

# The people's classifier service

Towards an open model for algorithmic  
infrastructure



User: ClueBot NG

HotCat

huggle

50  
Sn  
Snuggle  
118.7



# 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 volunteer account, [User:EpochFail](#), for my non-staff work.

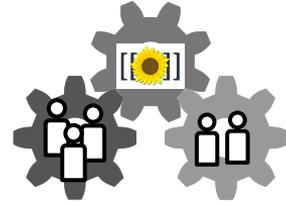
## My work

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 example of my research and [Snuggle](#) for an example of a tool for Wikipedians that I'm actively developing.

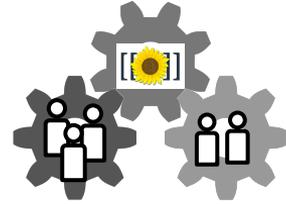
## Contact me

- E-mail: [ahalfaker@wikimedia.org](mailto:ahalfaker@wikimedia.org)
- Website: <http://halfaker.info> 
- Twitter: <http://twitter.com/halfak> 
- On IRC, I go by "halfak".

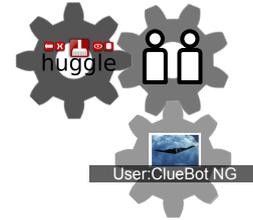
# 1. Systems & socio-technical in Wikipedia



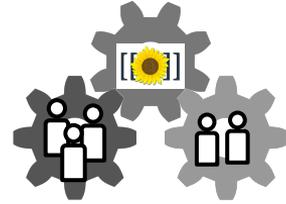
# 1. Systems & socio-technical in Wikipedia



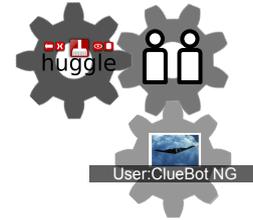
# 2. Critique of algorithmic quality control



# 1. Systems & socio-technical in Wikipedia

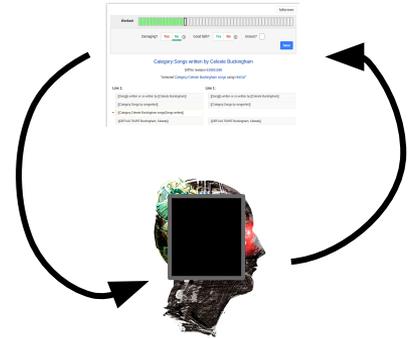


# 2. Critique of algorithmic quality control



# 3. Infrastructure for socio-technical change

- Feminist HCI inspiration



# **Part 1. Systems & socio- technical Wikipedia**



**Organelles**

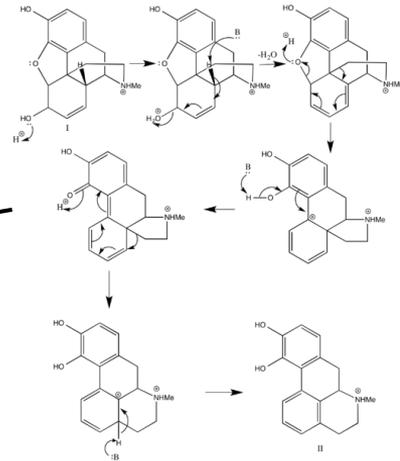


**Bare-amecium**

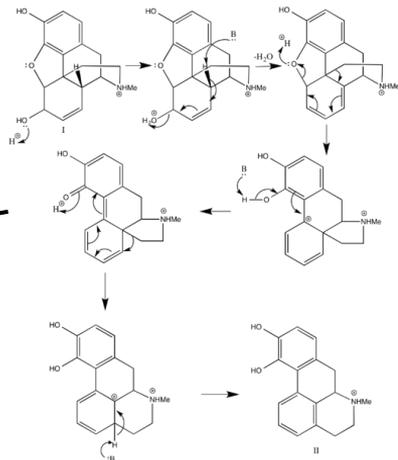


**Paramecium**

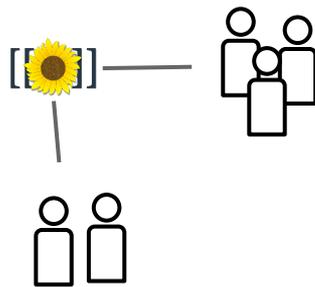




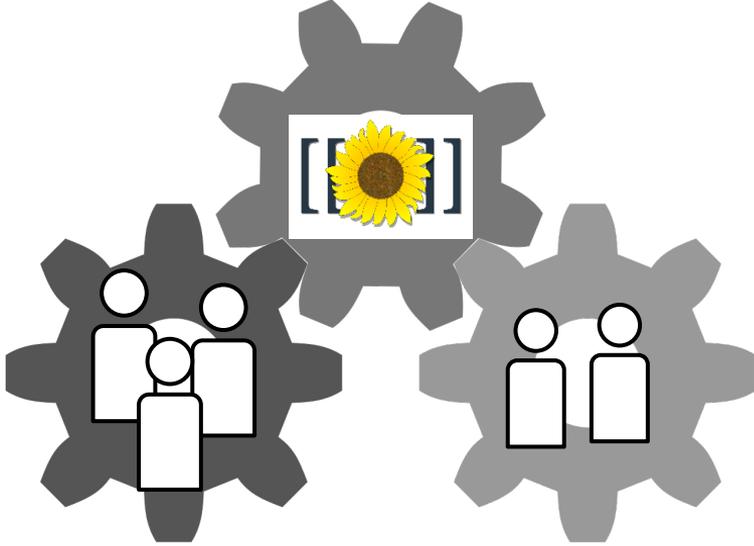
[https://commons.wikimedia.org/wiki/File:Morphine\\_to\\_Apomorphine.png](https://commons.wikimedia.org/wiki/File:Morphine_to_Apomorphine.png) CC-SY-SA 4.0



[https://commons.wikimedia.org/wiki/File:Morphine\\_to\\_Apomorphine.png](https://commons.wikimedia.org/wiki/File:Morphine_to_Apomorphine.png) CC-SY-SA 4.0

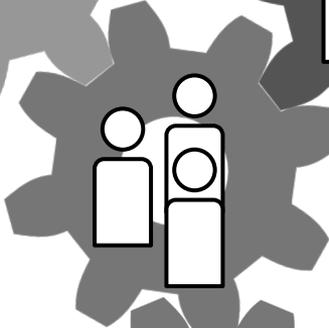


[https://commons.wikimedia.org/wiki/File:Gear\\_reducer.gif](https://commons.wikimedia.org/wiki/File:Gear_reducer.gif) CC-BY-SA 3.0



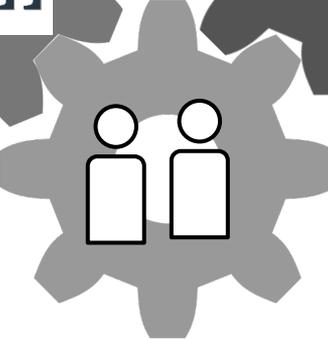
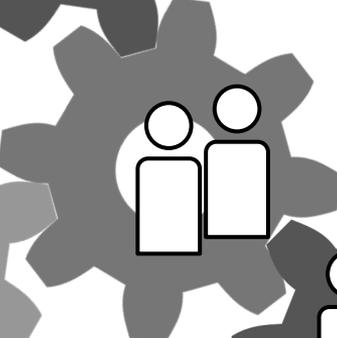
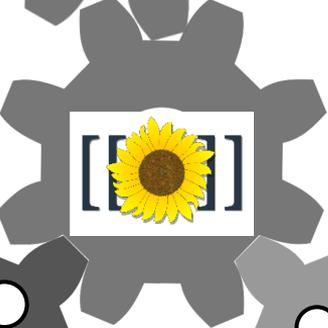
HotCat

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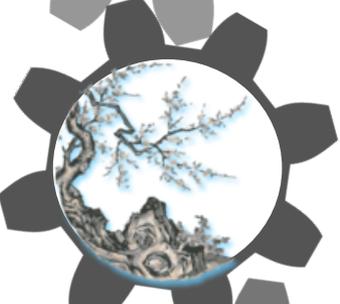
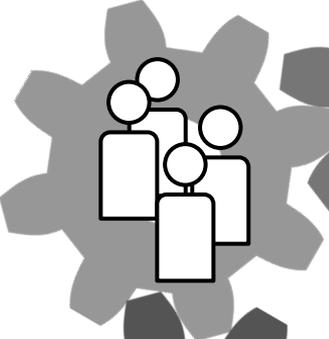


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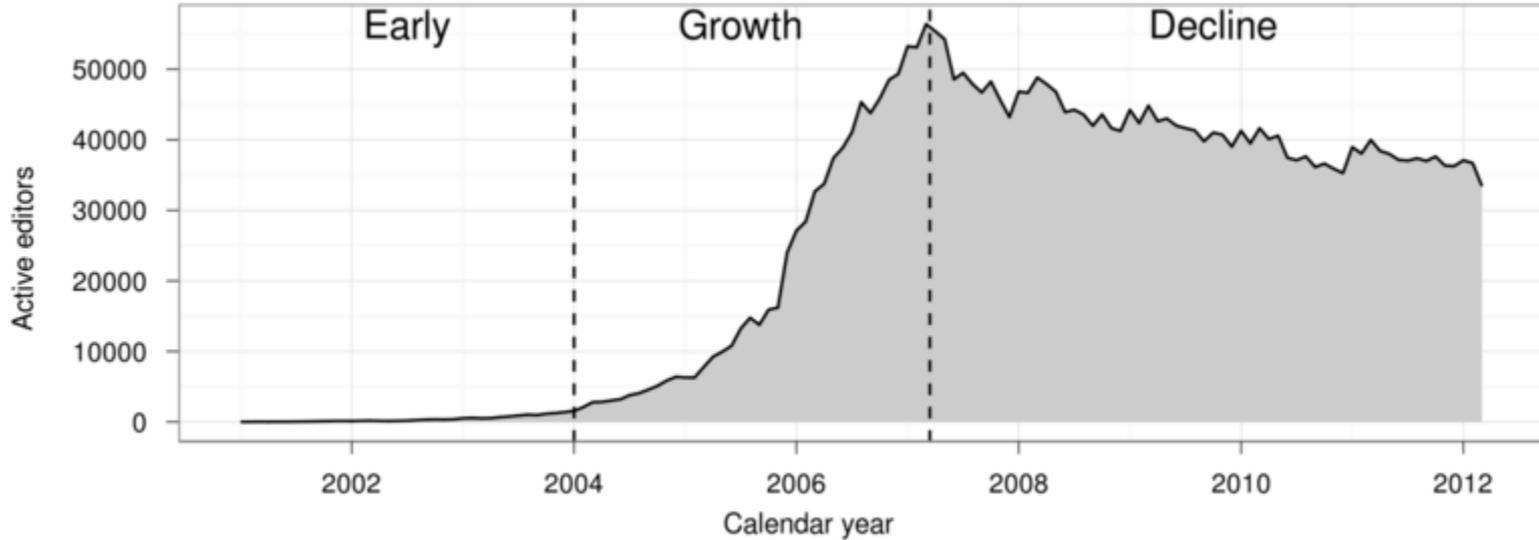
huggle



