

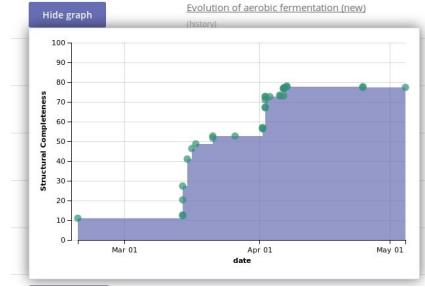
ORES appropriation and reflection.

PatruBOT está **detenido de forma indefinida** desde el 27 de marzo de 2018, debido al número de falsos positivos y la imposibilidad de resolverlos a corto plazo. Según el tiempo disponible, en el futuro podría



Improvements [edit]

Diff id	•	Damaging	•	Old score	•	Score1	•	Score2	•	Score3	•	1st improv.	•	2nd	•	3rd	•	Overall
210649590	No	91%	30%	5%	0%	+61%	•	+25%	•	+5%	•	+5%	•	+91%	•	+5%	•	
237999679	No	84%	71%	63%	60%	+13%	•	+8%	•	+3%	•	+24%	•	+24%	•	+24%	•	
243937491	No	95%	46%	74%	71%	+49%	•	-28%	•	+3%	•	+24%	•	+24%	•	+24%	•	
251530750	No	91%	55%	56%	55%	+36%	•	-1%	•	+1%	•	+36%	•	+36%	•	+36%	•	
253584599	No	99%	89%	78%	70%	+10%	•	+11%	•	+8%	•	+29%	•	+29%	•	+29%	•	
257856652	No	91%	30%	4%	1%	+61%	•	+26%	•	+3%	•	+90%	•	+90%	•	+90%	•	
269077025	No	91%	82%	64%	73%	+9%	•	+18%	•	-9%	•	+18%	•	+18%	•	+18%	•	
269077027	No	91%	89%	79%	86%	+2%	•	+10%	•	-7%	•	+5%	•	+5%	•	+5%	•	
269086457	No	98%	100%	74%	71%	-2%	•	+26%	•	+3%	•	+28%	•	+28%	•	+28%	•	
269090263	No	95%	100%	81%	76%	-5%	•	+19%	•	+5%	•	+19%	•	+19%	•	+19%	•	
269093456	No	89%	99%	49%	44%	-10%	•	+50%	•	+5%	•	+45%	•	+45%	•	+45%	•	
269186604	No	95%	100%	84%	71%	-5%	•	+16	•	+13%	•	+24%	•	+24%	•	+24%	•	
269609233	No	89%	88%	46%	58%	+1%	•	+42%	•	-12%	•	+31%	•	+31%	•	+31%	•	
270093221	No	92%	98%	40%	+48%	-6%	•	+58%	•	-8%	•	+44%	•	+44%	•	+44%	•	
274775730	No	84%	87%	93%	64%	-3%	•	-6%	•	+29%	•	+20%	•	+20%	•	+20%	•	



Aaron Halfaker
Scoring Platform @ Wikimedia



Aaron Halfaker

Principal Research Scientist,
Wikimedia Foundation

Think big. Measure what you can. Build better technologies.



About me

Hi. I'm Aaron Halfaker. I'm a scientist. See [projects](#) and [publications](#) below. I've been a Wikipedian since 2008. I mostly build tools and run studies, but I make edits where I can. In 2011, I started working with the Wikimedia Foundation as a research scientist. This is

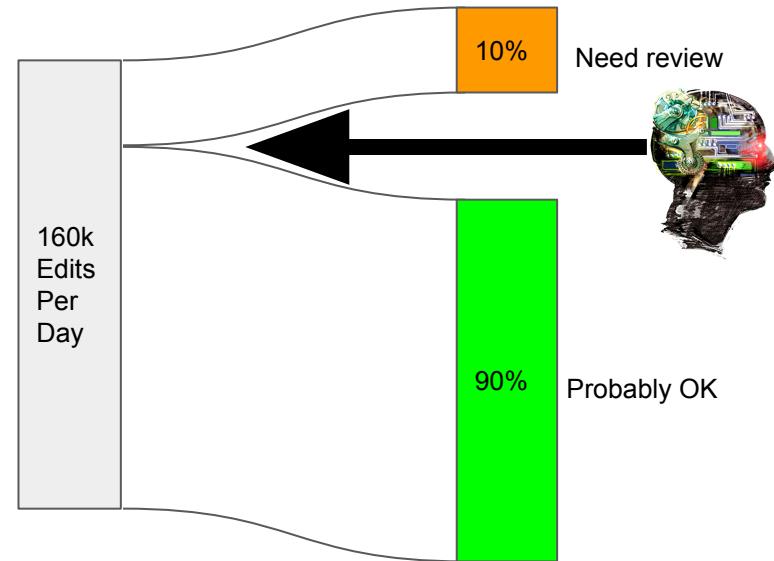
My work

My job is to build understanding about and support for the socio-technical fabric of the Wikimedia movement. I tend to focus on our computer mediated spaces (Wikipedia, Commons, Wikidata, Wikisource, etc.) and quality dynamics (patrolling, curation,

Outline

Outline

1. ORES' vision: Efficiency and innovation



Outline

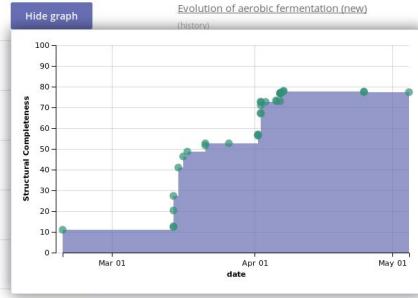
1. ORES' vision: Efficiency and innovation

2. Appropriation and reflection

- Wikidata's “Report mistakes” page
- PatruBOT's bad behavior
- What do you mean, “quality”?



PatruBOT está **detenido de forma indefinida** desde el 27 de marzo de 2018, debido al número de falsos positivos y la imposibilidad de resolverlos a corto plazo. Según el tiempo disponible, en el futuro podría ser reactivado con un nuevo algoritmo o si ORES facilita que sea más efectivo, en función también del interés que pueda tener la comunidad.



Improvements [edit]

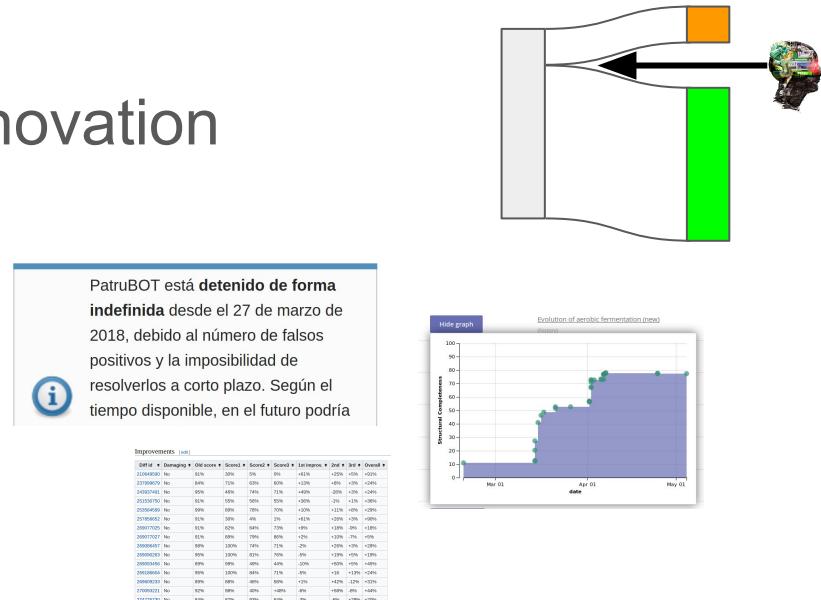
Diff id	Damaging	Old score	Score1	Score2	Score3	1st improv.	2nd	3rd	Overall
210649590	No	91%	30%	5%	0%	+61%	+25%	+5%	+91%
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269077025	No	91%	82%	64%	73%	+9%	+18%	-9%	+18%
269077027	No	91%	89%	79%	86%	+2%	+10%	-7%	+5%
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269090383	No	95%	100%	81%	76%	-5%	+19%	+5%	+19%
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270093221	No	92%	98%	40%	+48%	-6%	+58%	-8%	+44%
274775730	No	84%	87%	93%	64%	-3%	-6%	+29%	+20%

Outline

1. ORES' vision: Efficiency and innovation

2. Appropriation and reflection

3. Discussion

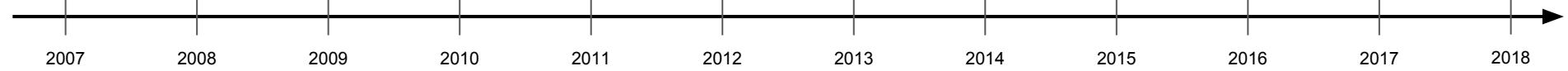


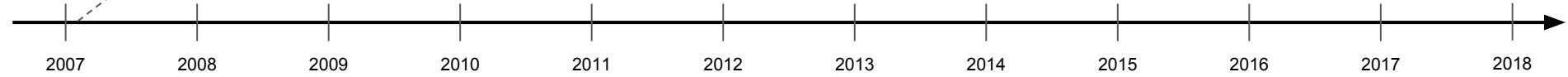
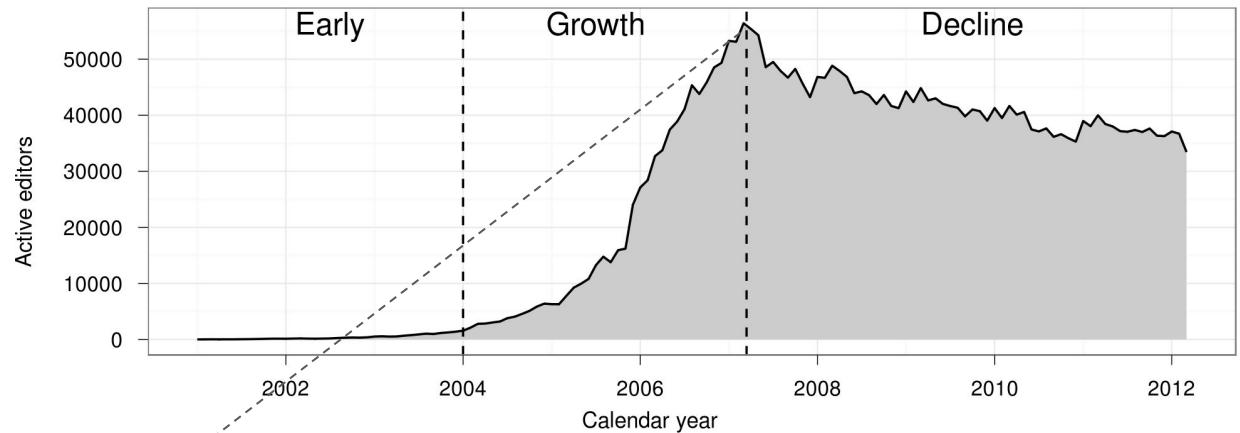
Part 1: ORES' vision

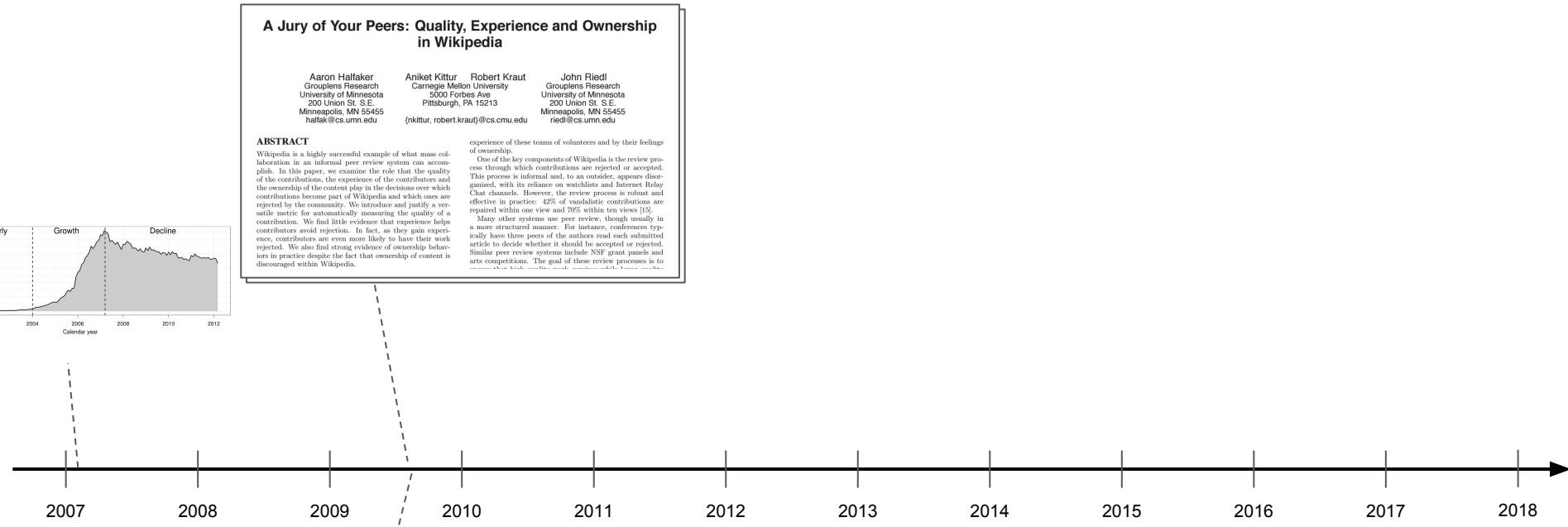
What's ORES?

~~What's ORES?~~

Why is ORES?





