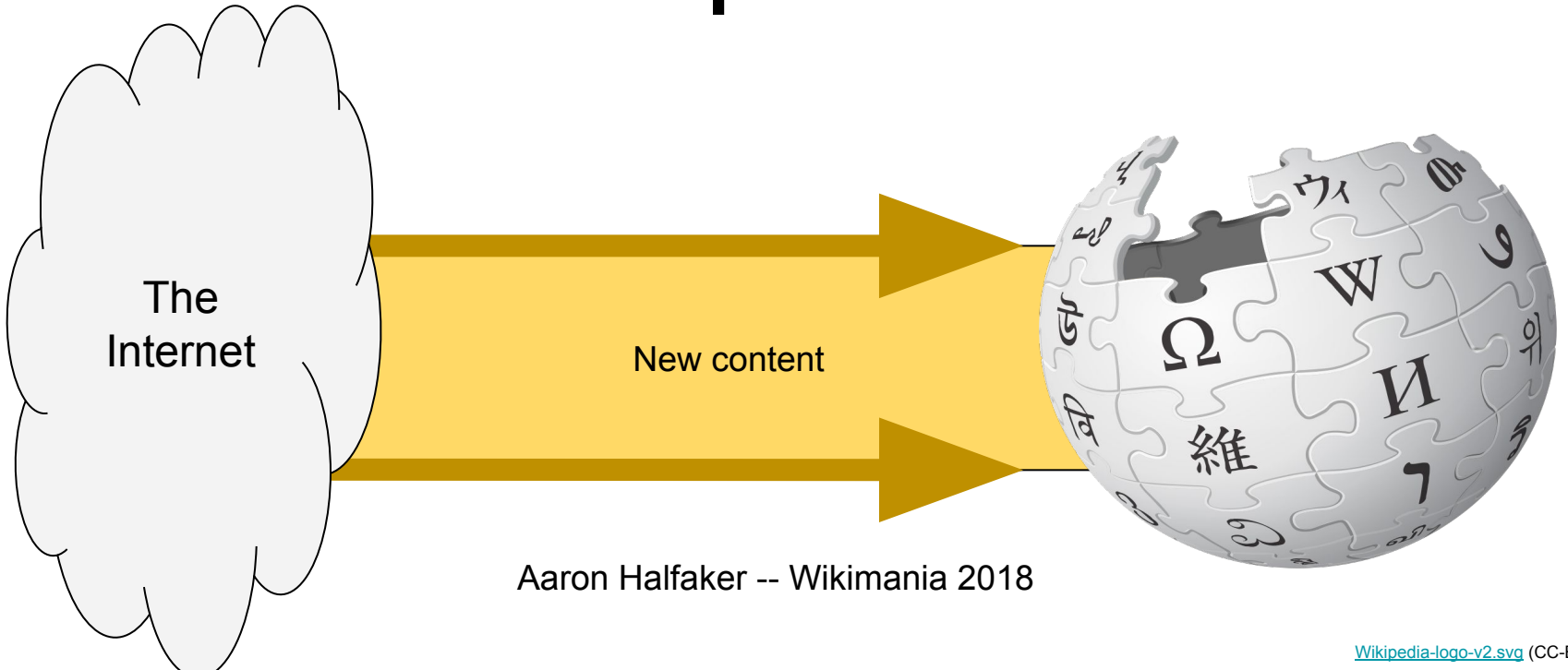
Using AI to keep Wikipedia open



Aaron Halfaker -- Wikimania 2018

Wikipedia-logo-v2.svg (CC-BY-SA 3.0)

Aaron Halfaker

Principal Research Scientist, Wikimedia Foundation

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

Halfaker_Aaron_Sept_2013.jpg (CC-BY-SA 3.0)

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 staff account. See my volunteer account, User:EpochFail, for my non-staff work.

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, newcomer training, etc.)

See The Rise and Decline for an example of my research and Revision scoring as a service for an example of an experimental technology I'm actively working on.

Contact me

- E-mail: ahalfaker@wikimedia.org
- Website: http://halfaker.info
- Twitter: http://twitter.com/halfak
- On IRC, I go by "halfak".

iD This user has the ORCID identifier: 0000-0001-8907-6367

https://meta.wikimedia.org/wiki/User:Halfak_(WMF) (CC-BY-SA 3.0)

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https://meta.wikimedia.org/wiki/User:Halfak_(WMF) (CC-BY-SA 3.0)

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About me

My work

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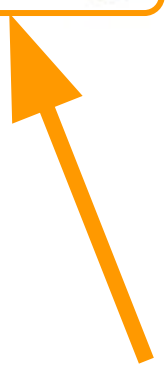
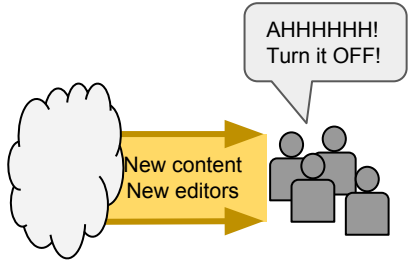


About me

My work

1. Openness vs. quality control



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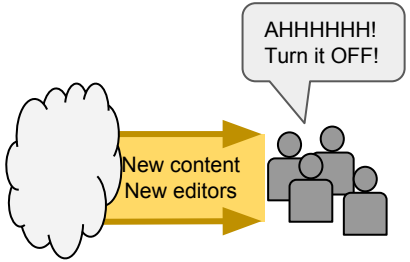
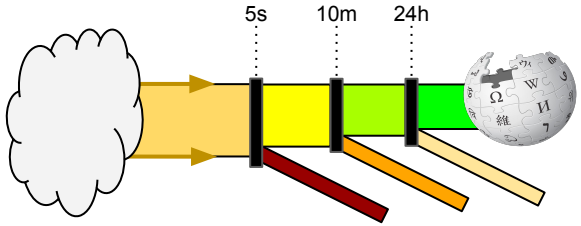


2. Scaling review process



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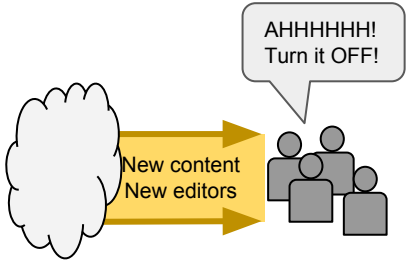

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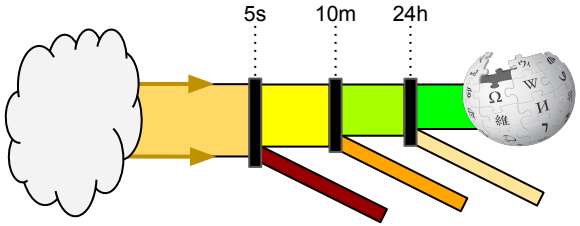
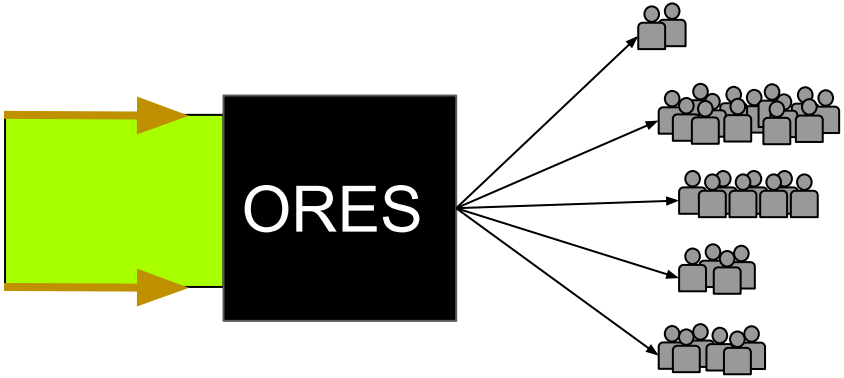
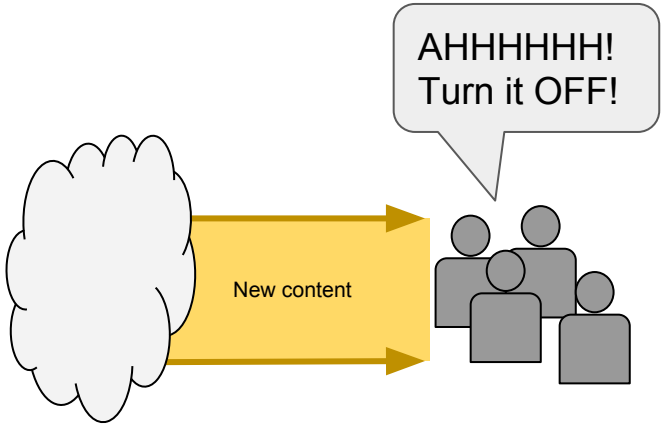


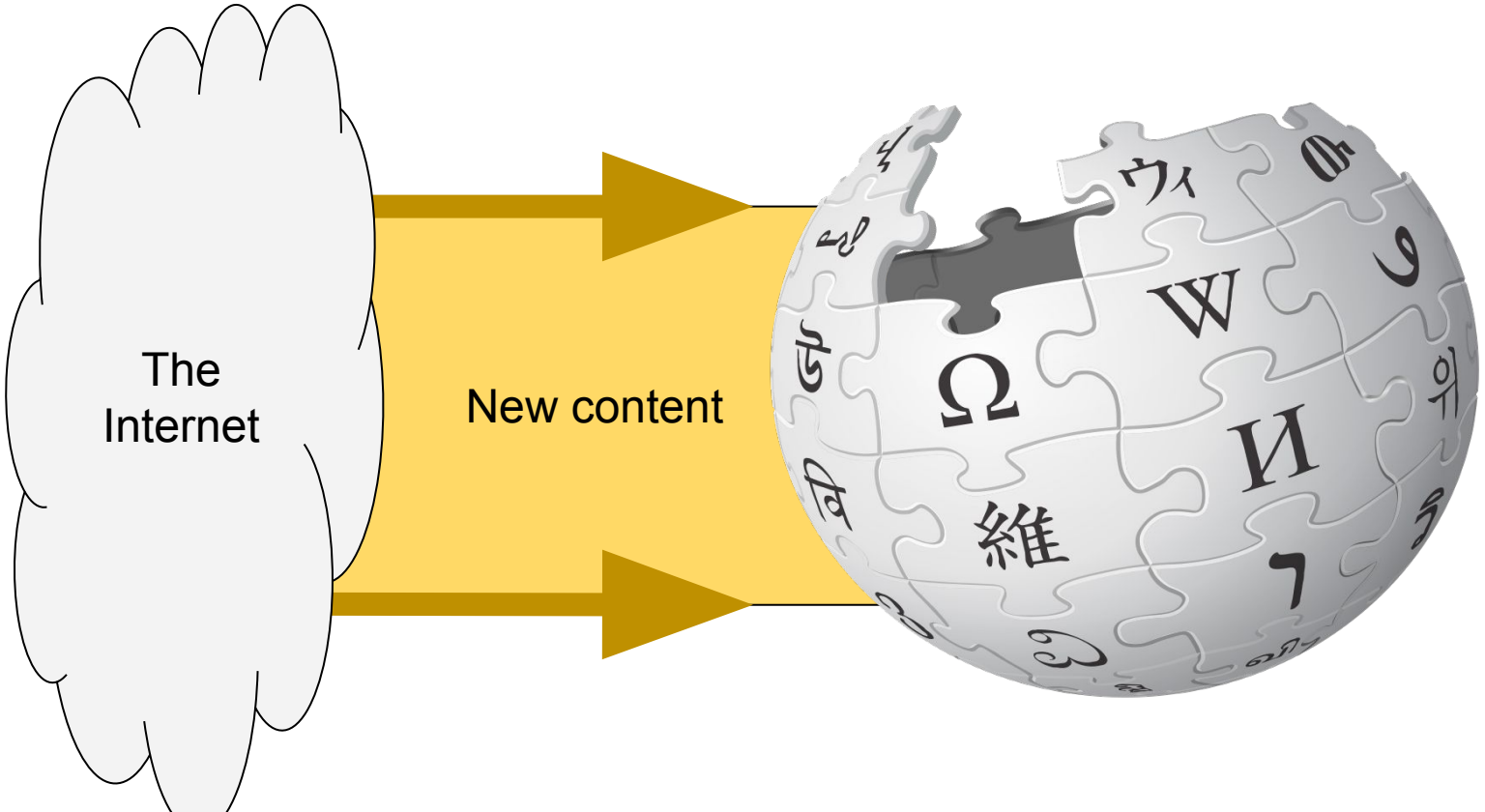
3. Using AI to re-shape new article review