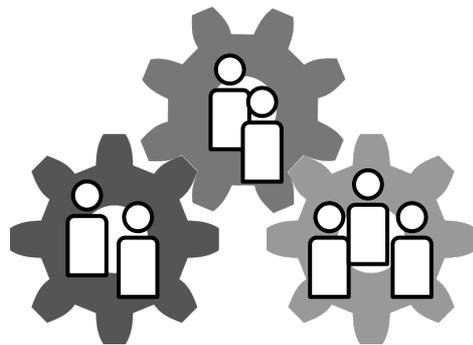
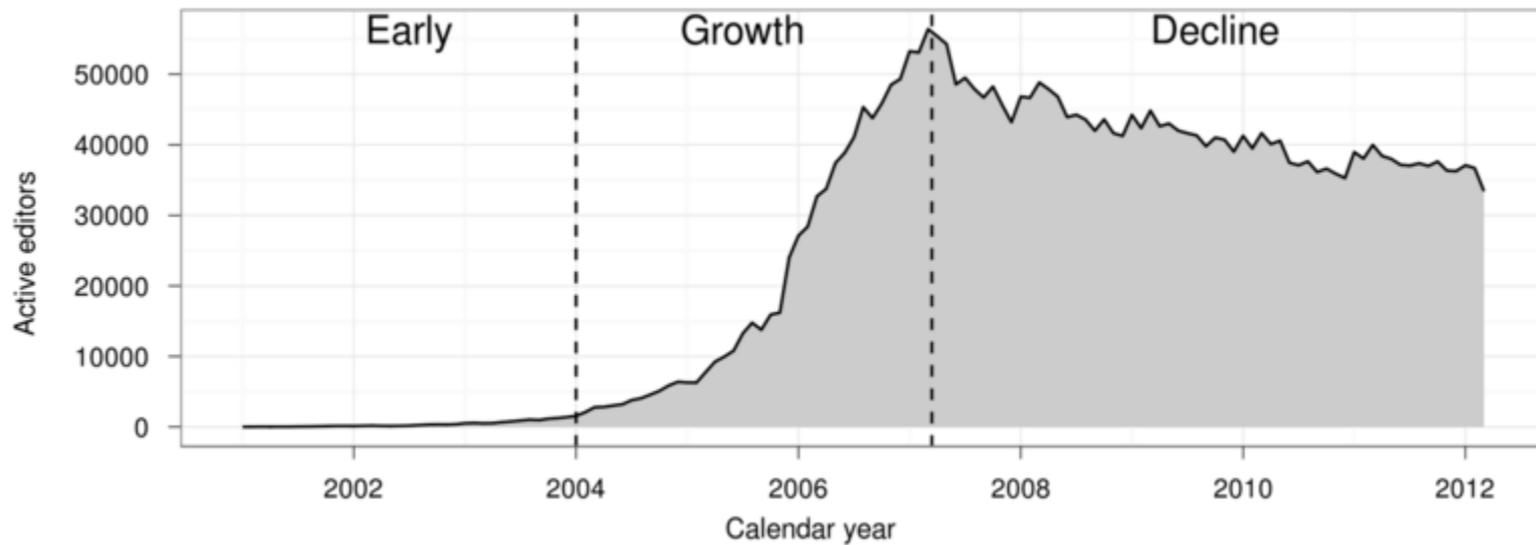
User:ClueBot NG

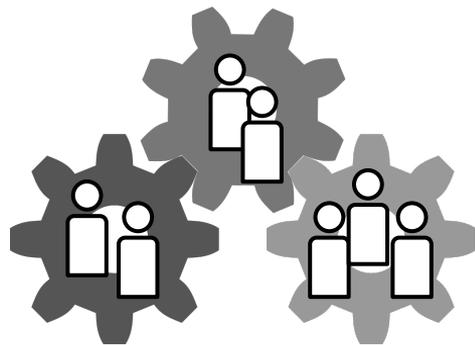
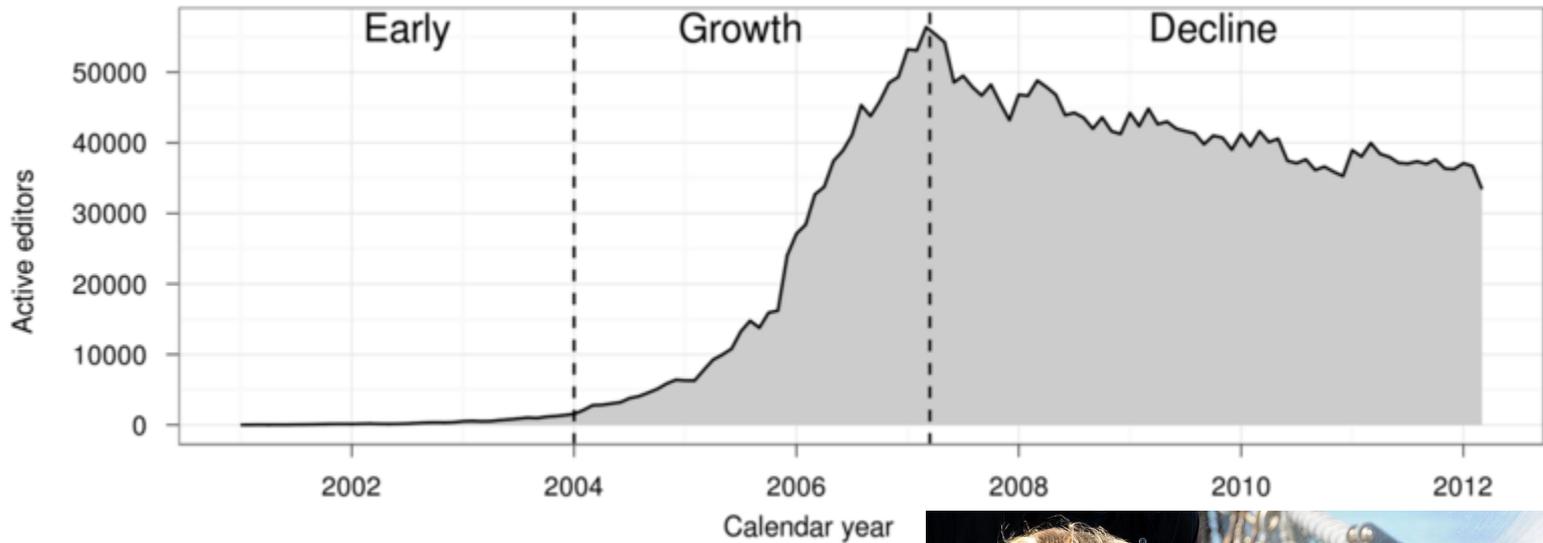


# **Part 2. Critique of algorithmic infrastructure**

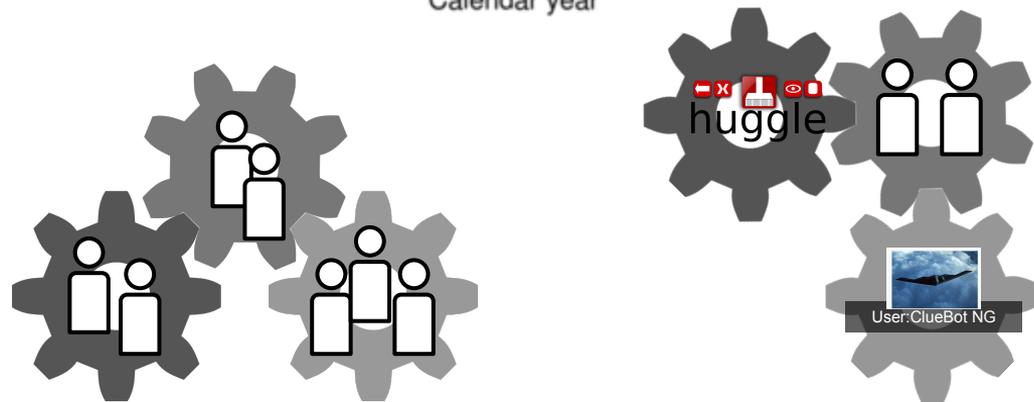
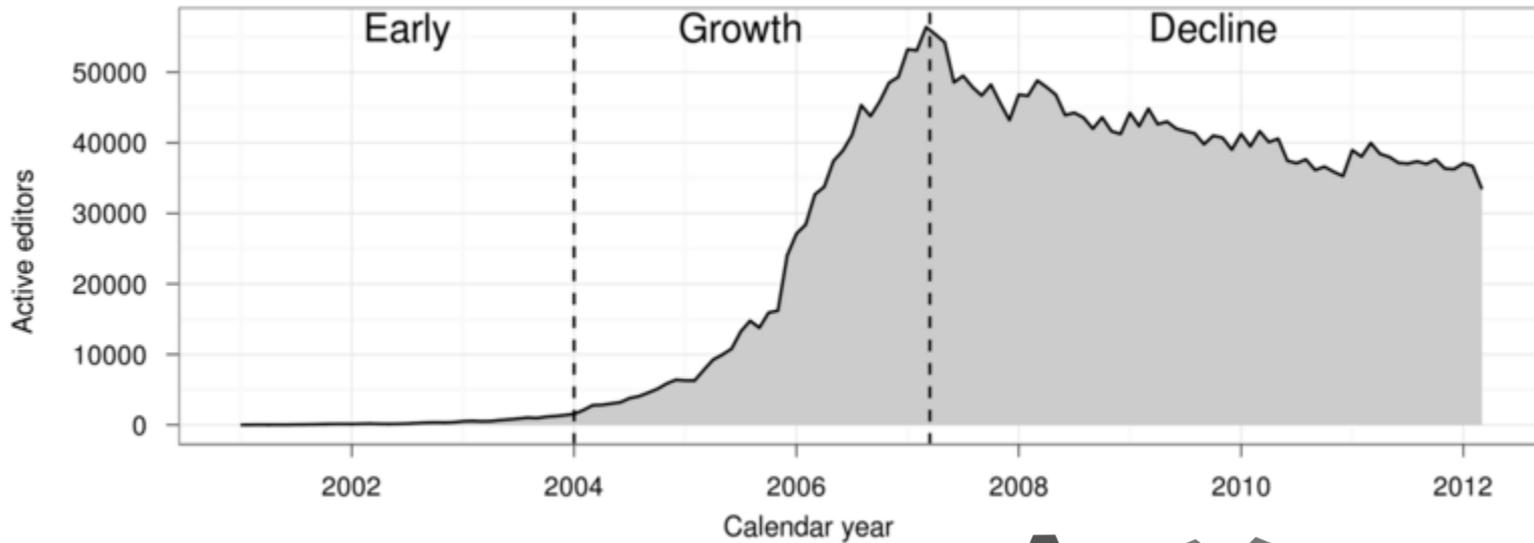


- [:m:Research:The Rise and Decline](#)
- Halfaker, A., Geiger, R. S., Morgan, J. T., & Riedl, J. (2012). The rise and decline of an open collaboration system: How Wikipedia's reaction to popularity is causing its decline. *American Behavioral Scientist*, 0002764212469365.