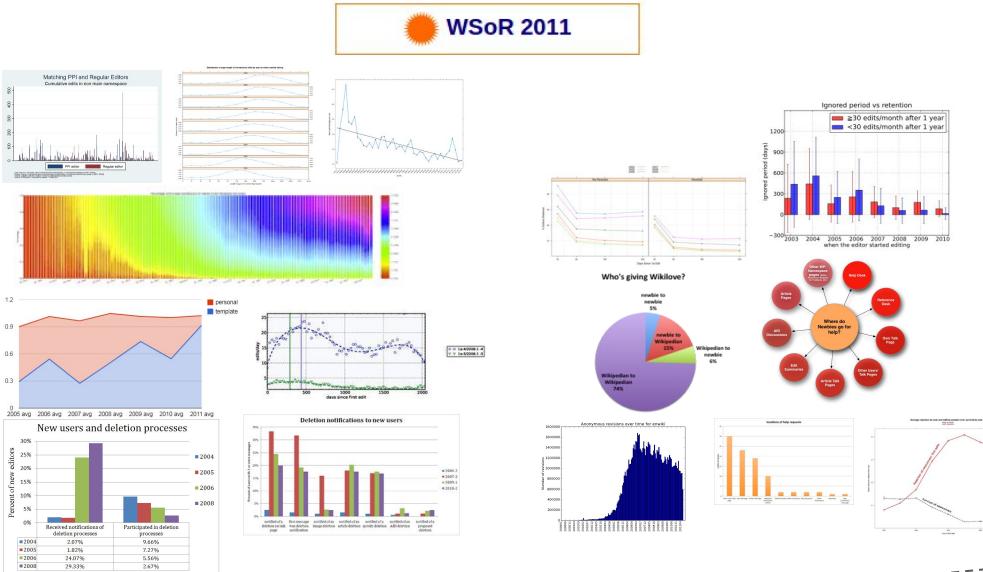
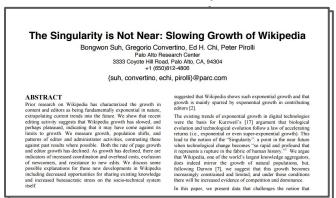
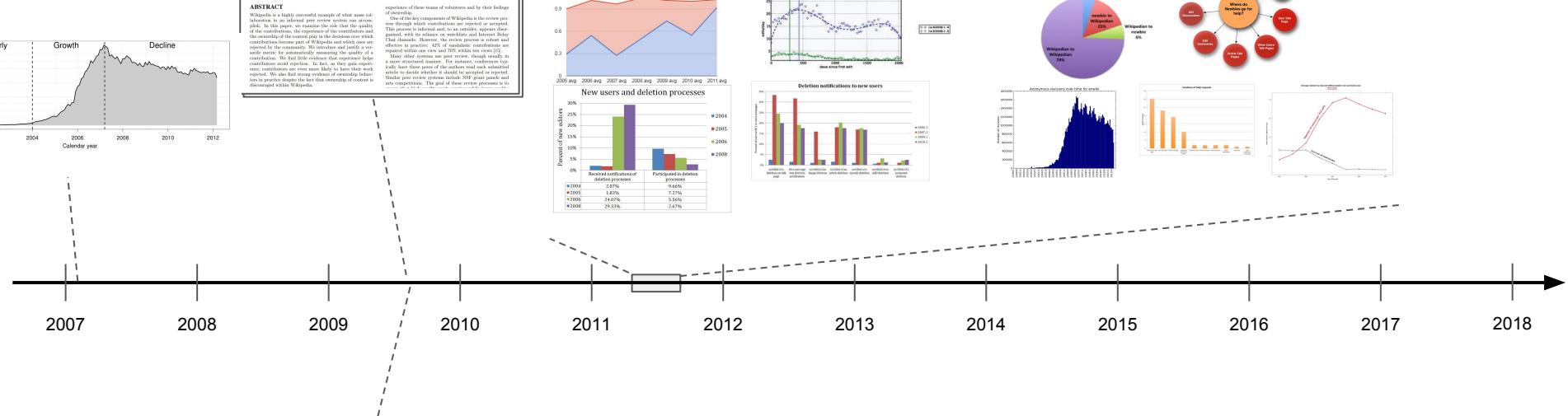


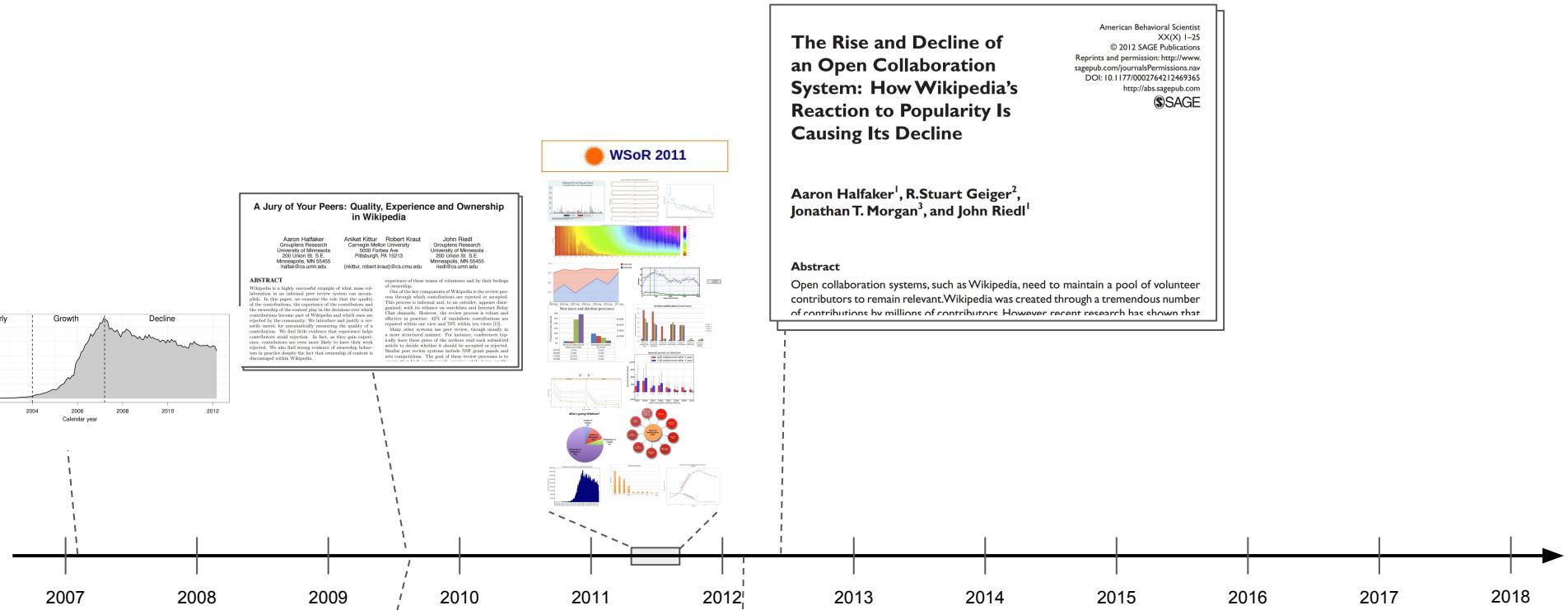
suggested that Wikipedia shows such exponential growth and that growth is mainly spurred by exponential growth in contributing editors [2].

The exact trends of exponential growth in digital technologies were the basis for Kurzweil's [17] argument that biological evolution and technological evolution follow a law of accelerating returns (i.e., exponential or even super-exponential growth). This lead to the prediction of the singularity, a point in time when technological change becomes "so rapid and profound that it appears to us as non-linear, asazo much more rapid than exponential growth".

While Wikipedia is one of the world's largest knowledge aggregators, does indeed mirror the growth of natural populations, but, following the singularity argument, growth in the future will be increasingly constrained and limited, and under those conditions there will be increased evidence of competition and dominance.

In this paper, we present data that challenges the notion that





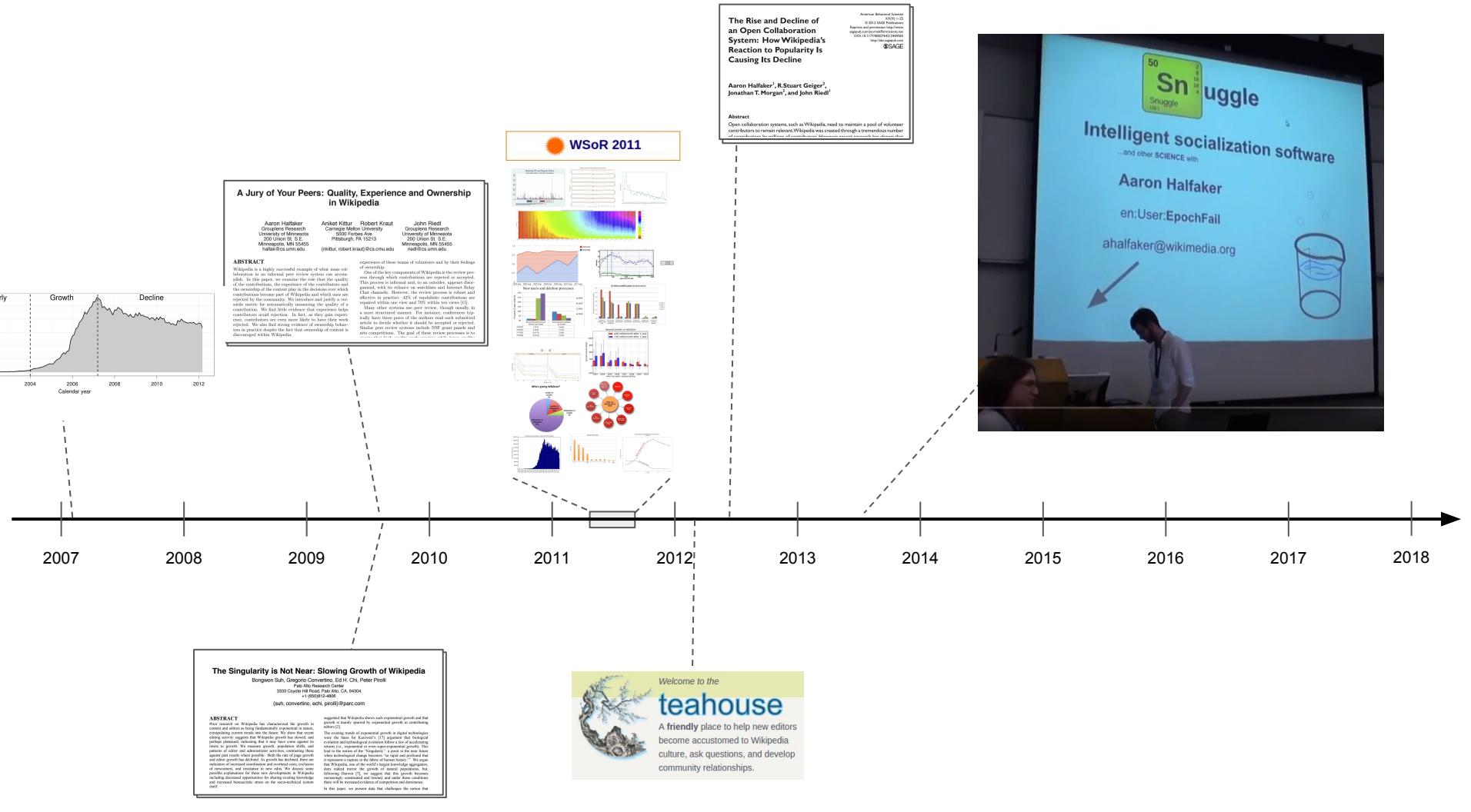
The Rise and Decline of an Open Collaboration System: How Wikipedia's Reaction to Popularity Is Causing Its Decline

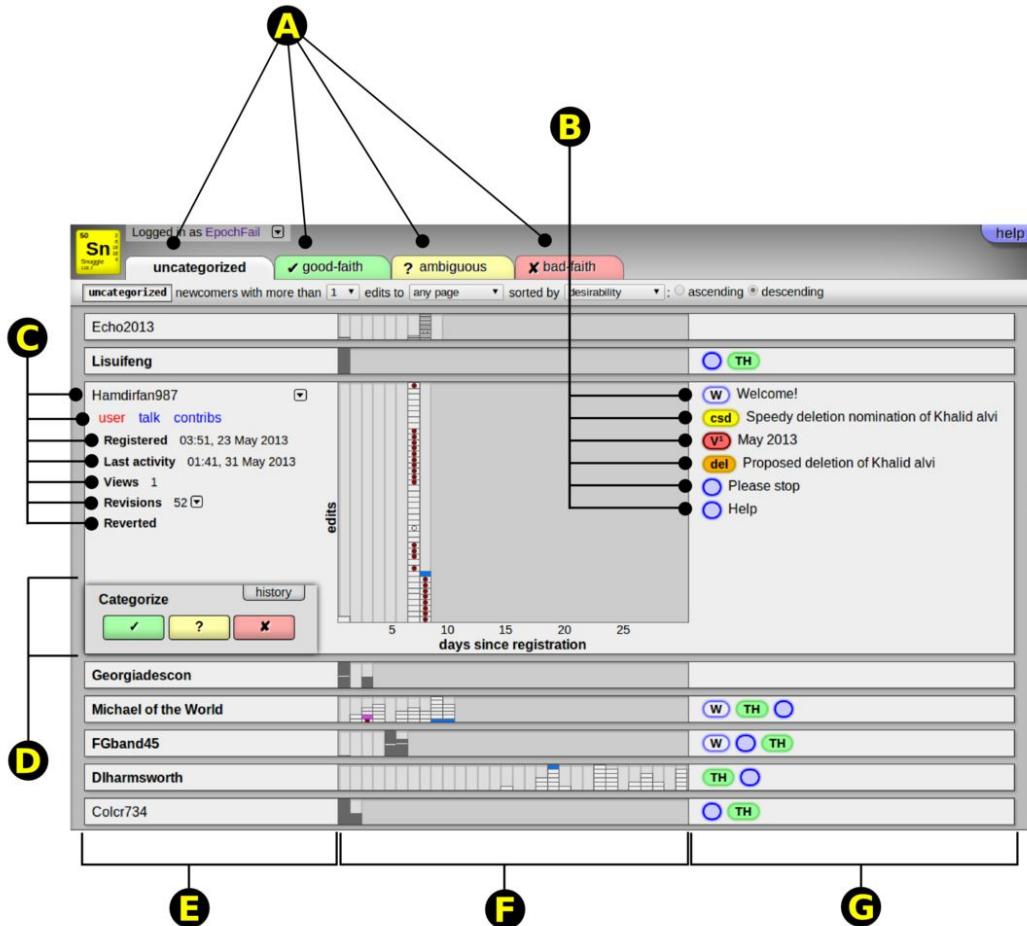
American Behavioral Scientist
XX(X) 1–25
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DOI: 10.1177/0002764212469365
<http://abs.sagepub.com>

