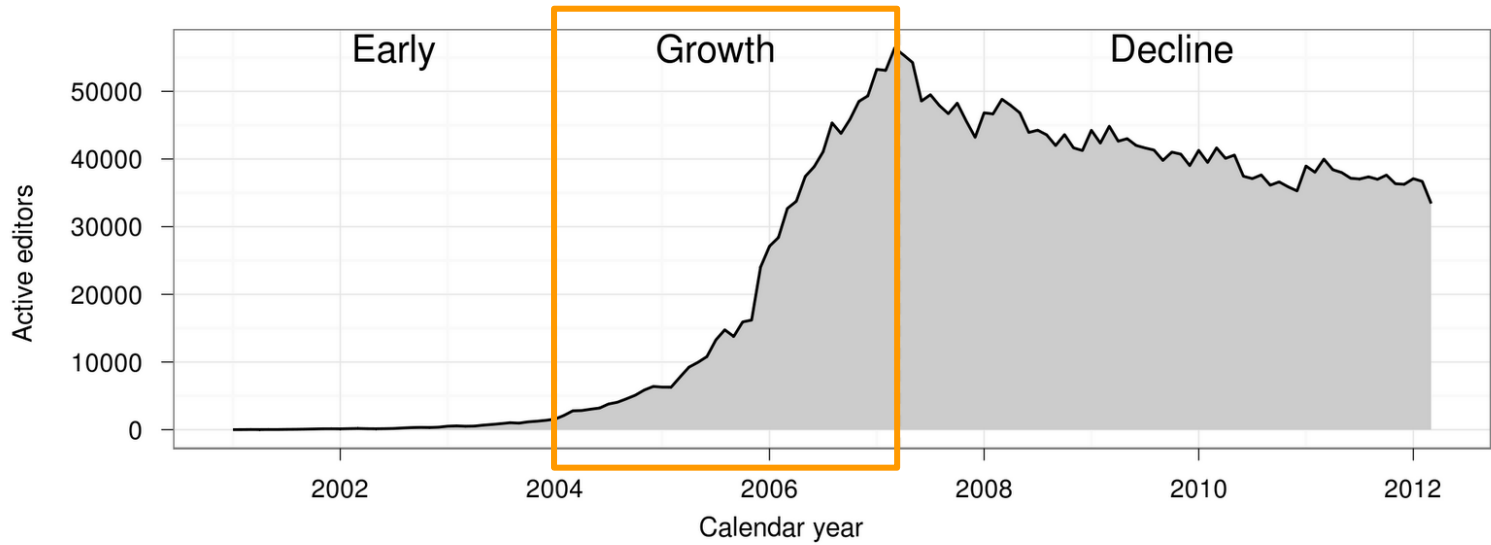


Little time needed for:

- Vetting new articles
- Removing vandalism
- Socializing newcomers



Popularity → More readers → More editors



Popularity → More readers → More editors

More editors → More better, right?





[https://commons.wikimedia.org/wiki/File:Flickr - Official U.S. Navy Imagery - Sailor%27s_daughter_operates_a_fire_hose_with_crew_member_assistance.jpg](https://commons.wikimedia.org/wiki/File:Flickr_-_Official_U.S._Navy_Imagery_-_Sailor%27s_daughter_operates_a_fire_hose_with_crew_member_assistance.jpg)





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London Beer Flood

From Wikipedia, the free encyclopedia

Coordinates: 51°31′00″N 0°07′49″W﻿ / ﻿51.51667°N 0.13028°W﻿ / 51.51667; -0.13028

The **London Beer Flood** happened on 16 October 1814 in the parish of [St. Giles, London, England](#). At the [Meux and Company Brewery](#)^[1] on [Tottenham Court Road](#),^{[1][2]} a huge vat containing over 135,000 imperial gallons (610,000 L) of [beer](#) ruptured, causing other vats in the same building to succumb in a [domino effect](#). As a result, more than 323,000 imperial gallons (1,470,000 L) of beer burst out and gushed into the streets. The wave of beer destroyed two homes and crumbled the wall of the Tavistock Arms Pub, trapping teenage employee Eleanor Cooper under the rubble.^[3] Within minutes

London Beer Flood



the former brewery. In 2012, a local tavern, the "Holborn Whippet", has started to mark this event with a specially created vat of **porter** brewed especially for the day.

Known drowning fatalities [edit]

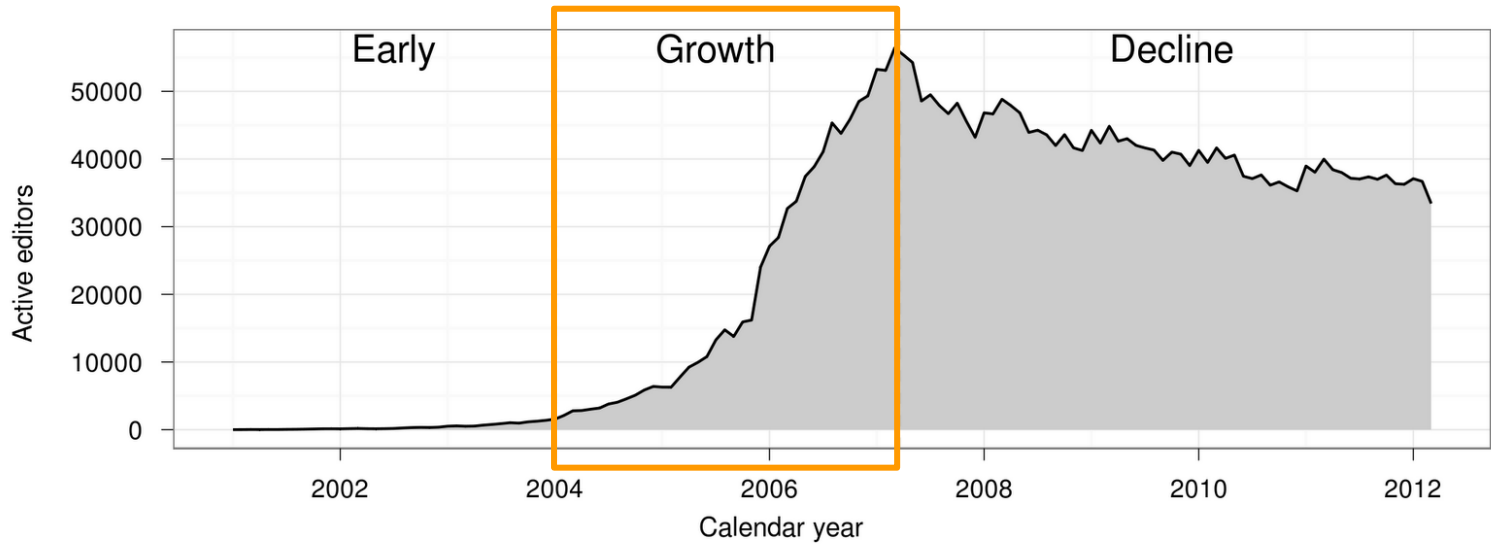
Name ^[6]	Age
Ann Saville	53
Eleanor Cooper	15–16
Hannah Bamfield	4
Catherine Butler	63
Elizabeth Smith	27
Mary Mulvey	30
Thomas Mulvey	3
Sean Duggins	29

See also [edit]

- [Boston Molasses Disaster](#)
- [Great Fire of London](#)
- [Honolulu molasses spill](#)



References [edit]



Popularity → More readers → More editors

New editor/content firehose!

- Community portal
- Recent changes
- Contact page

Tools

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- Data item

Languages

- Acèh
- Адыгэбзэ
- Afrikaans
- Akan
- Alemannisch
- Ἀσπυρ
- Ænglisc
- Аԥсшәә
- العربية
- Aragonés
- اڤڤڤ
- Armãneashce
- Arpetan
- অসমীয়া
- Asturianu

14 November 2013

- 20:08 Mohadevpur Upazila (2 changes | history) . . (+7,205) . . [Sabbire.p (2×)]
- 20:08 Thalía discography (diff | hist) . . (-59) . . 88marcus (talk | contribs) (*Undid revision 581605390 by Sailormoon94 (talk) wrong charts*)
- 20:08 Vinny Appice (diff | hist) . . (+29) . . 99.99.156.175 (talk) (*→ with Kill Devil Hill*)
- 20:08 Wikipedia:Administrators' noticeboard/Incidents (diff | hist) . . (+290) . . Jprg1966 (talk | contribs) (*→ vandalism by User talk:Kppadgett: closing as resolved*)
- 20:08 List of songs produced by Dallas Austin (6 changes | history) . . (+199) . . [172.56.4.215 (6×)]
- 20:08 Old Second National Bank (Aurora, Illinois) (diff | hist) . . (+44) . . Teemu08 (talk | contribs)
- 20:08 (User creation log) . . [ChristieAnnMarchese; Ericaylorach; Bennyjw123; Beatnik511; Anilreddy248; Bazzfazzmillenium; Flezyb13; Frankfair; Rock23953; Selvaranisrinivasan; Plastig001; Mfsmarlow; Imawesome24; Lloyd Burgundy; Tonyjzheng]
- m 20:08 Global Hunger Index (diff | hist) . . (+2,466) . . Marianian (talk | contribs) (*Reverted 1 edit by 71.255.186.70 (talk) to last revision by 98.151.215.4. (TW)*)
- 20:08 Wisden Cricketers of the Year (diff | hist) . . (+2) . . 101.62.216.24 (talk) (*→ List of Cricketers of the Year*)
- 20:08 Climate (4 changes | history) . . (0) . . [Rhinestone K; ClueBot NG; 152.26.73.92 (2×)]
- 20:08 Casualties of the Syrian civil war (diff | hist) . . (+13) . . EkoGraf (talk | contribs) (*→ Opposition forces*)
- m 20:08 Georges Danton (diff | hist) . . (+4) . . Pavel Vozenilek (talk | contribs) (*→ Arrest, trial, and execution: Antoine Quentin Fouquier-Tinville linked*)
- 20:08 St. Peter, Minnesota (2 changes | history) . . (0) . . [66.220.213.193 (2×)]
- 20:08 Daisuke (diff | hist) . . (+96) . . ElizabethEmig (talk | contribs)
- 20:08 Treaty of Paris (1783) (diff | hist) . . (0) . . Illegitimate Barrister (talk | contribs) (*Undid revision 581628816 by 63.116.236.2 (talk)*)
- 20:08 Lenovo Vibe Z (2 changes | history) . . (-7) . . [Intermittentgardener (2×)]
- 20:08 Piscivore (diff | hist) . . (+18) . . Claire.Edelman (talk | contribs) (*→ Examples of extant piscivores*)
- 20:08 Timeline of heavy metal music (6 changes | history) . . (+72) . . [65.7.223.111 (6×)]
- 20:08 Konkani language (2 changes | history) . . (+48) . . [PaintedCarpet (2×)]
- 20:08 Devakottai (diff | hist) . . (0) . . ChristieAnnMarchese (talk | contribs) (*→ History*) (*Tag: new editor getting started*)
- 20:08 Twelve Olympians (diff | hist) . . (-334) . . Paul August (talk | contribs) (*Undid revision 581664683 by Andybishop (talk)*)
- 20:08 List of The Ricky Gervais Show (animated series) episodes (3 changes | history) . . (0) . . [2.124.96.228 (3×)]
- 20:08 Daisuke (diff | hist) . . (+18) . . [64.174.188.179 (2×)]