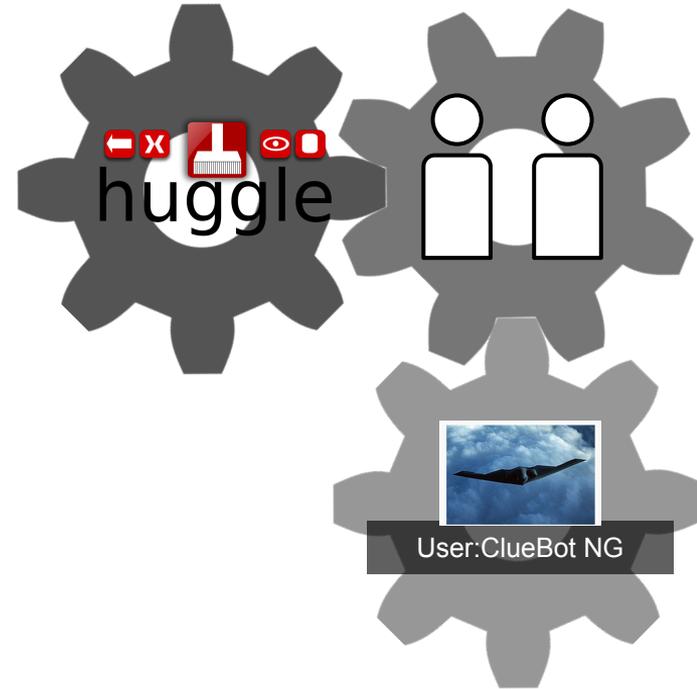


[https://commons.wikimedia.org/wiki/File:Flickr - Official U.S. Navy Imagery - Sailor%27s daughter operates a fire hose with crew member assistance.jpg](https://commons.wikimedia.org/wiki/File:Flickr_-_Official_U.S._Navy_Imagery_-_Sailor%27s_daughter_operates_a_fire_hose_with_crew_member_assistance.jpg)



# Standpoint

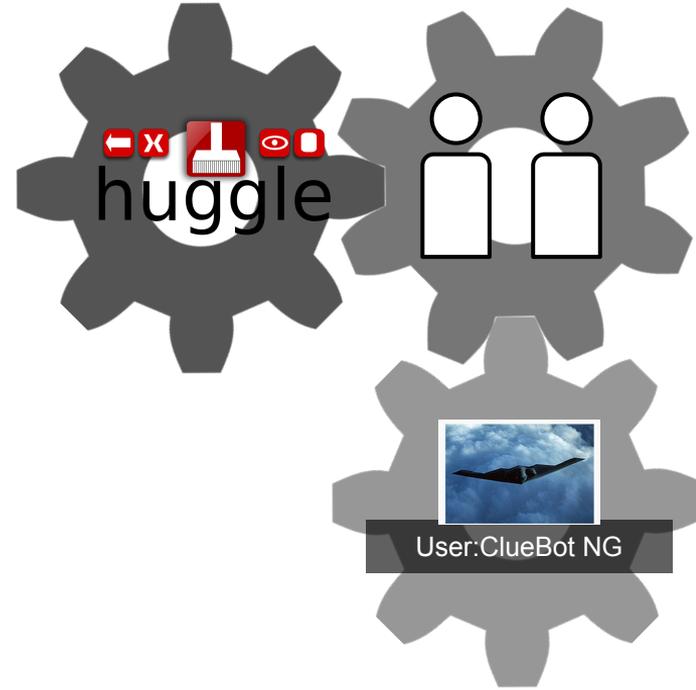
- Wikipedia is a firehose
- Bad edits must be reverted
- Minimize effort wasted on quality control work

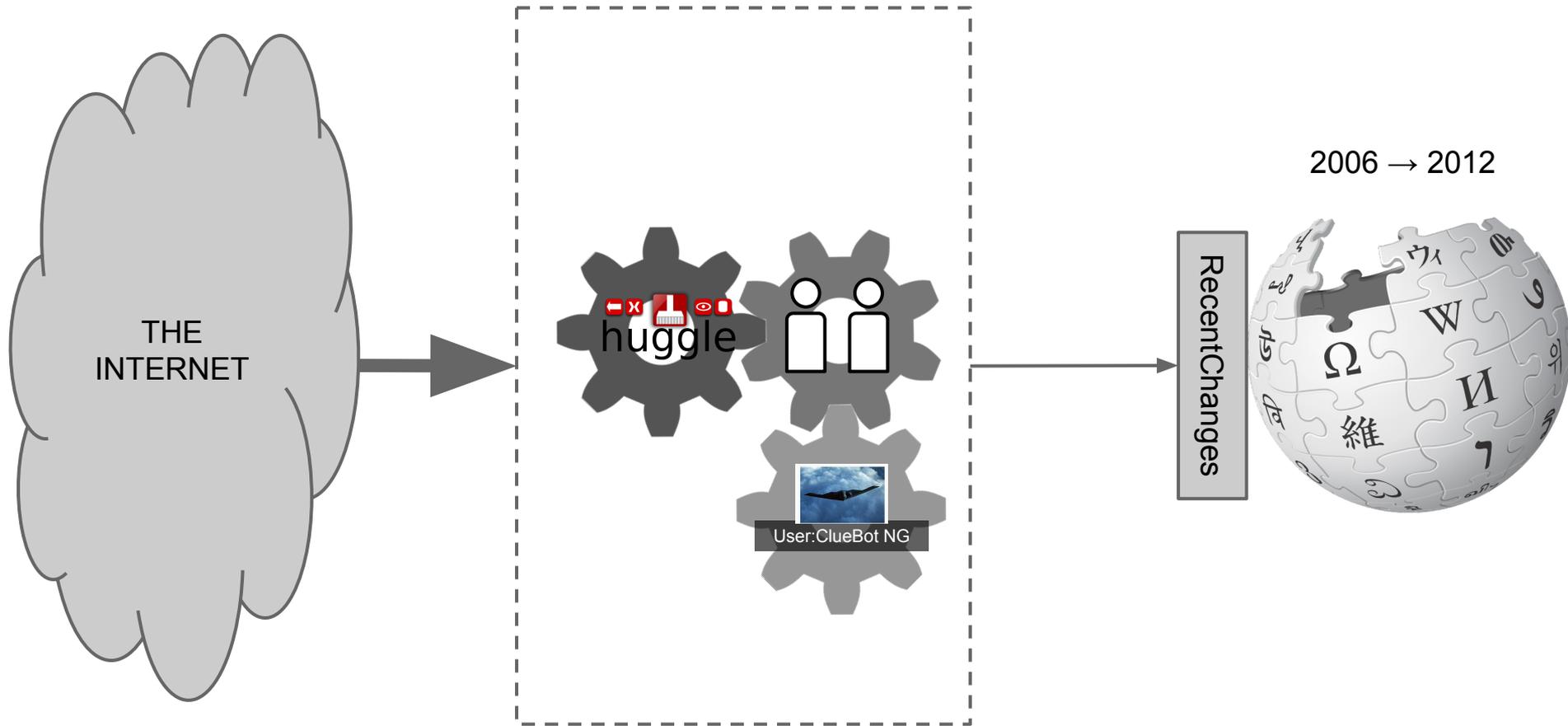


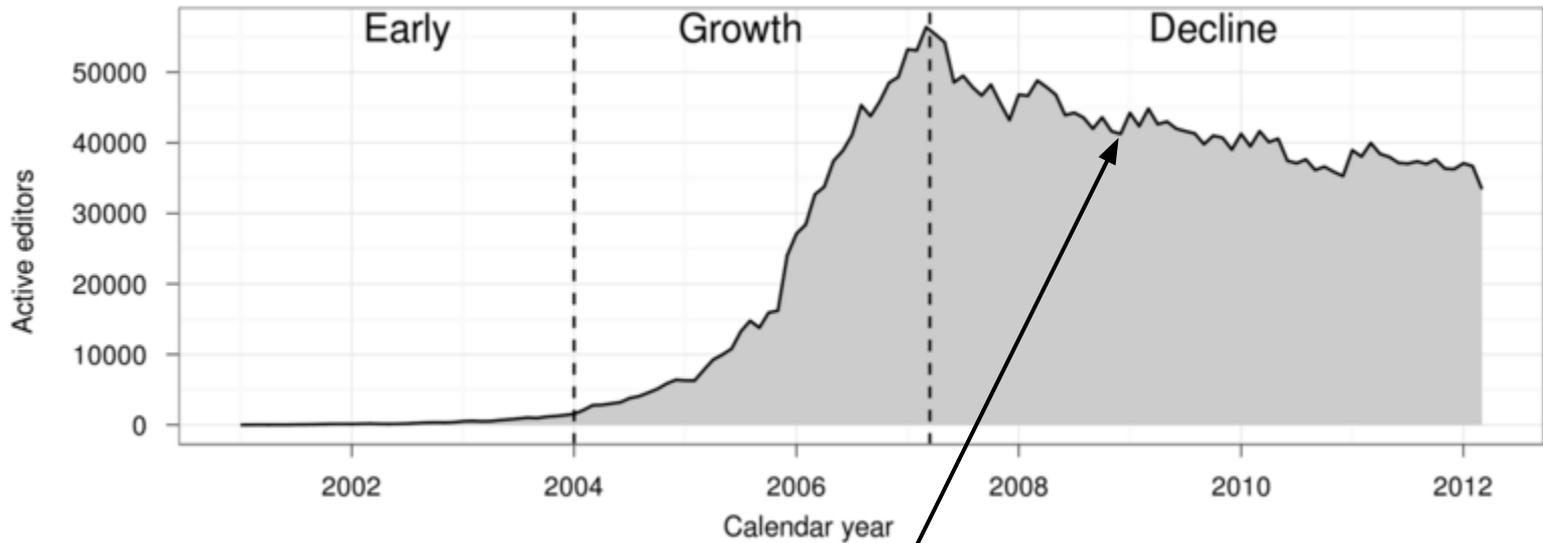
# Standpoint

- Wikipedia is a firehose
- Bad edits must be reverted
- Minimize effort wasted on quality control work

**MASSIVE SUCCESS!**







Woah woah woah! We forgot about the socialization!