Aaron Halfaker¹, R. Stuart Geiger², Jonathan T. Morgan³, and John Riedl¹

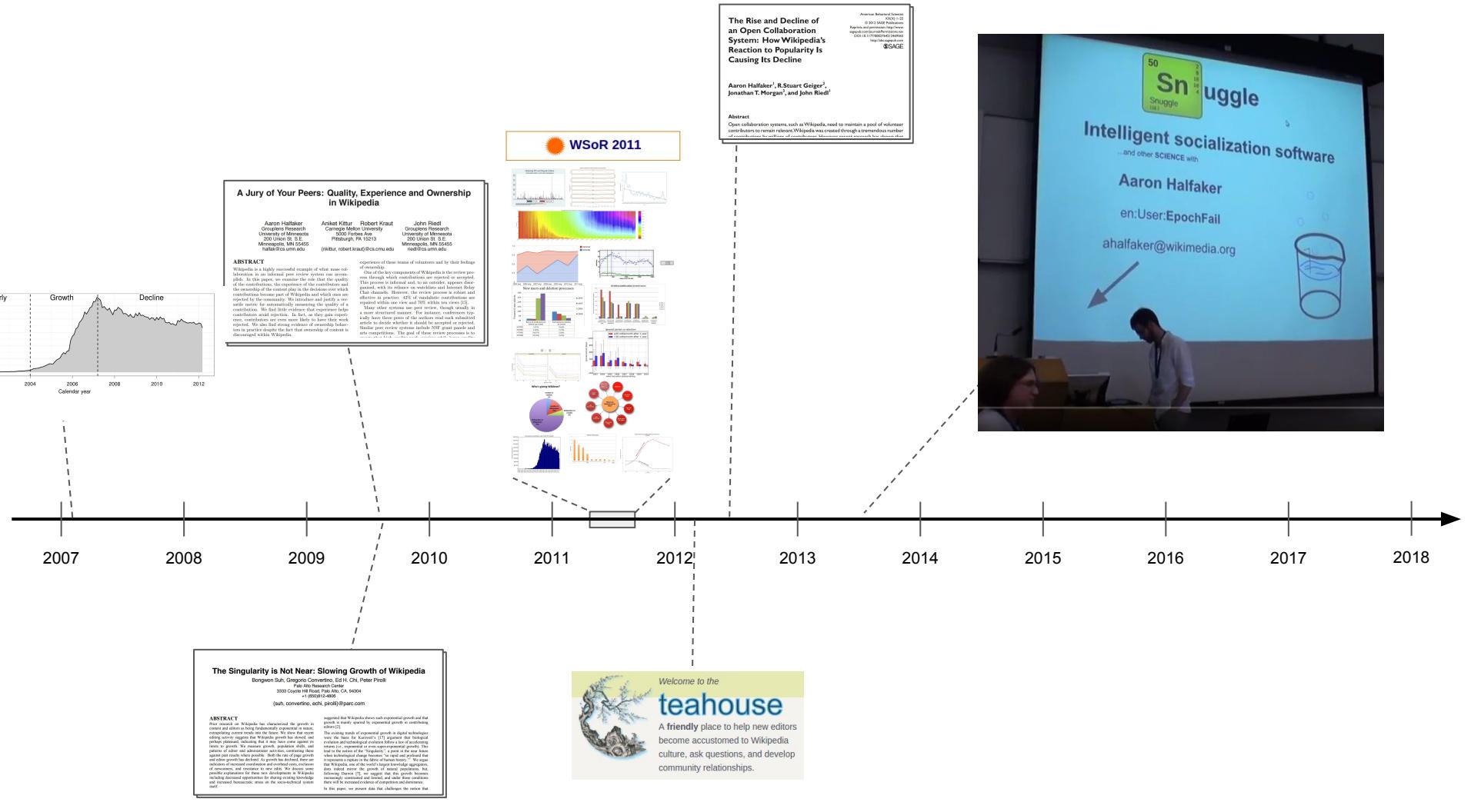
Abstract

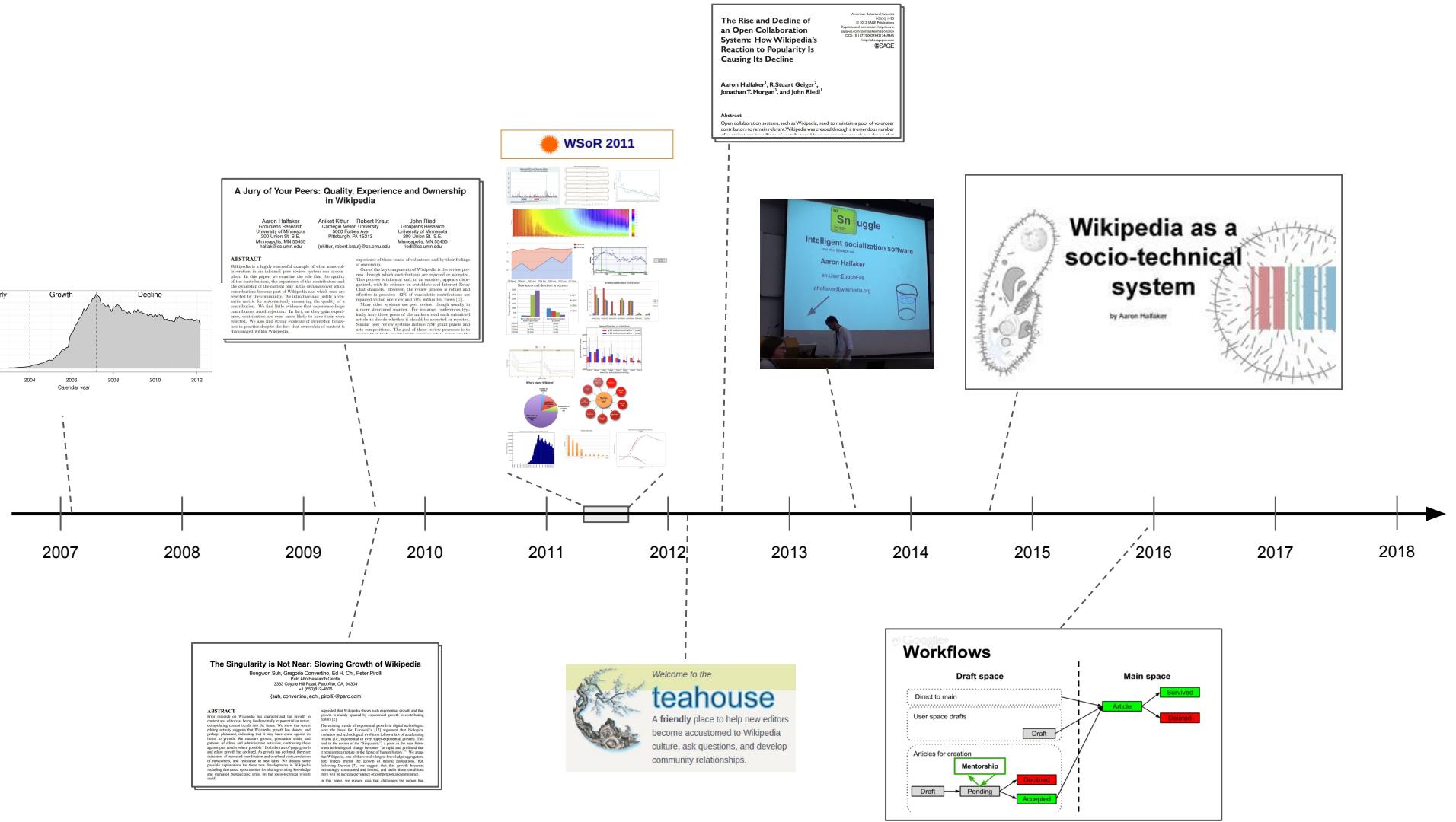
Open collaboration systems, such as Wikipedia, need to maintain a pool of volunteer contributors to remain relevant. Wikipedia was created through a tremendous number of contributions by millions of contributors. However, recent research has shown that



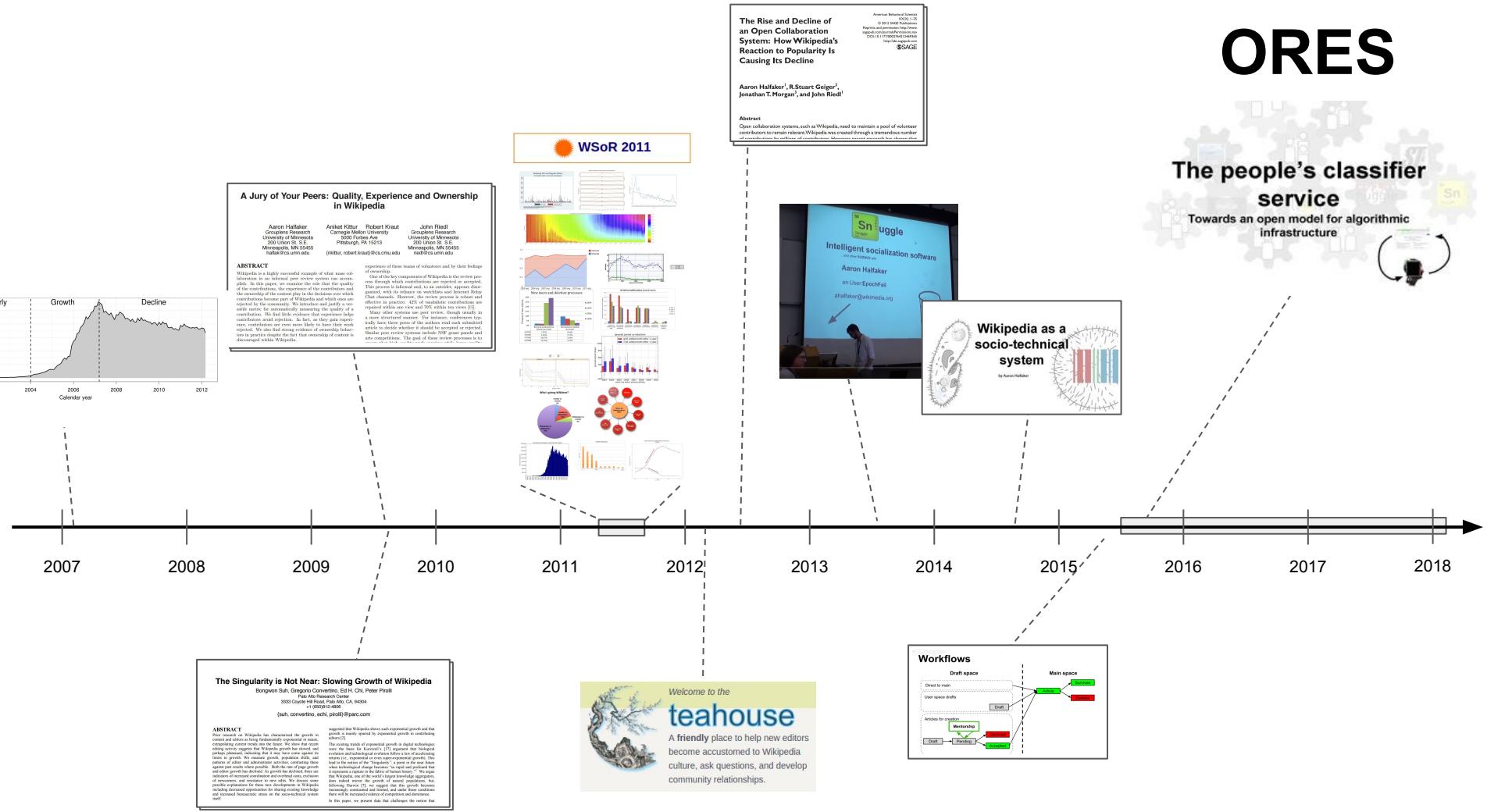


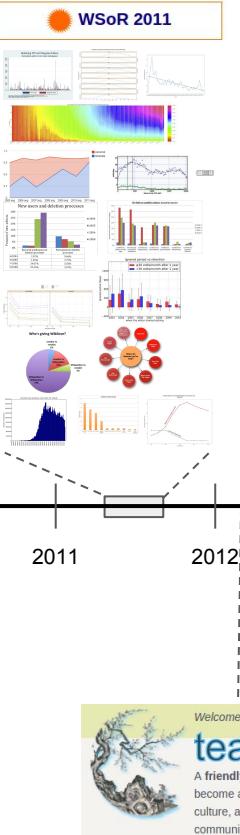
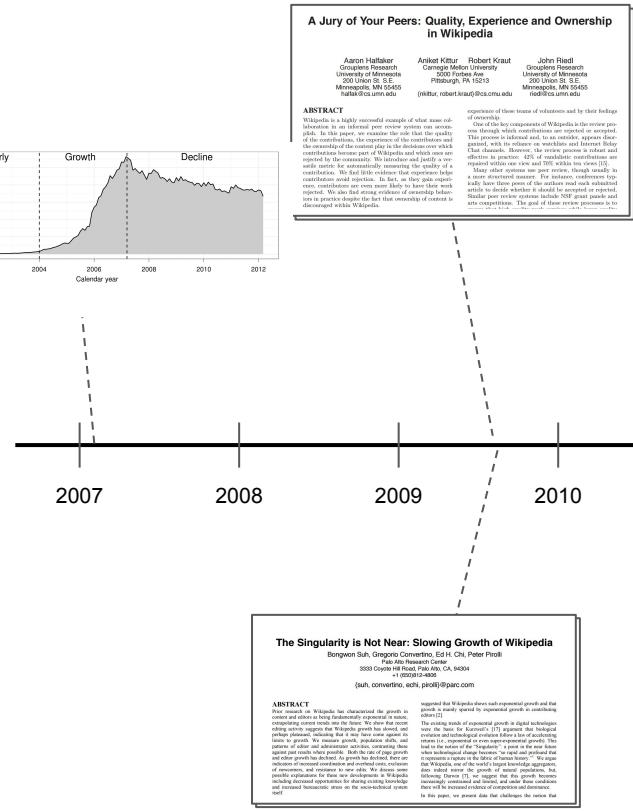
[Snuggle_UI.png](#) (Aaron Halfaker, CC-BY-SA 3.0)