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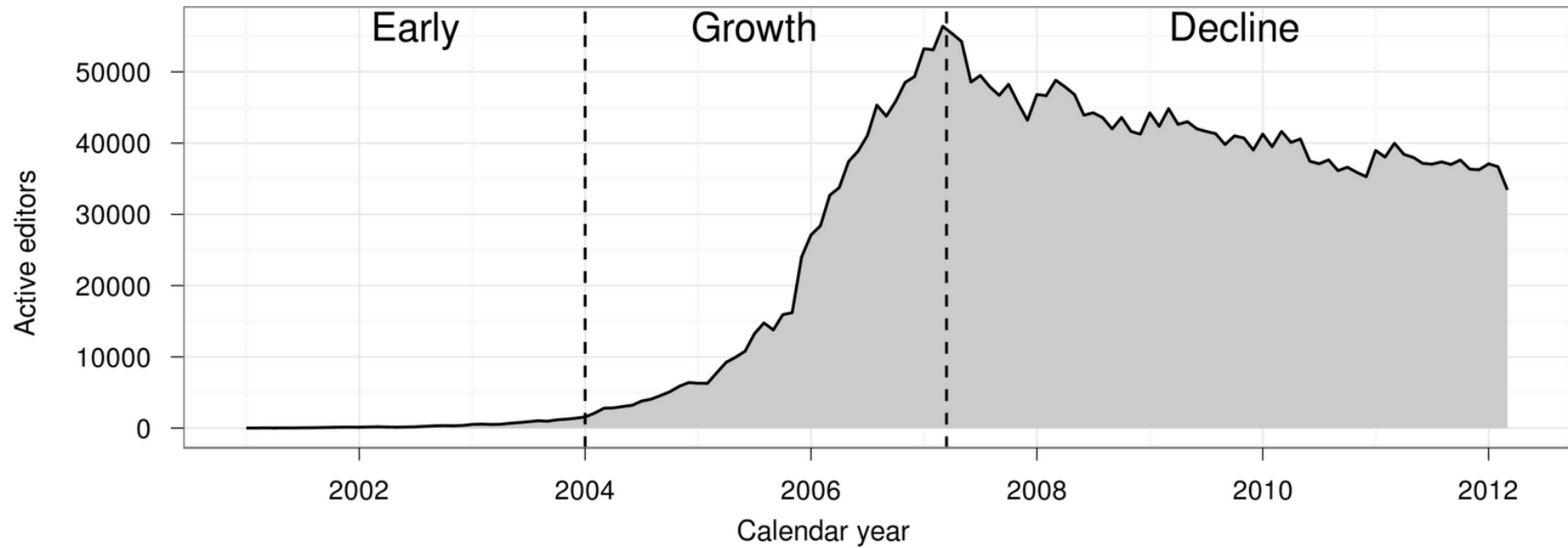
Atom
Upload file
Special pages
Printable version
Data item

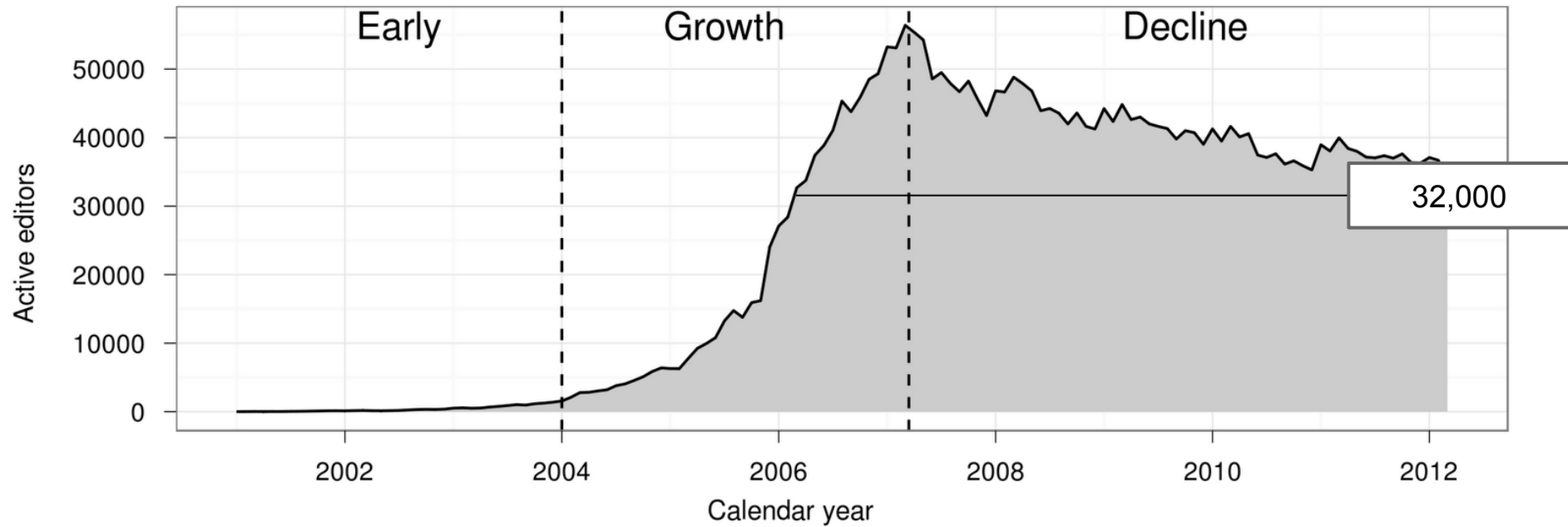
Languages

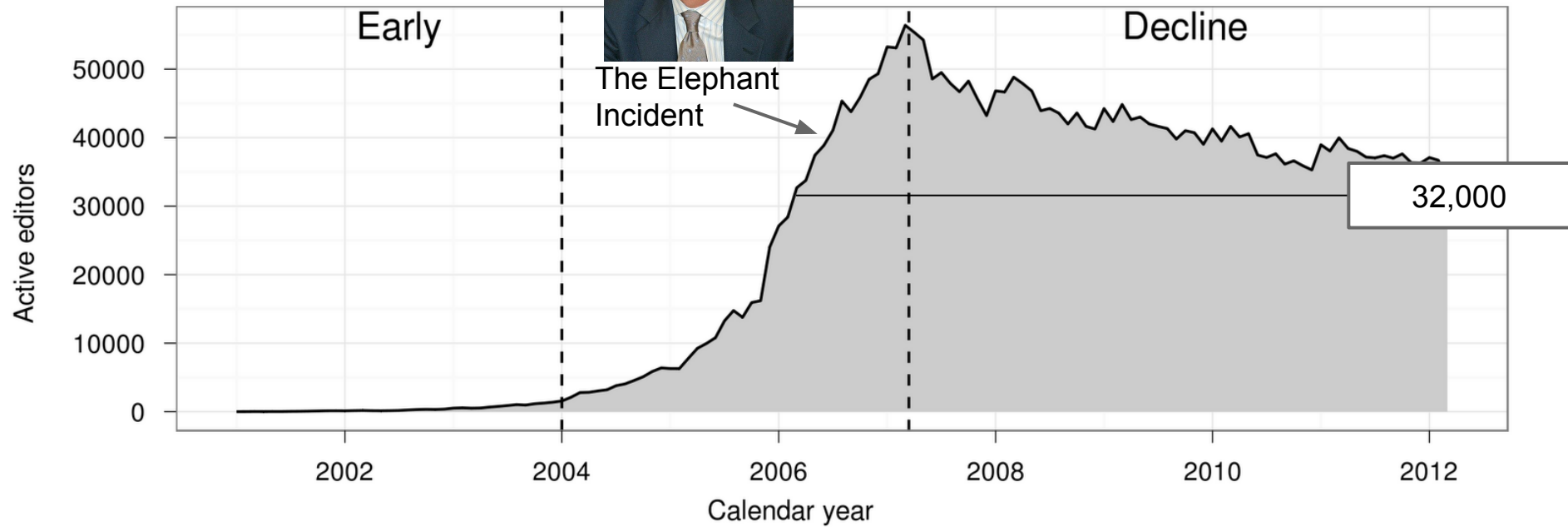
Acèh
Адыгэбзэ
Afrikaans
Akan
Alemannisch
አማርኛ
Ænglisc
Аԥсшәә
العربية
Aragonés
اڤڤڤ
Armãneashce
Arpetan
অসমীয়া
Asturianu

14 November 2013

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- 20:08 ...