- Wikipedia is a firehose
- Bad edits must be reverted
- Minimize effort wasted on quality control work

- Wikipedia is a firehose ✓
- Bad edits must be reverted
- Minimize effort wasted on quality control work

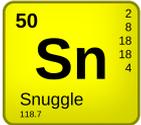
- Wikipedia is a firehose ✓
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- Minimize effort wasted on quality control work ✓

- Wikipedia is a firehose ✓
- Bad edits must be reverted ✓
- Minimize effort wasted on quality control work ✓
- **Socialize & train the newcomers!**



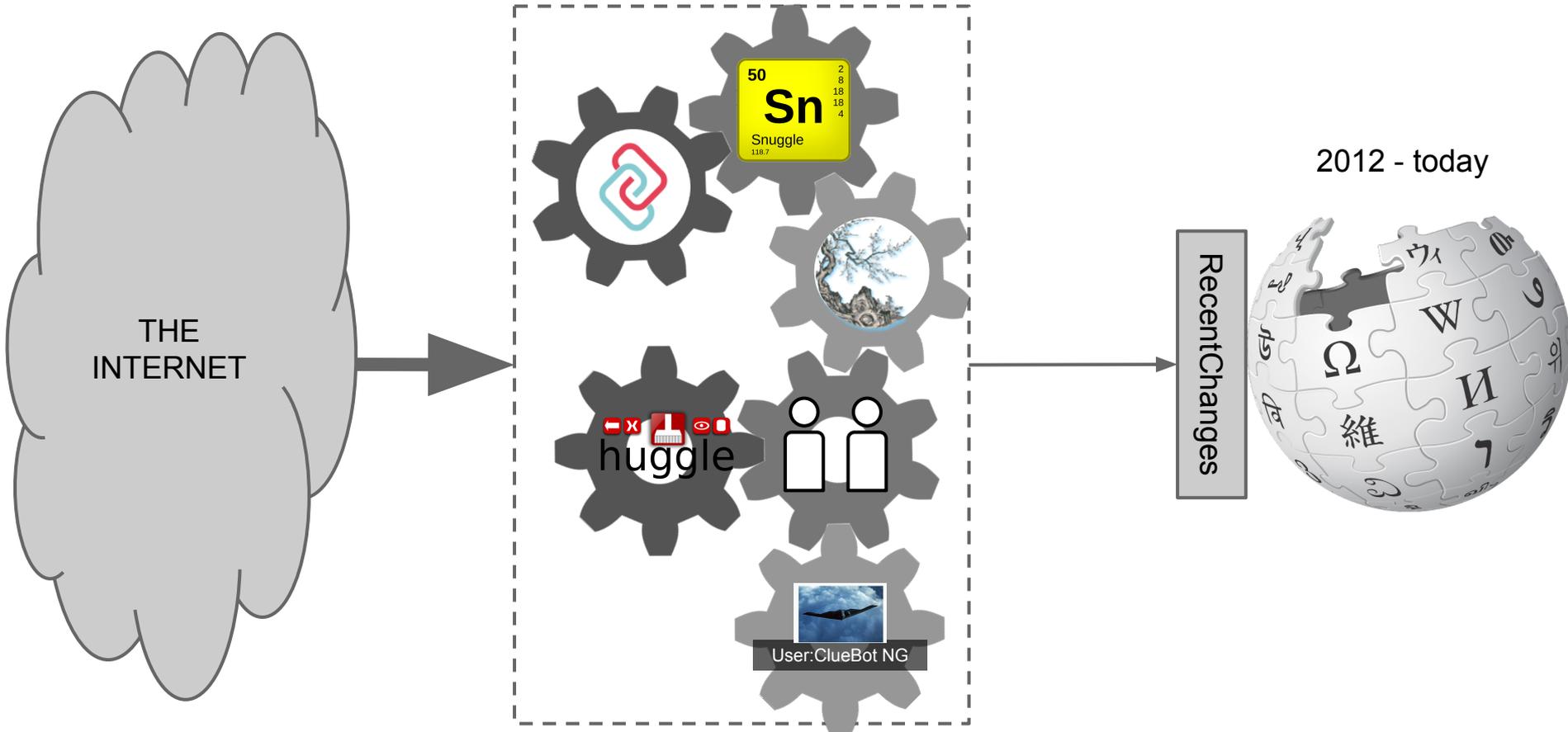
[Wikipedia:Teahouse](#) Newcomer Q&A



[Wikipedia:Snuggle](#) Technological support for mentors



[Wikipedia:Co-op](#) Newcomer training and mentorship



**Win?**



huggle



huggle

First, the sugar



Huggle is an amazing piece of software. I have no doubt it represents the state of the art in distributed quality control. This software and its users are responsible for critical quality control work and I think they are cool people. We owe them a lot for their thankless work. Thank you!



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## Now for the medicine

# Huggle circa 2009

The screenshot shows the Huggle web browser interface. At the top, there is a menu bar with 'System', 'Queue', 'Go to', 'Revision', 'Page', 'User', 'Browser', and 'Help'. Below the menu bar is a toolbar with various icons for navigation and editing. The main content area displays the article 'Laura Bush' with two revisions side-by-side. The left revision is from April 11, 2009, and the right revision is the current one, also from April 11, 2009. The current revision shows a revert of an edit that added the phrase 'She smells like bad body odor.' to the article text. A sidebar on the left lists 'Filtered edits' with a search bar and a list of items, including 'Bratwurst', 'Best Day Ever', 'Motörhead', 'Paul Frees', 'Tom O'Horgan', 'MAST Academy', 'Final Fantasy Crystal ...', 'Timeline of World War ...', 'Associated TeleVision', 'Raith Rovers F.C. sea...', 'Bristol VR', 'Paper Planes', 'Connected component ...', 'Jonny Wilkinson', 'My Love (The-Dream ...', 'Kalhori', 'Nate Newton (musicia...', 'DaVita', 'Raúl Ramírez', 'START II', 'Planet of the Dead', 'UKTV', 'Princeton Day School', and 'George Washington G...'. The bottom status bar shows the page title 'Laura Bush (HG)' and the user '74.143.33.2'.

Huggle

System Queue Go to Revision Page User Browser Help

138 edits per minute, 9 rever

Page Laura Bush History

User 74.143.33.2 Contribs

Filtered edits

50 items

Bratwurst 2

Best Day Ever

Motörhead

Paul Frees

Tom O'Horgan

MAST Academy

Final Fantasy Crystal ...

Timeline of World War ...

Associated TeleVision

Raith Rovers F.C. sea...

Bristol VR

Paper Planes

Connected component ...

Jonny Wilkinson

My Love (The-Dream ...

Kalhori

Nate Newton (musicia...

DaVita

Raúl Ramírez

START II

Planet of the Dead

UKTV

Princeton Day School

George Washington G...

## Laura Bush

Revision as of 11:56, April 11, 2009 (edit)  
74.143.33.2 (talk)

| signature = Laura Bush signature.svg  
}}

'''Laura Lane Welch Bush''' (born November 4, 1946) is the wife of the [[List of Presidents of the United States|forty-third]] [[President of the United States]], [[George W. Bush]], and was the [[First Lady of the United States]] from January 20th, 2001 to January 20th, 2009. **She smells like bad body odor.**

Mrs. Bush has had a love for books and reading since childhood, and her life and education have reflected that interest. She graduated from [[Southern Methodist University]] in 1968 with a [[Bachelor's degree]] in [[education]], and soon took a job as a second grade [[school teacher]]. After attaining her [[Master's degree]] in [[Library Science]] at the [[University of Texas at Austin]], she was employed as a [[librarian]]. She met George Walker Bush in 1977, and they were married later that year; in 1981, the couple had twin daughters.

Current revision as of 11:56, April 11, 2009 (edit)  
Until It Sleeps (talk | contribs)  
m (Reverted edits by 74.143.33.2 to last revision by 128.12.32.117 (HG))

| signature = Laura Bush signature.svg  
}}

'''Laura Lane Welch Bush''' (born November 4, 1946) is the wife of the [[List of Presidents of the United States|forty-third]] [[President of the United States]], [[George W. Bush]], and was the [[First Lady of the United States]] from January 20th, 2001 to January 20th, 2009.

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2009-04-11 13:56:29 PM (-0500) Edited [[User talk:74.143.33.2|User talk:74.143.33.2]] Level 2 warning on Laura Bush (HG)

# Huggle circa 2009

Good

Bad

The screenshot shows the Huggle web interface. At the top, there is a navigation bar with 'System', 'Queue', 'Go to', 'Revision', 'Page', 'User', 'Browser', and 'Help'. Below this is a toolbar with various icons for navigation and editing. The main content area is titled 'Laura Bush' and shows two revisions side-by-side. The left revision is dated '11:56, April 11, 2009' and includes a red text change: 'She smells like bad body odor.' The right revision is dated '11:56, April 11, 2009' and shows the text after the change has been reverted. A sidebar on the left lists 'Filtered edits' with a list of user names and their edit counts. A 'Good' label with an arrow points to the top of the interface, and a 'Bad' label with an arrow points to the toolbar area.

System Queue Go to Revision Page User Browser Help 136 edits per minute, 9 rever

Page Laura Bush History  
User 74.143.33.2 Contribs

Filtered edits  
50 items  
Bratwurst 2  
Best Day Ever  
Motörhead  
Paul Frees  
Tom O'Horgan  
MAST Academy  
Final Fantasy Crystal ...  
Timeline of World War ...  
Associated TeleVision  
Raith Rovers F.C. sea...  
Bristol VR  
Paper Planes  
Connected component ...  
Jonny Wilkinson  
My Love (The-Dream ...  
Kalhori  
Nate Newton (musicia...  
DaVita  
Raúl Ramírez  
START II  
Planet of the Dead  
UKTV  
Princeton Day School  
George Washington G...