Part 1

Openness vs. quality control

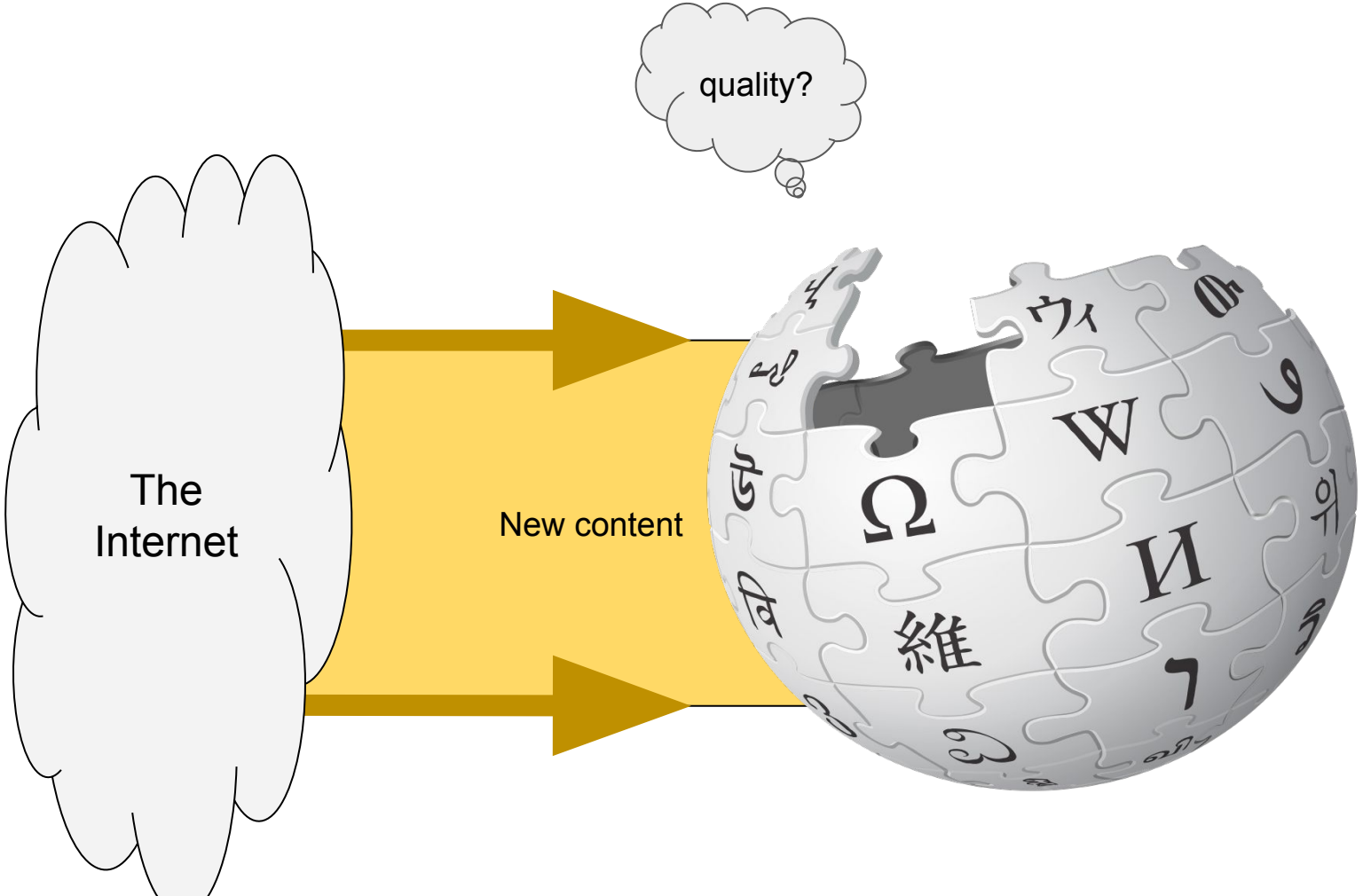


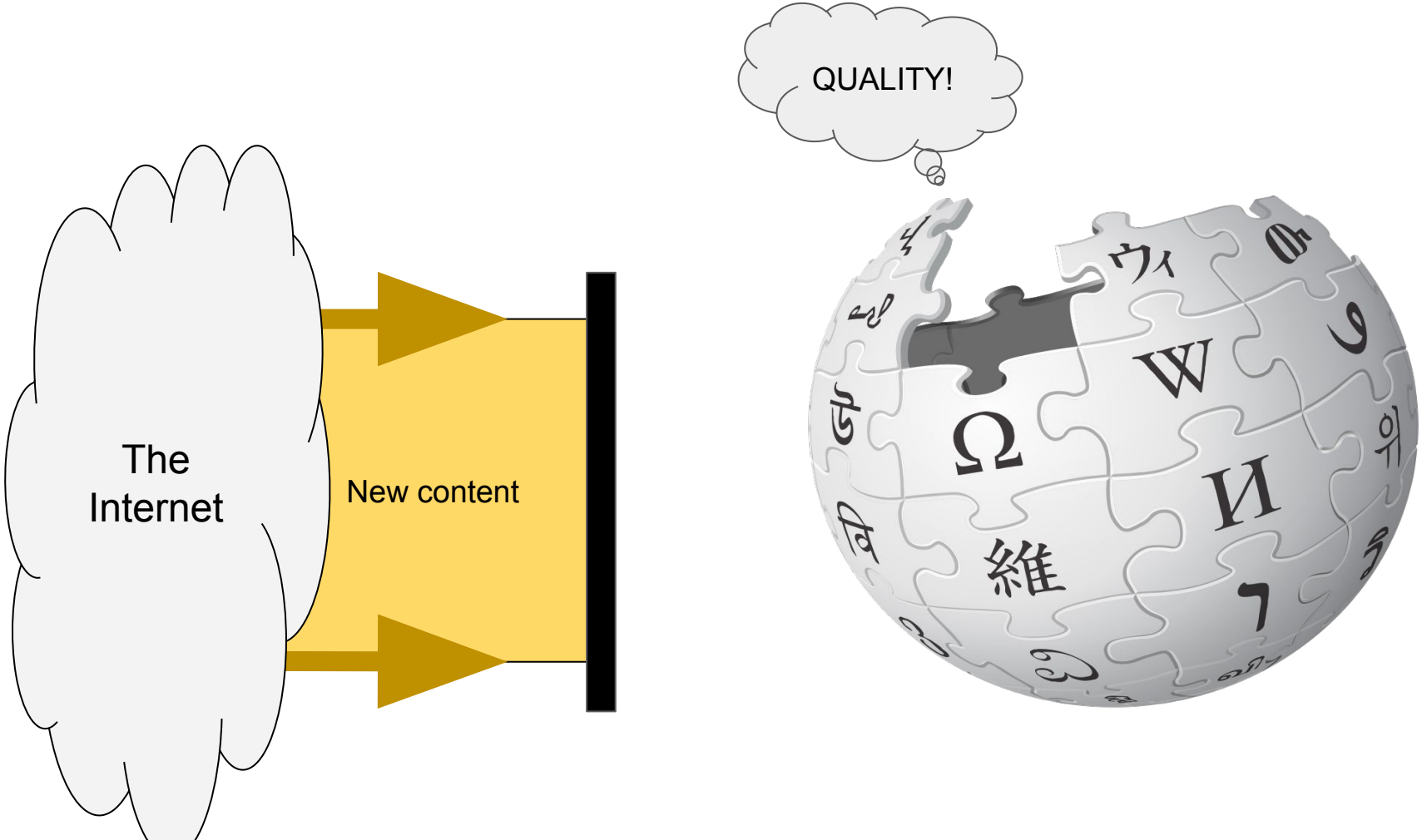

The
Internet
New content

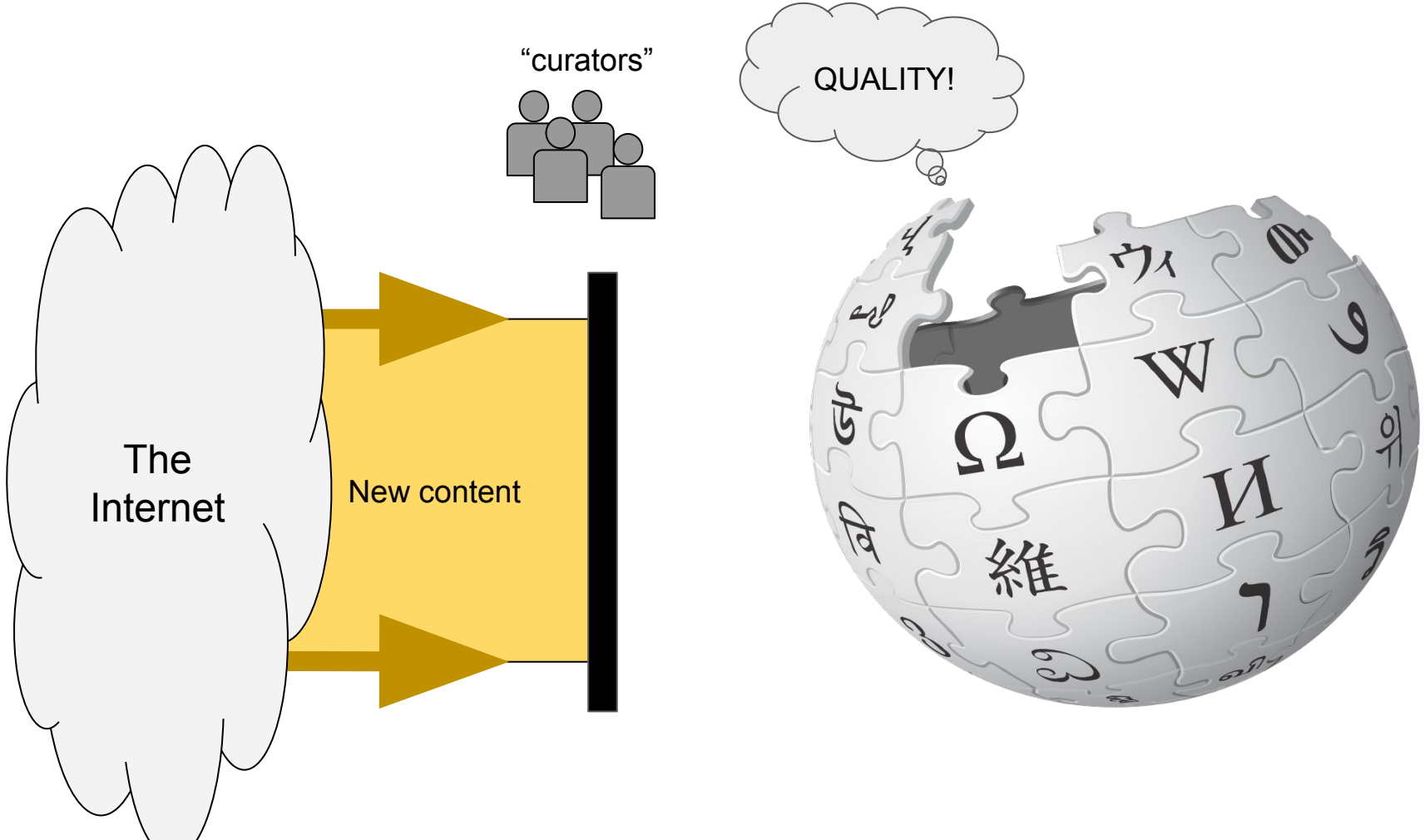
OMG NEW CONTENT (enwiki)

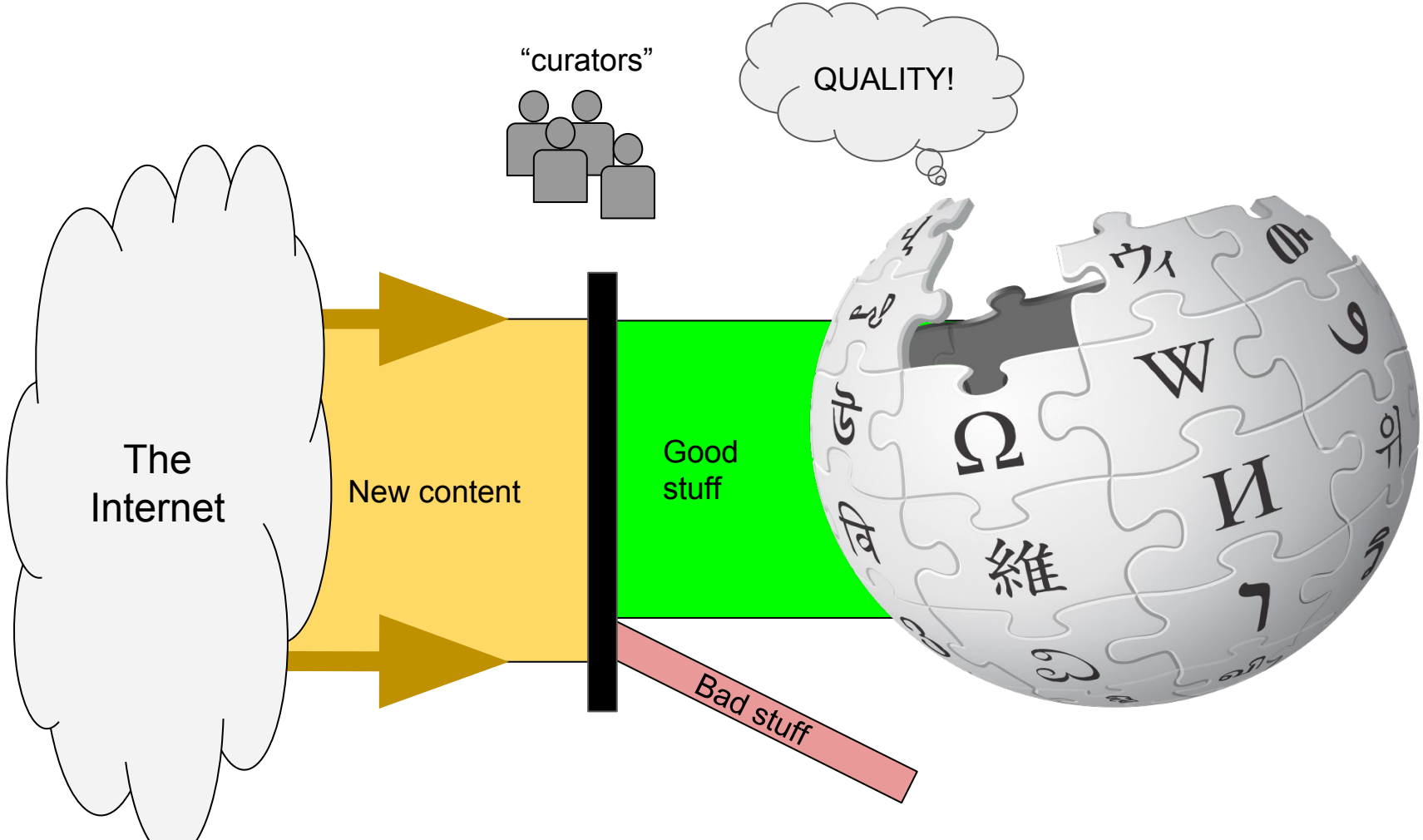
- 160k edits to review / day[1]
- 1-2k new Article creations / day
  - ~40k drafts need review & 200 new / day[2]
- 330k articles need cleanup[3]
- 1600 new editors / day[4]

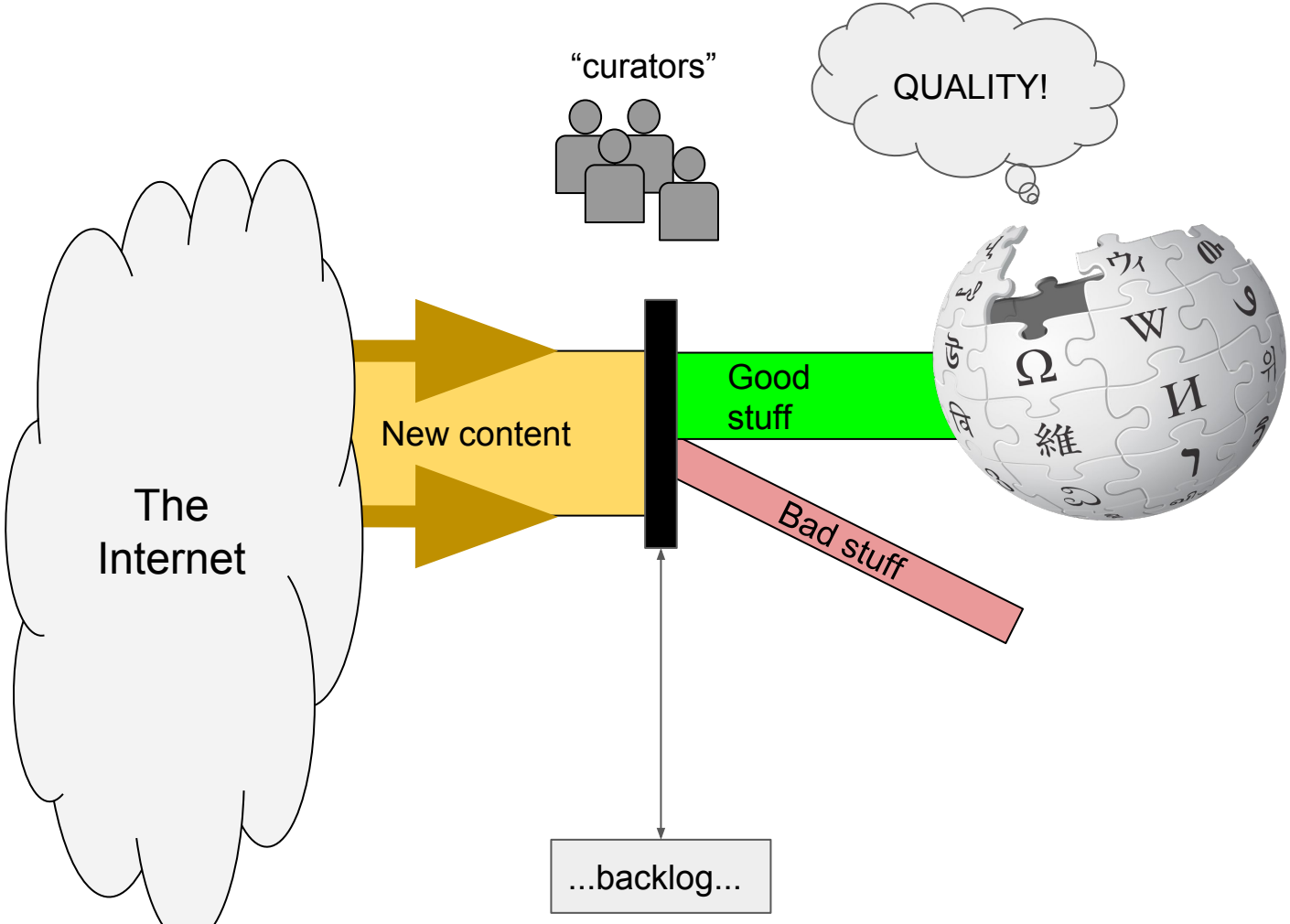
1. http://quarry.wmflabs.org/query/4387
2. http://quarry.wmflabs.org/query/4386
3. http://quarry.wmflabs.org/query/4388
4. http://quarry.wmflabs.org/query/4389

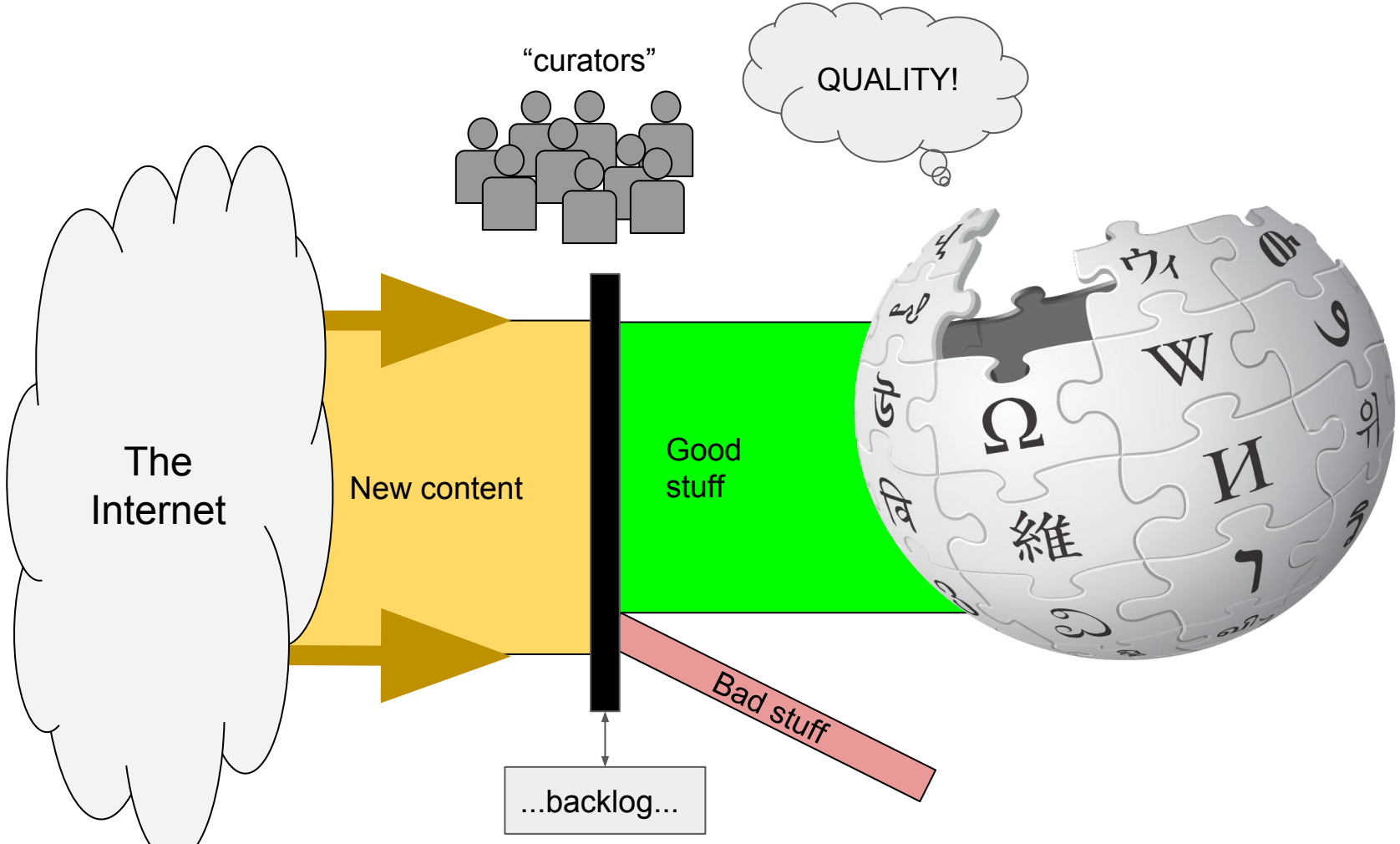

quality?
The Internet
New content

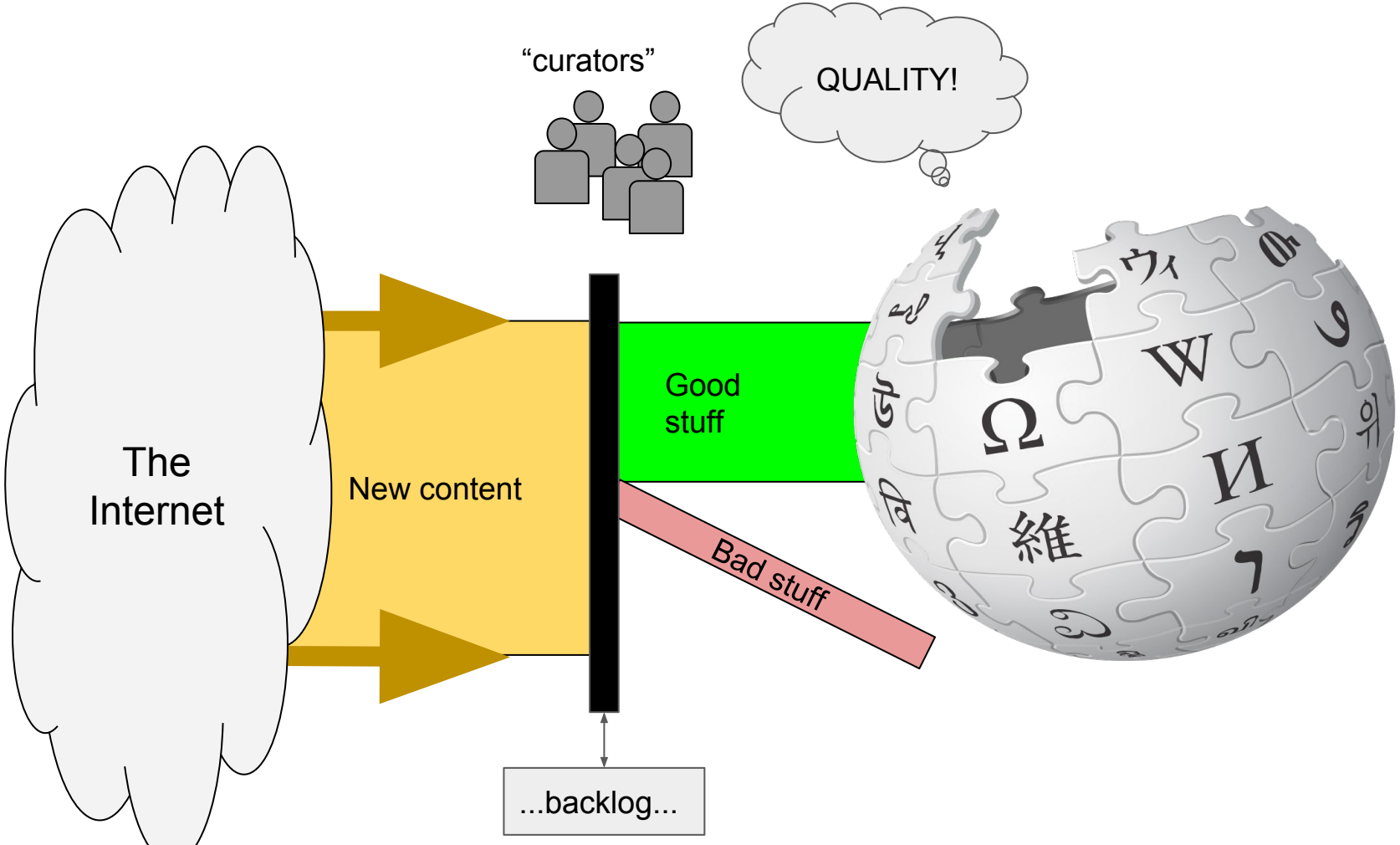

QUALITY!
The Internet
New content


“curators”
QUALITY!
The Internet
New content


“curators”
QUALITY!
The Internet
New content
Good stuff
Bad stuff


“curators”
QUALITY!
The Internet
New content
Good stuff
Bad stuff
...backlog...