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Elephant



From Wikipedia, the free encyclopedia

This article is about the living species. For extinct relatives also known as elephants, see [Elephantidae](#). For other uses, see [Elephant \(disambiguation\)](#).

Elephants are large mammals of the family [Elephantidae](#) and the order [Proboscidea](#). Traditionally, two species are recognised, the [African elephant](#) (*Loxodonta africana*) and the [Asian elephant](#) (*Elephas maximus*), although some evidence suggests that [African bush elephants](#) and [African forest elephants](#) are separate species (*L. africana* and *L. cyclotis* respectively). Elephants are scattered throughout [sub-Saharan Africa](#), [South Asia](#), and [Southeast Asia](#). Elephantidae are the only surviving family of the order Proboscidea; other, now extinct, families of the order include [mammoths](#) and [mastodons](#). Male African elephants are the largest surviving [terrestrial animals](#) and can reach a height of 4 m (13 ft) and weigh 7,000 kg (15,000 lb). All elephants have several distinctive features the most notable of which is a long trunk or [proboscis](#), used for many purposes, particularly breathing, lifting water and grasping objects. Their [incisors](#) grow into tusks, which can serve as weapons and as tools for moving objects and digging. Elephants' large ear

Elephants

Temporal range: **Pliocene–Recent**

PreЄ	Є	O	S	D	C	P	T	J	K	PgN
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Elephant

From Wikipedia, the free encyclopedia

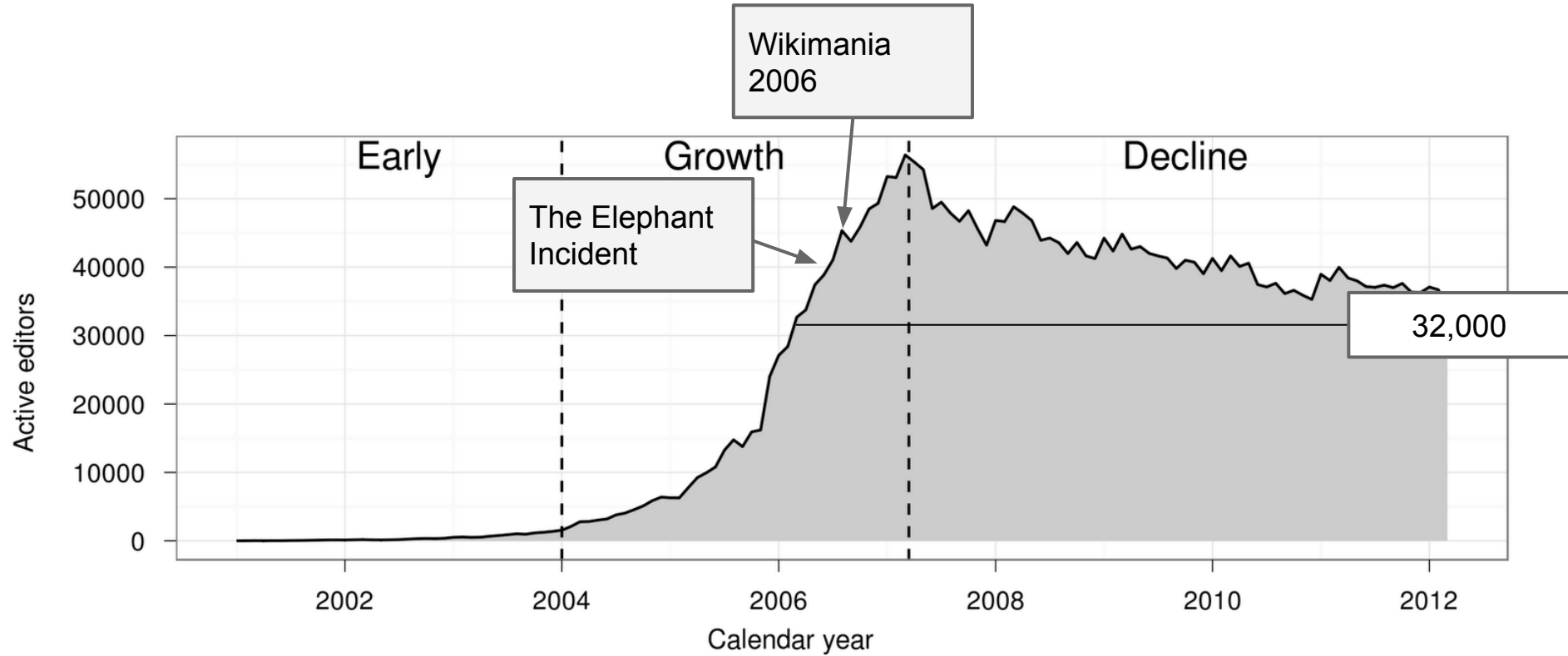


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Elephants
Temporal range: **Pliocene–Recent**

PreЄ **Є** O S D C P T J K PgN



WIKIMANIA '06

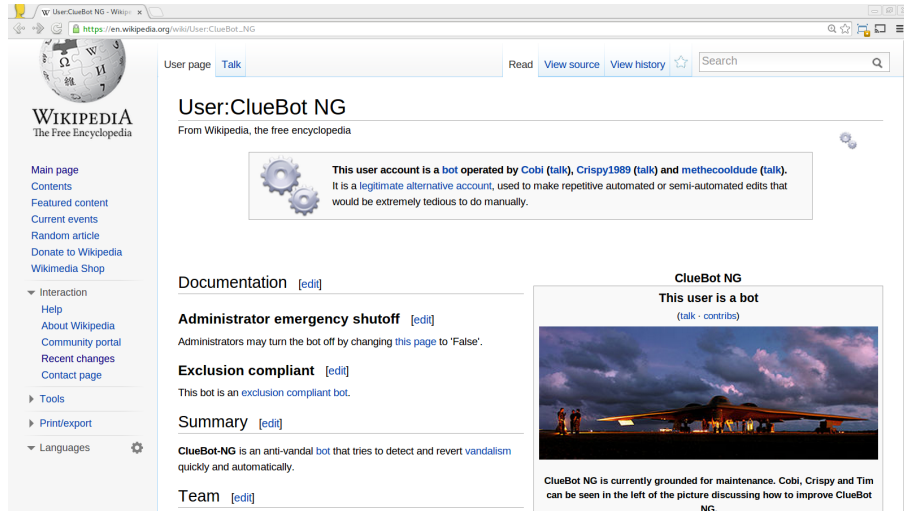
IDENTIFYING AND ELIMINATING TROLLS



https://upload.wikimedia.org/wikipedia/commons/e/ea/Troll_school.jpg

Technology
as
Counter-vandalism

Fully automated

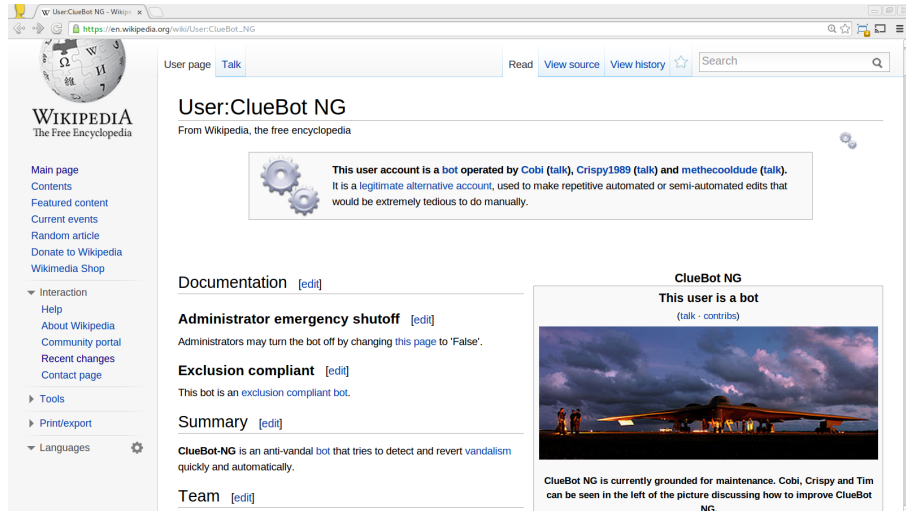


The screenshot shows the Wikipedia user page for ClueBot NG. At the top, there is a navigation bar with 'User page' and 'Talk' tabs, and a search box. Below the navigation bar, the page title is 'User:ClueBot NG' with the subtitle 'From Wikipedia, the free encyclopedia'. A prominent notice box contains the text: 'This user account is a bot operated by Cobi (talk), Crispy1989 (talk) and methecooldude (talk). It is a legitimate alternative account, used to make repetitive automated or semi-automated edits that would be extremely tedious to do manually.' Below this, there is a 'Documentation' section with an '[edit]' link. Under 'Documentation', there are three sub-sections: 'Administrator emergency shutoff' with an '[edit]' link and a note that administrators can turn the bot off; 'Exclusion compliant' with an '[edit]' link and a note that the bot is an exclusion compliant bot; and 'Summary' with an '[edit]' link and a note that ClueBot-NG is an anti-vandal bot. At the bottom, there is a 'Team' section with an '[edit]' link. To the right of the 'Summary' section, there is a photo of a large airplane on a runway at night, with the caption: 'ClueBot NG is currently grounded for maintenance. Cobi, Crispy and Tim can be seen in the left of the picture discussing how to improve ClueBot NG.'

Machine learning

- Fast (~ 5 seconds)[1]
- No human effort
- *Only obvious vandalism*

Fully automated



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User page **Talk**

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User:ClueBot NG

From Wikipedia, the free encyclopedia

This user account is a bot operated by Cobi (talk), Crispy1989 (talk) and methecoolduide (talk). It is a legitimate alternative account, used to make repetitive automated or semi-automated edits that would be extremely tedious to do manually.