## Laura Bush

Revision as of 11:56, April 11, 2009 (edit)  
74.143.33.2 (talk)

| signature = Laura Bush signature.svg  
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Current revision as of 11:56, April 11, 2009 (edit)  
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| signature = Laura Bush signature.svg  
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2009-04-11 13:56:29 PM (-6:00) Edited [[User talk:74.143.33.2|User talk:74.143.33.2]] Level 2 warning on Laura Bush (US)

# Huggle circa 2009

Good



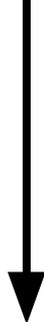
Bad



Probably bad



Probably less bad



The screenshot shows the Huggle web interface. At the top, there's a navigation bar with 'System', 'Queue', 'Go to', 'Revision', 'Page', 'User', 'Browser', and 'Help'. Below that is a toolbar with various icons for actions like undo, redo, and search. The main content area displays the page for 'Laura Bush', showing a revision as of 11:56, April 11, 2009. The page content includes a signature and a paragraph about Laura Lane Welch Bush, with some text highlighted in yellow and green. On the left side, there's a 'Filtered edits' list with 50 items, including 'Bratwurst', 'Best Day Ever', 'Motörhead', 'Paul Frees', 'Tom O'Horgan', 'MAST Academy', 'Final Fantasy Crystal ...', 'Timeline of World War ...', 'Associated TeleVision', 'Raith Rovers F.C. sea...', 'Bristol VR', 'Paper Planes', 'Connected component ...', 'Jonny Wilkinson', 'My Love (The-Dream ...', 'Kalhori', 'Nate Newton (musicia...', 'DaVita', 'Raúl Ramírez', 'START II', 'Planet of the Dead', 'UKTV', 'Princeton Day School', and 'George Washington G...'. At the bottom, there's a status bar showing the current page and user information.

# Huggle 3.0

The screenshot displays the Huggle 3.0 interface for editing a page. The main window shows a diff between two versions of the article "Private Eyes: 101 Knights : A Survey of American Detective Fiction 1922-1984". The left version (Line 69) contains a paragraph about Kenn Davis and John Stanley, with a reference to a Wikipedia article. The right version (Line 69) is identical but includes a bolded sentence: "Together with John Stanley, Kenn Davis was an [[Edgar Award]] Nominee for "The Dark Side" in 1977. In 1985, he was again an [[Edgar Award]]".

The interface includes several panels:

- System:** Huggle 3 QT-LX on enwiki
- Menu:** System, Tools, Page, Queue, HAN, User, Help
- Tools:** Navigation arrows, edit, undo, redo, save, delete, refresh, and a trash icon.
- User/Tools:** User: Bcschipper, Page: Draft:Kenn Davis, Load, Currently displayed, Diff of page: Draft:Kenn Davis (score: -272)
- Queue:** default, Kathleen Wynne, Pancho Arena, Mariano Andrés, Lithuanian language, User:Anurag.gupta17/Vidya, Autosomal dominant retinal v, Peoples of the Caucasus, Cassock, Batman v Superman: Dawn o, 2014-15 Derby County F.C. se, Voiceless labiodental fricative, List of shadow holders of the, Insect euthanasia
- History of your changes:** ID, Type, Target, Result
- System logs:** Tue Jun 3 19:13:41 2014 Connected to IRC recent changes feed; Tue Jun 3 19:13:31 2014 Loaded in 259ms; Tue Jun 3 19:13:31 2014 Extensions: 0; Tue Jun 3 19:13:31 2014 Loading plugins in /home/petanb/.local/share/data/Wikimedia/Huggle/extensions/; Tue Jun 3 19:13:31 2014 Home: /home/petanb/.local/share/data/Wikimedia/Huggle/Configuration/
- Network (5):** You are now connected to huggle antivandalism network; Connecting to huggle anti vandalism network; Stroppolo, ChanServ, ClueBot, Petrb, MusikAnimal
- User info:** Flags: +T Score: 0 level: 0 Edit count: 41
- Page:** Draft:Kenn Davis, User:Bcschipper/sandbo, Draft:Kenn Davis, Draft:Kenn Davis, User:Bcschipper/sandbox, Draft:Kenn Davis, User:Bcschipper/sandbox
- History:** Table with columns User and Size.

User	Size
Bcschipper	13589
Bcschipper	13588
Bcschipper	13119
Bcschipper	13040
Bcschipper	12994
Bcschipper	12559

Processing 0 edits and 0 queries. Whitelisted users: 15358 Queue size: 13 Statistics: 108 edits per minute 5.65 reverts per minute, level 1.05

# Huggle 3.0

Good

Bad

The screenshot displays the Huggle 3.0 interface with the following components:

- Menu Bar:** System, Tools, Page, Queue, HAN, User, Help
- Navigation:** Back, Forward, Home, Stop, Reload, Print, Close, Refresh, Stop
- Toolbar:** Queue (green checkmark), HAN (orange person), User (orange person), Warning (yellow exclamation mark), Smiley (green smiley), Stop (black square), Sad (orange sad face), Close (grey X), Refresh (red circular arrow), Stop (black square)
- Queue Panel:** default, Kathleen Wynne, Pancho Arena, Mariano Andújar, Lithuanian language, **User:Anurag.gupta17/Vidya**, Autosomal dominant retinal v, Peoples of the Caucasus, Cassock, Batman v Superman: Dawn o, 2014-15 Derby County F.C. se, Voiceless labiodental fricative, List of shadow holders of the, Insect euthanasia
- Summary:** No summary was provided Size change: +104
- Line 69 Diff:** Shows a change in the text about Kenn Davis. The right side (blue background) includes the phrase "Together with John Stanley, Kenn Davis was an [[Edgar Award]] Nominee for 'The Dark Side' in 1977. In 1985, he was again an [[Edgar Award]]".
- History Panel:** Table with columns User and Size.

User	Size
Bcschipper	13589
Bcschipper	13588
Bcschipper	13119
Bcschipper	13040
Bcschipper	12994
Bcschipper	12559
- User info Panel:** Draft: Kenn Davis, User: Bcschipper/sandbo, Draft: Kenn Davis, Draft: Kenn Davis, User: Bcschipper/sandbox, Draft: Kenn Davis, User: Bcschipper/sandbox
- System logs Panel:** Tue Jun 3 19:13:41 2014 Connected to IRC recent changes feed, Tue Jun 3 19:13:31 2014 Loaded in 259ms, Tue Jun 3 19:13:31 2014 Extensions: 0, Tue Jun 3 19:13:31 2014 Loading plugins in /home/petanb/.local/share/data/Wikimedia/Huggle/extensions/, Tue Jun 3 19:13:31 2014 Home: /home/petanb/.local/share/data/Wikimedia/Huggle/Configuration/
- Network Panel:** You are now connected to huggle antivandalism network, Connecting to huggle anti vandalism network, Stroppolo, ChanServ, ClueBot, Petrb, MusikAnimal

Processing 0 edits and 0 queries. Whitelisted users: 15358 Queue size: 13 Statistics: 108 edits per minute 5.65 reverts per minute, level 1.05

# Huggle 3.0

Good

Bad



Probably bad

Probably less bad



System Tools Page Queue HAN User Help

Tools

User Bcschipper Page Draft:Kenn Davis Load Currently displayed Diff of page: Draft:Kenn Davis (score: -272)

Queue

- default
- 2 Kathleen Wynne
- Pancho Arena
- Mariano Andrés
- Lithuanian language
- User:Anurag.gupta17/Vidya
- Autosomal dominant retinal v
- Peoples of the Caucasus
- Cassock
- Batman v Superman: Dawn o
- 2014-15 Derby County F.C. se
- Voiceless labiodental fricative
- List of shadow holders of the
- Insect euthanasia

History of your changes

ID: Type: Target: Result:

System logs

- Tue Jun 3 19:13:41 2014 Connected to IRC recent changes feed
- Tue Jun 3 19:13:31 2014 Loaded in 259ms
- Tue Jun 3 19:13:31 2014 Extensions: 0
- Tue Jun 3 19:13:31 2014 Loading plugins in /home/petanb/.local/share/data/Wikimedia/Huggle/extensions/
- Tue Jun 3 19:13:31 2014 Home: /home/petanb/.local/share/data/Wikimedia/Huggle/Configuration/

System logs Processes

Processing 0 edits and 0 queries. Whitelisted users: 15358 Queue size: 13 Statistics: 108 edits per minute 5.65 reverts per minute, level 1.05

Summary: No summary was provided Size change: +104

Line 69:

== Books ==

Kenn Davis together with John Stanley is the creator of Carver Bascombe, a black Vietnam veteran with military police background who is a private investigator in San Francisco.<ref>{{cite web|url=http://www.sfgate.com/bayarea/article/Kenn-Davis-creator-of-PI-Carver-Bascombe-dies-3203082.php|title=Kenn Davis, creator of PI Carver Bascombe, dies|accessdate=31 May 2014}}</ref> This character first appeared in 1976 in the mystery novel "The Dark Side" that Kenn coauthored with John Stanley.<ref name = Bakeretal >{{cite book | title = Private Eyes: 101 Knights : A Survey of American Detective Fiction 1922-1984 | publisher=Popular Press, 1. edition (January 1, 1985) | first1= Robert | last1=Baker | first2 = Michael | last2 = Nietzel | first3= Bill | last3 = Pronzini | year=1985}}</ref> Carver Bascombe appears in seven more mystery novels.<ref>{{cite web|url=http://www.sfgate.com/bayarea/article/Kenn-Davis-creator-of-PI-Carver-Bascombe-dies-3203082.php|title=Kenn Davis, creator of PI Carver Bascombe, dies|accessdate=31 May 2014}}</ref> **Together with John Stanley**, Kenn Davis was an [[Edgar Award]] Nominee for "The Dark Side" **in 1977. In 1985, he was again an [[Edgar Award]]**

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History

User	Size
Bcschipper	13589
Bcschipper	13588
Bcschipper	13119
Bcschipper	13040
Bcschipper	12994
Bcschipper	12559

User info

Flags: +T Score: 0 Level: 0 Edit count: 41

Page

- Draft:Kenn Davis
- User:Bcschipper/sandbo
- Draft:Kenn Davis
- Draft:Kenn Davis
- User:Bcschipper/sandbox
- Draft:Kenn Davis
- User:Bcschipper/sandbox

Network (5)

You are now connected to huggle antivandalism network  
Connecting to huggle anti vandalism network

- Stroppolo
- ChanServ
- ClueBot
- Petrb
- MusikAnimal

send

# Huggle 3.0

Good

Bad

Welcome!

System Tools Page Queue HAN User Help

Tools

User: Bcschipper Page: Draft:Kenn Davis Load Currently displayed Diff of page: Draft:Kenn Davis (score: -272)

Queue

- default
- 2 Kathleen Wynne
- Pancho Arena
- Mariano Andrés
- Lithuanian language
- User:Anurag.gupta17/Vidya
- Autosomal dominant retinal v
- Peoples of the Caucasus
- Cassock
- Batman v Superman: Dawn o
- 2014-15 Derby County F.C. se
- Voiceless labiodental fricative
- List of shadow holders of the
- Insect euthanasia

History of your changes

ID: Type: Target: Result:

System logs

- Tue Jun 3 19:13:41 2014 Connected to IRC recent changes feed
- Tue Jun 3 19:13:31 2014 Loaded in 259ms
- Tue Jun 3 19:13:31 2014 Extensions: 0
- Tue Jun 3 19:13:31 2014 Loading plugins in /home/petanb/.local/share/data/Wikimedia/Huggle/extensions/
- Tue Jun 3 19:13:31 2014 Home: /home/petanb/.local/share/data/Wikimedia/Huggle/Configuration/

System logs Processes

Network (5)

You are now connected to huggle  
antivandalism network  
Connecting to huggle anti vandalism network

Stroppolo  
ChanServ  
ClueBot  
Petrb  
MusikAnimal

send

Summary: No summary was provided Size change: +104

Line 69:

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- Draft:Kenn Davis
- Draft:Kenn Davis
- User:Bcschipper/sandbox
- Draft:Kenn Davis
- User:Bcschipper/sandbox

Probably bad

Probably less bad



- The state of quality control in Wikipedia remains relatively unchanged.