“curators”
QUALITY!
The Internet
New content
Good stuff
Bad stuff
...backlog...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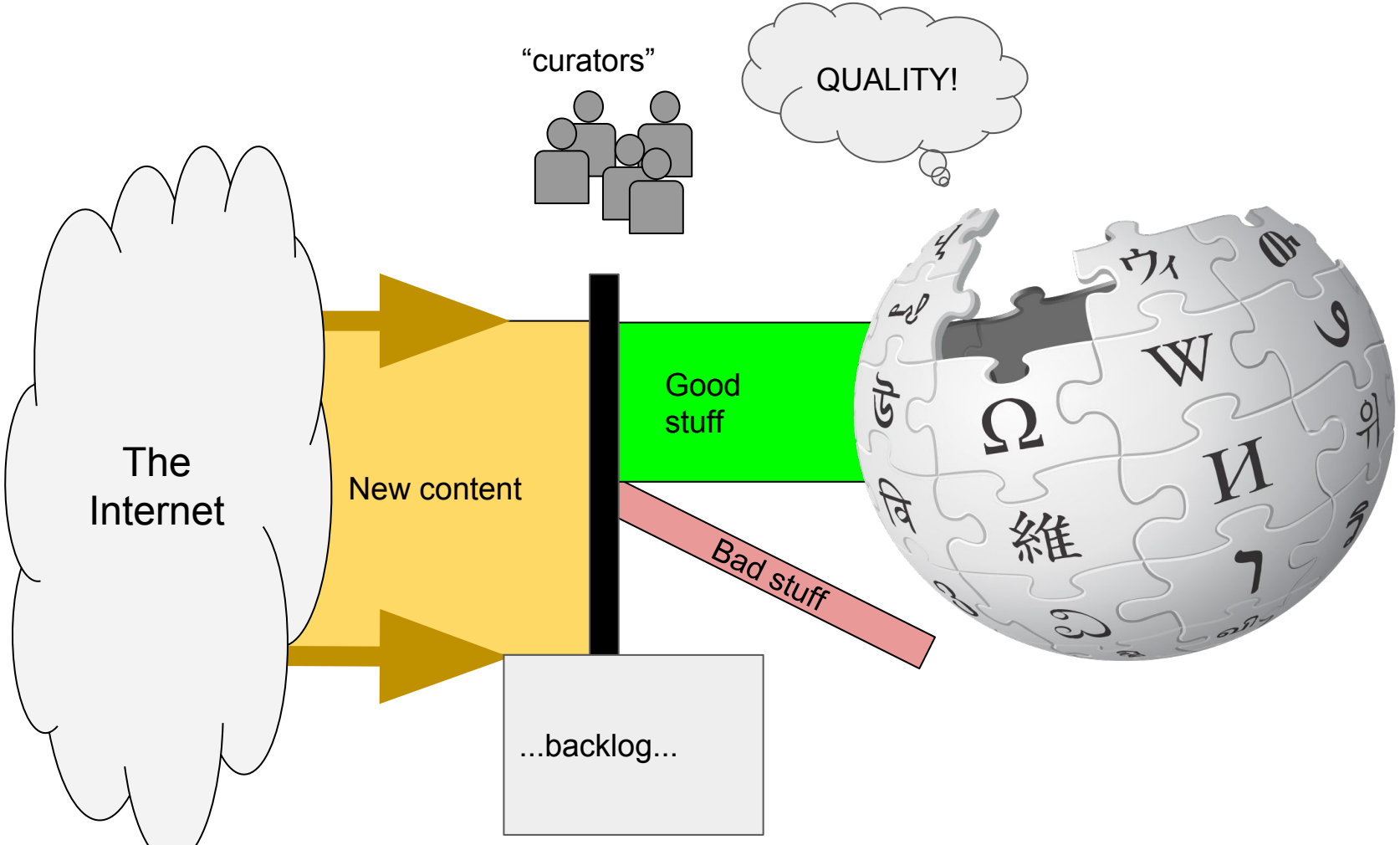
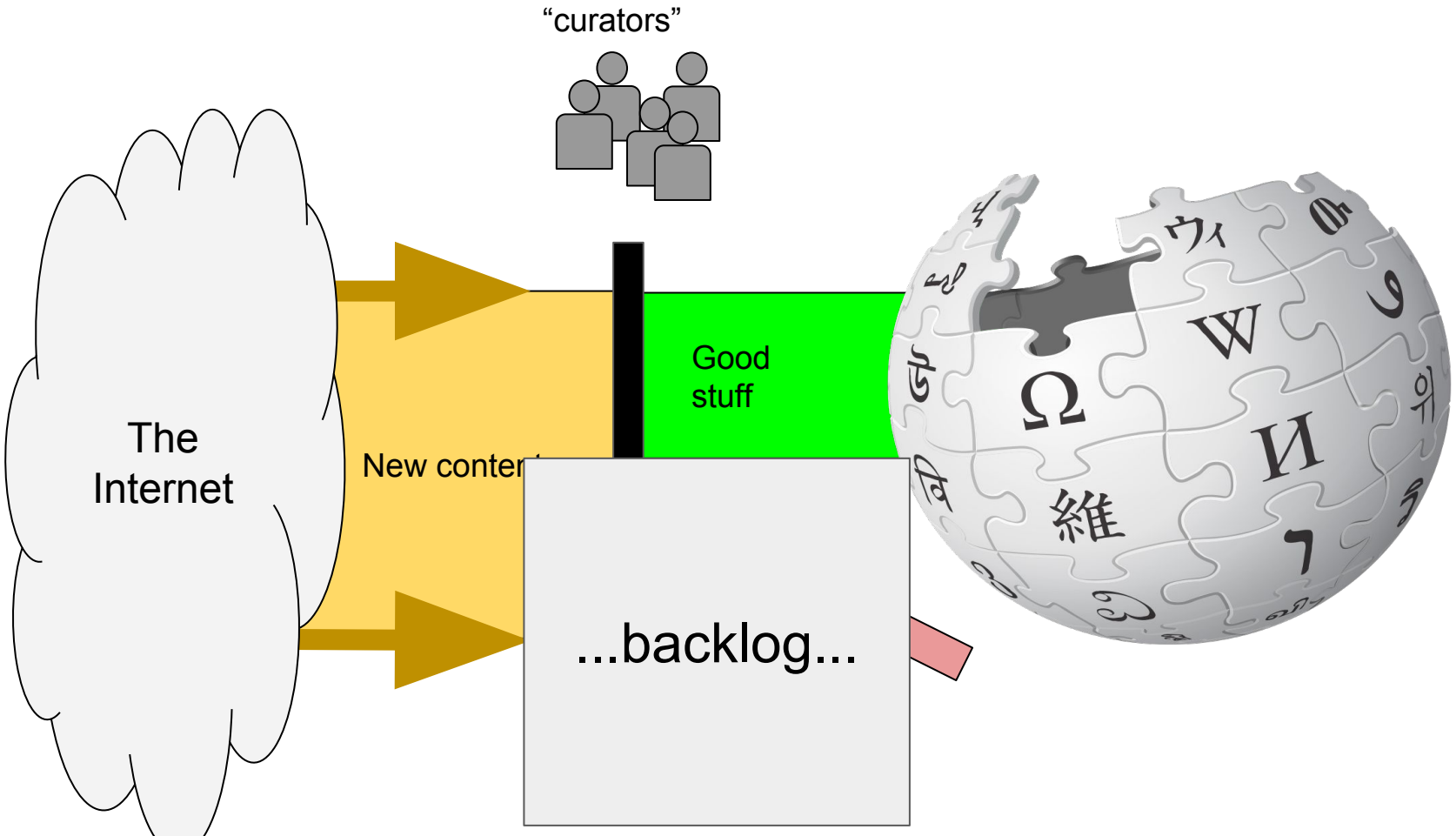
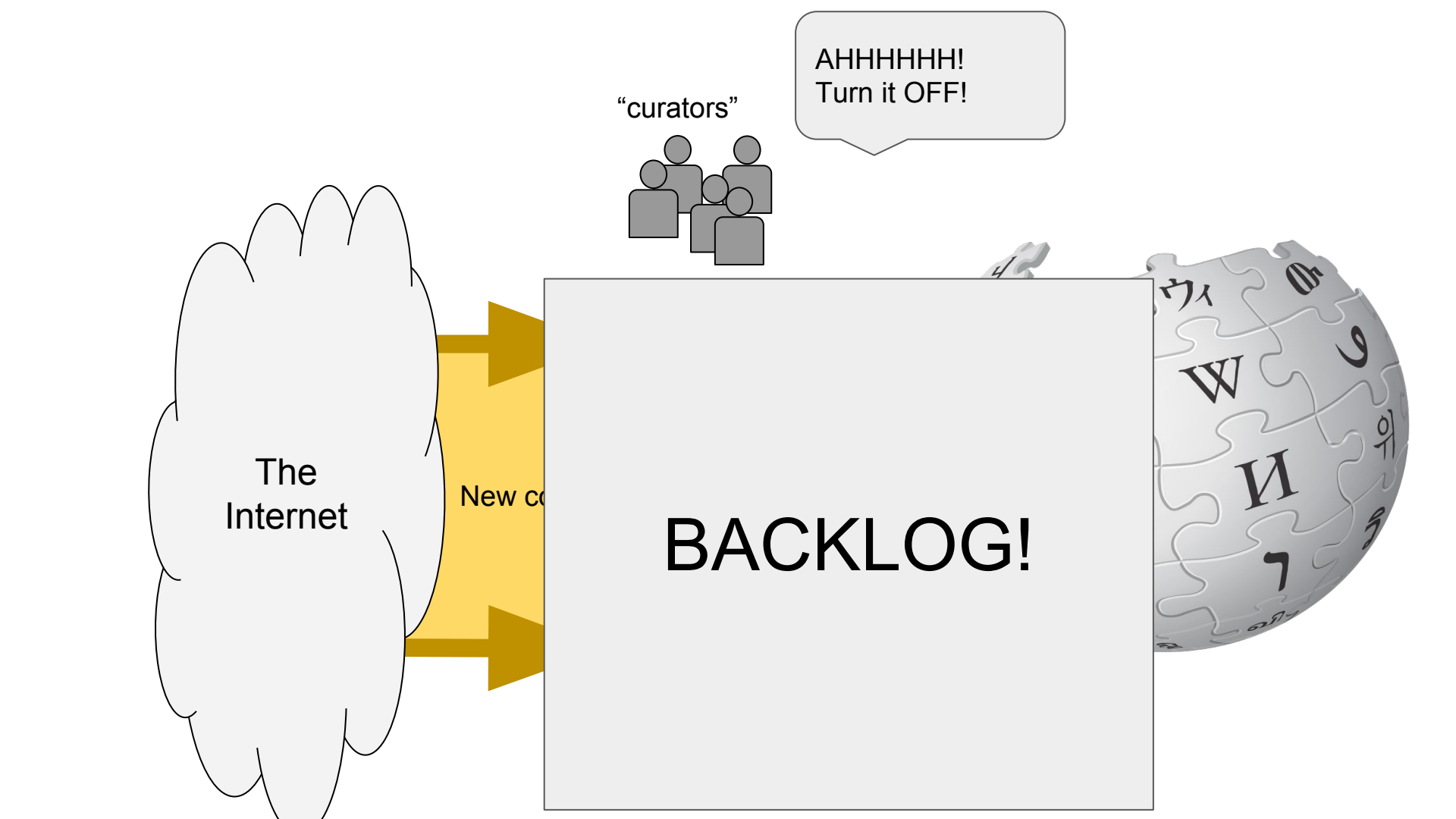
QUALITY!
The Internet
New content
Good stuff
Bad stuff
...backlog...


“curators”
QUALITY!
The Internet
New content
Good stuff
Bad stuff
...backlog...


“curators”
The Internet
New conten
Good stuff
...backlog...


AHHHHHH!
Turn it OFF!
“curators”
The Internet
New co
BACKLOG!

In summary...

- Few curators + Small amount of new content → Small backlog

In summary...

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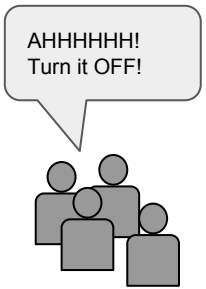
- More curators + Large amount of new content → Small backlog

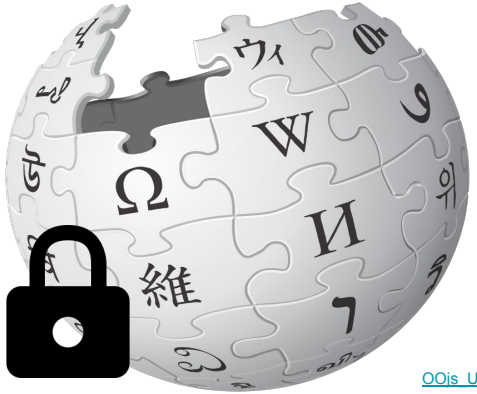
In summary...

- Few curators + Small amount of new content → Small backlog
- More curators + Large amount of new content → Small backlog
- More content than curators can handle →

Pressure to close the wiki



If we don’t get this right, it’s very tempting to close Wikipedia off.



OOjs_UI_icon_lock.svg (MIT license)

Wikipedia:Autoconfirmed article creation trial

From Wikipedia, the free encyclopedia

This page in a nutshell: Until 14 March 2018, autoconfirmed status is required in order to create new articles, as part of a six-month trial. This page is a centralized location to help plan the trial. For an original proposal, please see this archive.

Shortcut
WP:ACTRIAL

In April 2011, a proposal was put forth to require autoconfirmed status in order to create articles. (Previously only registration had been required.) In May 2011, the proposal was closed with a consensus that a trial should be implemented to test out this new idea. A second RfC was then opened to determine duration of the interventional phase of the trial, and it was decided that the interventional phase should run for 6 months, and then the changes should be reversed for a period of one month while their effects are discussed. The Wikimedia Foundation prevented the idea from going forward in 2011, but in June 2017 agreed to conduct and help implement ACTRIAL as a research experiment. In July 2017, after a post on his talk page, Jimmy Wales issued a nonbinding statement regarding ACTRIAL supporting the use of limited trials to gather data to make Wikipedia policy decisions.

The discussion on the duration and terms of the assessment of the interventional phase was announced at the Village Pump and at Centralized Discussion, and was officially closed by independent admin summary 18 August 2011, in favour of the proposal with "... a clear consensus for a six-month trial, followed by a one-month period of discussion to determine the trial's effects.

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This page in a nutshell: Until 14 March 2018, autoconfirmed status is required in order to create new articles, as part of a six-month trial. This page is a centralized location to

Shortcut
WP:ACTRIAL

#1 reason listed:

“This would reduce the workload on New Page Patrollers”