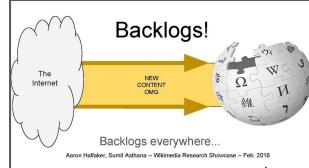


ORES



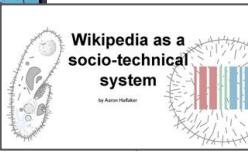


ORES



The people's classifier service

Towards an open model for algorithmic infrastructure

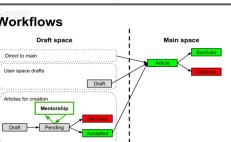


Building Automated Vandalism Detection Tools for
Wikidata

largely neutralities of the paper. These conservative positions were reflected in the editor's choice of stories. Similar concern about quality control had been expressed by the editor of the *Winnipeg Free Press*, who had recently been asked to leave his post. The editor of the *Winnipeg Free Press* had been asked to leave his post because of his opposition to the new Canadian constitution. The editor of the *Winnipeg Free Press* had been asked to leave his post because of his opposition to the new Canadian constitution. The editor of the *Winnipeg Free Press* had been asked to leave his post because of his opposition to the new Canadian constitution.



6 / 2017



English Wikipedia Quality Dynamics

Deploying and maintaining AI in a socio-technical system

Aaron Halfwerk

References

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- https://meta.wikimedia.org/wiki/Research:Wikimedia_Summer_of_Research_2011
- <https://meta.wikimedia.org/wiki/Research:Teahouse>
- Halfaker, A., Geiger, R. S., Morgan, J. T., & Riedl, J. (2012). The rise and decline of an open collaboration system: How Wikipedia's reaction to popularity is causing its decline. *American Behavioral Scientist*, 0002764212469365.
- <https://www.youtube.com/watch?v=bwMBLrAHJLM> (Snuggle @ Wikimania 2013)
- https://www.mediawiki.org/wiki/File:Wikimedia_Research_%26_Data_Showcase_-_February_2014.webm (Wikipedia article creation analysis)
- <https://www.youtube.com/watch?v=AUupsnvV1oA#t=35m26s> (Articles for Creation workflow analysis)
- <https://www.youtube.com/watch?v=-We4GZbH3lw#t=34m10s> (Wikipedia as a socio-technical system “The Paramecium Talk”)
- <https://www.youtube.com/watch?v=Hj7o5d-OEis#t=3m25s> (ORES -- The people's classifier service)
- <https://www.youtube.com/watch?v=nmrlu5qTgyA#t=1m15s> (The Keilana Effect -- English Wikipedia quality dynamics)
- <https://www.youtube.com/watch?v=rsFmqYxt9w#t=29m40s> (Deploying and maintaining AI in a socio-technical system. Lessons learned)
- https://www.youtube.com/watch?v=fpmRWCE7F_I#t=30m05s (Backlogs -- Backlogs everywhere)

Why is ORES?

- Wikipedia has socio-technical problems with newbies.



Why is ORES?

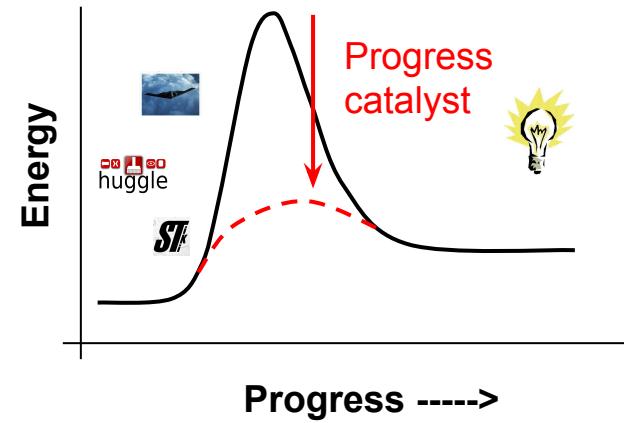
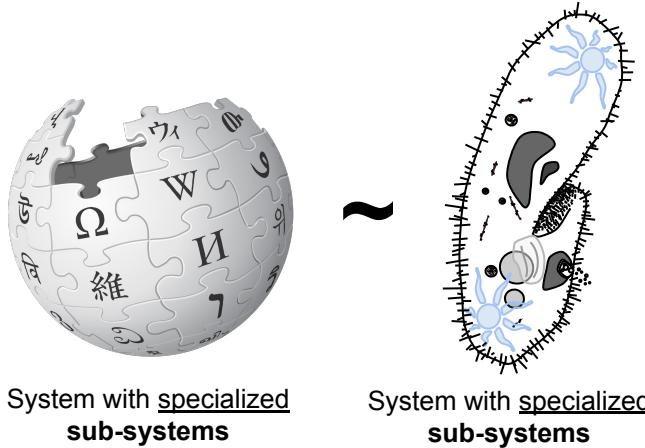
- Wikipedia has socio-technical problems with newbies.
- Many of Wikipedia's problems are due to its scale.



https://commons.wikimedia.org/wiki/File:Flickr_-_Official_U.S._Navy_Imagery_-_Sailor%27s_daughter_operates_a_fire_hose_with_crew_member_assistance.jpg

Why is ORES?

- Wikipedia has socio-technical problems with newbies.
- Many of Wikipedia's problems are due to its scale.
- ORES is an attempt to address both at the same time.
 - ... in a way that accounts for the complex dynamics of Wikipedia.



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ORES -- The people's classifier service

<https://www.youtube.com/watch?v=Hj7o5d-OEis#t=3m25s>

Why is ORES?

- Wikipedia has socio-technical problems with newbies.
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What is ORES?

The machine classifier



<https://commons.wikimedia.org/wiki/File:Artificial.intelligence.jpg>
Public Domain

The machine classifier

is_anon
chrs_added
chrs_removed
cust_comment
repeated_chrs
longest_token
badwords_added



The machine classifier

is_anon
chrs_added
chrs_removed
cust_comment
repeated_chrs
longest_token
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The machine classifier

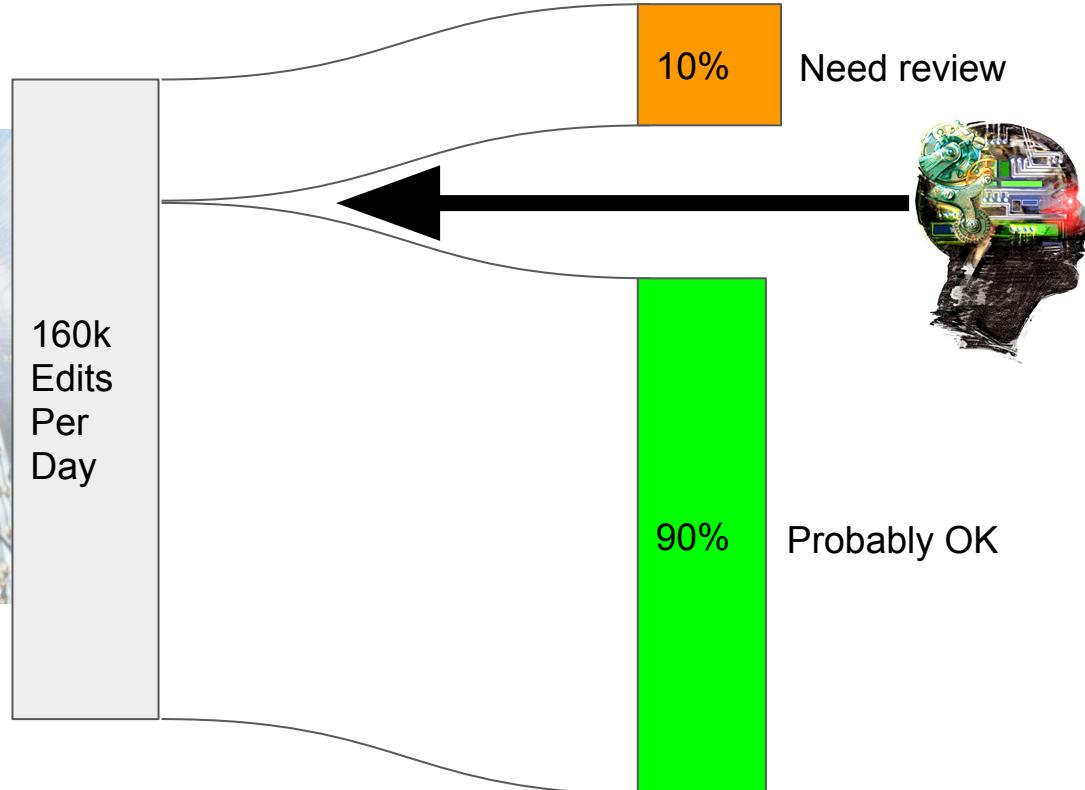
is_anon
chrs_added
chrs_removed
cust_comment
repeated_chrs
longest_token
badwords_added



Good.

BAD!

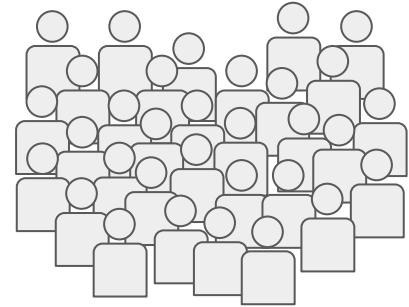
Counter vandalism



Without ORES: Reviewing 160k edits per day...

267 Hours

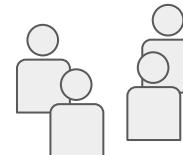
(33 people * 8 hours)



With ORES: Reviewing 16k edits per day...

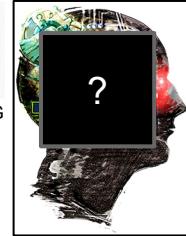
27 Hours

(4 people * 8 hours)





User:ClueBot NG





User:ClueBot NG

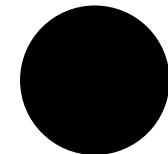


Wikipedia is a firehose ✓

Bad edits must be reverted ✓

Minimize effort wasted on
quality control work ✓

Socialize & train the newcomers! ✓





User:ClueBot NG

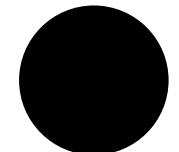


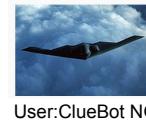
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- 20+ research papers on Wikipedia damage detection
- Machine classification not part of standard CS degree
- Many volunteer tool devs don't have a CS degree anyway.

Labor intensive, performance considerations, etc.