Why?

# **Part 3: Infrastructure for socio-technical change**

# The machine classifier



# The machine classifier

is\_anon  
chrs\_added  
chrs\_removed  
cust\_comment  
repeated\_chrs  
longest\_token  
badwords\_added

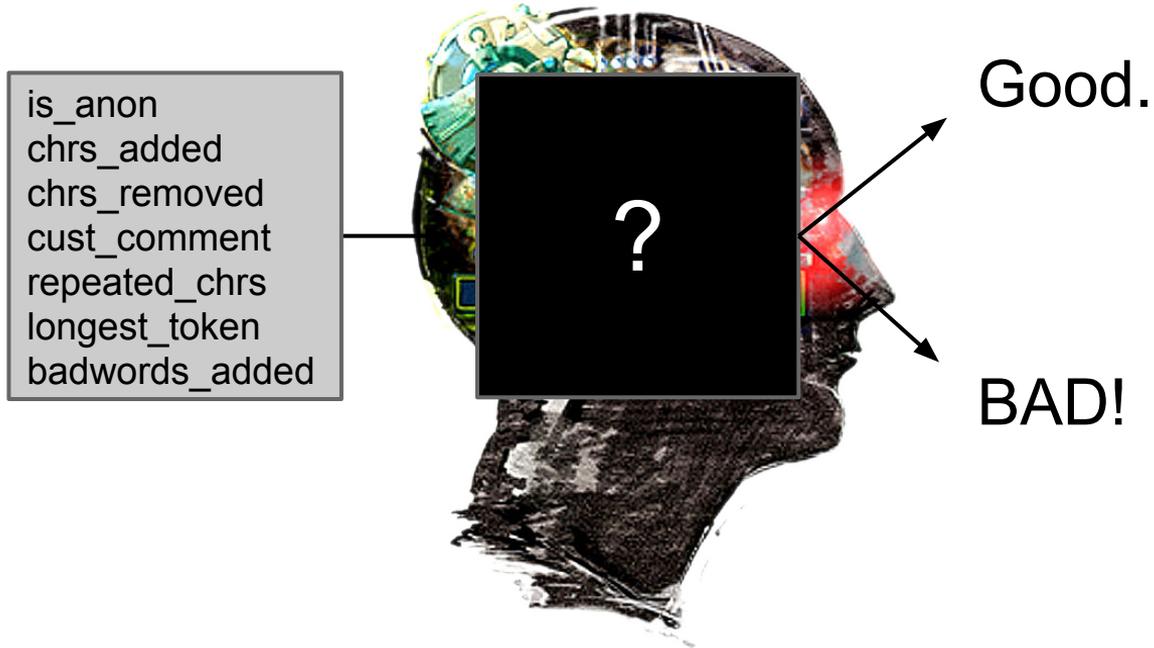


# The machine classifier

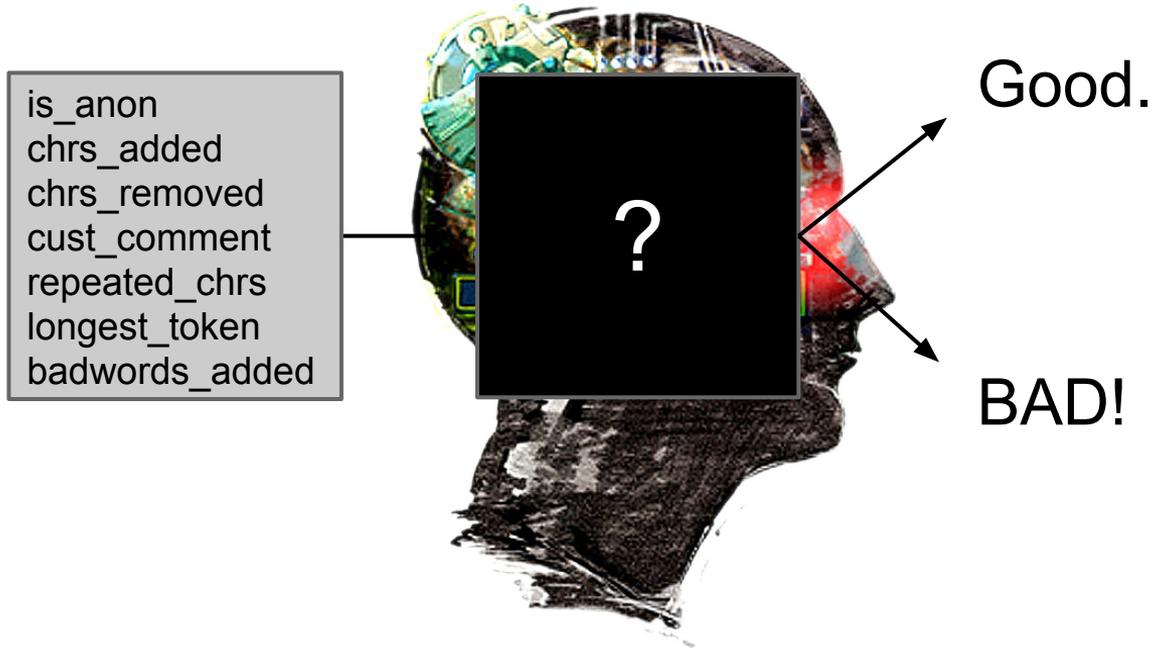
is\_anon  
chrs\_added  
chrs\_removed  
cust\_comment  
repeated\_chrs  
longest\_token  
badwords\_added



# The machine classifier



# The machine classifier



# The machine classifier

is\_anon  
chrs\_added  
chrs\_removed  
cust\_comment  
repeated\_chrs  
longest\_token  
badwords\_added

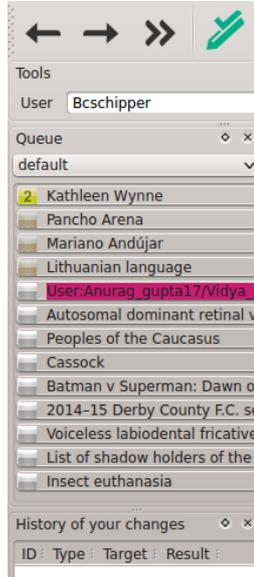


Good.

**BAD!**

Probably bad

Probably less bad



**revert!**

User:ClueBot NG

  
huggle



User:ClueBot NG



  
huggle

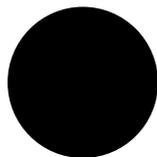


Wikipedia is a firehose ✓

Bad edits must be reverted ✓

Minimize effort wasted on  
quality control work ✓

**Socialize & train the newcomers!** ✓



  
huggle

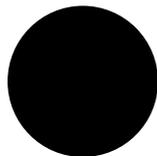


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huggle



User:ClueBot NG

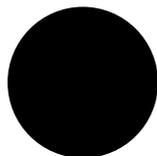


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Minimize effort wasted on  
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**Socialize & train the newcomers!** ✓



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

Labor intensive, performance considerations, etc.

  
huggle

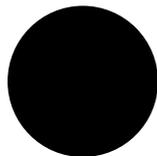


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Labor intensive, performance considerations, etc.

# Revision scoring as a service!

- He7d3r
- とある白い猫
- Ladsgroup
- Danilo.mac

# Revision scoring as a service!

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- とある白い猫
- Ladsgroup
- Danilo.mac

  
huggle



User: ClueBot NG







# Revision scoring as a service!

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- Ladsgroup
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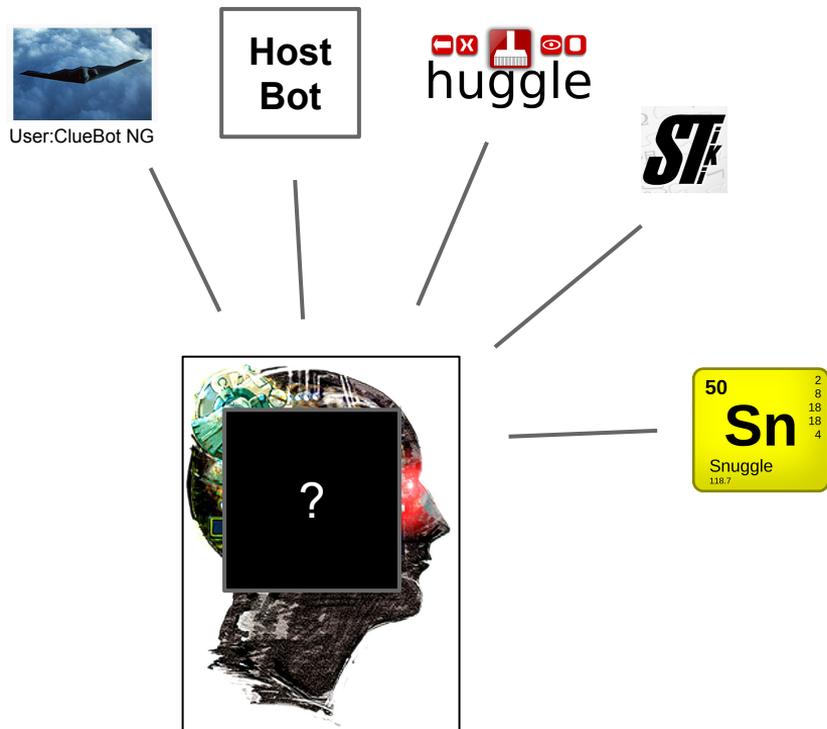