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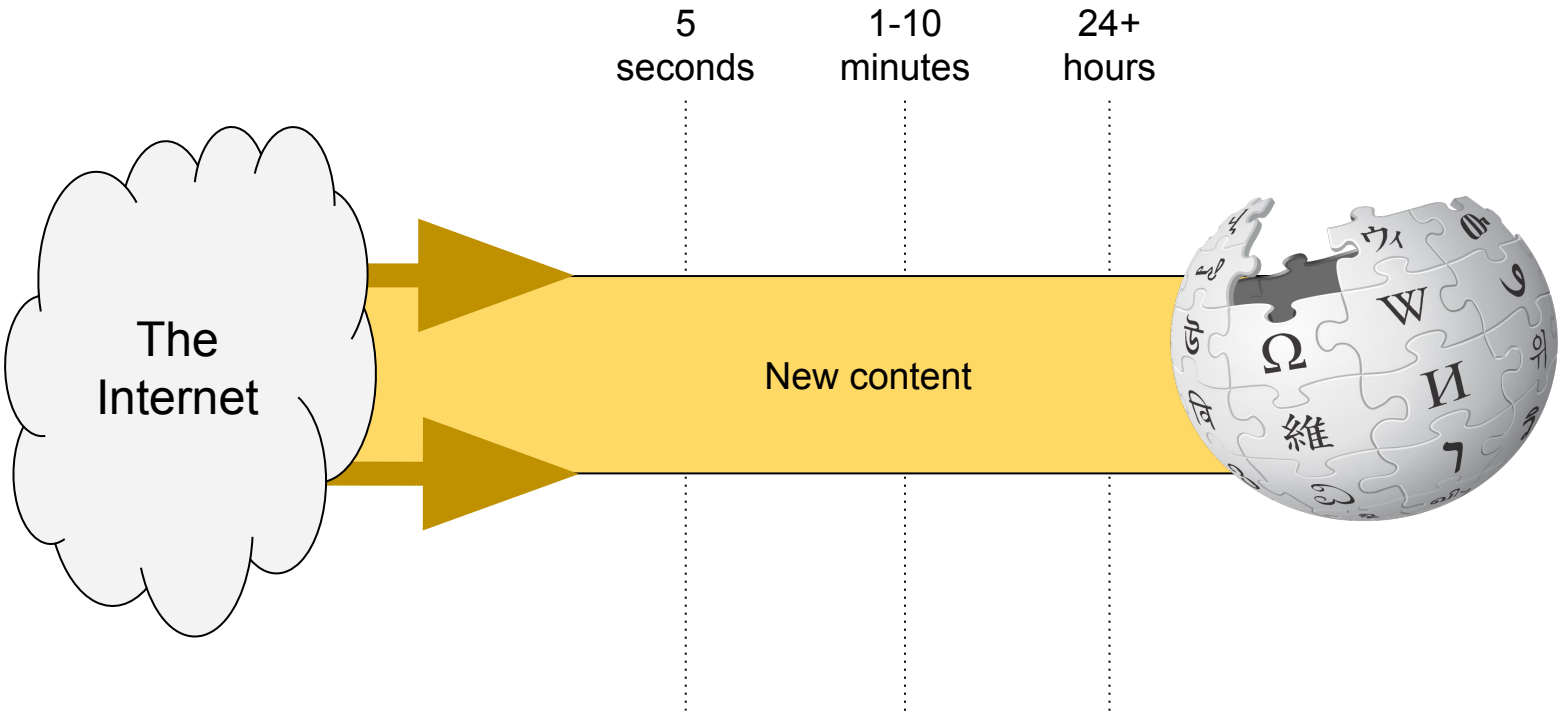
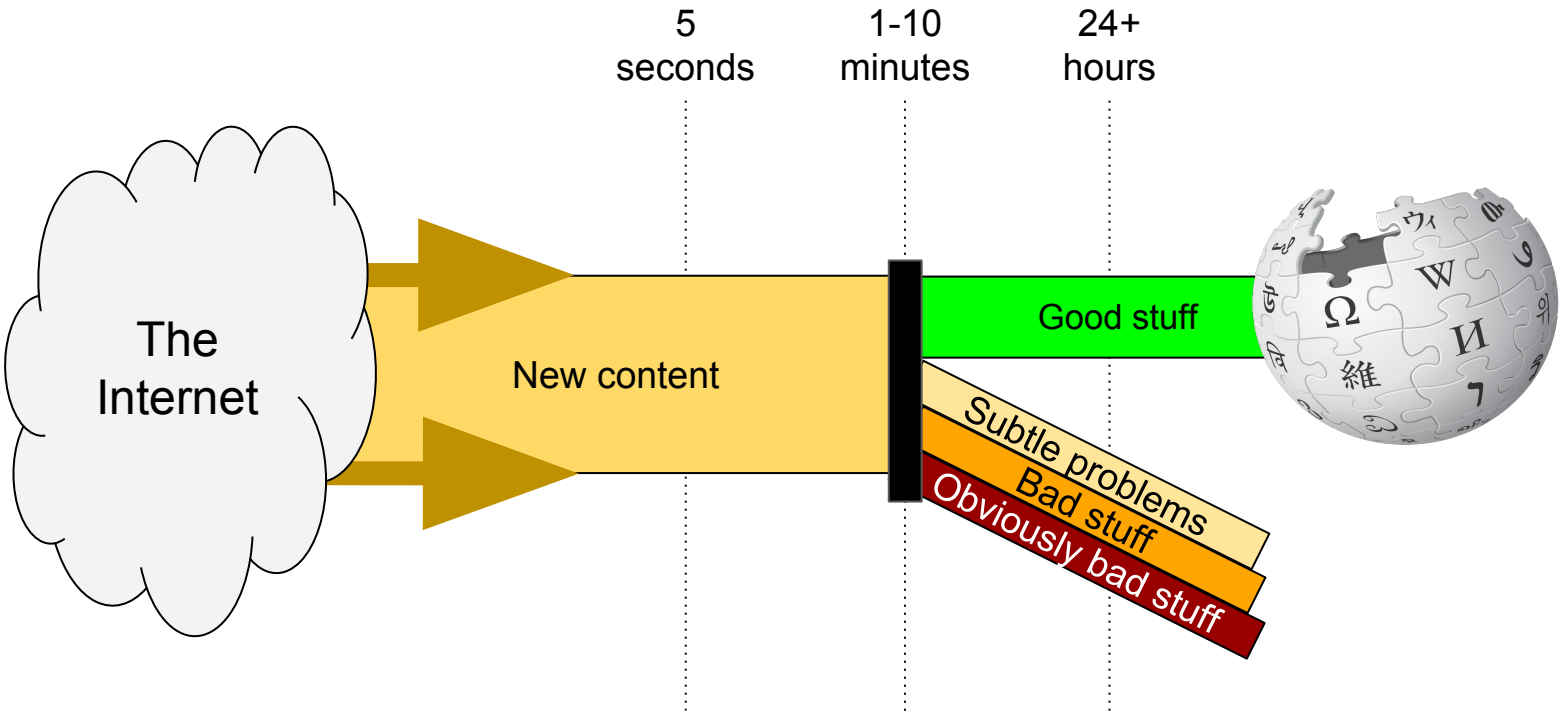
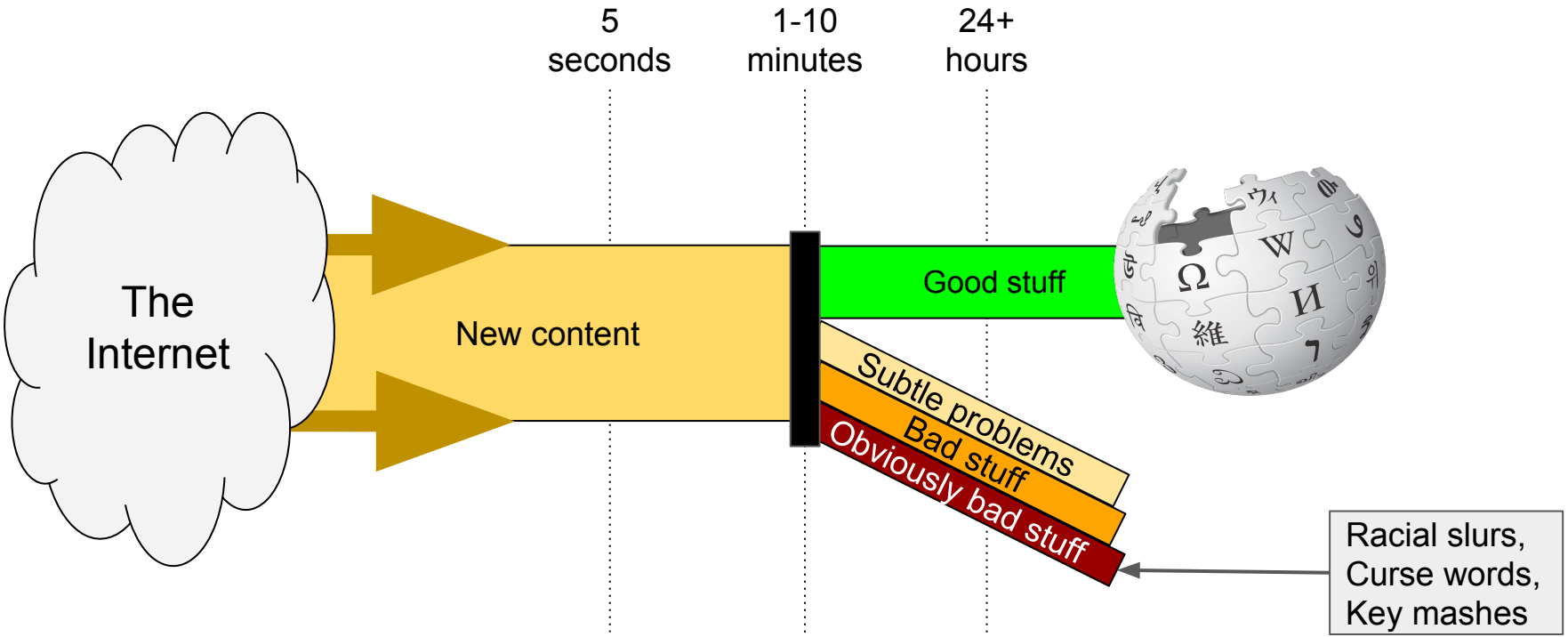
Part 2

Scaling review process


5
seconds
1-10
minutes
24+
hours
The
Internet
New content



Strategy: Filter out everything in Special:RecentChanges



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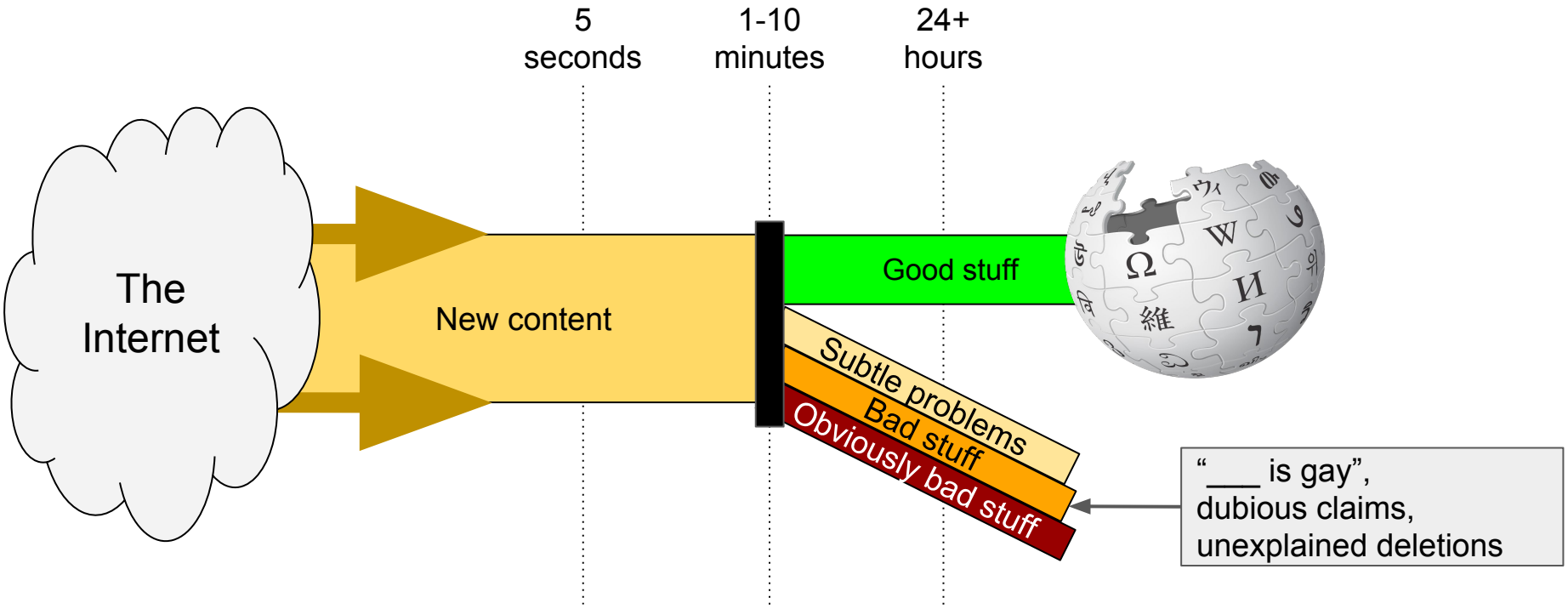

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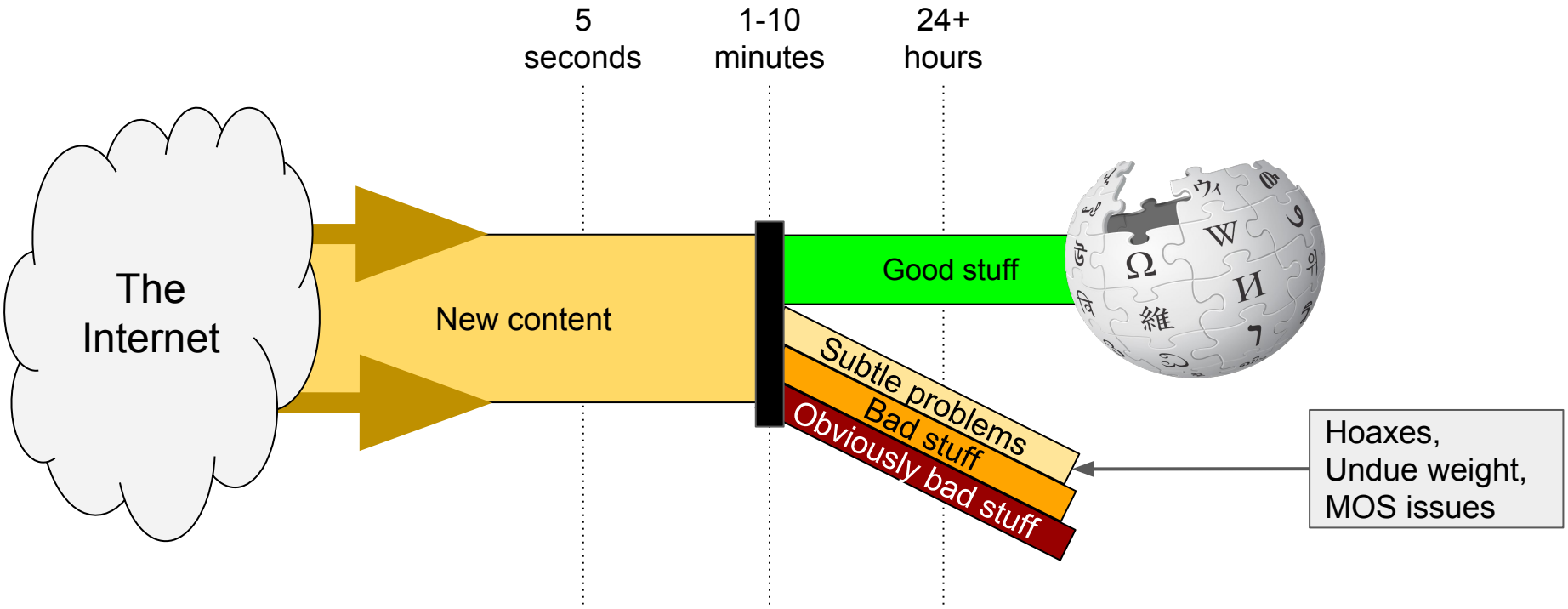

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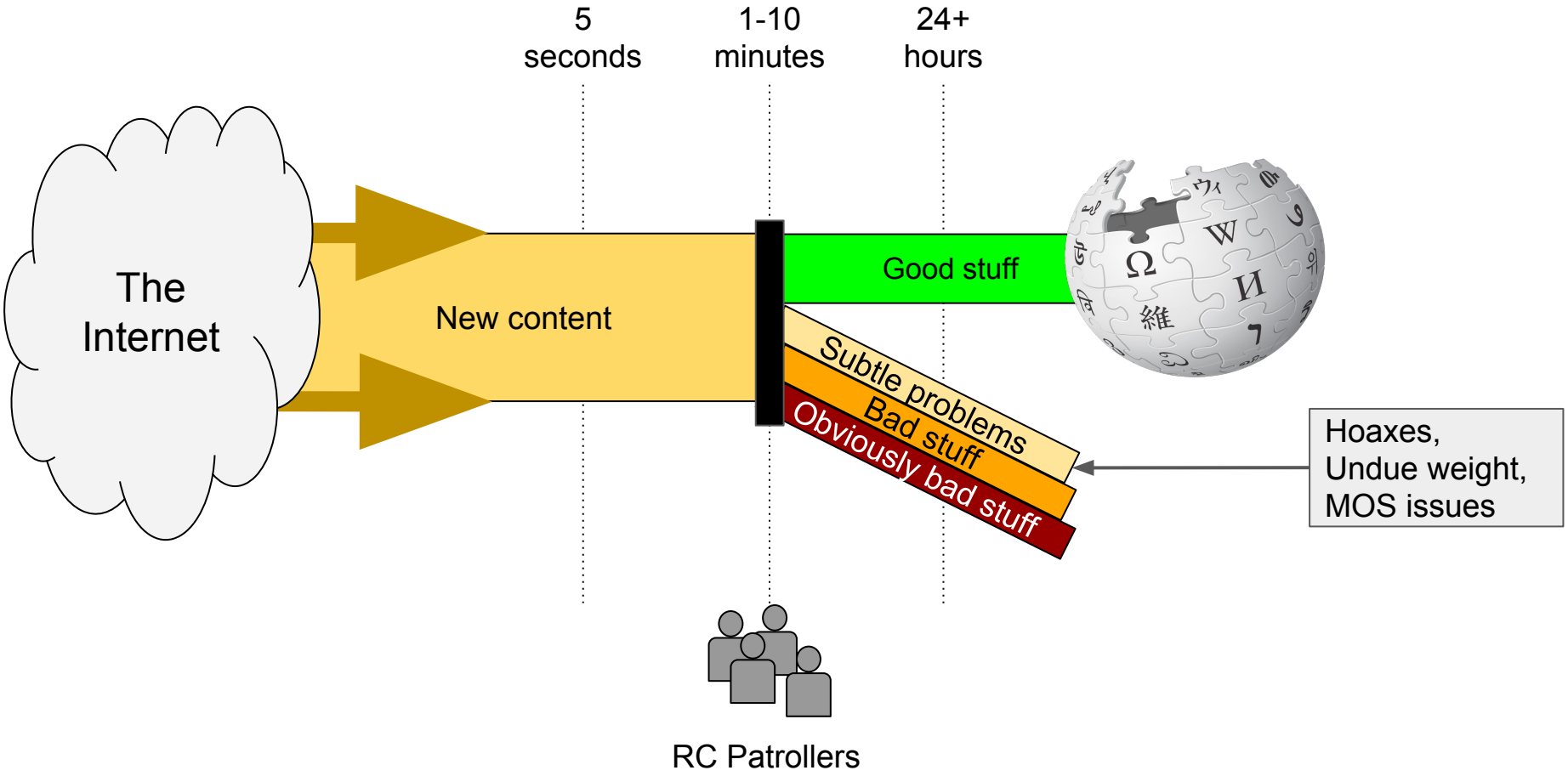
5
seconds
1-10
minutes
24+
hours
The
Internet
New content
Good stuff
Subtle problems
Bad stuff
Obviously bad stuff
Hoaxes,
Undue weight,
MOS issues
RC Patrollers

Hoax or Not

Is this edit good or bad?
Can you tell?

Ronnie Hazlehurst: Difference between revisions

A start-class article from Wikipedia, the free encyclopedia

Browse history

Revision as of 12:31, 18 September 2007 (edit)	**Revision as of 23:32, 20 September 2007 (edit) (undo)**
82.16.172.71 (talk)	90.202.68.194 (talk)
(→TV Themes by Ronnie Hazlehurst)	Next edit →
← Previous edit	

Line 30:	**Line 30:**
* "[[No Place Like Home]]"	* "[[No Place Like Home]]"
* "[[Three of a Kind]]"	* "[[Three of a Kind]]"
	+
	+ ==Pop songs==
	+ * "[[Reach (S Club 7 song)|Reach]] [[S Club|S Club 7]]
==External links==	==External links==

Ronnie Hazlehurst: Difference between revisions

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Revision as of 12:31, 18 September 2007 (edit)	Revision as of 23:32, 20 September 2007 (edit) (undo)
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(→TV Themes by Ronnie Hazlehurst)	Next edit →
← Previous edit	

HOAX

Line 30:	Line 30:
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* "[[Three of a Kind]]"	* "[[Three of a Kind]]"
	+
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==External links==	==External links==

Monarch butterfly: Difference between revisions

A B-class article from Wikipedia, the free encyclopedia

Browse history

Revision as of 19:05, 24 November 2004 (edit) HenkvD (talk | contribs) *(recat)* ← Previous edit	**Revision as of 17:25, 9 December 2004 (edit) (undo) (thank)** Clarknova (talk | contribs) *(threat to population, external links added)* Next edit →
Line 28:	**Line 28:**
The third stage is the [[pupa]], or [[chrysalis]]. The caterpillar attaches itself to a lump of material secreted on a twig or leaf. It hangs upside down in the shape of a 'J', and then molts, leaving itself encased in an articulated green exoskeleton. At this point, hormonal changes occur, leading to the development of a butterfly. Fourth, the mature butterfly emerges after about two weeks.	The third stage is the [[pupa]], or [[chrysalis]]. The caterpillar attaches itself to a lump of material secreted on a twig or leaf. It hangs upside down in the shape of a 'J', and then molts, leaving itself encased in an articulated green exoskeleton. At this point, hormonal changes occur, leading to the development of a butterfly. Fourth, the mature butterfly emerges after about two weeks.
− The monarch butterfly is the state insect of [[Texas]] and the state butterfly of [[Minnesota]].	+ The monarch butterfly is the state insect of [[Texas]] and the state butterfly of [[Minnesota]]. **It was nominated in [[1989]] as the national insect of the [[United States of America|United States]], and is the national insect of [[Canada**]].