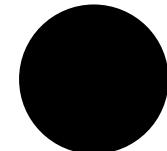


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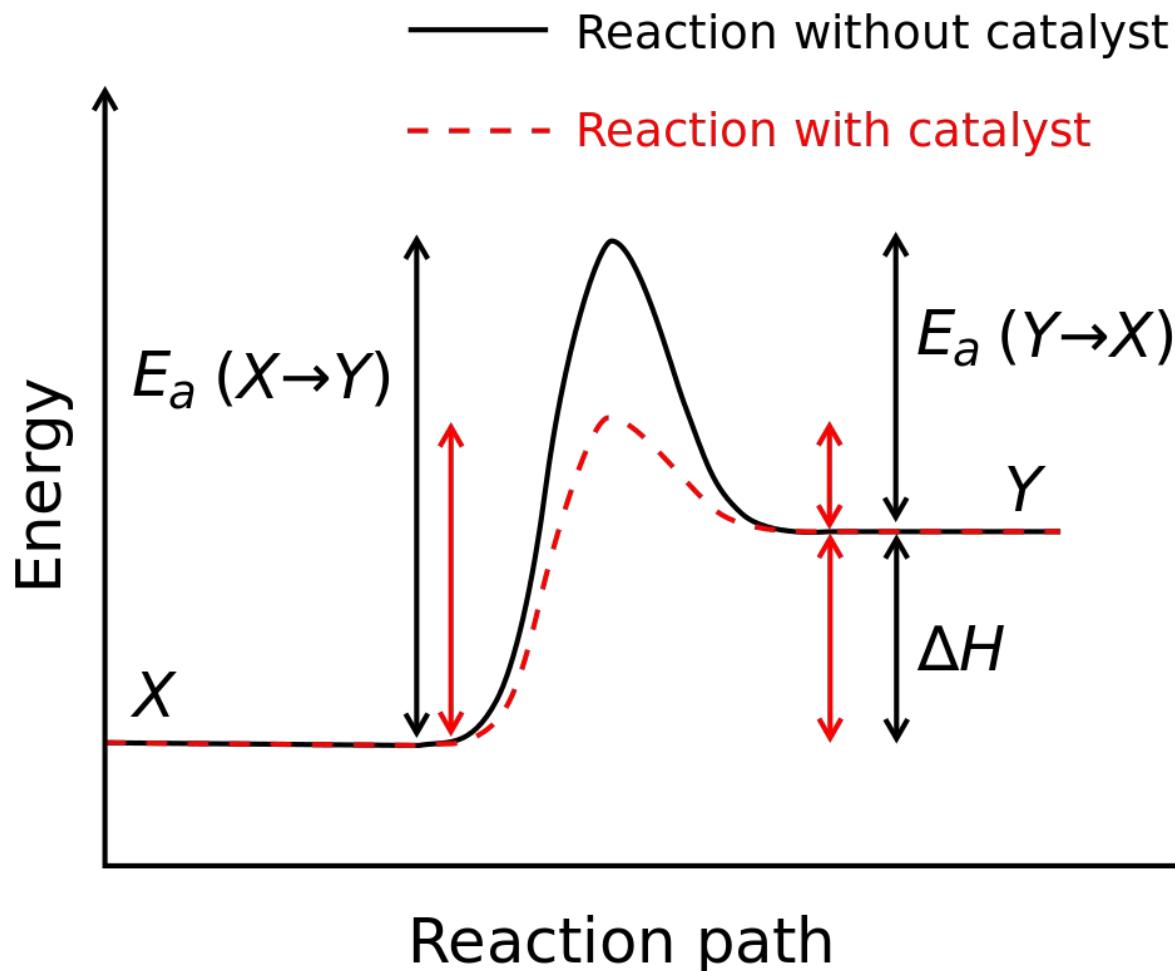


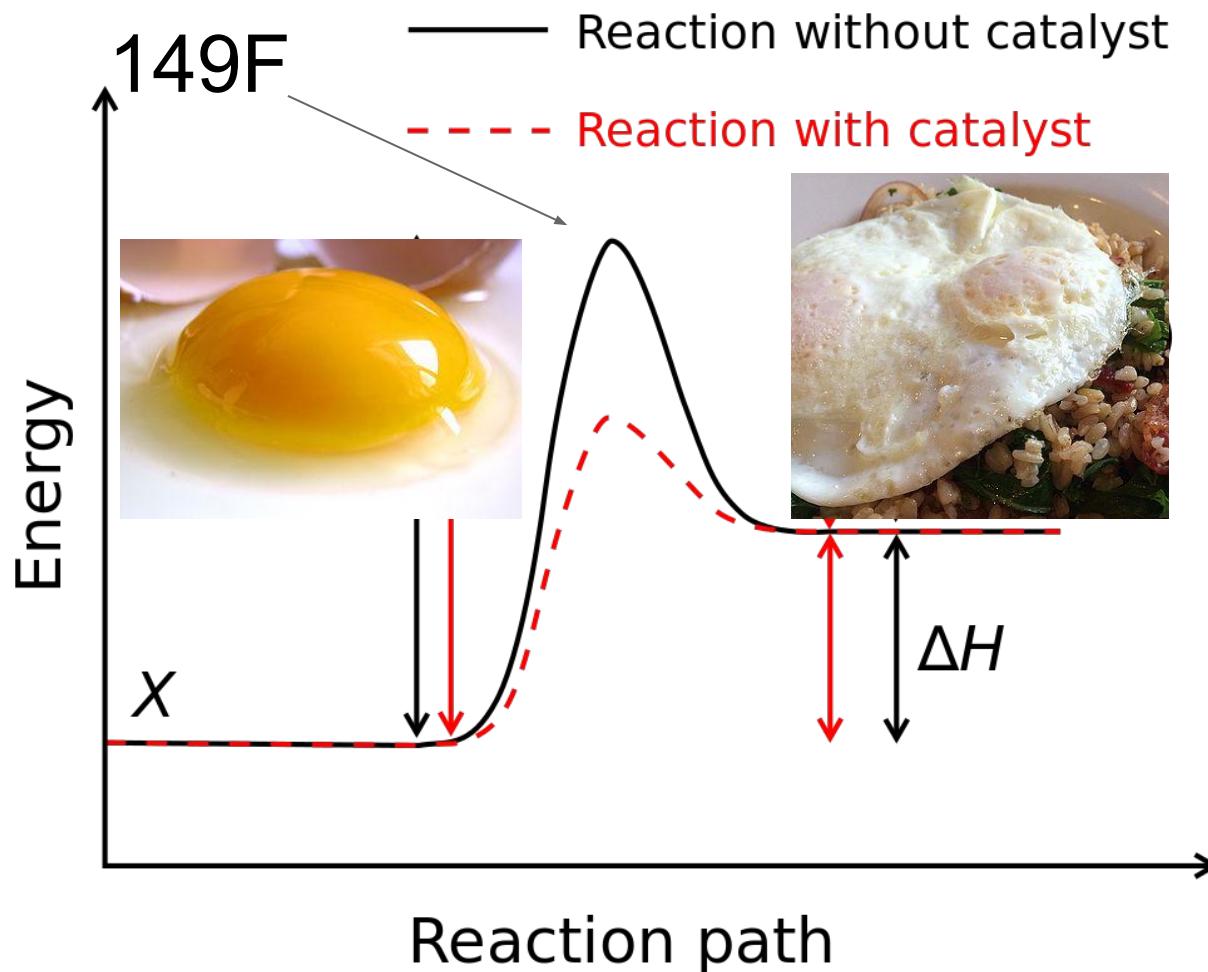
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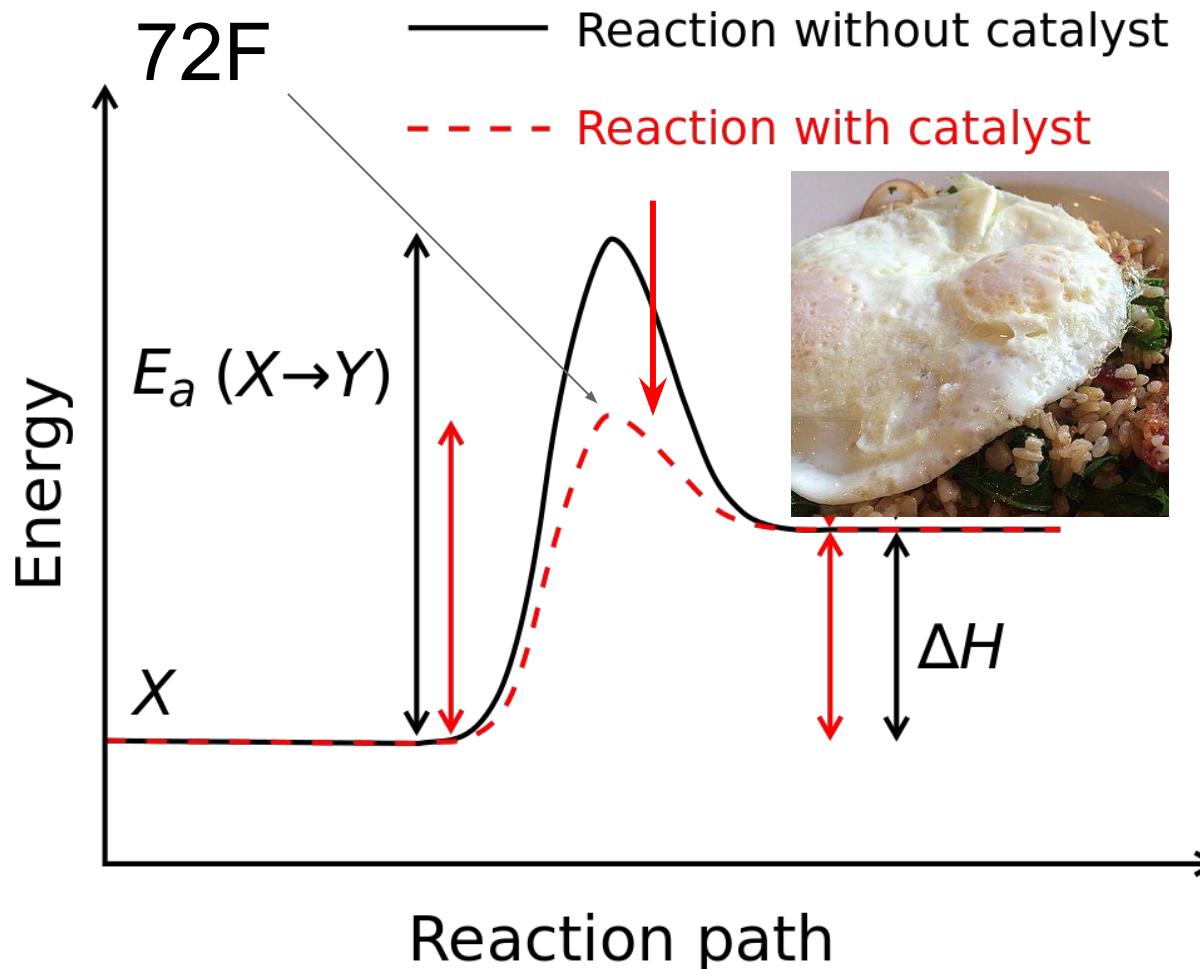
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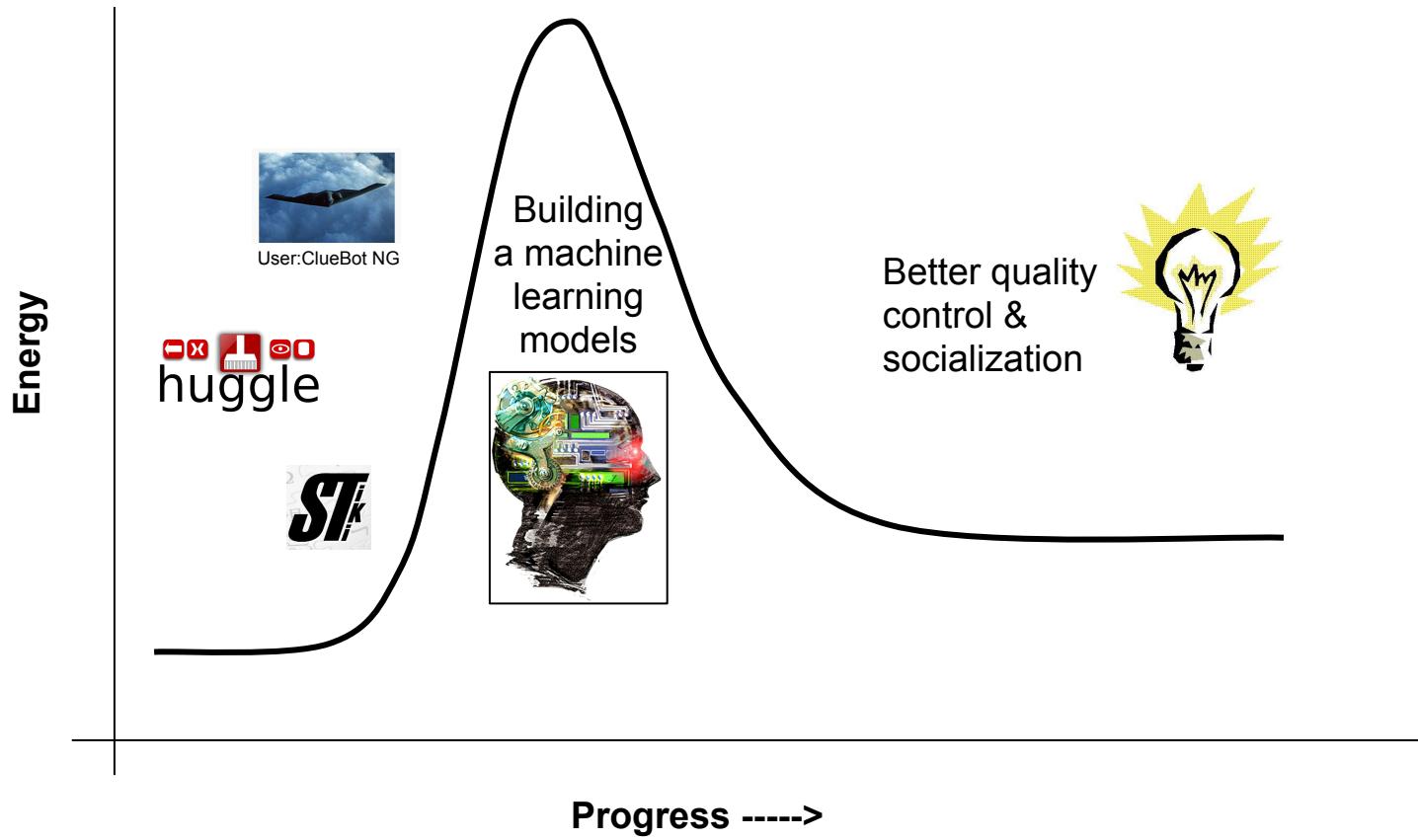