User:ClueBot NG



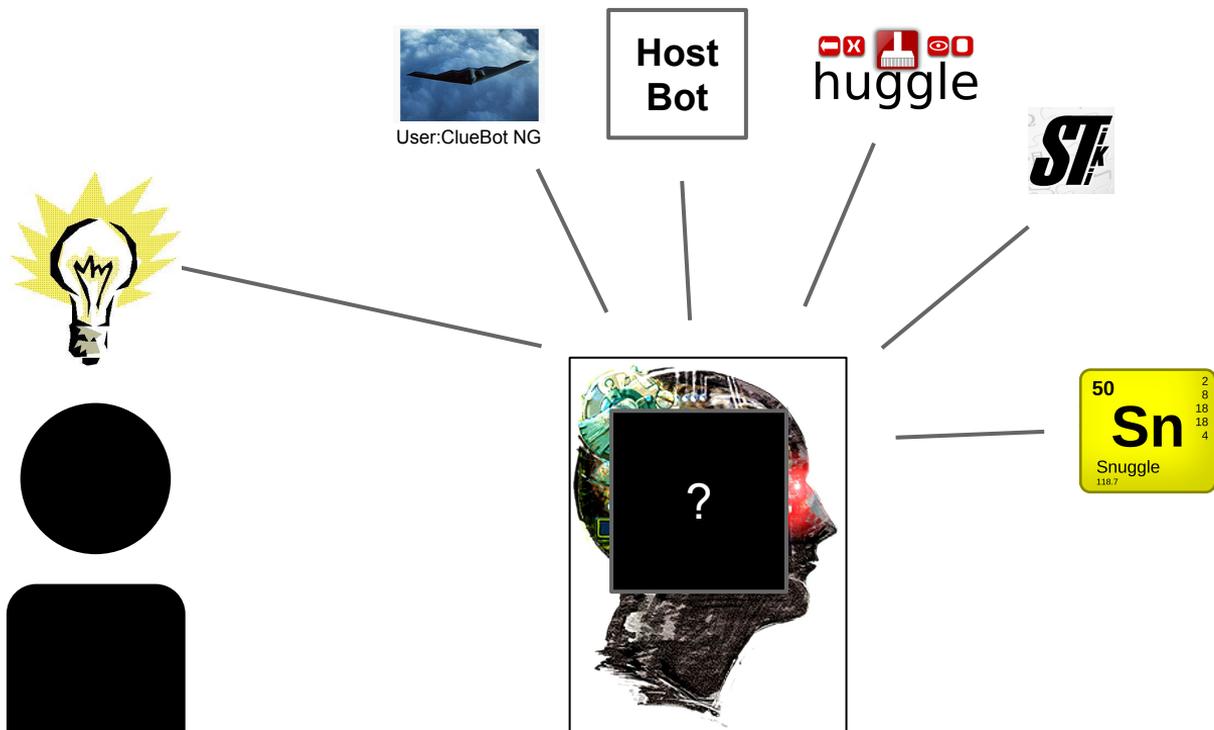
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<http://ores.wmflabs.org/scores/enwiki/?models=reverted&revids=638307884|642215410>



<http://ores.wmflabs.org/scores/enwiki/?models=reverted&revids=638307884|642215410>

<http://ores.wmflabs.org/scores/enwiki/?models=reverted&revids=638307884|642215410>



<http://ores.wmflabs.org/scores/enwiki/?models=reverted&revids=638307884|642215410>

```
"638307884": {
  "reverted": {
    "prediction": false,
    "probability": {
      "false": 0.7638,
      "true": 0.2362
    }
  }
},
"642215410": {
  "reverted": {
    "prediction": true,
    "probability": {
      "false": 0.0473,
      "true": 0.9527
    }
  }
}
```

- In 2013 Wilson, in collaboration with [[Mikhail Baryshnikov]] and co-starring [[Willem Dafoe]], developed "[[The Old Woman]]" an adaptation of the work by the Russian author [[Daniil Kharms]]. The play premiered at MIF13, Manchester International Festival.<ref>{{Cite web|url = http://www.mif.co.uk/event/the-old-woman|title = The Old Woman Robert Wilson, Mikhail Baryshnikov, Willem Dafoe|date = 2013|accessdate = 2014-11-23|website = Manchester International Festival|publisher = Manchester International Festival|last = Jansch|first = Lucie}}</ref> Wilson wrote that he and [[Mikhail Baryshnikov|Baryshnikov]] have discussed creating a play together for years, perhaps based on a Russian text.<ref>{{Cite web|url = http://calperformances.org/learn/program\_notes/2014/pn\_oldwoman.pdf|title = Cal Performances University of California, Berkeley Playbill|date = 2014|accessdate = 2014-11-23|website = Calperformances|publisher = UC Berkeley|last = Wilson|first = Robert}}</ref> The final production included dance, light, singing and bilingual monologue.

+ In 2013 Wilson, in collaboration with [[Mikhail Baryshnikov]] and co-starring [[Willem Dafoe]], developed "[[**The Old Woman (play)**]]The Old Woman]", an adaptation of the work by the Russian author [[Daniil Kharms]]. The play premiered at MIF13, Manchester International Festival.<ref>{{Cite web|url = http://www.mif.co.uk/event/the-old-woman|title = The Old Woman Robert Wilson, Mikhail Baryshnikov, Willem Dafoe|date = 2013|accessdate = 2014-11-23|website = Manchester International Festival|publisher = Manchester International Festival|last = Jansch|first = Lucie}}</ref> Wilson wrote that he and [[Mikhail Baryshnikov|Baryshnikov]] have discussed creating a play together for years, perhaps based on a Russian text.<ref>{{Cite web|url = http://calperformances.org/learn/program\_notes/2014/pn\_oldwoman.pdf|title = Cal Performances University of California, Berkeley Playbill|date = 2014|accessdate = 2014-11-23|website = Calperformances|publisher = UC Berkeley|last = Wilson|first = Robert}}</ref> The final production included dance, light, singing and bilingual monologue.

- "Intelligence" is hard to define, whether in dogs, other animals, or humans. The ability to learn quickly might be taken as a sign of [[intelligence (trait)|intelligence]], but such evidence must be interpreted with care, because learning speed may be affected by such things as the effectiveness of the rewards used in training or the motivation or activity level of the dog. For example, some breeds, such as [[Siberian Husky|Siberian Huskies]], are said to be not particularly rewarded by pleasing their owners, but quickly learn to escape from yards or catch small animals, often using ingenious ways of doing both.<ref><http://siberianhuskycentral.com/siberian-husky-dogs/are-siberian-huskies-good-dogs></ref>

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# <https://github.com/he7d3r/mw-gadget-RCScoreFilter>

(80 lines of javascript!)

13 May 2015

- 04:40 [Ibiza Airport](#) (diff | hist) . . (-184) . . [Citydude1017](#) (talk | contribs) (*→ Airlines and destinations: long ended*)
- 04:40 [Shoegazing](#) (diff | hist) . . (+17) . . [71.60.236.130](#) (talk)
- ▶ 04:40 [Emma \(wrestler\)](#) (2 changes | history) . . (-836) . . [[CEDJunior](#) (2×)]
- 04:40 [Wikipedia talk:WikiProject Military history/Coordinators](#) (diff | hist) . . (+124) . . [Peacemaker67](#) (talk | contribs) (*→ ACRs for closure: -1*)
- N 04:40 [User talk:24.72.138.59](#) (diff | hist) . . (+472) . . [Materialscientist](#) (talk | contribs) (*→ Created page with '{{subst:uw-test2}} ~~~~'*)
- 04:40 [User:Tigercompanion25](#) (diff | hist) . . (+22) . . [Joshua Jonathan](#) (talk | contribs) (*Added template. See talkpage*)
- 04:40 [Category:Banks \(singer\) albums](#) (diff | hist) . . (-37) . . [Erpert](#) (talk | contribs) (*tweak*)
- ▶ 04:40 [Sara Zaker](#) (4 changes | history) . . (+6) . . [[Fatima.baki](#) (4×)]
- ▶ 04:40 [Sinbad Formation](#) (6 changes | history) . . (-46) . . [[Chipperkwah](#); [Hughana](#) (5×)]
- N 04:40 [User talk:173.176.191.149](#) (diff | hist) . . (+472) . . [Materialscientist](#) (talk | contribs) (*→ Created page with '{{subst:uw-test2}} ~~~~'*)
- 04:40 [Dexter's Laboratory](#) (diff | hist) . . (-1) . . [Phil A. Fry](#) (talk | contribs) (*→ Premise*)
- N ! 04:40 [Portland moth](#) (diff | hist) . . (+54) . . [SchreiberBike](#) (talk | contribs) (*{{R to scientific name}}*)
- 04:40 [John Roche](#) (diff | hist) . . (-109) . . [Jgroche58](#) (talk | contribs)
- 04:40 [User talk:NickW557](#) (diff | hist) . . (+236) . . [Youngvoltage](#) (talk | contribs)
- 04:40 [Sosha Makani](#) (diff | hist) . . (+1) . . [Perspolis-ghermez](#) (talk | contribs)
- m 04:40 [Córdoba CF](#) (diff | hist) . . (+1) . . [Materialscientist](#) (talk | contribs) (*Reverted edits by 173.176.191.149 (talk) to last version by The Almighty Drill*)
- 04:40 [USNS Coastal Crusader \(T-AGM-16\)](#) (diff | hist) . . (+770) . . [Pennsy22](#) (talk | contribs) (*expanded, fixed DANFS link*)

# **Part 3.5: Feminist HCI inspiration**

Critique → Design



**“Subjective Algorithms”**

"algorithms, often aided by big data, now make decisions in subjective realms where there is **no right decision**, and no anchor with which to judge outcomes."

Tufekci, Z. (2015). Algorithms in our Midst: Information, Power and Choice when Software is Everywhere. CSCW (pp. 1918-1918). ACM.

"algorithms, often aided by big data, now make decisions in subjective realms where there is **no right decision**, and no anchor with which to judge outcomes."

Tufekci, Z. (2015). Algorithms in our Midst: Information, Power and Choice when Software is Everywhere. CSCW (pp. 1918-1918). ACM.

What is good? relevant? important? desirable? valuable?

is\_anon  
chrs\_added  
chrs\_removed  
cust\_comment  
repeated\_chrs  
longest\_token  
badwords\_added



Good.