Documentation [\[edit\]](#)

Administrator emergency shutoff [\[edit\]](#)

Administrators may turn the bot off by changing [this page](#) to 'False'.

Exclusion compliant [\[edit\]](#)

This bot is an [exclusion compliant bot](#).


Summary [\[edit\]](#)

ClueBot NG is an anti-vandal **bot** that tries to detect and revert **vandalism** quickly and automatically.

Team [\[edit\]](#)

ClueBot NG

This user is a bot
([talk](#) · [contribs](#))

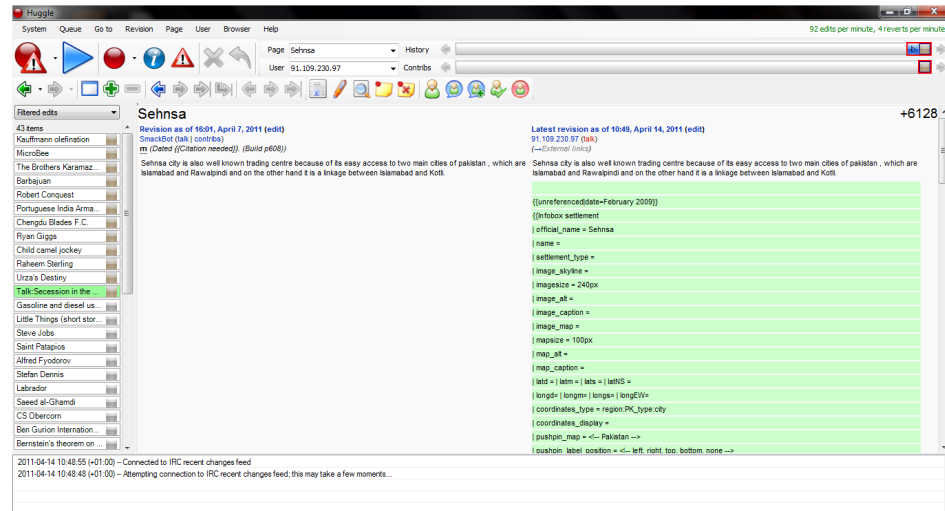


ClueBot NG is currently grounded for maintenance. Cobi, Crispy and Tim can be seen in the left of the picture discussing how to improve ClueBot NG.

Machine learning

- Fast (~ 5 seconds)[1]
- No human effort
- *Only obvious vandalism*

Semi automated



System Queue Go to Revision Page User Browser Help

Page: Sehnsa History
User: 91.109.230.97
Contribs

92 edits per minute, 4 reverts per minute

Sehnsa

Revision as of 16:01, April 7, 2011 (edit)
SmeadBot (talk) (contribs)
m (delete) (citation needed) (build p600)

Sehnsa city is also well known trading centre because of its easy access to two main cities of pakistan , which are Islamabad and Rawalpindi and on the other hand it is a linkage between Islamabad and Kott.

Sehnsa city is also well known trading centre because of its easy access to two main cities of pakistan , which are Islamabad and Rawalpindi and on the other hand it is a linkage between Islamabad and Kott.

Latest revision as of 16:49, April 14, 2011 (edit)
91.109.230.97 (talk)
(←) (cancel) (info)

([[:en:Sehnsa|Sehnsa]] = February 2009)

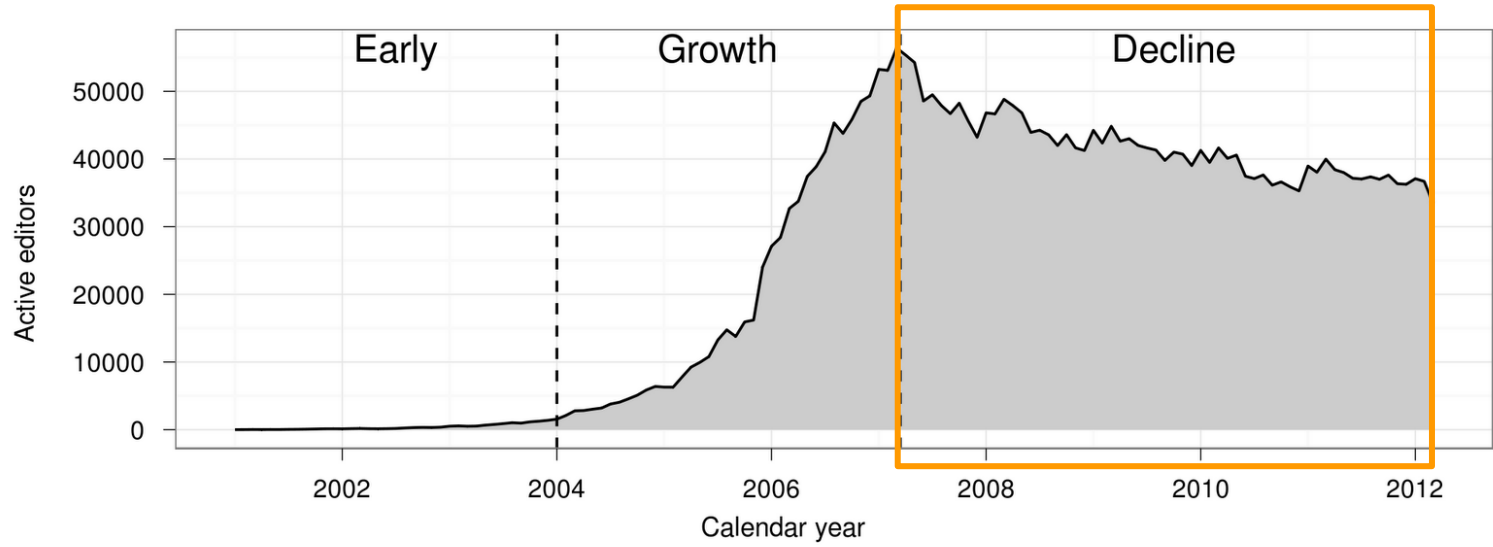
([[:en:Sehnsa|Sehnsa]] = February 2009)

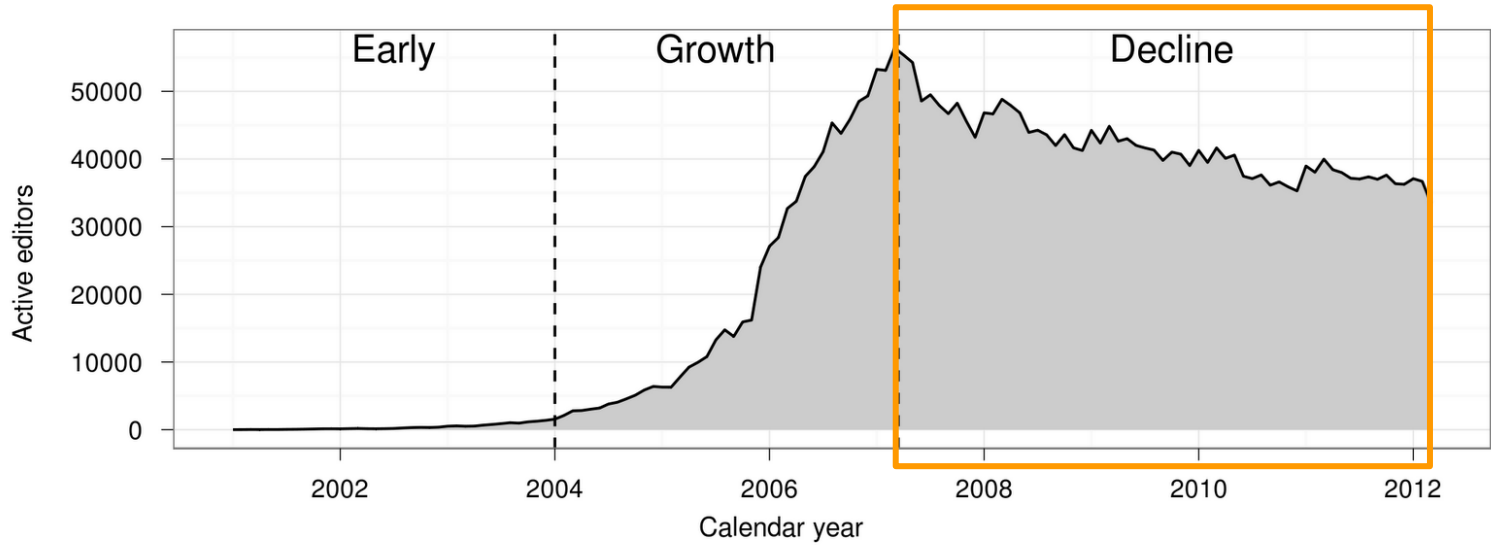
official_name = Sehnsa
name =
settlement_type =
image_skyline =
image_size = 240px
image_at =
image_caption =
Little Things (short stor...
map =
mapsize = 100px
map_at =
map_caption =
latd = |latm = |lats = |latNS =
|longd = |longm = |longs = |longEW =
coordinates_type = region:PK_type:city
coordinate_display =
|pushpin_map = ←- Pakistan →-
|pushpin_label_position = ←- left, right, top, bottom none →-

2011-04-14 10:48:55 (+01:00) – Connected to IRC recent changes feed
2011-04-14 10:48:48 (+01:00) – Attempting connection to IRC recent changes feed; this may take a few moments...