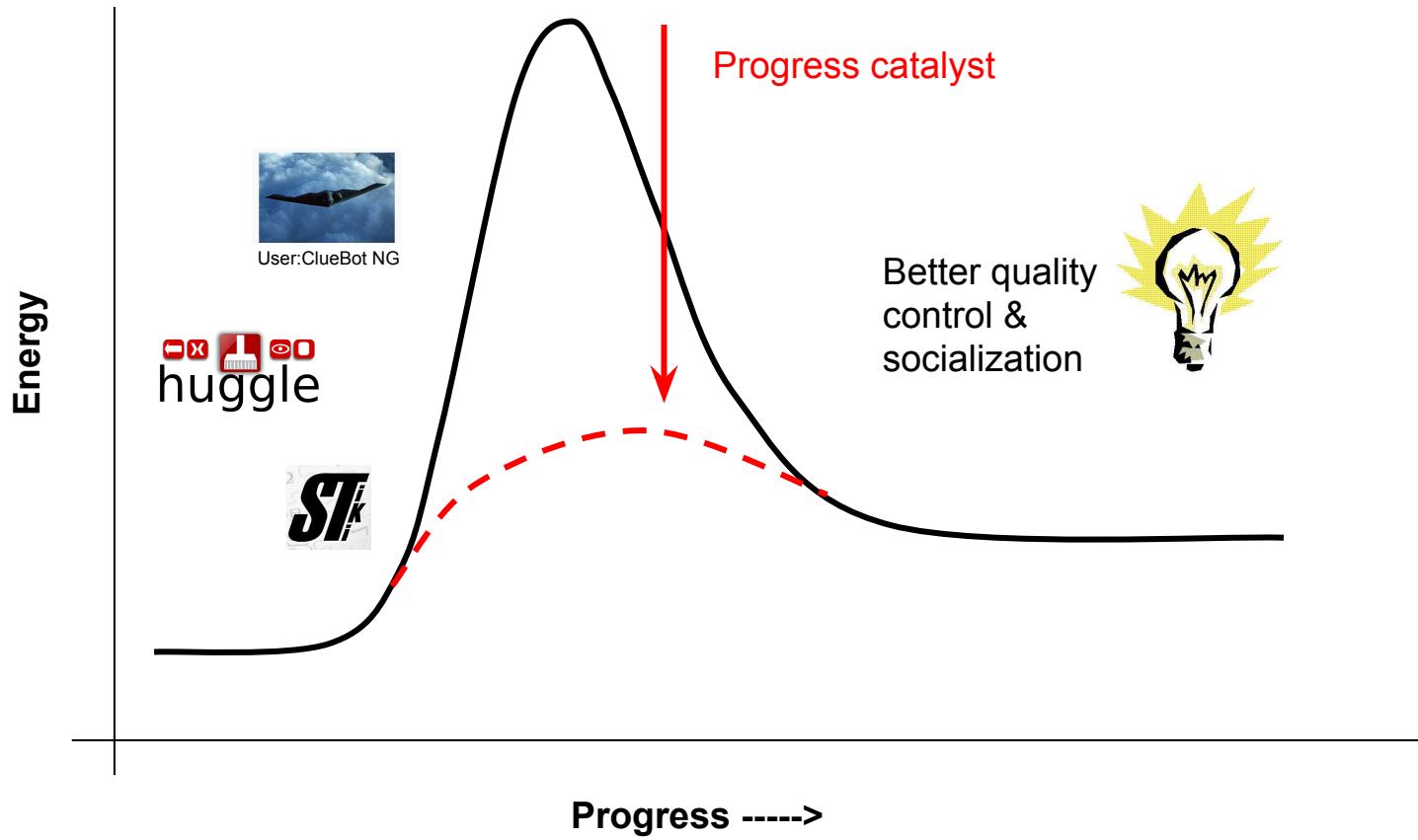
Authored by computer scientists with extensive skills in machine learning and distributed systems.

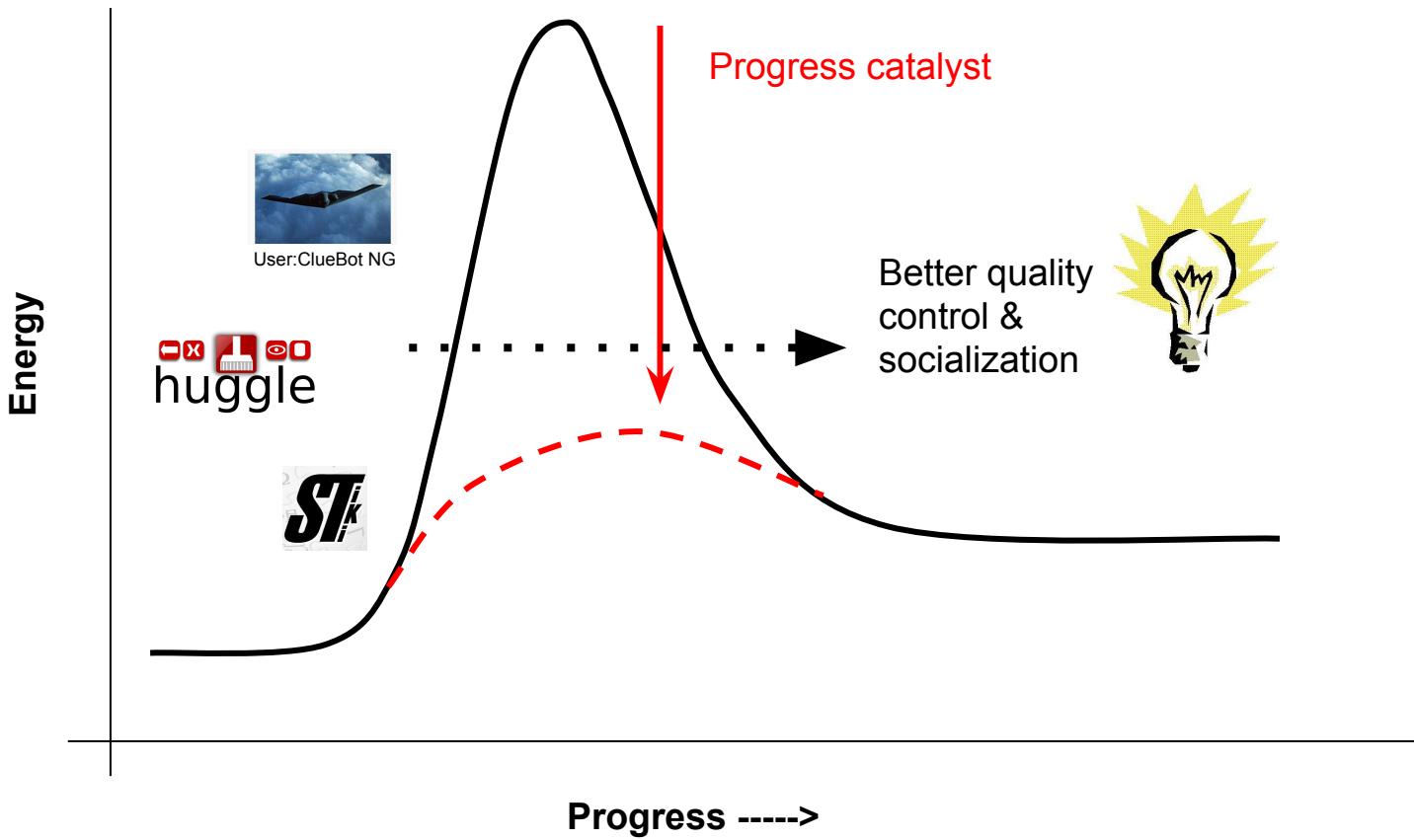










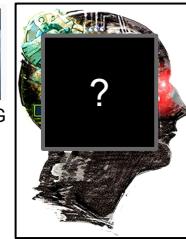


Scoring Platform

 huggle



User:ClueBot NG



 Stik



Scoring Platform



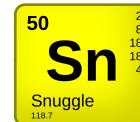
User:ClueBot NG



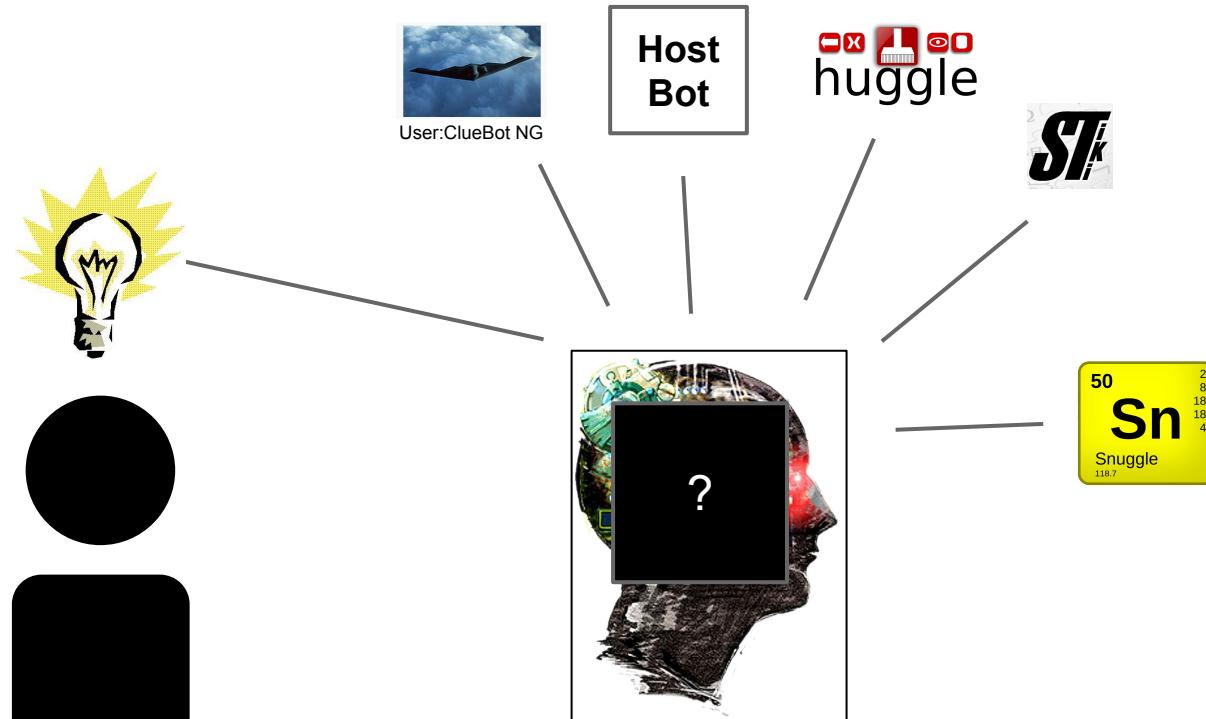
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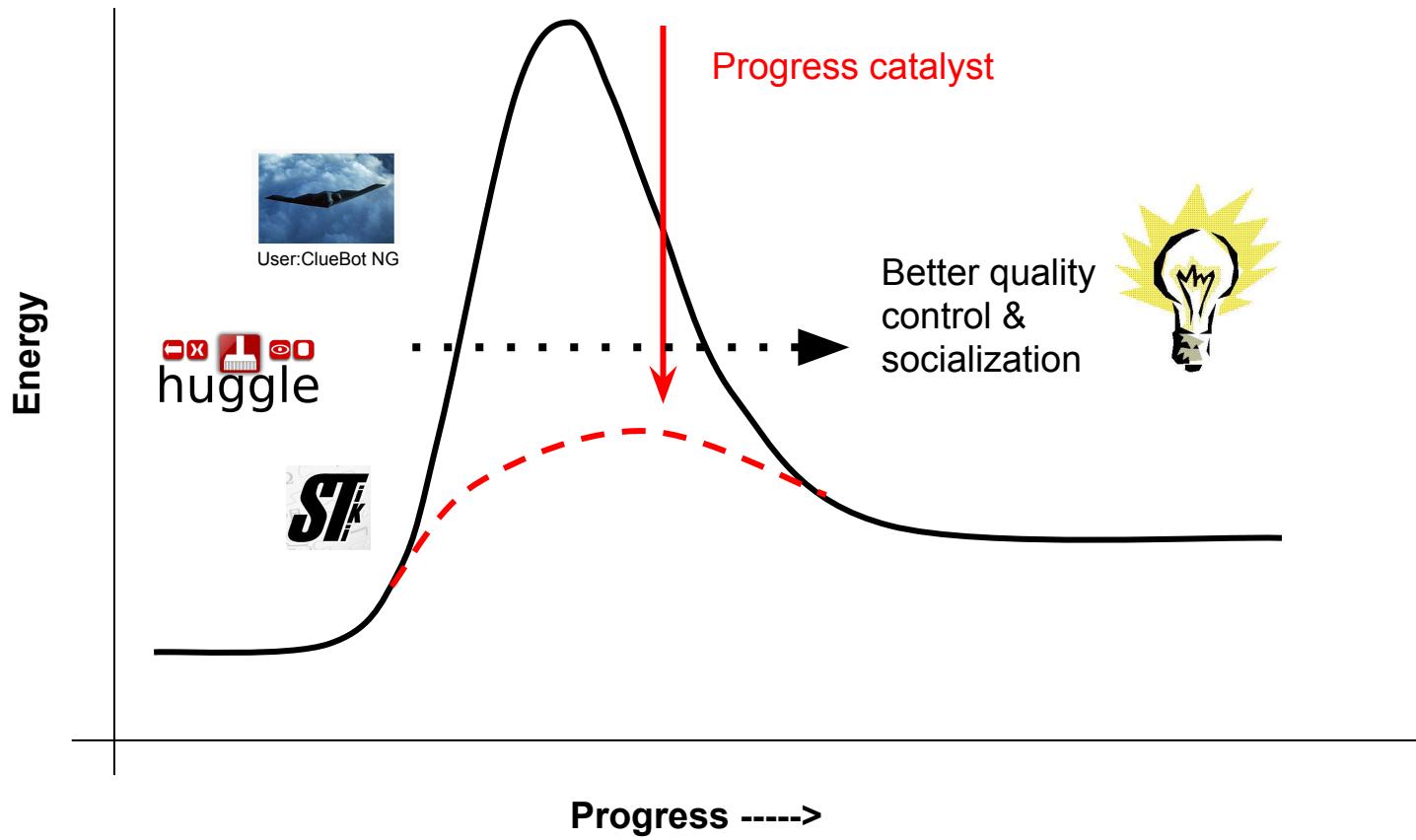