Monarch butterfly: Difference between revisions

A B-class article from Wikipedia, the free encyclopedia

Browse history

Revision as of 19:05, 24 November 2004 (edit)
HenkvD (talk | contribs)
(recat)
← Previous edit

Revision as of 17:25, 9 December 2004 (edit) (undo) (thank)
Clarknova (talk | contribs)
(threat to population, external links added)
Next edit →

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HOAX

Wikipedia: Difference between revisions

A B-class article from Wikipedia, the free encyclopedia. *A former featured article.*

Browse history

Revision as of 01:05, 26 December 2008 (edit)	**Revision as of 12:16, 26 December 2008 (edit) (undo) (thank)**
NuclearWarfare (talk | contribs)	TarzanASG (talk | contribs)
m *(General Fixes using AWB)*	*(→Editing model: +)*
← Previous edit	Next edit →
Line 50:	**Line 50:**
==Nature of Wikipedia==	==Nature of Wikipedia==
===Editing model===	===Editing model===
Unlike traditional encyclopedias such as "[[Encyclopædia Britannica]]", no article in Wikipedia undergoes formal peer-review process and changes to articles are made available immediately. No article is owned by its creator or any other editor, or is vetted by any recognized authority. Except for a few vandalism-prone pages that can be edited only by established users, or in extreme cases only by administrators, every article may be edited anonymously or with a user account, while only registered users may create a new article. Consequently, Wikipedia "makes no	Unlike traditional encyclopedias such as "[[Encyclopædia Britannica]]", no article in Wikipedia undergoes formal peer-review process and changes to articles are made available immediately. No article is owned by its creator or any other editor, or is vetted by any recognized authority. Except for a few vandalism-prone pages that can be edited only by established users, or in extreme cases only by administrators, every article may be edited anonymously or with a user account, while only registered users may create a new article **(only in English edition)**. Consequently,

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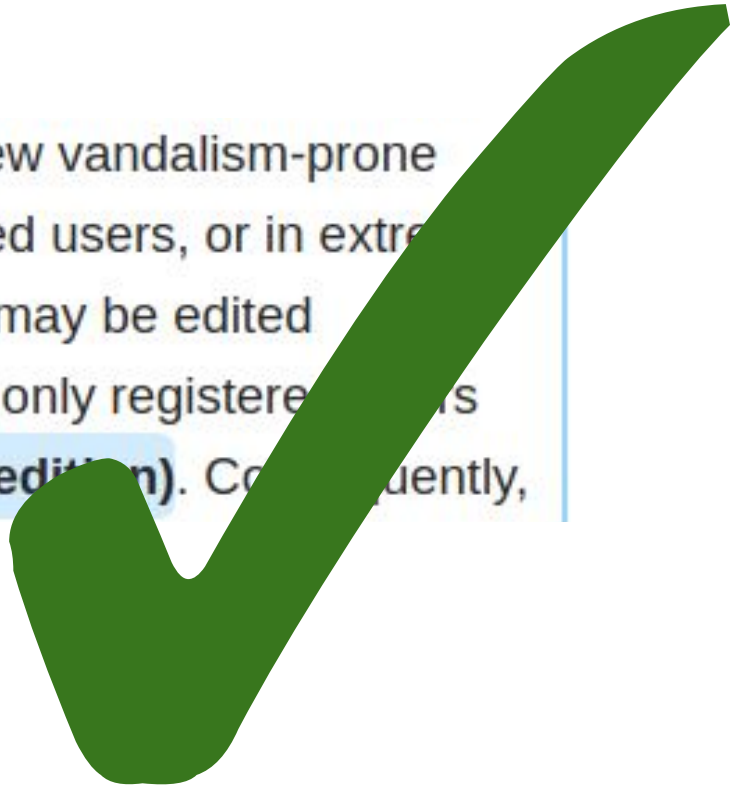


Process modeling

"Process modeling" and its talk page have been added to your watchlist.

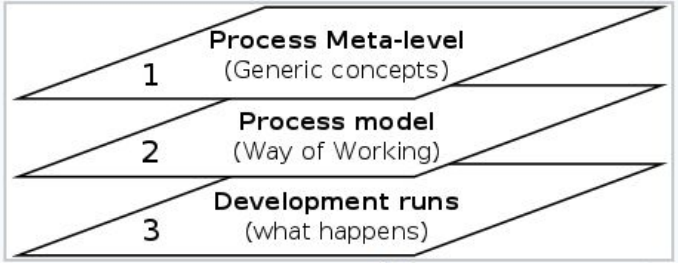
A start-class article from Wikipedia, the free encyclopedia

For the jargon used in the Australian republican debate, see Process model (Australia).

The term **process model** is used in various contexts. For example, in business process modeling the enterprise process model is often referred to as the *business process model*.

Contents [hide]

1 Overview
2 Purpose
3 Classification of process models
  3.1 By coverage
  3.2 By alignment
  3.3 By granularity
  3.4 By flexibility
4 Quality of methods
5 Quality of models
6 See also



Abstraction level for processes[1]

Special page

Search Wikipedia

Watchlist

Help

- A **request for adminship** is open for discussion. [dismiss]
- The "thanks" function is currently having a **problem** and is unavailable, this is being worked on. [dismiss]

You have **108** pages on your watchlist (excluding talk pages). Email notification is enabled. Changes to pages you haven't visited since the changes occurred are shown with solid markers.

Edit your list of watched pages

Mark all changes as seen

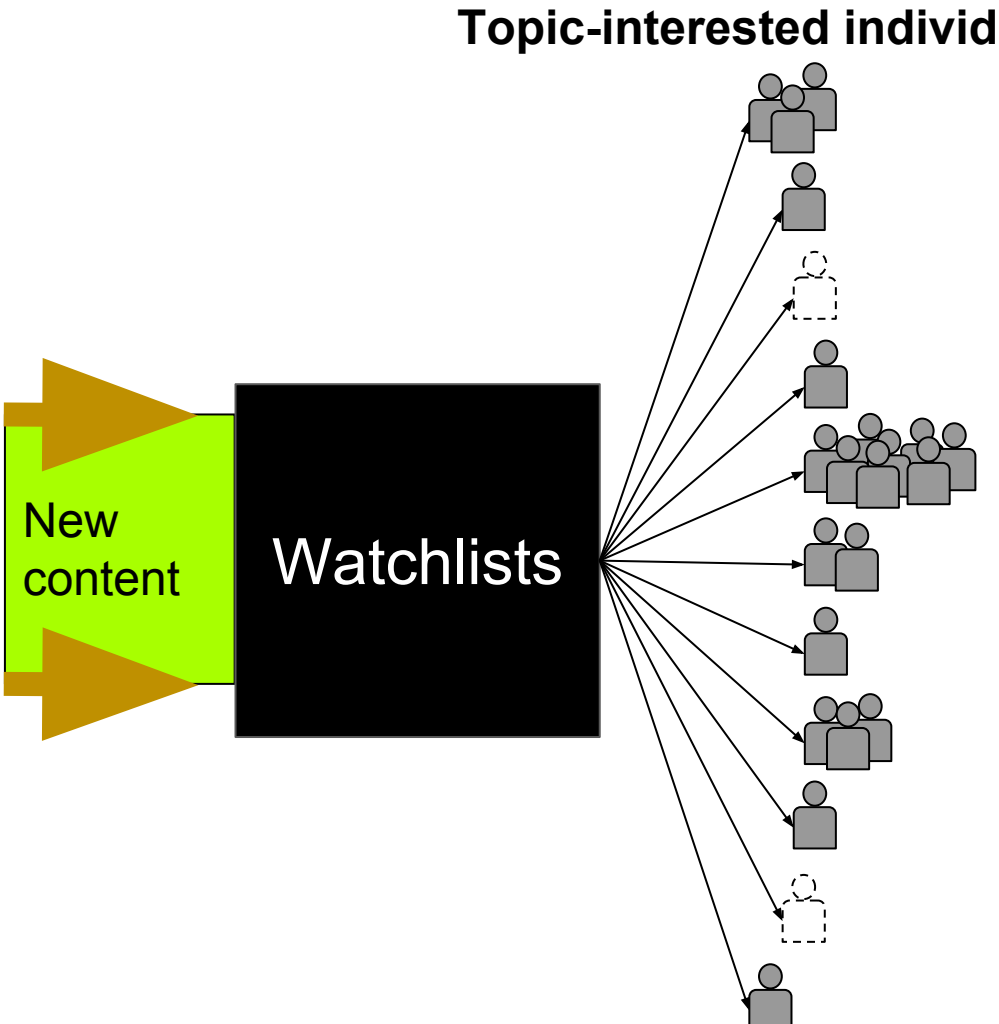
Saved filters

Active filters

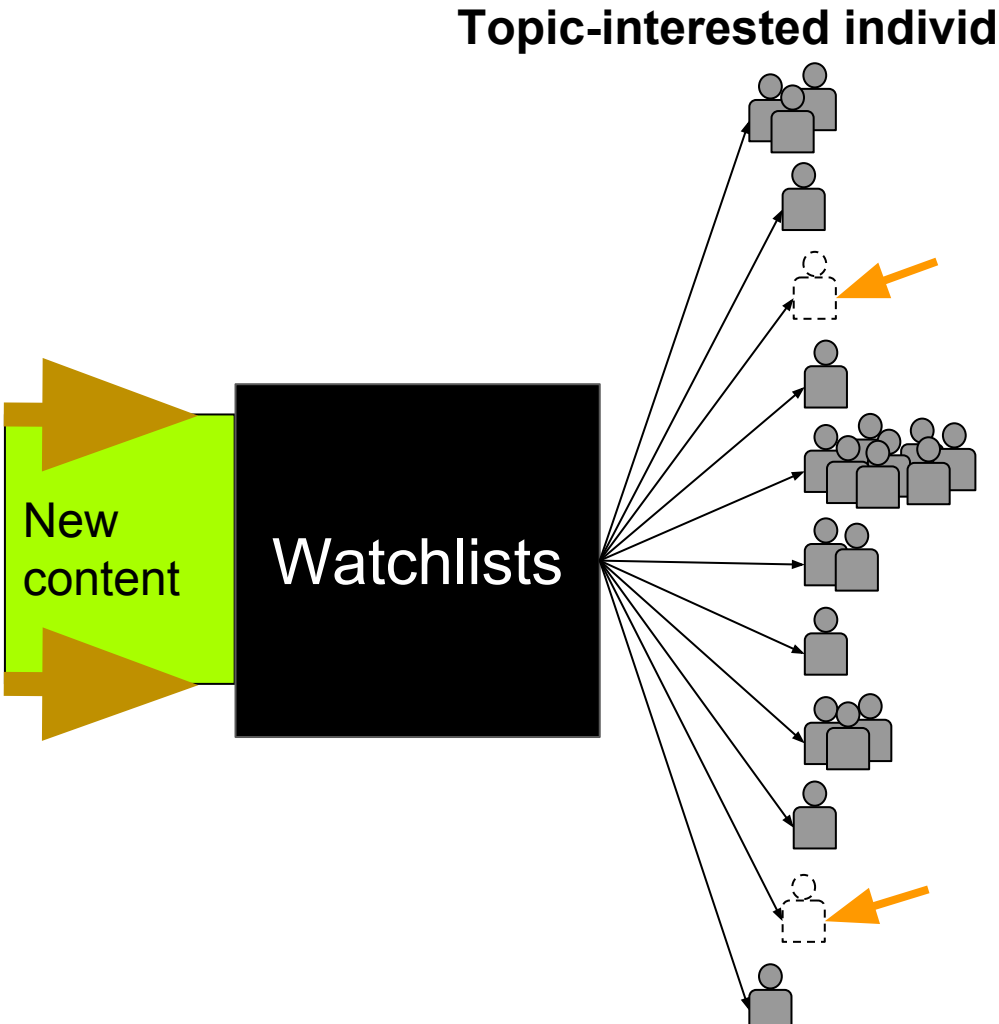
Likely have problems ✕ | Very likely have problems ✕ | Latest revision ✕ | Page edits ✕ | Page creations ✕ | Logged actions ✕

Filter changes (use menu or search for filter name)

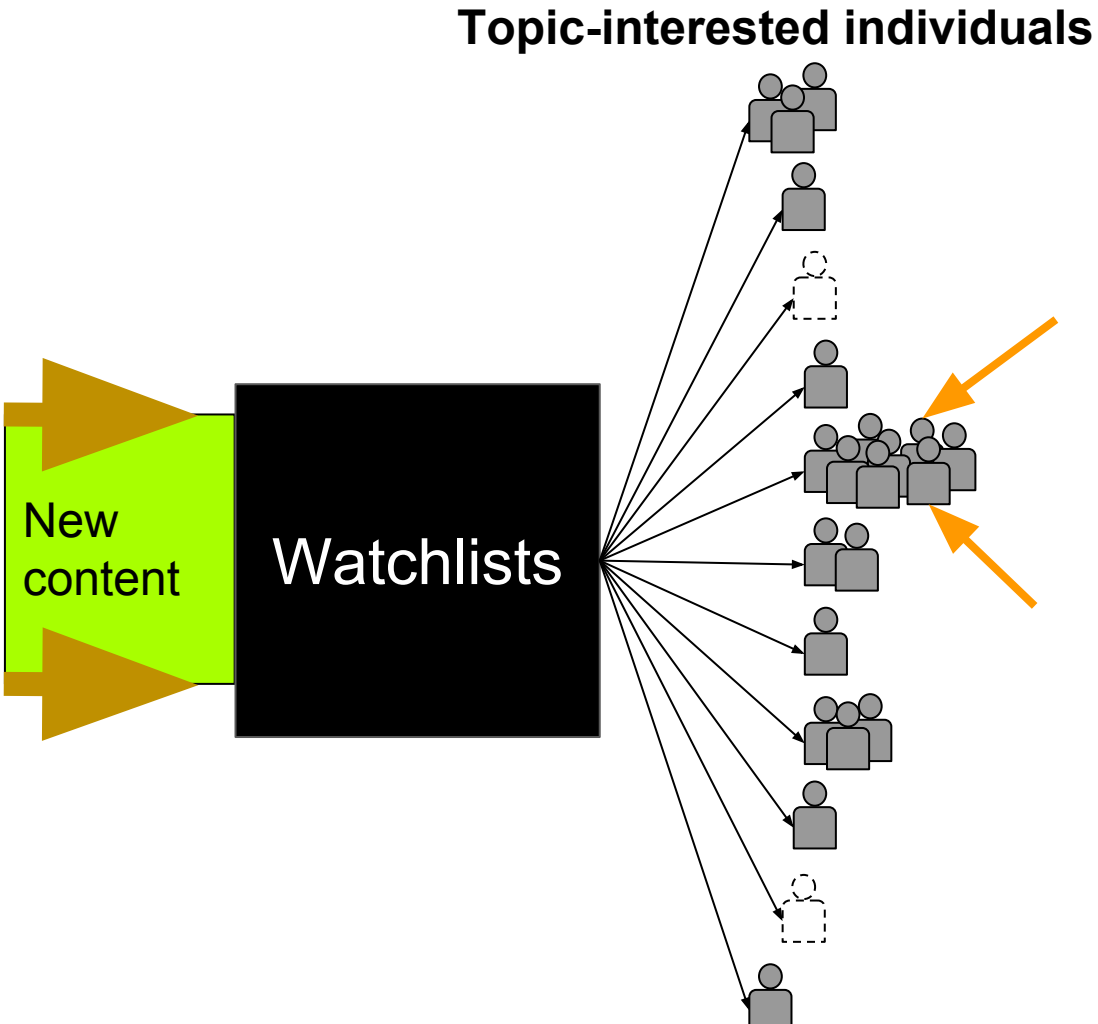
Namespaces **Tags**



Insight:
Routing based on <u>interest</u> makes subtle judgement calls easier.



Insight:
Routing based on <u>interest</u> makes subtle judgement calls easier.