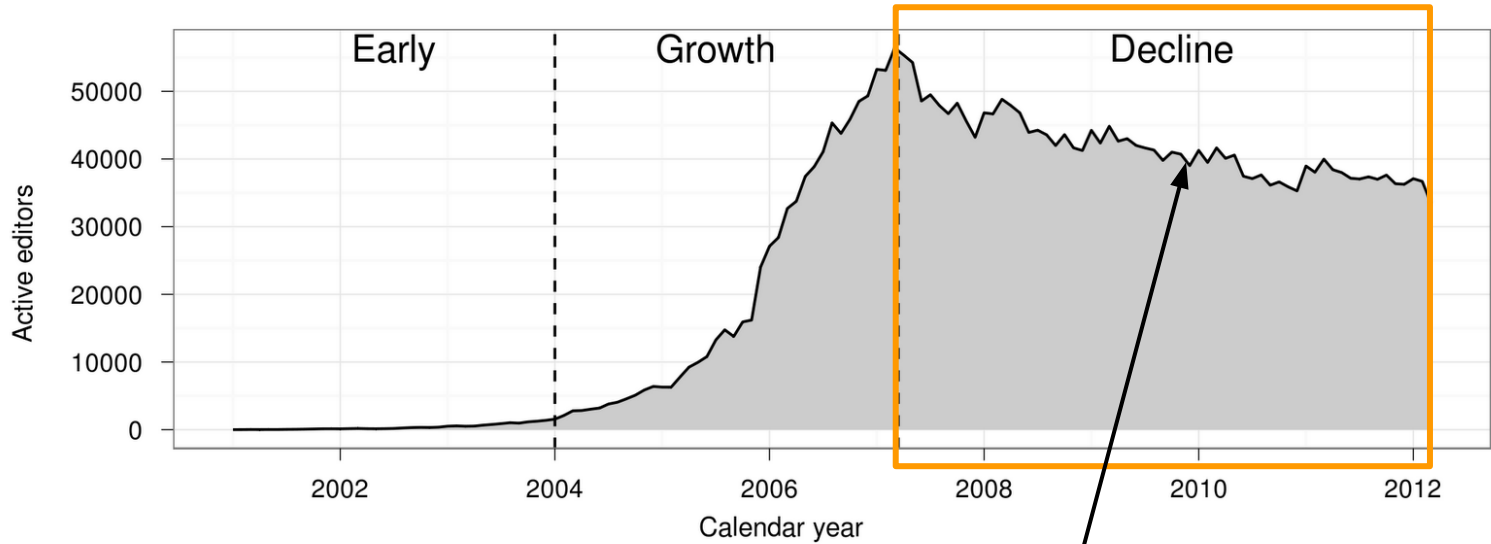
Human computation

- Still pretty fast (~ 30 seconds)[1]
- Minimizes human effort
- Humans catch most vandalism at a glance





What's actually declining?



[1]

What's actually declining?

Newcomers! Show up, but leave quickly.

What's happening to the newbies?

- Wikipedia is done.

What's happening to the newbies?

- Wikipedia is done. *It isn't.*^[1]

1. https://en.wikipedia.org/wiki/Wikipedia:Core_topics_-_1,000
2. Lam, S. T. K., et al. (2011). **WP: clubhouse?** *WikiSym* (pp. 1-10). ACM.
3. https://wikimania2013.wikimedia.org/wiki/Submissions/Towards_bridging_the_gender_gap_in_Indian_Wikimedia_community

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- Early adopter effect.

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What's happening to the newbies?

- Wikipedia is done. *It isn't.*^[1]
- Wikipedia has enough editors. *It doesn't.*
[2,3]
- Early adopter effect.

Newbies just aren't as good as they used to be.

-Crotchety Wikipedians

What's happening to the newbies?

Progress: 100%

8228: **BkMarcus** golden

8229: **Bncbrowne** bad-faith

8230: **Yggdrasil**

The edits are damaging and probably in bad faith, but not intended to cause harm. E.G. Trying to be funny. Adding self to article. Making fun of friends.

8228: **BkMarcus** error[?] interesting[?] unsure[?] vandal bad-faith good-faith golden

[Pacifism](#) [diff]

Line 6:

Total pacifism is controversial, and only a few religions (such as the "peace churches" of [[Christianity]]) advocate it. Critics of this kind of pacifism claim that being non-violent in the face of violent criminals or armies tacitly or explicitly encourages more violence. They often characterize pacifism as simply "waiting tolerantly for criminals to learn that their actions are unwise", although much of pacifism makes no such assumption.

Total pacifism is controversial, and only a few religions (such as the "peace churches" of [[Christianity]]) advocate it. Critics of this kind of pacifism claim that being non-violent in the face of violent criminals or armies tacitly or explicitly encourages more violence. They often characterize pacifism as simply "waiting tolerantly for criminals to learn that their actions are unwise", although much of pacifism makes no such assumption.

+

Russian novelist, [[Leo Tolstoy]] advocated what has come to be known as [[anarcho-pacifism]] or [[Christian anarchism]]. He argued that [[Christians]] were obligated to be pacifists, and that pacifists, in turn, were obligated to be

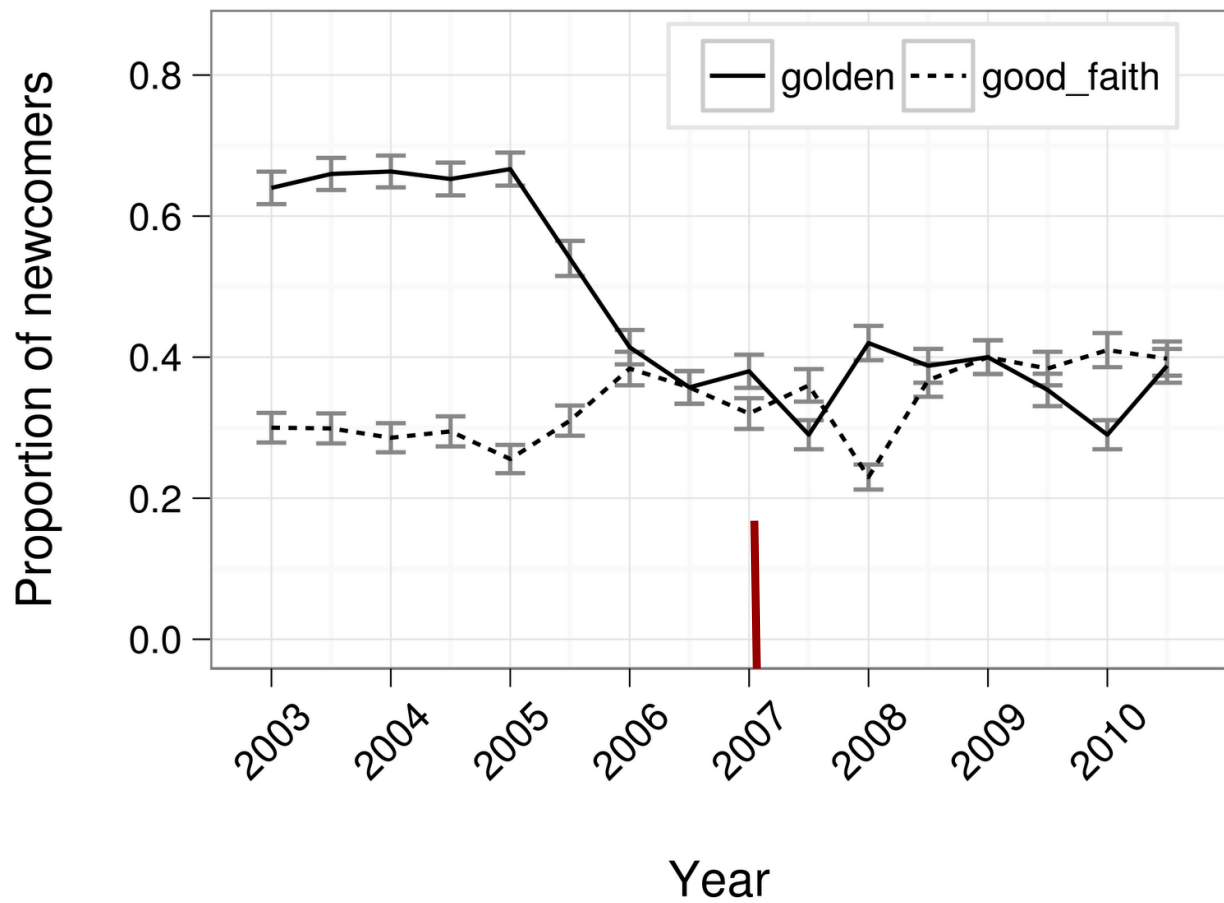
+

[[anarchism|anarchists]] -- since government is based on the use of [[coercion|force]]. Tolstoy was influenced by [[Henry David Thoreau]]'s writings on [[Civil Disobedience]]. Tolstoy's own writings on pacifism and [[non-resistance]] converted [[Mohandas Gandhi|Gandhi]] to pacifism.