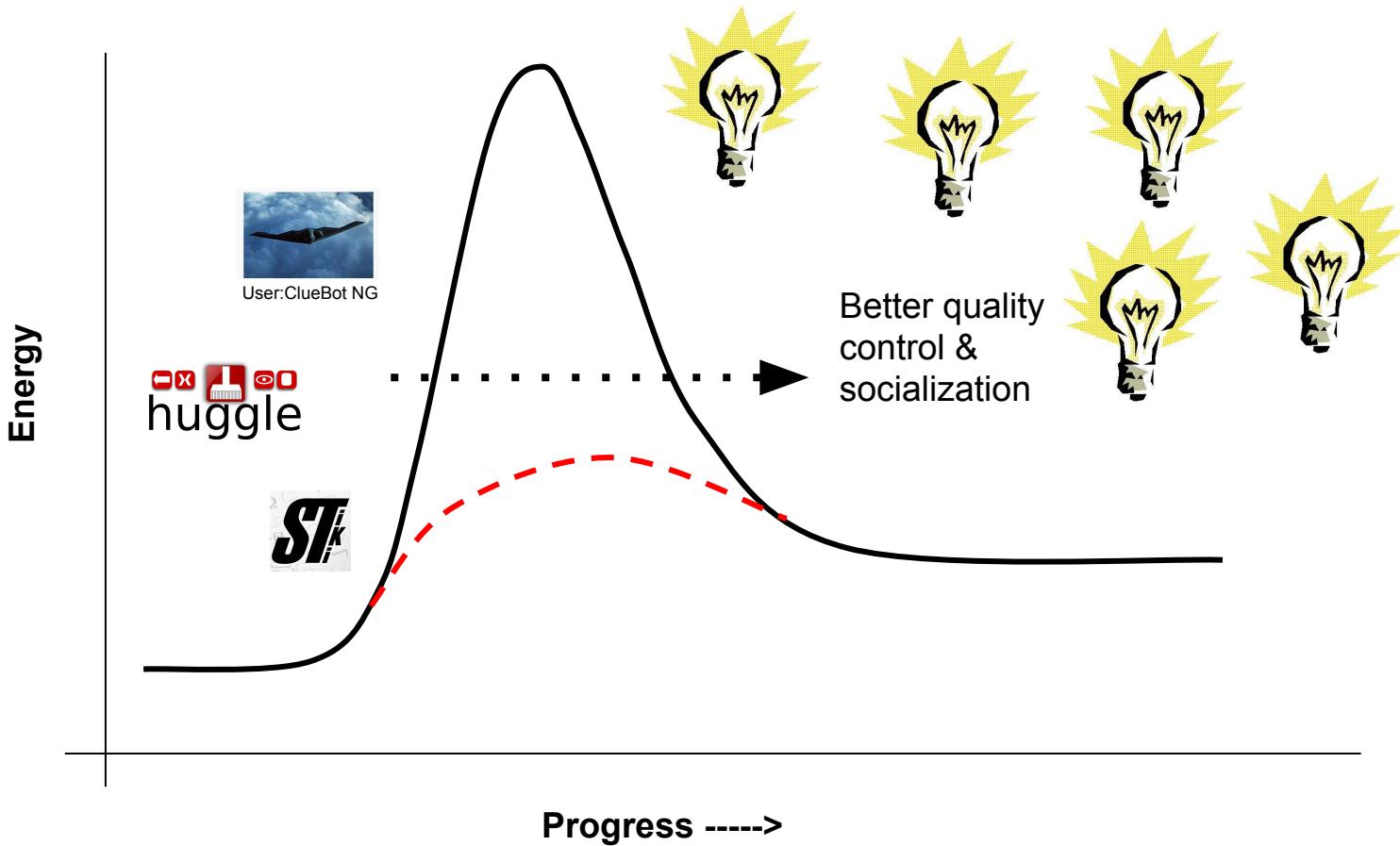
Host
Bot



Scoring Platform







Part 2: Case studies

Part 2: Case studies

- Wikidata false-positives
- PatruBOT's banning
- Structural completeness



Wikidata:ORES/Report mistakes

< Wikidata:ORES

List [\[edit\]](#)

List here. Please include revision id (or a link to the diff) and why you think it's misclassified. Thanks :) [Amir \(talk\)](#) 21:49, 5 November 2015 (UTC)

[Special:Diff/269077027](#) - This is the deletion of a page on a local wiki. That can't be vandalism as it's something only a local admin can do. When a page is deleted, the sitelink needs to be removed to. In this case it's an automated deletion of the sitelink because of the page being deleted and not a user manually removing a link. [Mbch331 \(talk\)](#) 22:10, 5 November 2015 (UTC)

Done Added in PR#13, it may take a while to work in wikidata [Amir \(talk\)](#) 16:58, 6 November 2015 (UTC)

[Special:Diff/269077025](#) - Same as above. [Mbch331 \(talk\)](#) 22:10, 5 November 2015 (UTC)

Done Same as above

[Special:Diff/269086457](#) - We do get a lot of vandalism of Commons category statements, but in this case, the edit is fixing the way the category name was entered (changing "Category:Name" to "Name" is also fine). - [Nikki \(talk\)](#) 23:46, 5 November 2015 (UTC)

I'm trying to find out best way to include them. [Amir \(talk\)](#) 16:58, 6 November 2015 (UTC)

[Special:Diff/251530750](#) - This is just adding a reference, it doesn't look suspicious to me. - [Nikki \(talk\)](#) 23:46, 5 November 2015 (UTC)

Same as above [Amir \(talk\)](#) 16:58, 6 November 2015 (UTC)

[Special:Diff/243937491](#) - This is just adding a sitelink, it doesn't look suspicious to me. There are quite a few more similar sitelink additions on [Triton \(Q3359\)](#) which are marked. - [Nikki \(talk\)](#) 23:46, 5 November 2015 (UTC)

Again [Amir \(talk\)](#) 16:58, 6 November 2015 (UTC)

[Special:Diff/269090263](#) - Here I'm undoing bad edits. :P - [Nikki \(talk\)](#) 23:59, 5 November 2015 (UTC)

Done Added in PR#13, it may take a while to work in wikidata [Amir \(talk\)](#) 16:58, 6 November 2015 (UTC)

Main page

Community portal

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Create a new item

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In other projects

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Related changes

RTRC

Special pages

Permanent link

Page information

Wikidata item

In Wikipedia

Insights

- Client edits can't be “damaging”
- Merge edits are not reverts
- Vandalism to commons categories

Improvements [edit]

Diff id	Damaging	Old score	Score1	Score2	Score3	1st improv.	2nd	3rd	Overall
210649590	No	91%	30%	5%	0%	+61%	+25%	+5%	+91%
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253584599	No	99%	89%	78%	70%	+10%	+11%	+8%	+29%
257856652	No	91%	30%	4%	1%	+61%	+26%	+3%	+90%
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270093221	No	92%	98%	40%	+48%	-6%	+58%	-8%	+44%
274775730	No	84%	87%	93%	64%	-3%	-6%	+29%	+20%

From [\[5\]](#) and [\[6\]](#). I'll check to improve it [Amir \(talk\)](#) 23:04, 4 December 2015 (UTC)

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Insights

- False positive reporting is very valuable to model engineering
- Reporting improvements builds trust

PatruBOT ~ ClueBot NG

Spanish Wikipedia

English Wikipedia

PatruBOT ~ ClueBot NG

Spanish Wikipedia

English Wikipedia



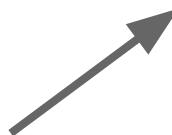
Too Many Mistakes!



PatruBOT está **detenido de forma indefinida** desde el 27 de marzo de 2018, debido al número de falsos positivos y la imposibilidad de resolverlos a corto plazo. Según el tiempo disponible, en el futuro podría ser reactivado con un nuevo algoritmo o si ORES facilita que sea más efectivo, en función también del interés que pueda tener la comunidad.

Parada de PatruBOT [editar código]

Comunico que acabo de detener indefinidamente a PatruBOT. He visto que se han mantenido las quejas, y dado que anuncié esa posibilidad y que por ahora apenas si tengo tiempo de revisar (bastante por detrás) mi lista de seguimiento y de estar atento a IRC, creo que es lo más prudente. Notifico a [Mar del Sur](#) y [Ganímedes](#). Según mi tiempo disponible es posible que reconsideré en un futuro una reactivación con un nuevo algoritmo o si ORES facilita que sea más efectivo, en función también del interés que pueda tener la comunidad. En este sentido, leeré también aquello que se quiera comentar en este hilo. Saludos, - [José Emilio –jem–](#) *Tú dirás...*
09:34 27 mar 2018 (UTC)



Yo me desentendí hace bastante del asunto, pero gracias por el aviso. --Saludos. [Ganímedes](#) 12:14 27 mar 2018 (UTC)

Una vez corregidos, al menos en parte, los problemas debería reactivarse, creo que es positivo. --[PePeEfe](#) ([discusión](#)) 13:11
27 mar 2018 (UTC)

Aunque cometiera (bastantes) errores, ayudaba muchísimo. De todos modos, si es la decisión de su operador, lo respetaré y aceptaré, por supuesto. Un bot antivandalismo me parece necesario en una Wikipedia tan visitada por vándalos que se empeñan en dejar su huella aquí. Espero que algo podamos hacer, porque con los reversores o wikipedistas en general interesados en revisar los cambios recientes de los que disponemos actualmente no creo que tengamos suficiente. Un saludo cordial. --Fdo.: [Gonzalo P.M.G.](#) • 13:40 27 mar 2018 (UTC)

Considero que, a pesar de sus errores, el bot ayudaba mucho, ahora que ya no está activo los reversores tendremos una tarea ardua. Espero que lo puedas activar de nuevo pronto. Saludos. --[Chico](#)⁵¹² 13:44 27 mar 2018 (UTC)

No me extraña que lo desactive por las constantes quejas que recibe. Algunas de estas quejas proceden de usuarios que llegan para editar un tiempo limitado, pero que se quejan de que se les han borrado datos, cuando en muchos casos lo que aportan son ediciones incorrectas. ¿Comete errores? Está claro, yo también, pero no me hago a la idea del trabajo que va a dejar de hacer. Los vándalos estarán encantados, y no me extrañaría que alguno fuese precisamente el que genera quejas para conseguir esto. Un saludo. --[vanbasten_23](#) ([discusión](#))
13:55 27 mar 2018 (UTC)

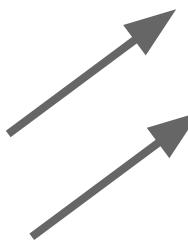
No extrañándome la decisión, que comprendo perfectamente, solo nos queda distribuirnos el trabajo lo mejor que podamos. Yo tengo marcas de seguimiento en todos los días y meses del año (efemérides), que son las páginas que patrullo continuamente. Supongo que hay otras formas de patrullar por intereses (no me veo patrullando deportes, por ejemplo). ¿Cómo se pueden implementar listas de patrullaje por categorías?.
Saludos,--[Jmrebes](#) ([déjame un mensaje aquí](#)) 14:02 27 mar 2018 (UTC)

Parada de PatruBOT [editar código]

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13:55 27 mar 2018 (UTC)

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Saludos,--[Jmrebes](#) ([déjame un mensaje aquí](#)) 14:02 27 mar 2018 (UTC)

Me atrevo a decir que el BOT tiene una tasa de error cercana al **40%**, eso implica por lógica que acertaría un 60%. Eso como en la teoría del vaso medio lleno o medio vacío se puede ver desde dos ópticas. Desde la óptica de que acierta mucho vandalismo y por ende lo evita o desde la óptica de que falla bastante y por lo tanto evita ediciones que podrían ser correctas. Es evidente que la tasa de error del bot es excesiva pero también que desactivarlo hará que el 100% de los vandalismos que sí era capaz de evitar ahora no se eviten. En todo caso yo sigo confiando en la buena y generalmente poco valorada labor de los que patrullan cambios recientes, además de la efectividad de los filtros de edición. Por lo demás, quizás algún otro compañero sea capaz de correr un bot o de colaborar con Jem en el código de Patrubot para tener algo que no necesariamente haga cientos de reversiones al día pero sí sea capaz de que las que haga sean correctas. Porque quizás el problema de PatruBOT sea ese, que quería abarcar demasiado y al final ha terminado abarcando nada. Saludos. [Bernard - *Et voilà!*](#) 14:27 27 mar 2018 (UTC)

Desde la página [Wikipedia:Mantenimiento/Revisión de errores de PatruBOT](#) saqué la estadística de cuántas reversiones del bot son correctas e incorrectas. De las 236 reversiones reportadas, 153 eran reversiones incorrectas y 83 eran reversiones correctas (un 64% de error). Aun así no lo podemos tomar como definitivo. Si alguien vandaliza una página y el bot lo revierte, lo más probable es que no reporte el error. Esa reversión es correcta, pero como nadie la reporta no quedó plasmada en este porcentaje. No estoy seguro, pero creo que una gran cantidad de las reversiones correctas reportadas eran por temas de referencias, plagios, formato, estilo, cosas que un editor novato no conoce y no se puede decir que sean vandalismo. También se pueden revisar [las contribuciones del bot](#) y con ello sacar unos resultados más precisos. Habrá que ver cómo va este tiempo sin el bot, luego puede ser reactivado si vemos que efectivamente el vandalismo es demasiado para ameritar su uso.--

[Santiago142857](#) 17:17 27 mar 2018 (UTC)

Wikipedia:Mantenimiento/Revisión de errores de PatruBOT/Análisis

< Wikipedia:Mantenimiento · Revisión de errores de PatruBOT



Esta página está destinada a analizar una muestra aleatoria de las contribuciones de PatruBOT.