Insight:
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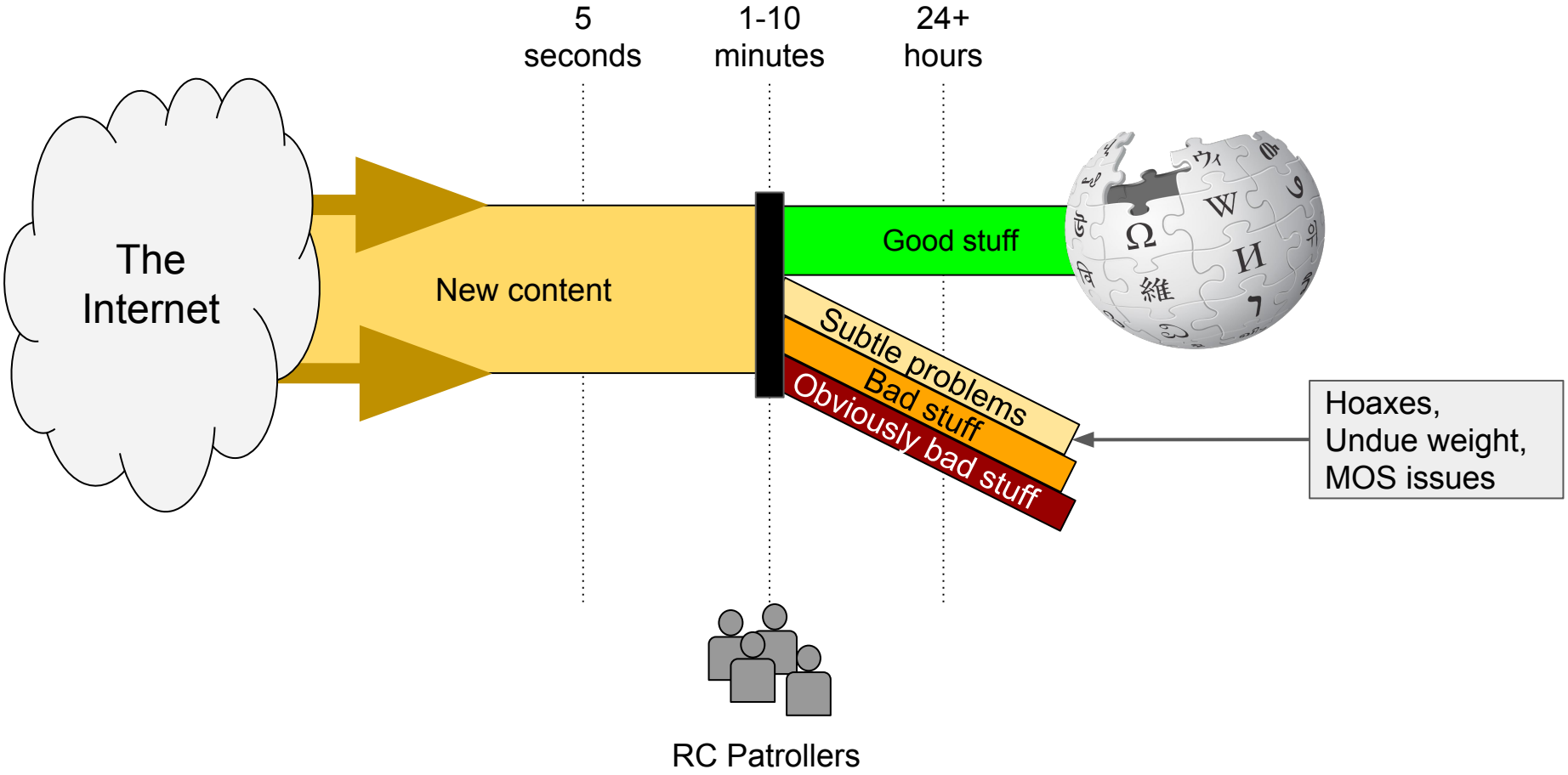
5
seconds
1-10
minutes
24+
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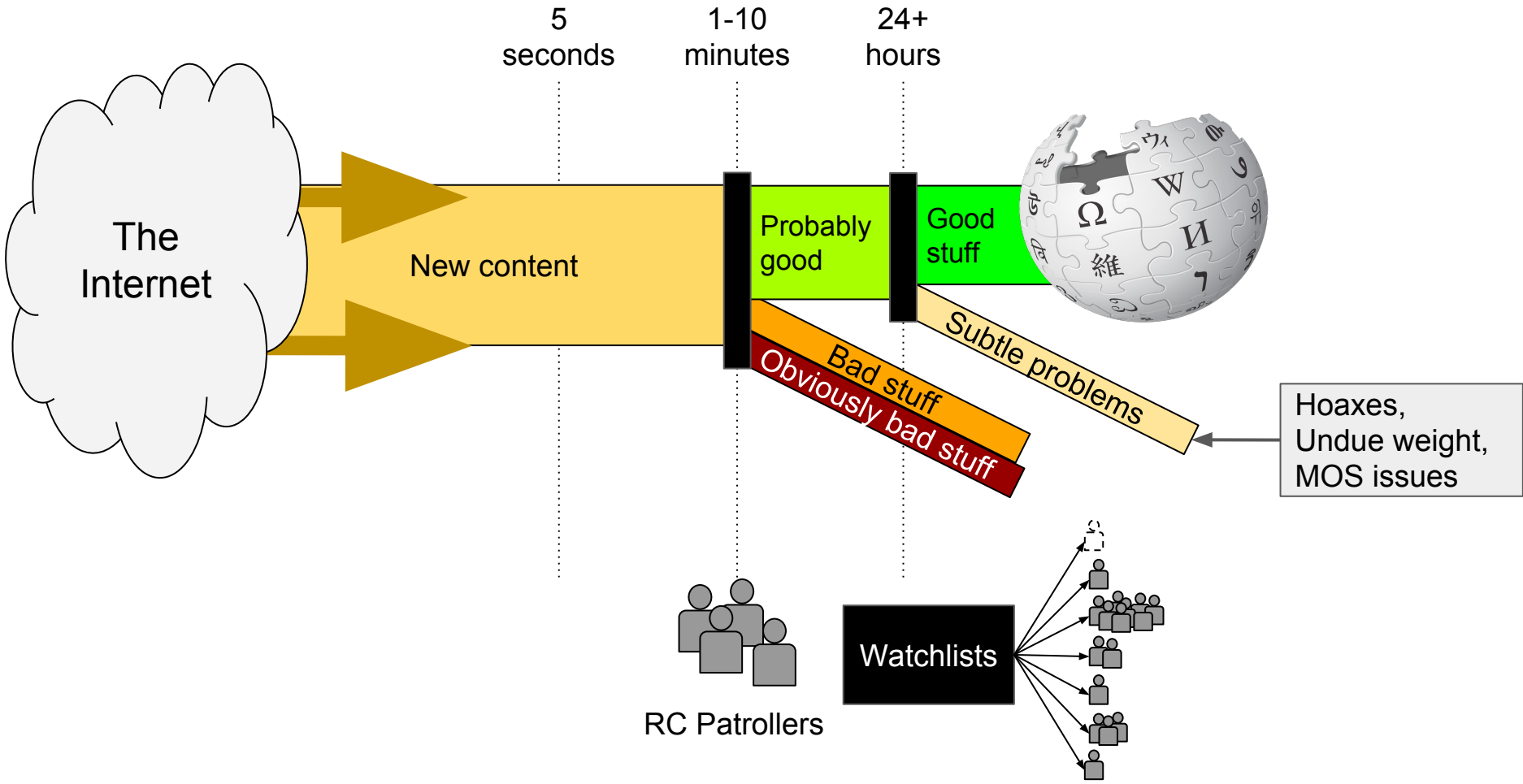
The
Internet
New content
Good stuff
Subtle problems
Bad stuff
Obviously bad stuff
Hoaxes,
Undue weight,
MOS issues
RC Patrollers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Subtle problems
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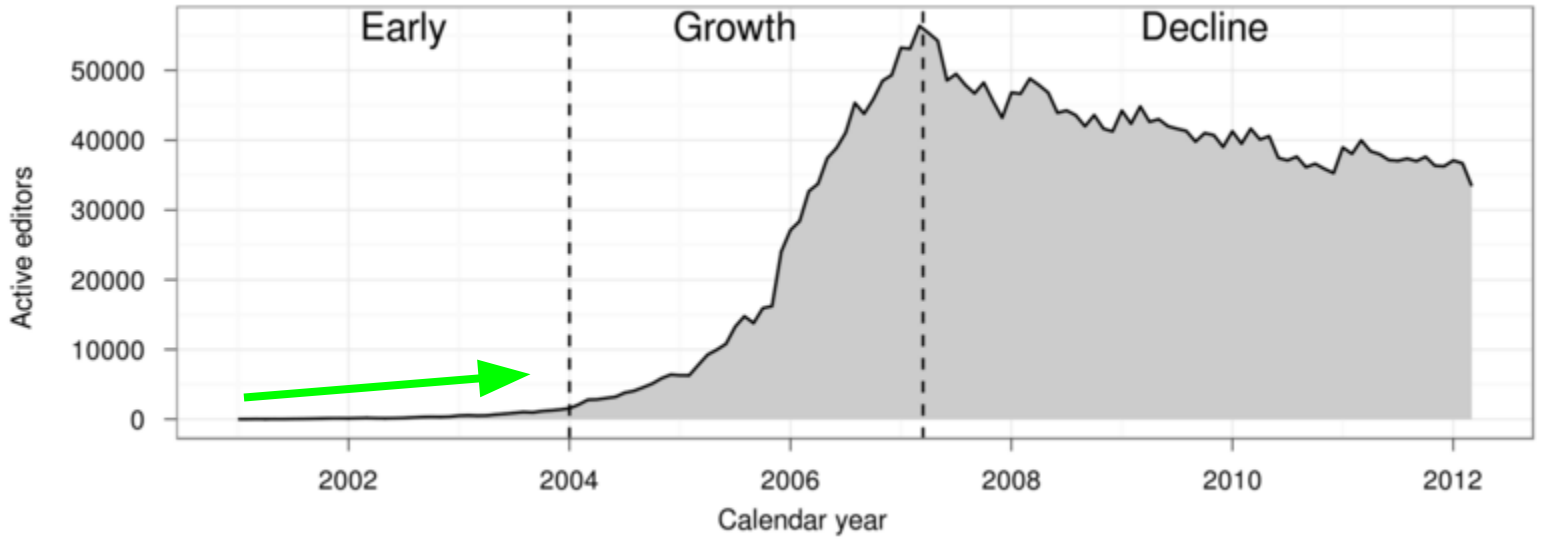
MOS issues
RC Patrollers
Watchlists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Active editors
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2008
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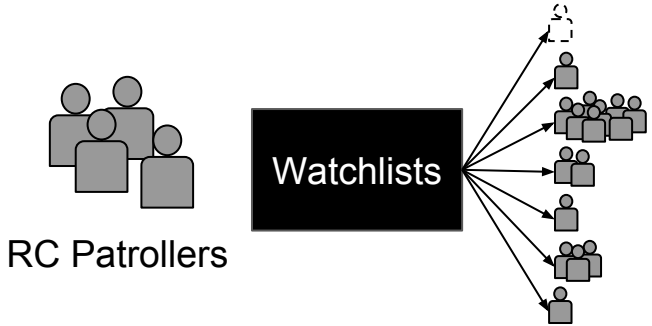
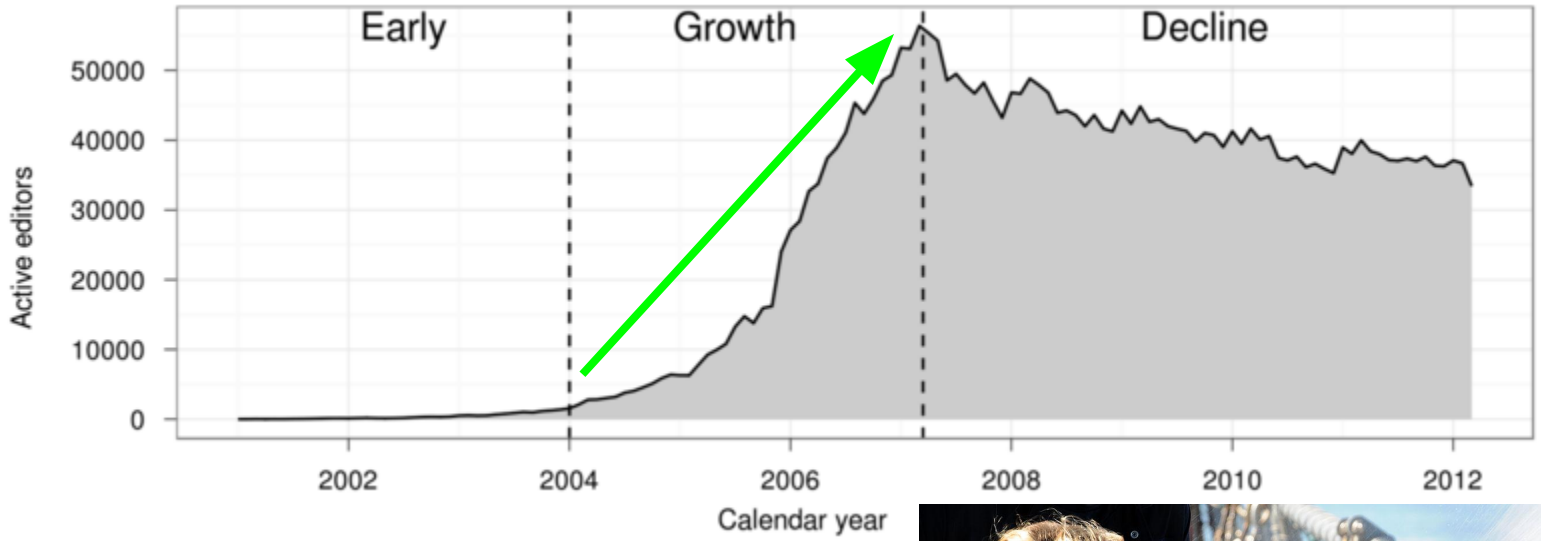
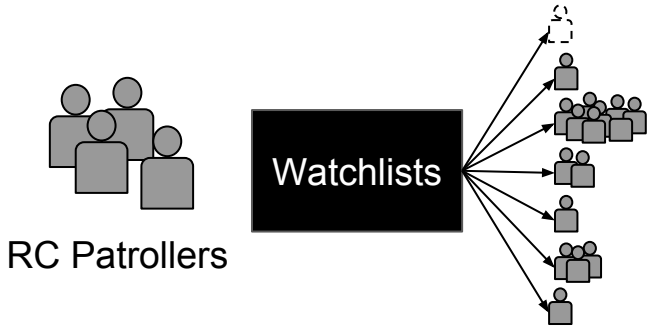
Calendar year


Watchlists
RC Patrollers





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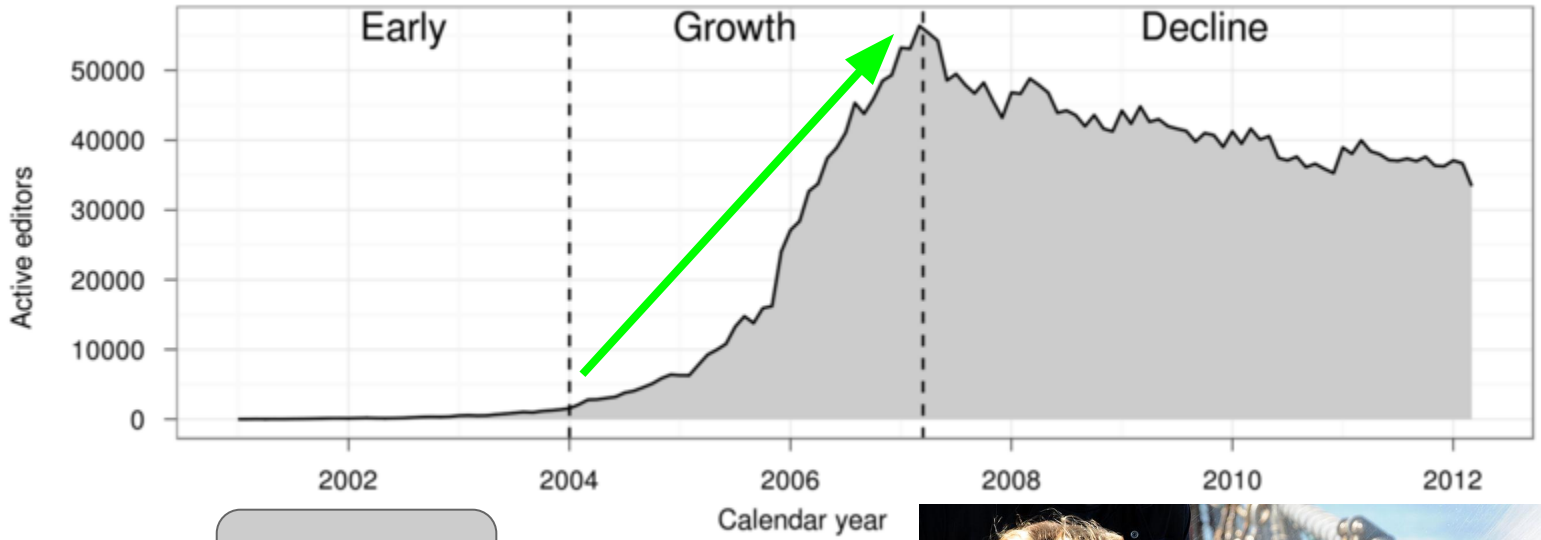

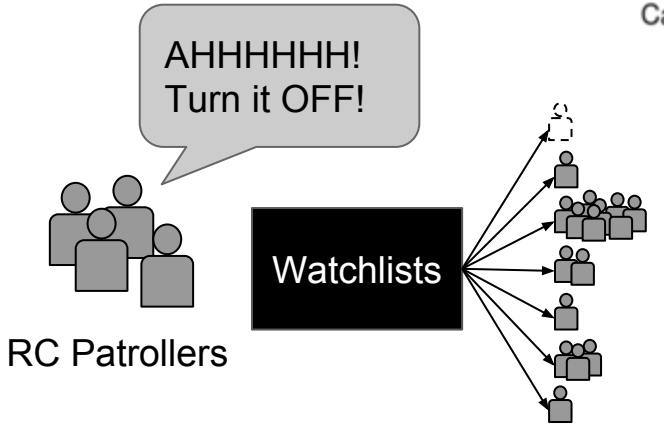

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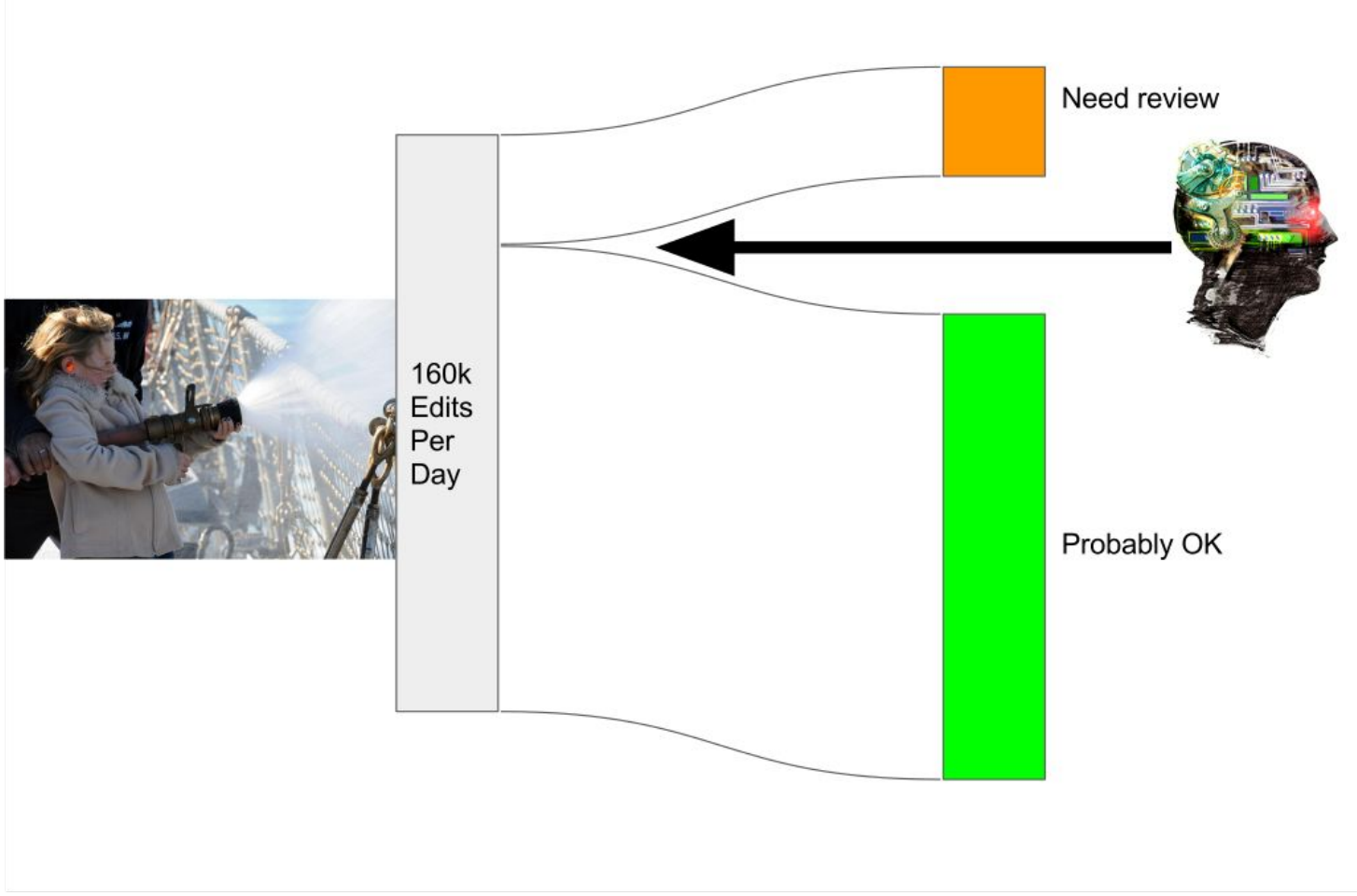
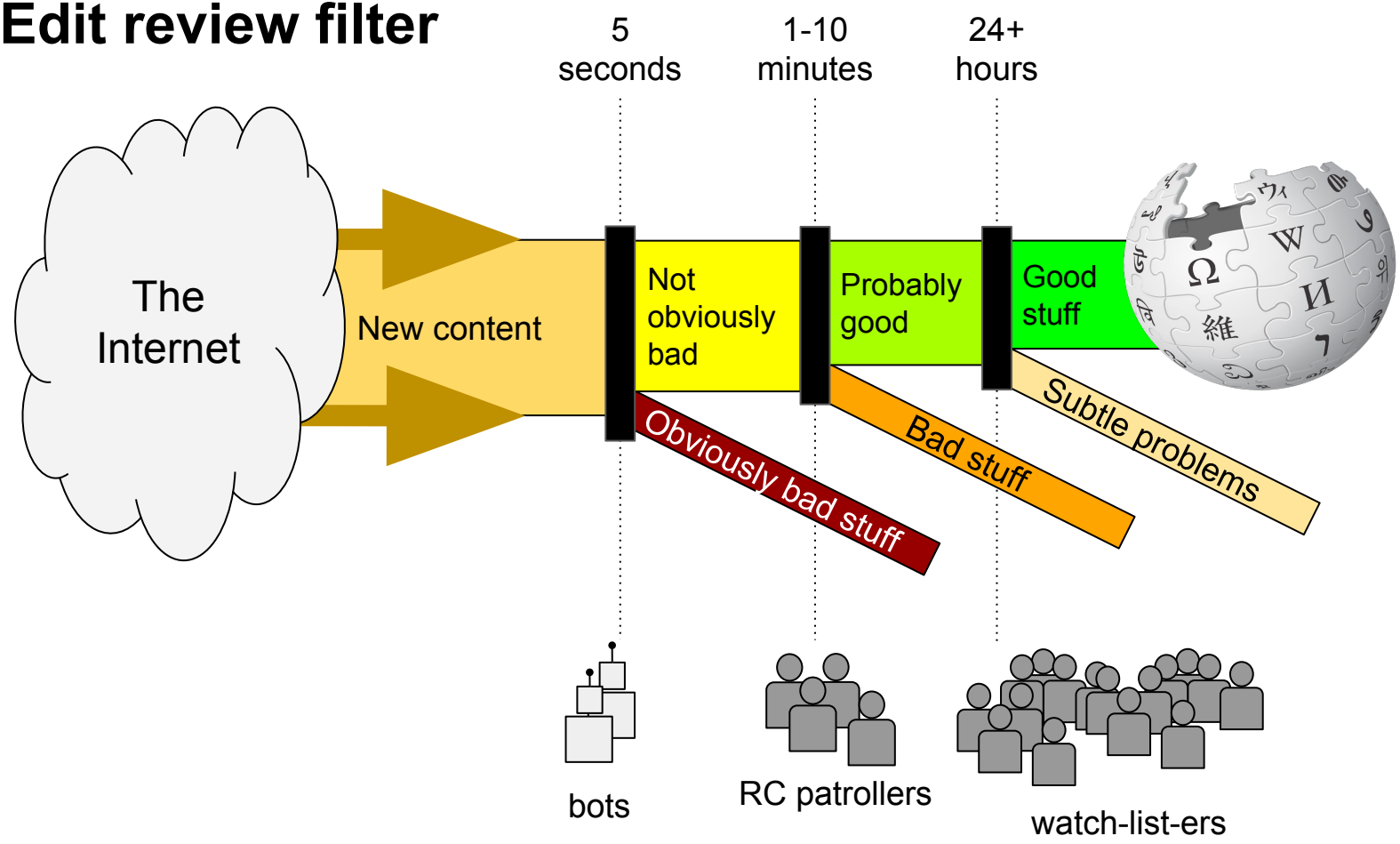