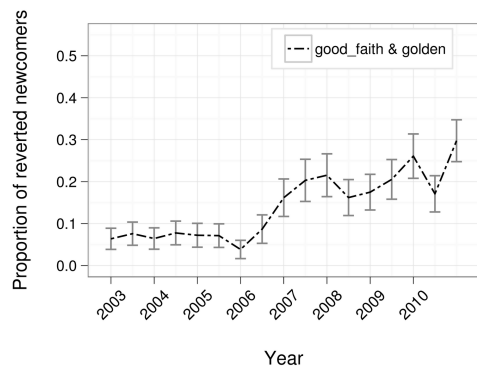
Ironically, religions which are generally believed to promote pacifist ideas, such as Christianity, were in fact often spread by military aggression. [[Buddhism]] has repeatedly embraced bloodshed in its generally pacific history (through hired armies or government intervention) as a "Final Solution" against

File:LysanderSpooner.jpg

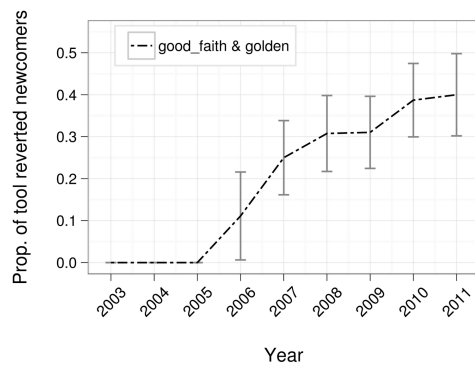
- Lysander Spooner
- Lysander Spooner
- [Pacifism](#)
- Libertarianism
- Free market



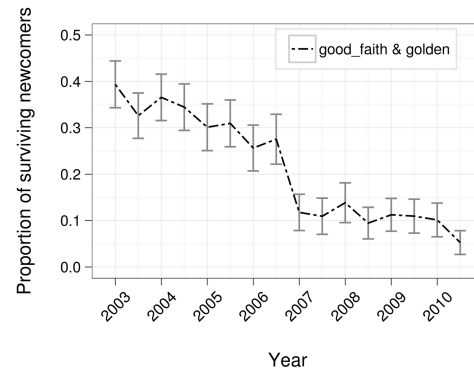
Newcomer rejection



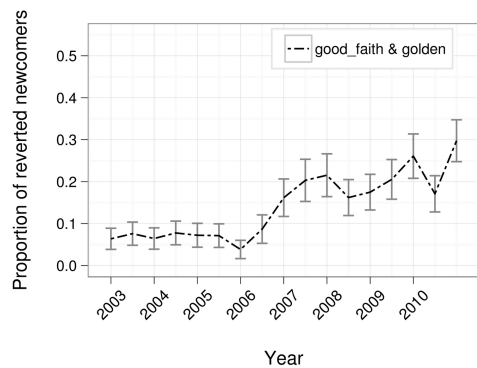
especially by anti-vandal tools



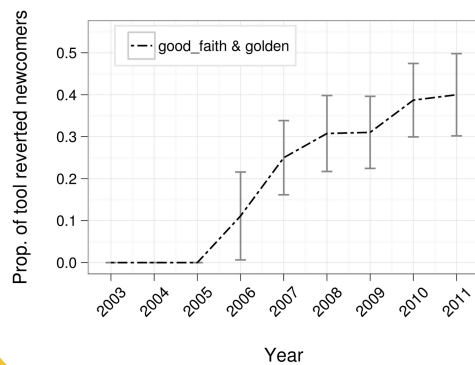
predicts the decline



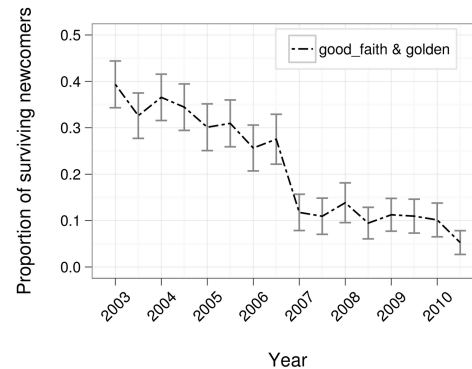
Newcomer rejection



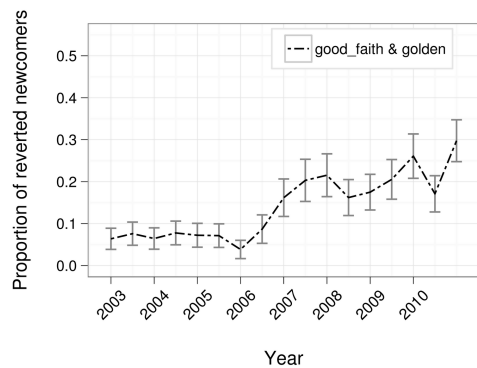
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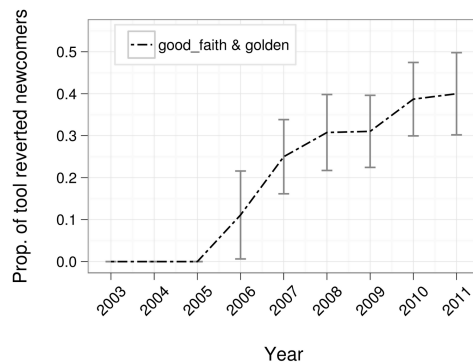
predicts the decline



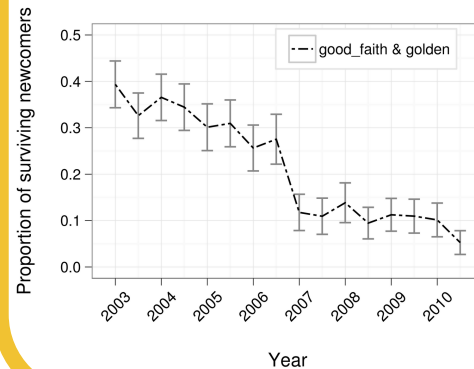
Newcomer rejection



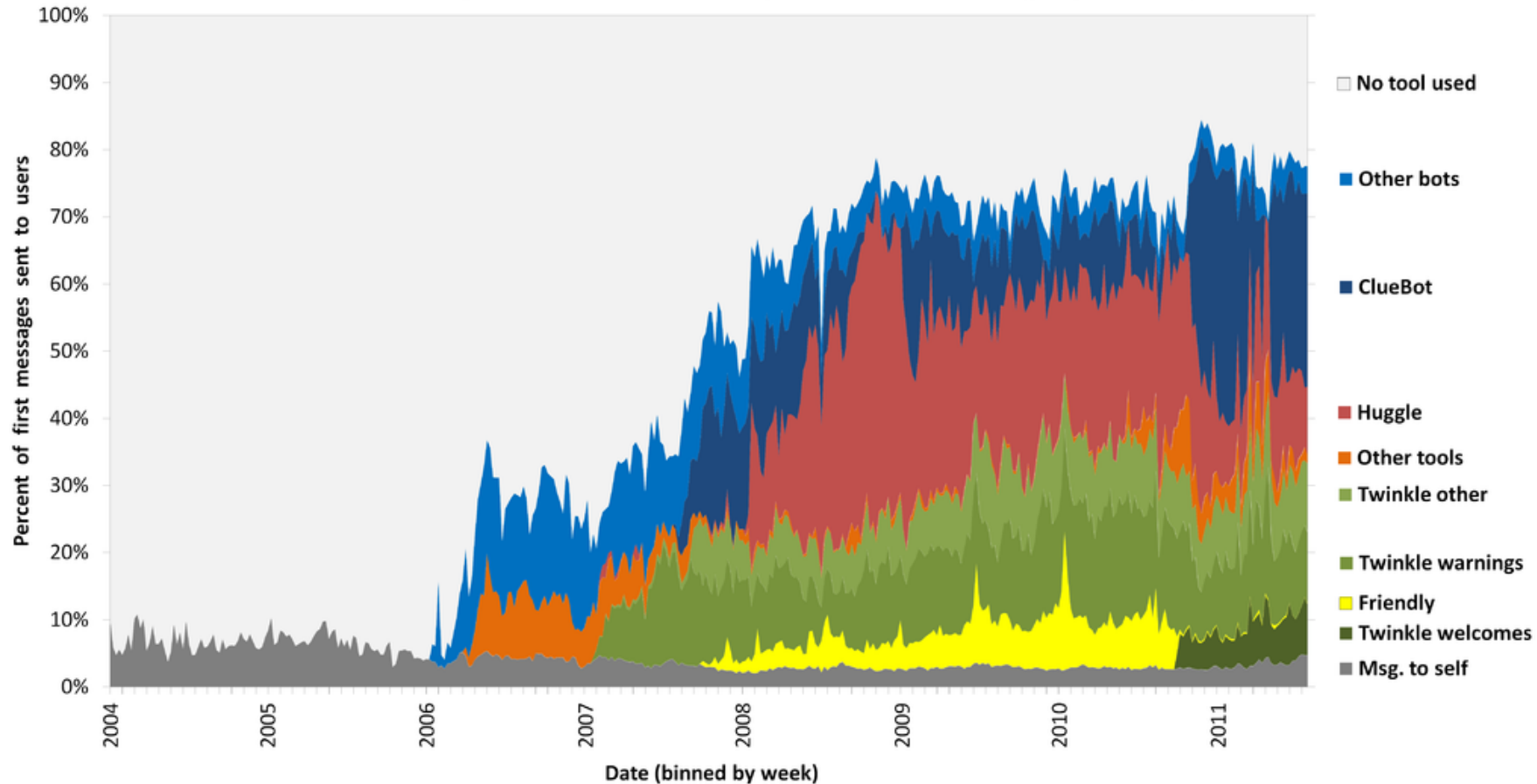
especially by anti-vandal tools



predicts the decline

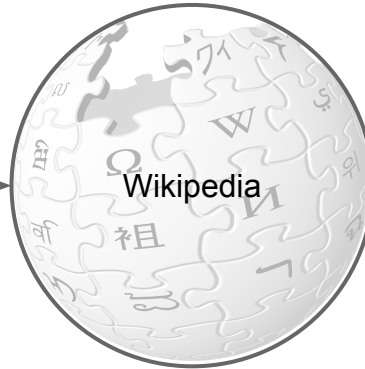


80% of first interactions automated



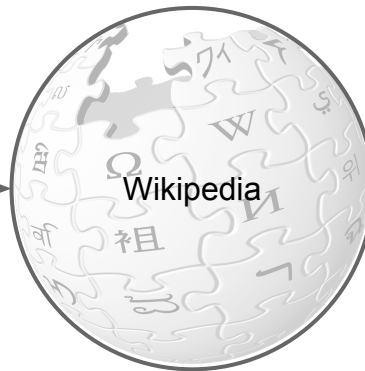
TL;DR:

Newcomers



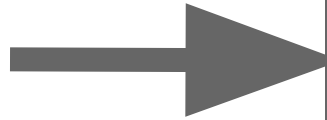
TL;DR:

Newcomers



TL;DR:

Newcomers

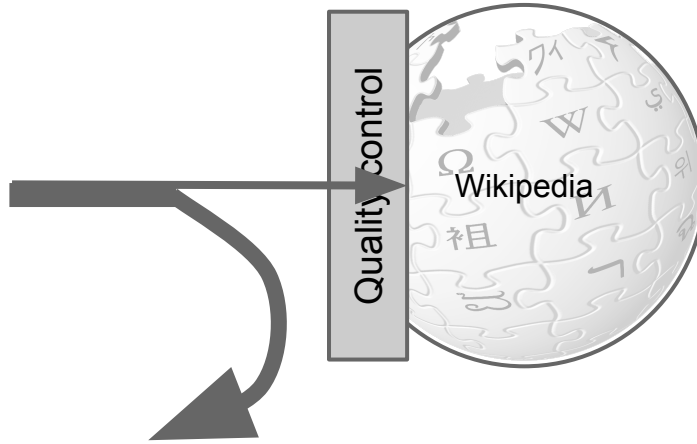


Quality control



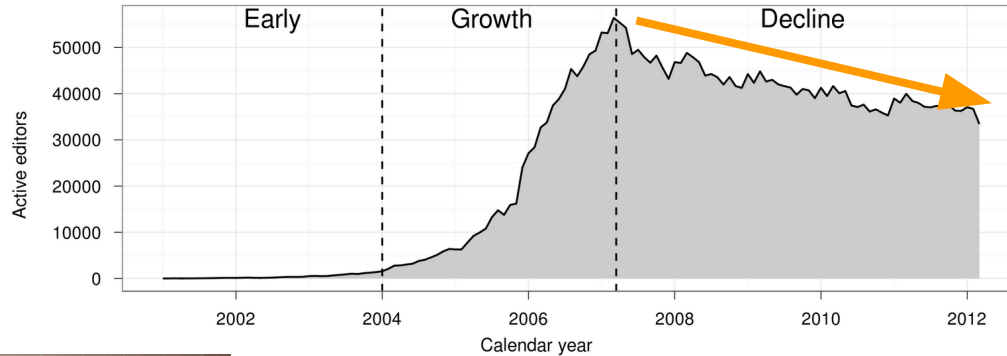
TL;DR:

Newcomers



TL;DR:

What's causing Wikipedia's editor decline?



Halfaker, A., Gieger, R. S., Morgan, J., & Riedl, J. (2013).
The Rise and Decline of an Open Collaboration System
American Behavioral Scientist

What can be done?

What can be done?

- Efficient quality control is necessary

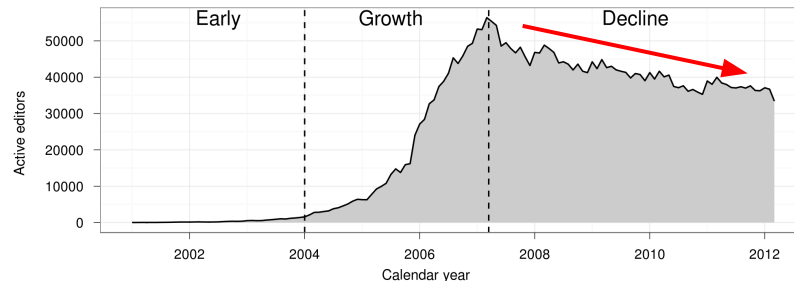


What can be done?

- Efficient quality control is necessary



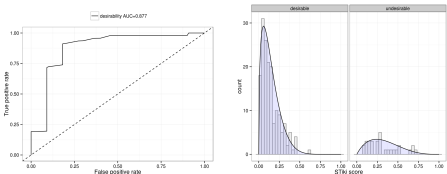
- Socializing new editors is necessary



More good



Less good



Snuggle
https://snuggle.grouplens.org

Not logged in...

uncategorized good-faith ambiguous bad-faith

uncategorized newcomers with more than 1 edits to any page sorted by desirability ascending descending

Username and stats	Interactive edit graph	Talk page activity
<input type="checkbox"/> Sinineburx		<input type="radio"/>
<input type="checkbox"/> Betabot75		<input type="radio"/> W <input type="radio"/> warn
<input type="checkbox"/> Rodriguezandres999		<input type="radio"/> vand ² <input type="radio"/> TH
<input type="checkbox"/> PrisciliaFria		<input type="radio"/> csd <input type="radio"/>
<input type="checkbox"/> RichardHC		<input type="radio"/> TH
<input type="checkbox"/> J3sseung		<input type="radio"/>
<input type="checkbox"/> Lostbad		<input type="radio"/> W <input type="radio"/> vand ² <input type="radio"/> TH
<input type="checkbox"/> Wikihj4		
<input type="checkbox"/> Dswatcha		<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
<input type="checkbox"/> Keaclamvietot		
<input type="checkbox"/> Meleri Morgan		<input type="radio"/> W <input type="radio"/> TH
<input type="checkbox"/> Tomski12		<input type="radio"/> vand ²
<input type="checkbox"/> Nordicanuck		<input type="radio"/> W
<input type="checkbox"/> MarielMarshall		<input type="radio"/> <input type="radio"/>
<input type="checkbox"/> K-1010101		<input type="radio"/> <input type="radio"/>



Welcome to the

teahouse

A **friendly** place to help new editors become accustomed to Wikipedia culture, ask questions, and develop community relationships.

*Do you have a **question** about editing?*

Get answers >>

Recent questions...

I am a bit confused after trying to edit this page:

https://en.wikipedia.org/wiki/Cycling_advocacy#Copenhagenization 

I wanted to add relevant supporting links but have run into a battle with another user. I wanted to link to a TED talk by one of the individuals mentioned under Bicycle Advocates - Mikael Colville-Andersen - but another user keeps undoing it, even though allowing a link to a talk by another one of the people mentioned.

Hosts are here to help >>



Ad Huikeshoven, Teahouse host

Guests, create a profile >>

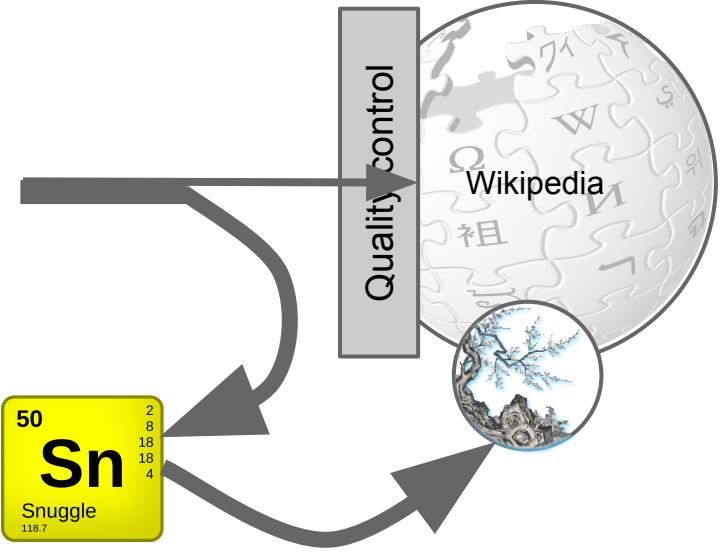


Warrenkychu

On Wikipedia I wish to edit and contribute to the best of my ability. I enjoy editing Wikipedia.



Newcomers



Growth Experiments

Projects [\[edit\]](#)

The following pages hold the *methodology*, *experimental design* and *results* of each experiment.

Active

- [Research:Task recommendations](#)
- [Research:Anonymous editor acquisition](#)
 - [Research:Asking anonymous editors to register](#)
 - [Research:Anonymous phenomena](#)
- [Donor email campaigns](#)

Complete

- [Research:Onboarding new Wikipedians](#)
- [Research:GuidedTour usage](#)
- [Research:Wikipedia article creation](#)
- [Research:Newcomer survival models](#)
- [Microsurveys, e.g. Research:Gender micro-survey in support of VisualEditor](#)
- [Research:Account creation UX](#)
- [Research:Donor engagement](#)
- [Research:Community portal redesign](#)
- [Research:Post-registration editor survey](#)
- [Research:Post-edit feedback](#)
- [Template A/B testing](#)
- [Research:Necromancy](#)
- [Research:Timestamp position modification](#)
- [Research:Editor milestones](#)

Proposals and ideas

- [Research:Section edit modification](#)
- [Research:Improve your edit](#)
- [Research:Wikimania unconference experiment \(suppress cleanup templates\)](#)
- [Research:Left-hand navigation](#)

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- [Research:Left-hand navigation](#)

Pages to improve

Recommended based on your last edit



Arctic Fox

94 views this month



Mount Whitney

924 views this month



Nova Scotia Duck Tolling Retriever Dog farts blah blah...

2394 views this month



Growth Experiments

Projects [\[edit\]](#)

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[[William Godwin]] and [[Wilhelm Weitling]], but believes.<ref>{{cite book |title=The Anarchists |l|pages=27–37}}</ref> [[Pierre-Joseph Proudhon]] w anarchism in the mid-nineteenth century. Since th|first=Max |authorlink=Max Nettlau |year=1996 |pu often been used as a synonym for anarchism<ref>"A

Preview your changes (optional)

Clicking "Show preview" allows you to check what the page will look like with your changes. Just don't forget to save!



a hyperlink or URL is sufficient for CC BY-SA 3.0 attribution.

Save page

Show preview

Show changes

Cancel

Growth Experiments

Hypotheses [\[edit\]](#)

Rationale: We suspect that the prominence of guider-based UI cues, as well as a rat concerns, will increase the rate at which anonymous editors decide to register an acc Wikipedia are passive for anonymous editors, in the form of static links to account cr the edit form. We suspect that these passive "create account" links (in the personal t messages mid-edit) are relatively hidden to a new users' eyes. We've observed that increases completion rates within a funnel.^[1]

Hypothesis 1: *More anonymous editors in the experimental conditions will register a*

Rationale: Further, we suspect that the **pre-edit** CTA will encourage more users to r action between a user and their goal -- to make an edit to a page. Further, the flow c in is a common pattern in web applications and is already used by [mw:Extension:Mo](#) only functionality like watchlists.