Muestra aleatoria [\[editar código\]](#)

100 [\[editar código\]](#)

1. 00:39 10 feb 2018 (+283) Berenguer de Cruilles (Revertidos los cambios de 95.16.136.45 a la última edición de TheRichic)-Revirtió borrado de texto y una parte de una plantilla - Gani
2. 02:50 10 feb 2018 (-142) Unicanal (Paraguay) (Revertidos los cambios de 181.120.150.204)- revirtió agregado de texto sin fuentes - Gani
3. 02:59 10 feb 2018 (-40) Televisión digital terrestre en Paraguay (Revertidos los cambios de 181.120.150.204 a la última edición de 2800:810:55D:17C9:957F:7965:2D6C:17B4)- revierte vandalismo - Gani
4. 06:01 10 feb 2018 (+437) Sharknado 2: The Second One (Revertidos los cambios de 179.41.146.136 a la última edición de FrescoBot)- revierte vandalismo - Gani
5. 07:05 10 feb 2018 (-407) Colorina (telenovela peruana) (Revertidos los cambios de 181.66.165.246 a la última edición de 179.7.208.250)- revierte edición que cambia apellidos, sin fuentes (posible vandalismo) - Gani
6. 10:53 10 feb 2018 (-26) Configuración electrónica (Revertidos los cambios de 83.56.97.82)- retira adición de cuenta de Twitter (posible spam) - Gani
7. 11:08 10 feb 2018 (-613) PAW Patrol (Revertidos los cambios de 190.46.1.9)- revierte correcciones de ortografía y adición de texto sin fuentes - Gani
8. 13:36 10 feb 2018 (-156) Jueves Lardero (Revertidos los cambios de 79.159.47.242)- revierte corrección menor y elimina adición de texto sin fuentes - Gani

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 - 1.9 900
 - 1.10 1000
- 2 Reservas
- 3 Origen de los datos
 - 3.1 Estadísticas globales
- 4 Análisis de los datos
- 5 Conclusiones

[https://ores.wikimedia.org/v3/scores/eswiki?models=damaging&model_info=statistics.thresholds.true.'](https://ores.wikimedia.org/v3/scores/eswiki?models=damaging&model_info=statistics.thresholds.true.)

maximum recall @ precision >= 0.9.

```
{"!f1": 0.95, "!precision": 0.905, "!recall": 0.998,  
"accuracy": 0.906, "f1": 0.271,  
"filter_rate": 0.981, "fpr": 0.002, "match_rate": 0.019,  
"precision": 0.916, "recall": 0.159,  
"threshold": 0.962}
```

[https://ores.wikimedia.org/v3/scores/eswiki?models=damaging&model_info=statistics.thresholds.true.'](https://ores.wikimedia.org/v3/scores/eswiki?models=damaging&model_info=statistics.thresholds.true.)

maximum recall @ precision >= 0.9.

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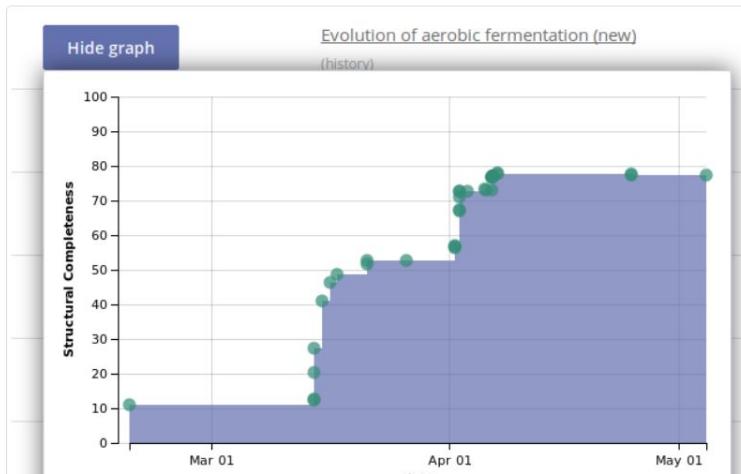
Insights

- Precision/Recall is critical to auto-revert bots
- Bot developers don't have time to manage the nuances of precision
- Developers don't know how to apply our threshold optimizations

Visualizing article history with Structural Completeness

By Sage Ross on September 16, 2016

You may have noticed a recent addition to the Articles tab of [dashboard.wikiedu.org](#) course pages: “structural completeness”. This feature is an experiment in visualizing the history of articles as they develop.



Biology

A [good article](#) from Wikipedia, the free encyclopedia

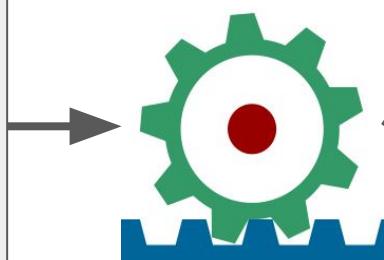
"[Biological science](#)" redirects here. It is not to be confused with [life science](#). For other uses, see [Biology \(disambiguation\)](#).

Biology is a natural science concerned with the study of life and living organisms, including their structure, function, growth, evolution, distribution, identification and taxonomy.^[1] Modern biology is a vast and eclectic field, composed of many branches and subdisciplines. [\[clarification needed\]](#) However, despite the broad scope of biology, there are certain unifying concepts within it that consolidate it into single, coherent field. In general, biology recognizes the **cell** as the basic unit of life, **genes** as the basic unit of heredity, and **evolution** as the engine that propels the creation of new species. It is also understood today that all organisms survive by consuming and transforming **energy** and by **regulating** their internal environment to maintain a stable and vital condition known as **homeostasis**.



Biology deals with the study of the many living

[\[:en:Biology\]\]](#)

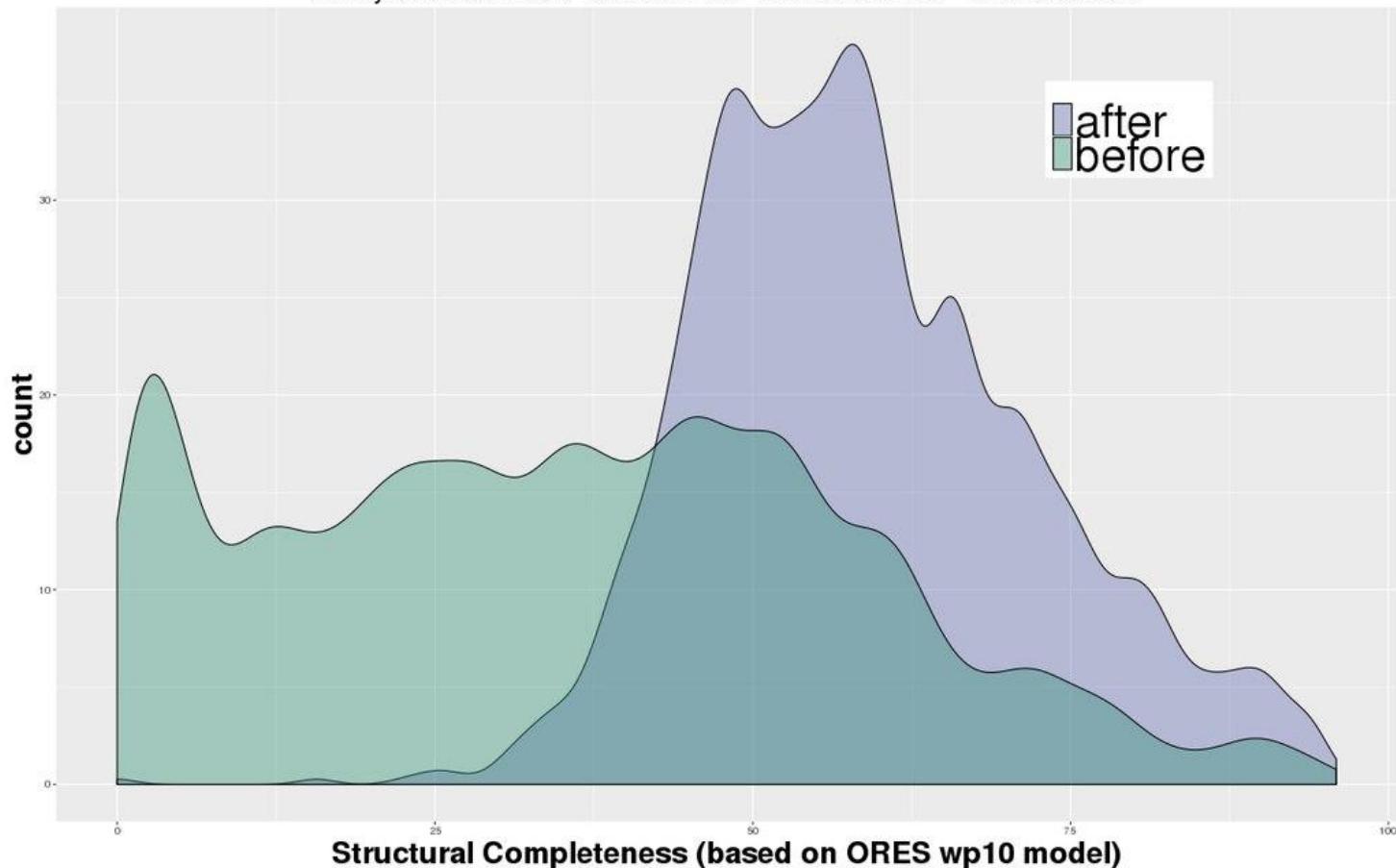


→

Class	Criteria	Reader's experience
★ FA	The article has attained featured article status by passing an official review. More detailed criteria [show]	Professional, outstanding, and thorough; a definitive source for encyclopedic information.
○ GA	The article has attained good article status by passing an official review. More detailed criteria [show]	Useful to nearly all readers, with no obvious problems; approaching (but not equaling) the quality of a professional encyclopedia.
B	The article is mostly complete and without major problems, but requires some further work to reach good article standards . More detailed criteria [show]	Readers are not left wanting, although the content may not be complete enough to satisfy a serious student or researcher.
C	The article is substantial, but is still missing important content or contains much irrelevant material. The article should have some references to reliable sources, but may still have significant problems or require substantial cleanup. More detailed criteria [show]	Useful to a casual reader, but would not provide a complete picture for even a moderately detailed study.
Start	An article that is developing, but which is quite incomplete. It might or might not cite adequate reliable sources. More detailed criteria [show]	Provides some meaningful content, but most readers will need more.
Stub	A very basic description of the topic. However, all very-bad-quality articles will fall into this category. More detailed criteria [show]	Provides very little meaningful content; may be little more than a dictionary definition. Readers probably see insufficiently developed features of the topic and may not see how the features of the topic are significant.

[\[\[Wikipedia:WikiProject_assessment\]\]](#)

Classroom Program Spring 2017 existing article improvement
min bytes added: 6000 - articles: 1156 - ave. before: 35.7 - ave. after: 59.0



Part 3: Discussion

Part 3: Discussion

[ORES: Facilitating re-mediation of
Wikipedia's socio-technical problems.pdf](#)

(Halfaker et al. *under review*)

ORES: Facilitating re-mediation of Wikipedia's socio-technical problems

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JONATHAN T. MORGAN, Wikimedia Foundation, USA

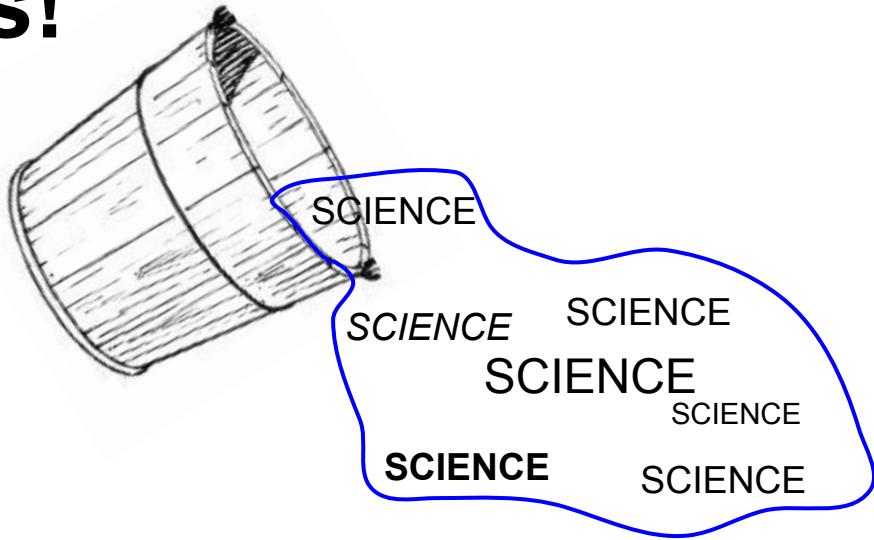
AMIR SARABADANI, Wikimedia Deutschland, Germany

ADAM WIGHT, Wikimedia Foundation, USA

Intelligent algorithms have a long history of making curation work in peer production tractable. From counter-vandalism to task routing, basic machine prediction allows open knowledge projects like Wikipedia to scale to the largest encyclopedia in the world. However, the ideologies and values of the community were captured in the development of these algorithms and the processes they support. Wikipedia's challenges and the community's values have changed in the last decade, but its algorithmic support systems have remained largely stagnant. The conversation about what quality control should be and what place algorithms have remains restricted to a few expert engineers. In this paper, we describe ORES: an algorithmic service designed to open up socio-technical conversations in Wikipedia to a broader set of participants. In this paper, we argue the theoretical mechanisms of social change ORES enables and we describe the phenomena around ORES from the 3 years since ORES' deployment.

CCS Concepts: • Networks → Online social networks; • Computing methodologies → Supervised learning by classification; • Applied computing → Sociology; • Software and its engineering → Software design techniques; • Computer systems organization → Cloud computing;

Thanks!



Props to my collaborators

- User:Ladsgroup
- User:Platonides
- User:Ragesoss

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