ORES.editquality.recentchanges_split_(enwiki).svg (CC-BY-SA 3.0)

Edit review filter



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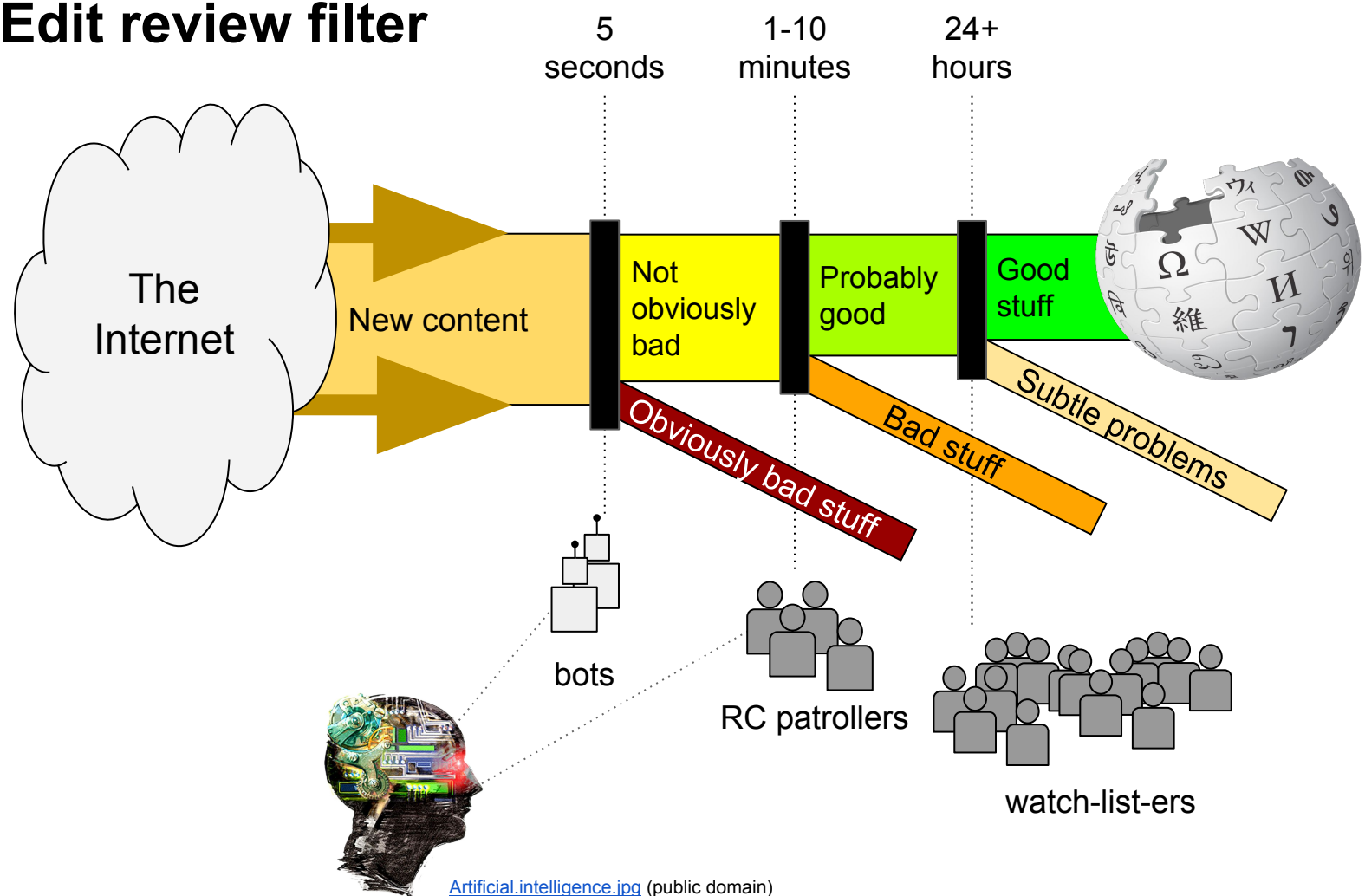


Artificial.intelligence.jpg (public domain)

Edit review filter

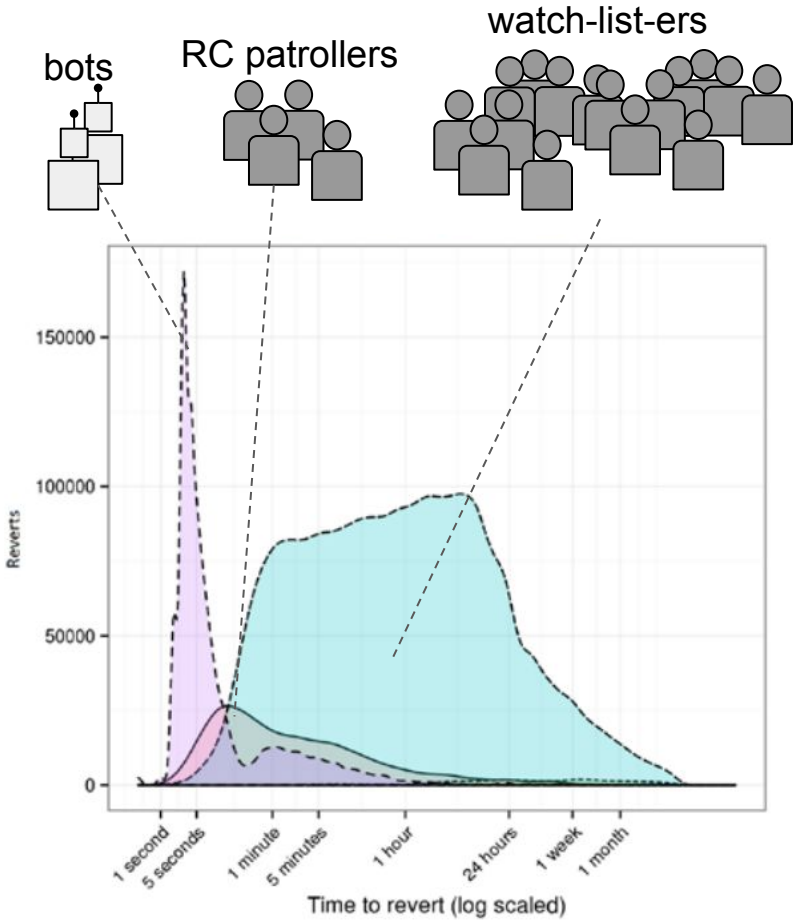
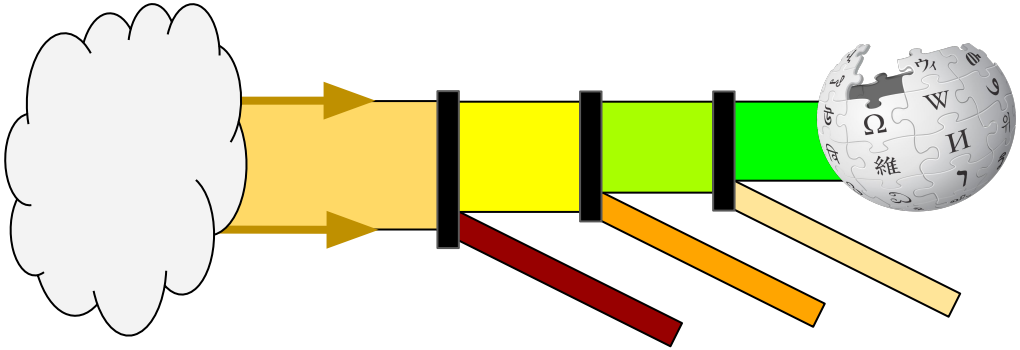


Figure 2: Histogram of time-to-revert during a normal month (January 2011), separated by different editing technologies.

Geiger, R. S., & Halfaker, A. (2013, August). When the levee breaks: without bots, what happens to Wikipedia's quality control processes?. In *Proceedings of the 9th International Symposium on Open Collaboration* (p. 6). ACM.

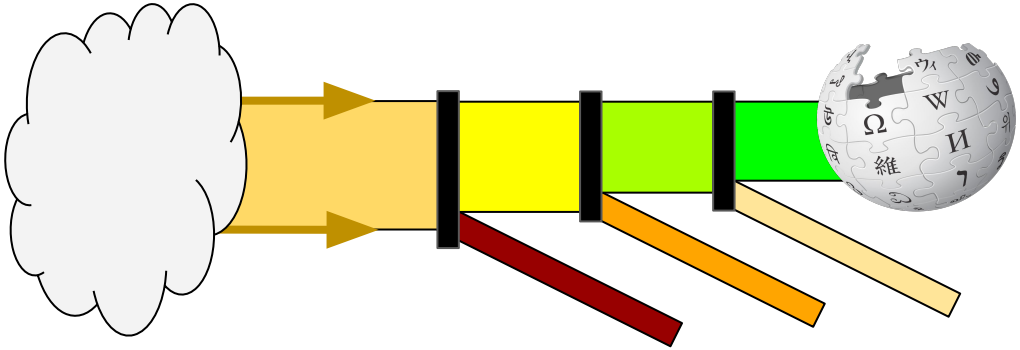
Edit review process



Strainer_MET_98065.jpg (CC0)

- Fast
- High capacity

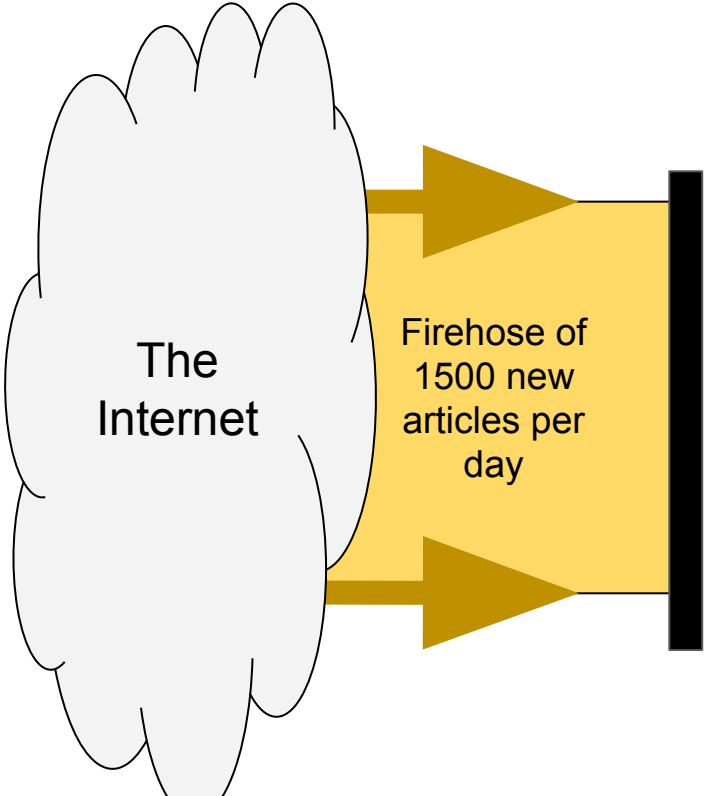
Edit review process

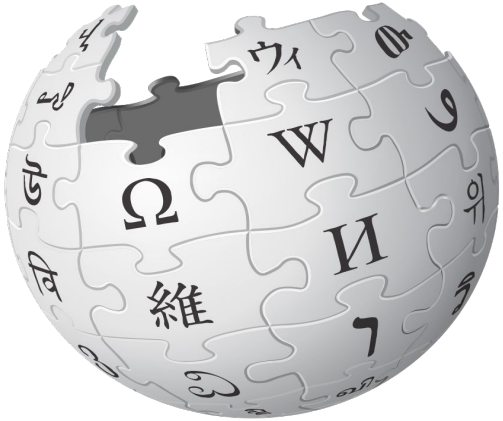


- Fast
- High capacity

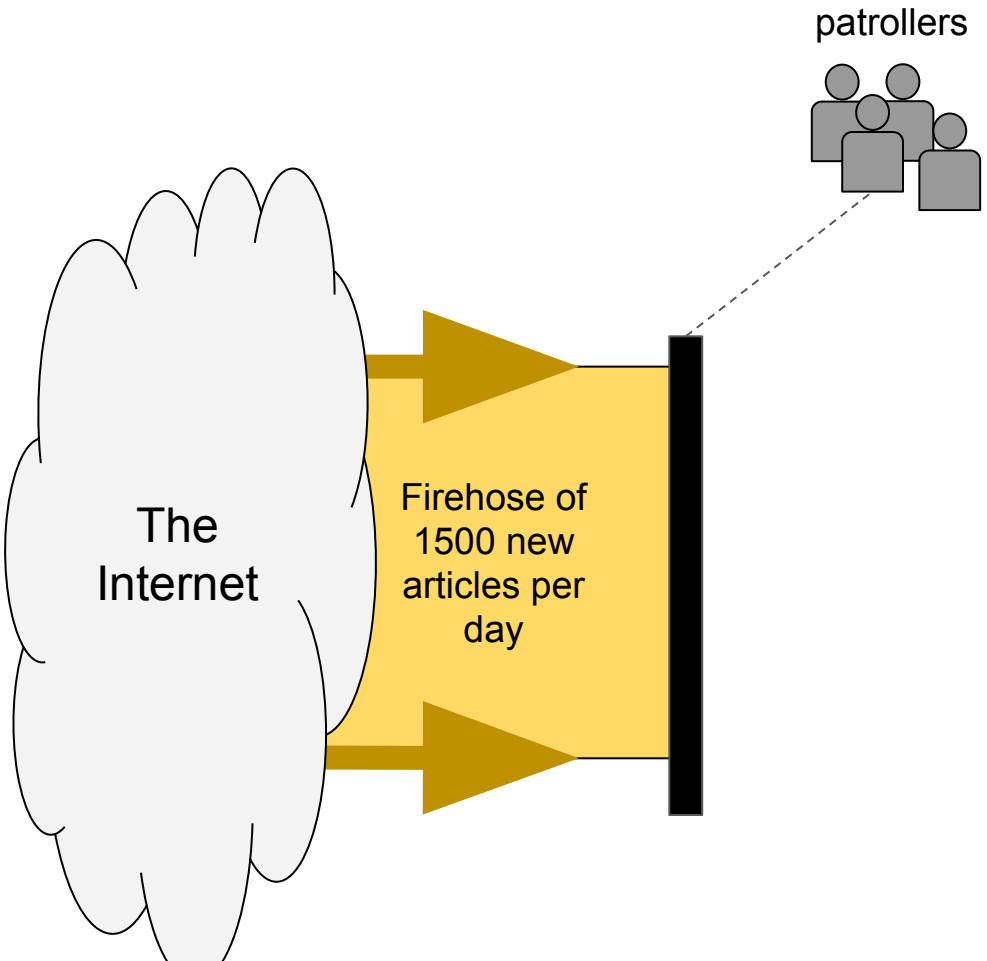
Reduces the pressure to close off contribution

New page patrol process





New page patrol process



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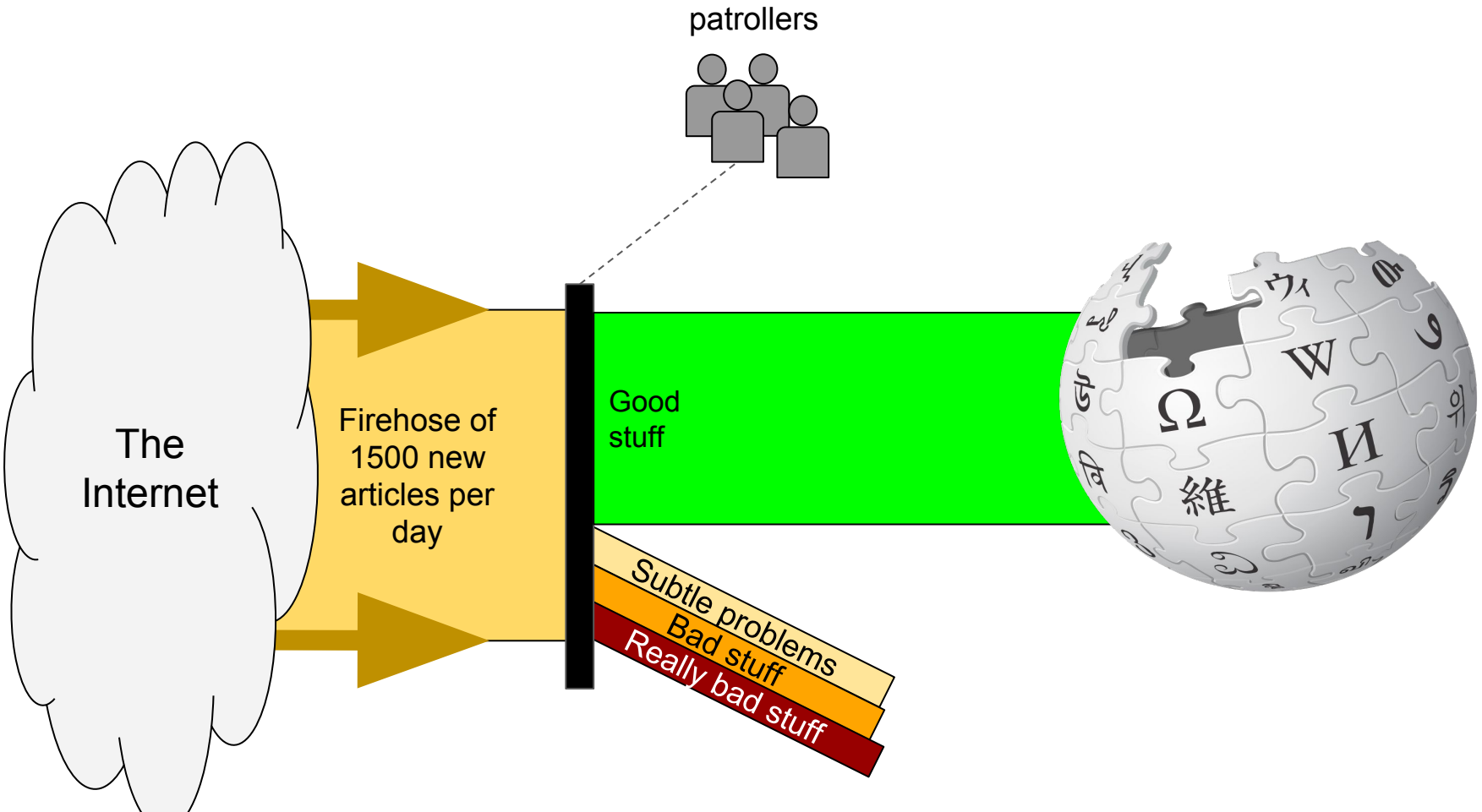