Hypothesis 2: *More anonymous editors in the pre-edit conditions will register accou*

Proposals and ideas

- [Research:Section edit modification](#)
- [Research:Improve your edit](#)
- [Research:Wikimania unconference experiment \(suppress cleanup templates\)](#)
- [Research:Left-hand navigation](#)

Growth Experiments

Hypotheses [\[edit\]](#)

Rationale: We suspect that concerns, will increase that Wikipedia are passive for the edit form. We suspect messages mid-edit) are increases completion rate

Hypothesis 1: *More an*

Rationale: Further, we see action between a user a *in* is a common pattern in only functionality like wa

Hypothesis 2: *More an*

Proposals and ideas

- Research:Section edit modi
- Research:Improve your edit
- Research:Wikimania uncon
- Research:Left-hand navigat

Methods [\[edit\]](#)

Measuring user behavior via random token [\[edit\]](#)

In order to distinguish between distinct clients as they move between IP ad accounts, we will be assigning users randomly-generated tokens that will id browser/device during the observation and experiment periods. This token user edits, either via wikitext or VisualEditor. Due to the potential sensitivity retained for up to 90 days (per the [Data retention guidelines](#)) and only user patterns (e.g. number of signups per experimental bucket), after which all t from analytics databases.

Note: There are limitations in the assumption that one token equals one us to one device. Possible complications include shared computers (some res sessions, others don't, which have different effects), users who habitually u automatically clear cookies on browser close, and users who switch betwee computers.

Schemas [\[edit\]](#)

Schema:[SignupExpPageLinkClick](#)

Growth Experiments

[Hypotheses](#) [\[edit\]](#)

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[Methods](#) [\[edit\]](#)

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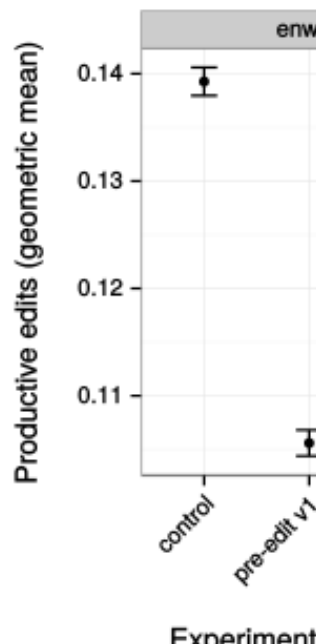
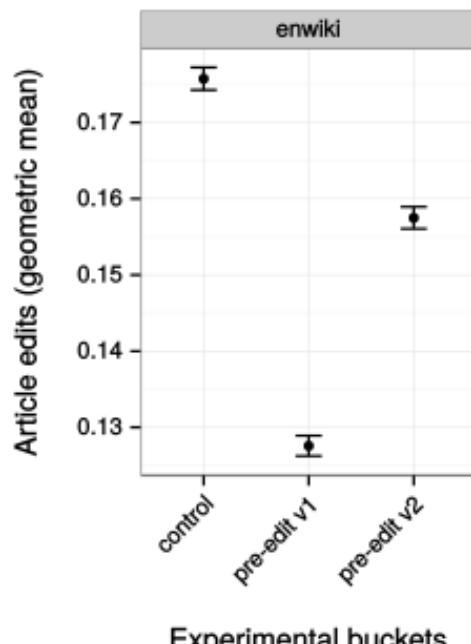
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[Schemas](#) [\[edit\]](#)

[Schema:SignupExpPage](#)

[Results](#) [\[edit\]](#)

Hyp 1 recovered productivity [\[edit\]](#)



We need **Theory** in order to effectively support Wikipedia-like projects.

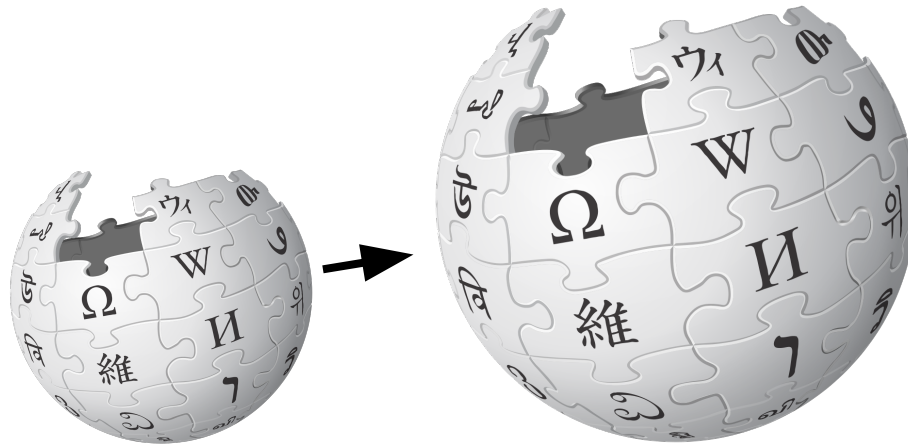
Part 3

Research strategy & Community support

Critical insights

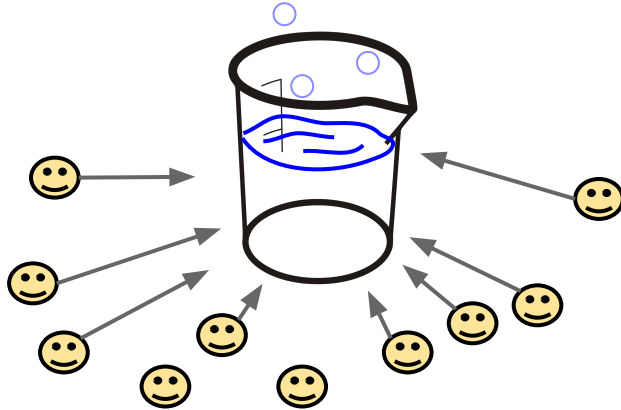
Critical insights

- Hard problems are hard

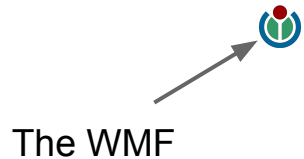


Critical insights

- Hard problems are hard
- Open collaboration is more productive



The problem space





Aaron Halfaker
Research Scientist



Oliver Keyes
Research Analyst



Leila Zia
Research Scientist



Dario Taraborelli
Senior Research Scientist
(Research and Data Team
Lead)

The problem space



MIT Media Lab



The WMF

Openness

Access: <https://meta.wikimedia.org/wiki/Research:Index>

Data:

- <http://datahub.io/dv/group/wikimedia> -- Curated datasets
- <http://dumps.wikimedia.org/> -- General data dumps from public wikis
- <http://tool.wmflabs.org/> -- Hosting and data querying for tools and research
- <http://quarry.wmflabs.org/> -- Public querying interface for Tool Labs

Source:

- <https://github.com/halfak/MediaWiki-Utilities> -- General data processing utilities
- <https://github.com/halfak/MediaWiki-OAuth> -- Authorization for wiki tools
- <https://github.com/halfak/Deltas> -- Experimental difference detection
- <https://github.com/halfak/Wiki-Class> -- Automatic article quality classification
- <https://github.com/halfak/MediaWiki-events> -- Standardized public event utilities

Outreach

Showcases

- https://www.mediawiki.org/wiki/Analytics/Research_and_Data/Showcase

Hackathons

- https://meta.wikimedia.org/wiki/Research:Labs2/Hackathons/August_6-7th,_2014

wiki-research-l@lists.wikimedia.org

- <https://lists.wikimedia.org/mailman/listinfo/wiki-research-l>

#wikimedia-research @ irc.freenode.net ([connect](#))

Outreach

CSCW Workshop:

- Advancing an industry/academic partnership model for Open Collaboration research (under review)



reddit



ZOONIVERSE



open IDEO

GitHub

Need data?

I want to help you get it.

Want to run an intervention?

I want to help you get access.

Want to collaborate?

I'm game.

... and if I can't help you,

I'll get you in touch with someone who can.

TL;DR:

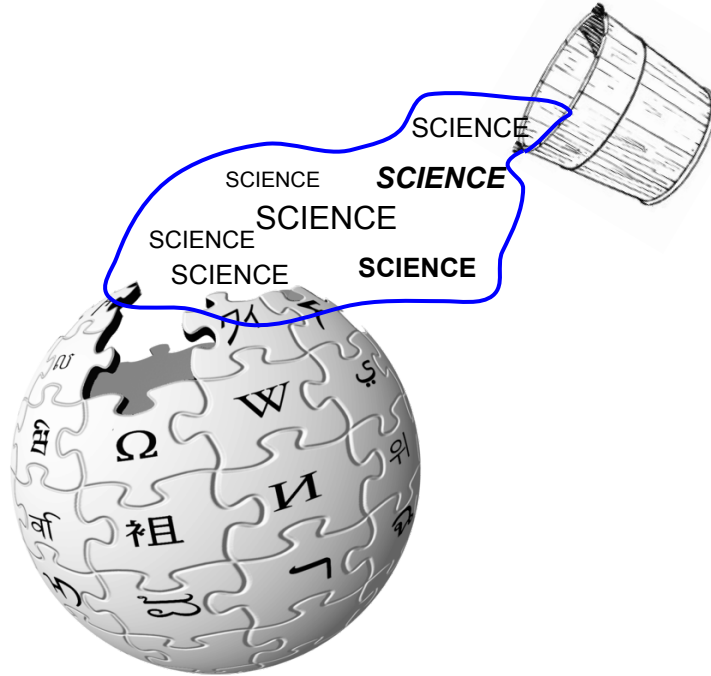
We couldn't succeed without you.

So, we're going to put a lot of energy behind your work.



**WE NEED
YOU**

Thank you



Aaron Halfaker

ahalfaker@wikimedia.org

Send me emails about science, Wikipedia, the internet or whatever.

Ping me (halfak) in **#wikimedia-research** on freenode