BAD!

is\_anon  
chrs\_added  
chrs\_removed  
cust\_comment  
repeated\_chrs  
longest\_token  
badwords\_added



**Good.**  
and some important bad  
stuff

**BAD!**  
and some important  
good stuff

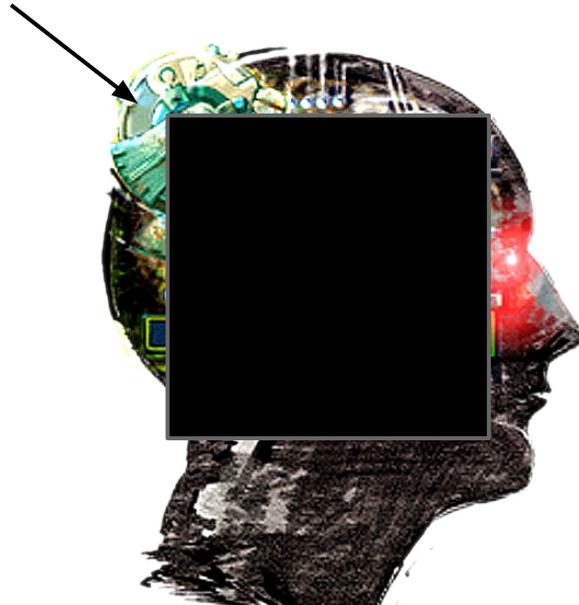
Please exercise *extreme caution* to avoid encoding racism or other biases into an AI scheme. For example, there are some editors who have a major bias against having articles on every village in Pakistan, even though we have articles on every village in the U. S. Any trace of the local writing style, like saying "beautiful village", or naming prominent local families, becomes the object of ridicule for these people. Others can object to that, however. But AI (especially neural networks, but any little-studied code really) offers the last bastion of privacy. It's a place for making decisions and never mind anybody how that decision was decided. My feeling is that editors should keep a healthy skepticism - this was a project meant to be written, and reviewed, by people. [Wnt \(talk\)](#) 12:58, 20 February 2015 (UTC)

From [Wikipedia:Wikipedia\\_Signpost/2015-02-18/Special\\_report](https://en.wikipedia.org/wiki/Wikipedia:Signpost/2015-02-18/Special_report)

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Reverted/Not reverted



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Reverted/Not reverted



**BAD!**  
and edits to Pakistan  
Villages

# “Feedback”

Reverted/Not reverted



“beautiful village”

**BAD!**

and edits to Pakistan Villages

# “Feedback”

Reverted/Not reverted



**BAD!**  
and edits to Pakistan  
Villages

# “Feedback”

Reverted/Not reverted



Pakistan Villages

# **Empowerment vs. Power over**

# **Empowerment vs. Power over**

“hearing to speech”

vs.

“speaking first to be heard”

“hearing to speech” -- I’ll want to hear what you have to say.

“speaking first to be heard” -- I want to set the tone of our conversation by talking first.

# “Conversations” about algorithms

- BA & PhD in Computer Science
- My managers give me space (Toby & Dario <3)
- Software engineering background (~3 years)
- Psychology and Social science background

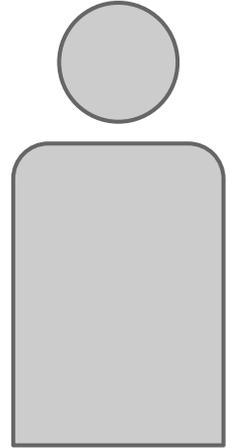
I think we should talk about  
damaging/not-damaging.





I think we should talk about  
damaging/not-damaging.

I think we should talk about  
<something else>.





<Something else>

<Something else>



<Something else>



- Main page
- Contents
- Featured content
- Current events
- Random article
- Donate to Wikipedia
- Wikipedia store

Interaction

- Help
- About Wikipedia
- Community portal
- Recent changes
- Contact page

Tools

- What links here
- Related changes
- Upload file
- Special pages
- Permanent link
- Page information
- Wikidata item

Print/export

- Create a book
- Download as PDF
- Printable version

Languages

- فارسی
- Português
- Türkçe

[Edit links](#)

# Wikipedia:Labels

From Wikipedia, the free encyclopedia



- Home
- About
- Campaigns
- Documentation
- Participants

In order to perform difficult analyses and train intelligent wiki-tools (e.g. for detecting vandalism and assessing the quality of articles), we need **labeled data** and lots of it. **Wikipedia:Labels** is the project on the English Wikipedia for getting the labeling work done. We use the m:Wiki labels tool to collaboratively label wiki artifacts quickly and easily.

## Campaigns

**-** Edit quality (20k random sample, 2015)

2015-05-08 (50/50)	review
2015-05-09 (15/50)	open

[request workset](#)

fullscreen

Workset



Damaging?  Yes  No <sup>ⓘ</sup>    Good faith?  Yes  No <sup>ⓘ</sup>    Unsure?

Save

## Category:Songs written by Celeste Buckingham

Diff for revision 639931598

*"removed Category:Celeste Buckingham songs using HotCat"*

Line 1:

[[Song]]s written or co-written by [[Celeste Buckingham]]

[[Category:Songs by songwriter]]

- [[Category:Celeste Buckingham songs|Songs written]]

{{DEFAULTSORT:Buckingham, Celeste}}

Line 1:

[[Song]]s written or co-written by [[Celeste Buckingham]]

[[Category:Songs by songwriter]]

{{DEFAULTSORT:Buckingham, Celeste}}



- Re-labeling of damage protects against “feedback”
- Generalized “labeling” system eases the construction of new classifiers (to “hear”)

Wikipedia:Labels

From Wikipedia, the free encyclopedia

Home About Campaigns Documentation Participants

In order to perform difficult analyses and train intelligent wiki-tools (e.g. for detecting vandalism and assessing the quality of articles), we need **labeled data** and lots of it. **Wikipedia:Labels** is the project on the English Wikipedia for getting the labeling work done. We use the m:Wiki labels tool to collaboratively label wiki artifacts quickly and easily.

### Campaigns

- Edit quality (20k random sample, 2015)

2015-05-08 (50/50)	review
2015-05-09 (15/50)	open

request workset

Workset fullscreen

Damaging? Yes No ⓘ Good faith? Yes No ⓘ Unsure?

Save

**Category:Songs written by Celeste Buckingham**

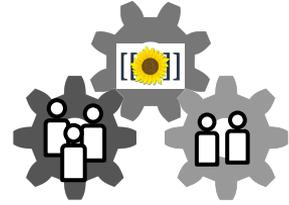
Diff for revision 639931598

*"removed Category:Celeste Buckingham songs using HotCat"*

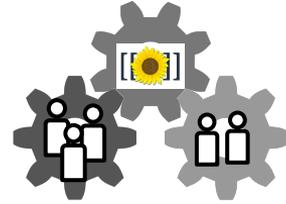
<p><b>Line 1:</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">[[Song]]s written or co-written by [[Celeste Buckingham]]</div> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">[[Category:Songs by songwriter]]</div> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">- [[Category:Celeste Buckingham songs Songs written]]</div> <div style="border: 1px solid #ccc; padding: 2px;">{{DEFAULTSORT:Buckingham, Celeste}}</div>	<p><b>Line 1:</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">[[Song]]s written or co-written by [[Celeste Buckingham]]</div> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">[[Category:Songs by songwriter]]</div>
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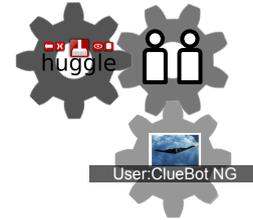
# 1. Systems & socio-technical in Wikipedia



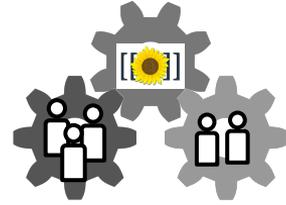
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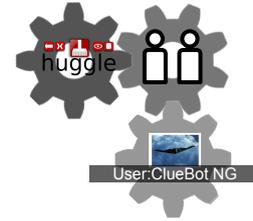
# 2. Critique of algorithmic quality control



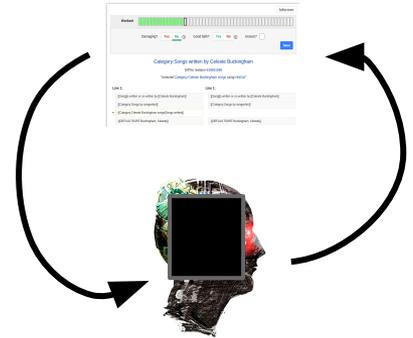
# 1. Systems & socio-technical in Wikipedia



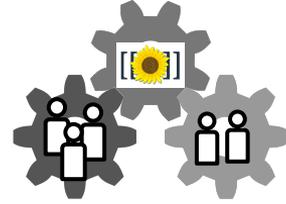
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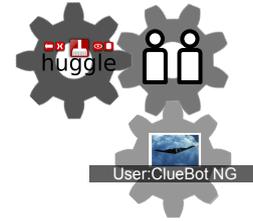
# 3. Infrastructure for socio-technical change



# 1. Systems & socio-technical in Wikipedia



# 2. Critique of algorithmic quality control

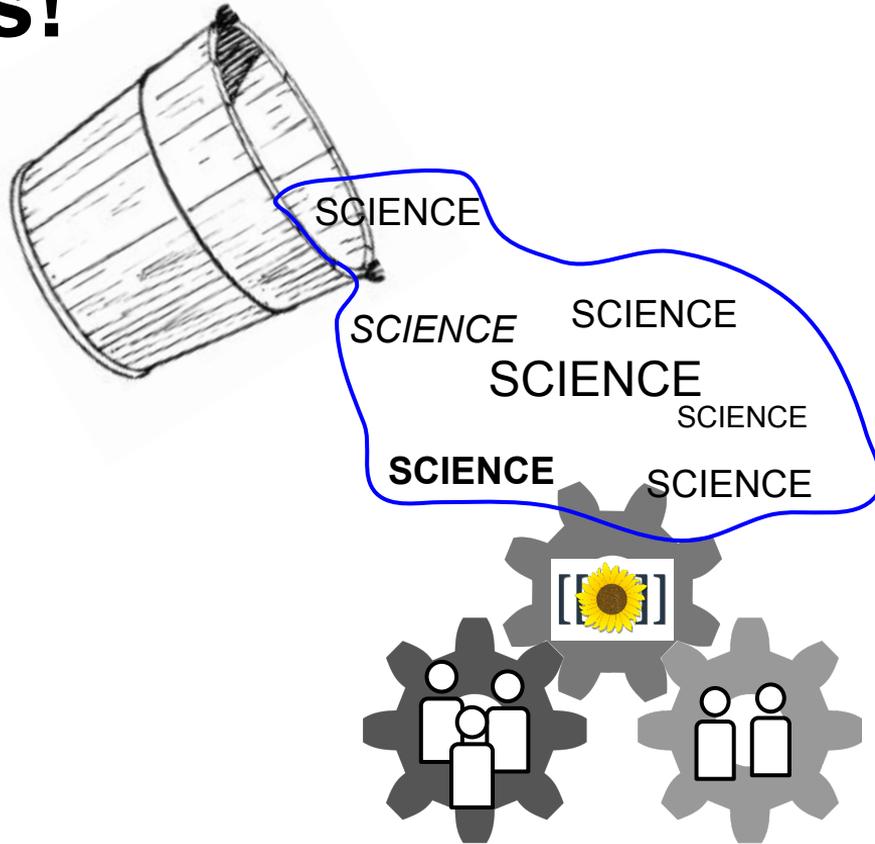


# 3. Infrastructure for socio-technical change

- Feminist HCI inspiration



# Thanks!



## Props to my collaborators

- User:He7d3r
- User:とある白い猫
- User:Ladsgroup
- User:Danilo.mac
- User:Staeiou