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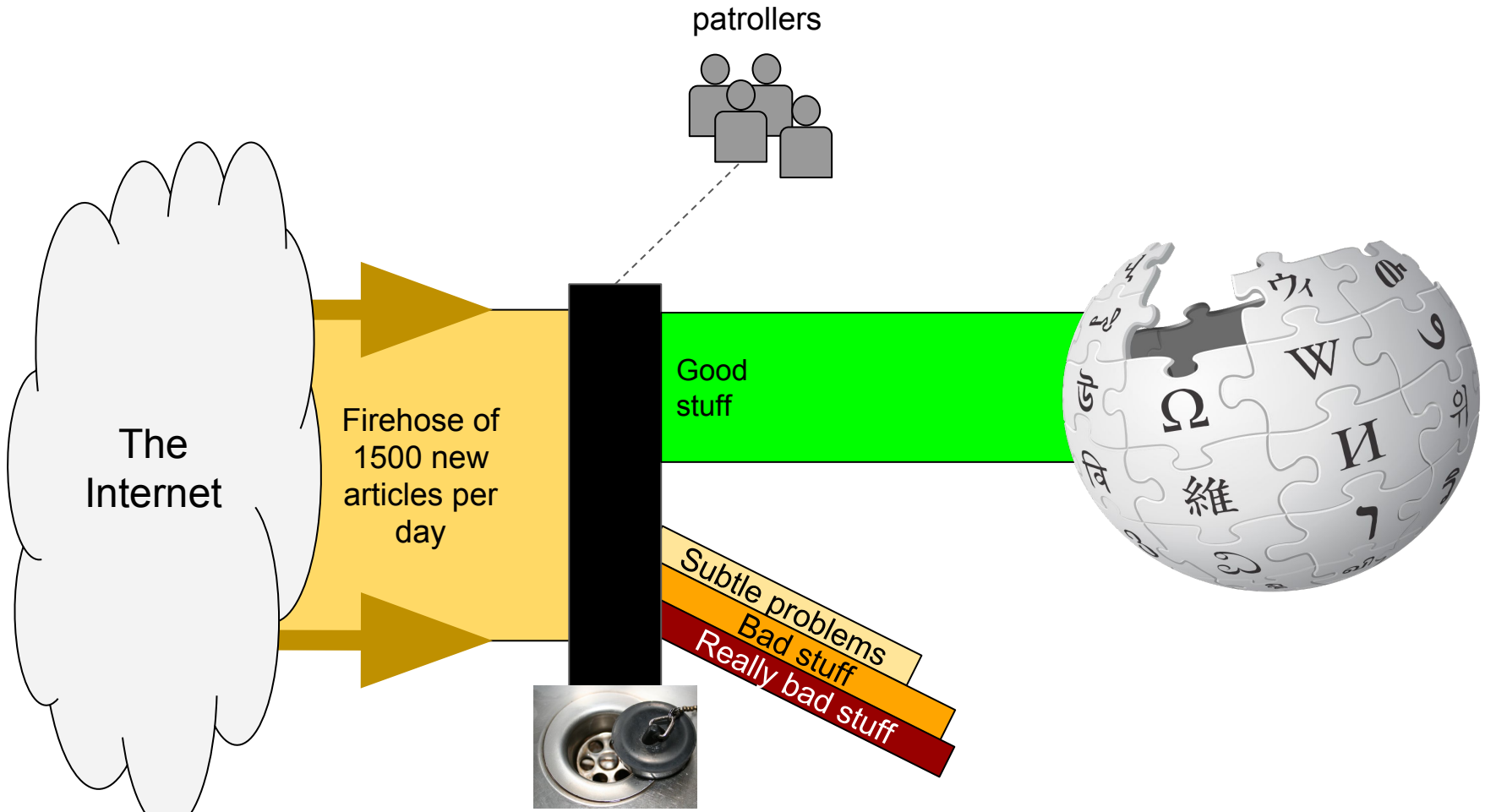
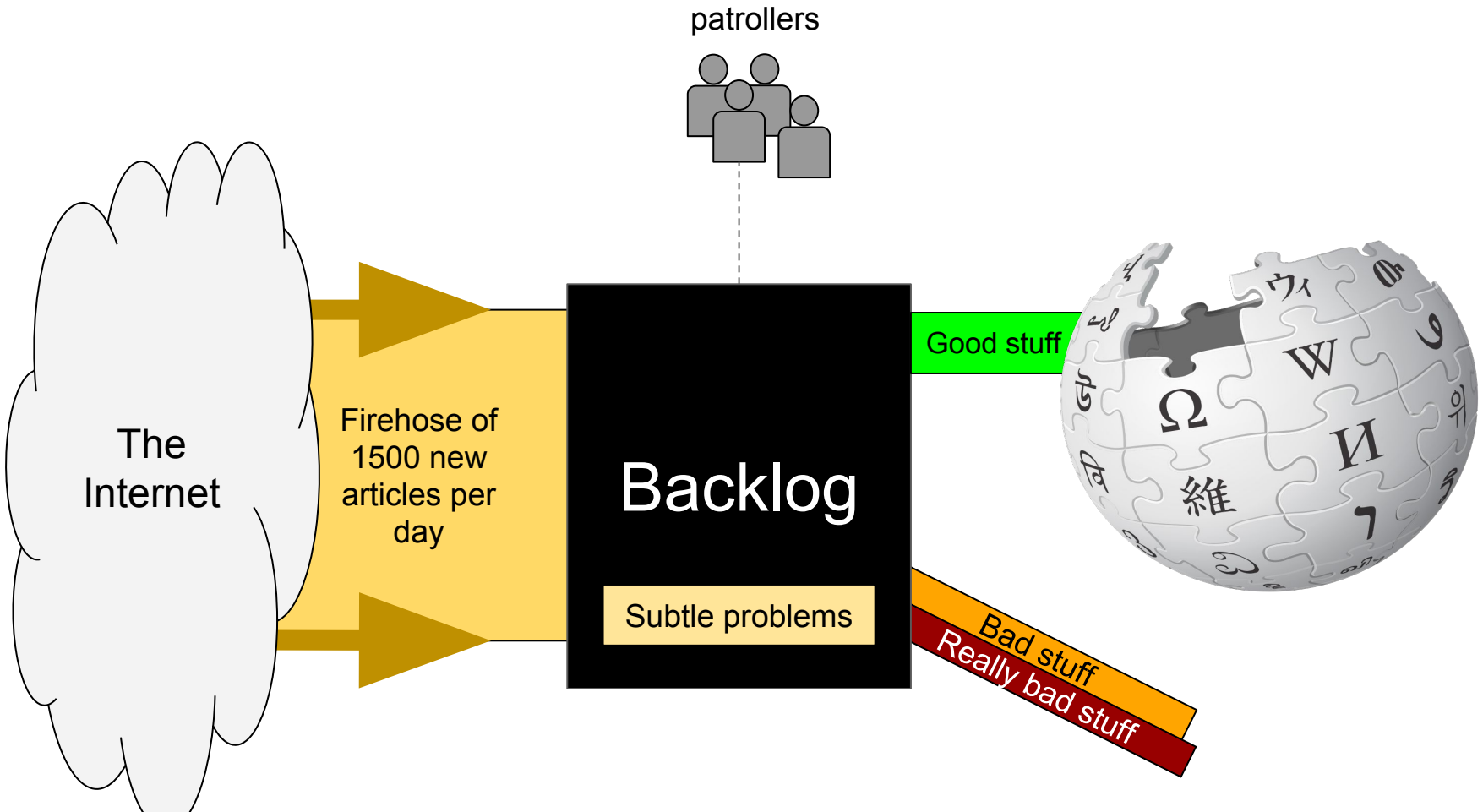


New page patrol process



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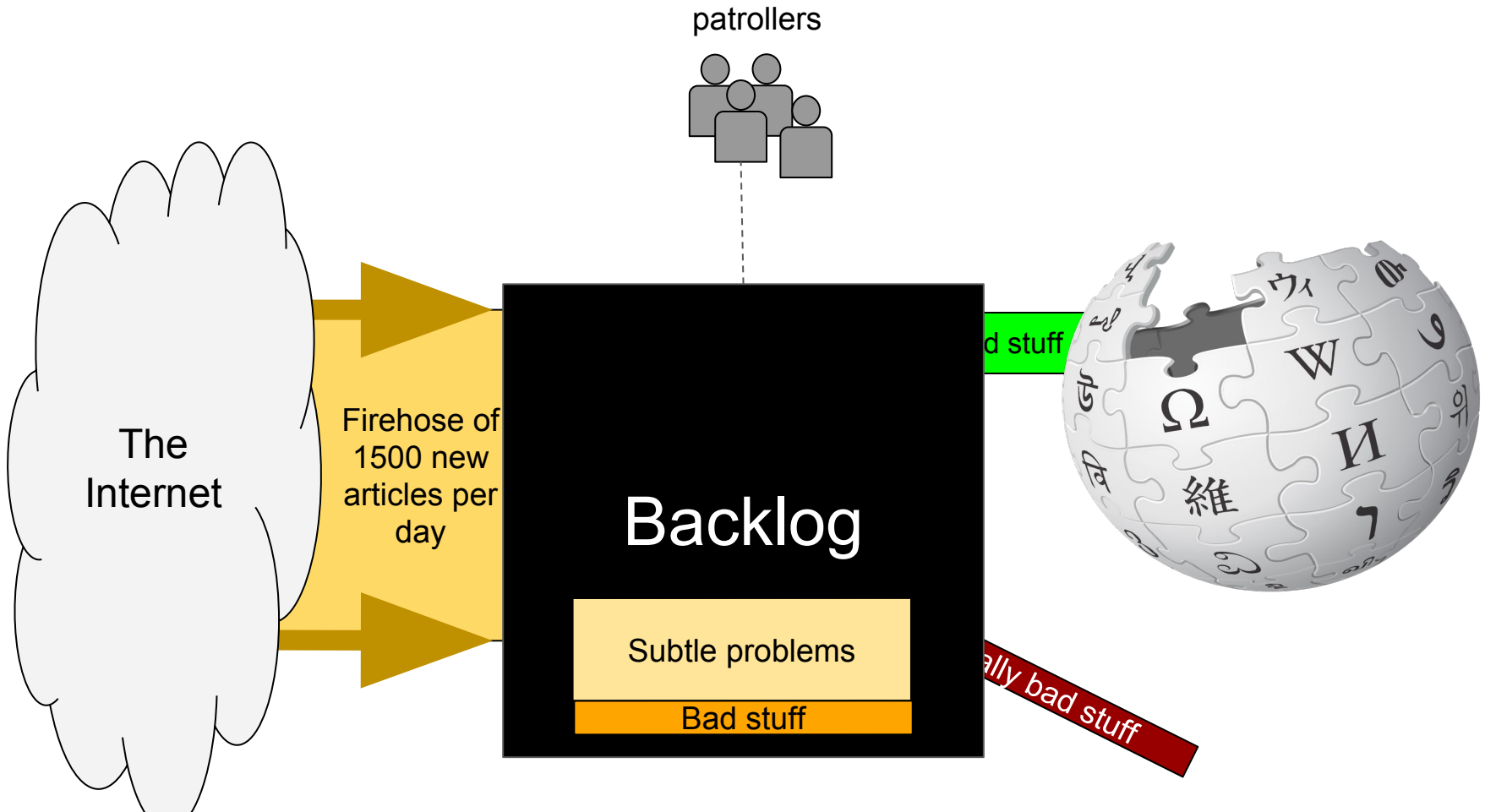

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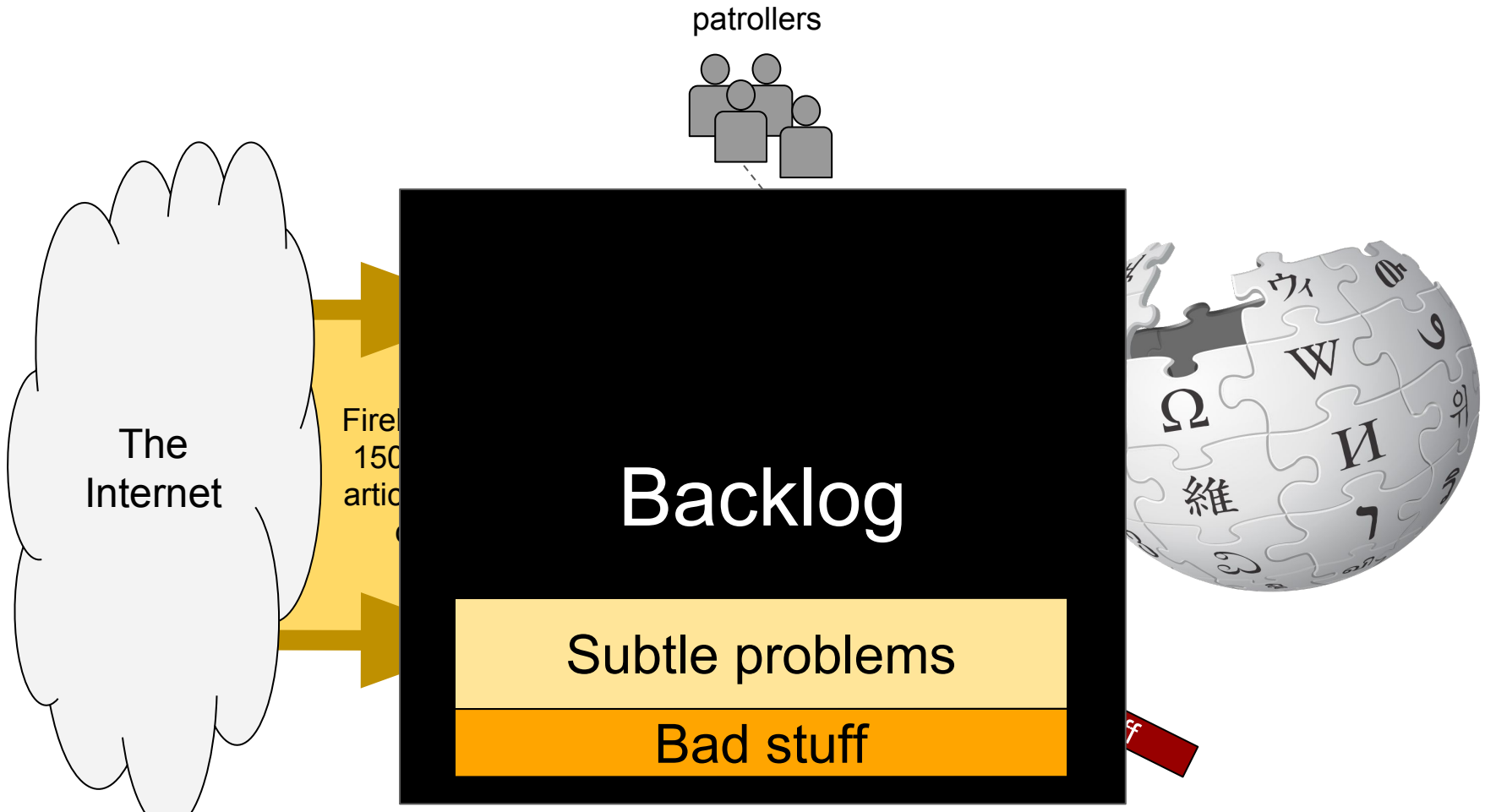

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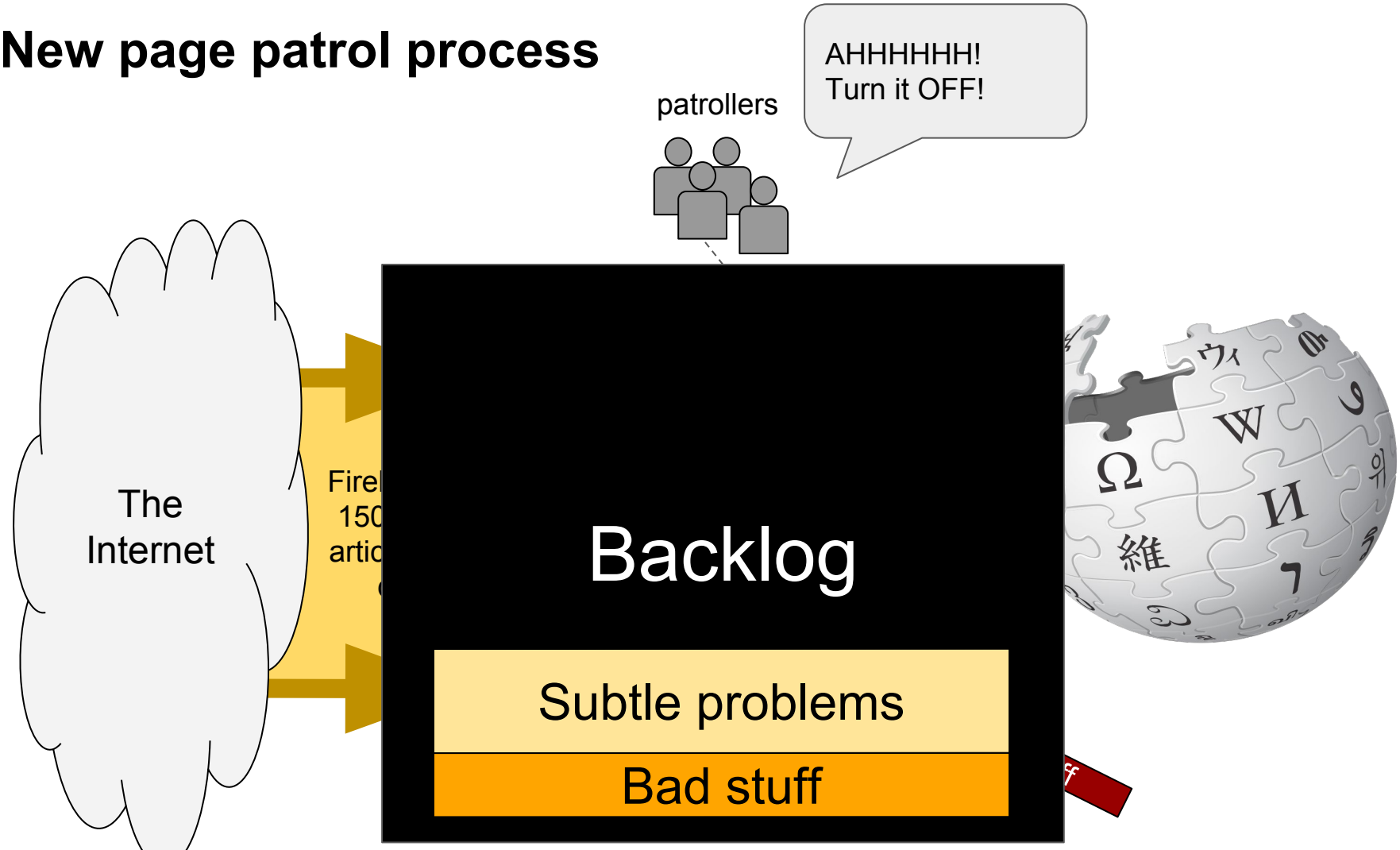
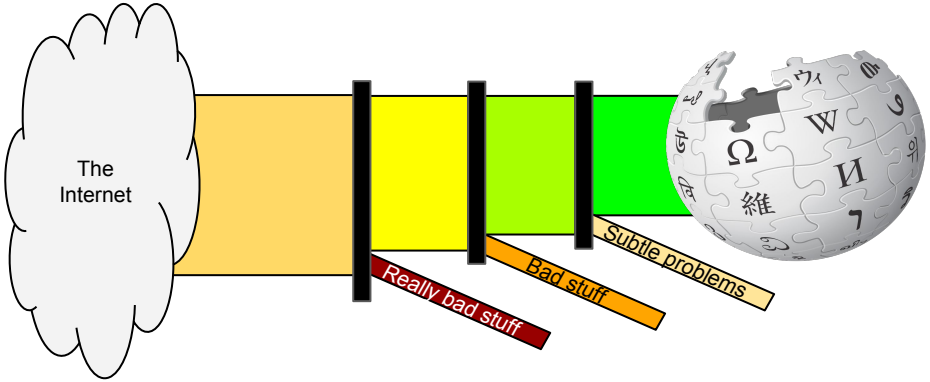
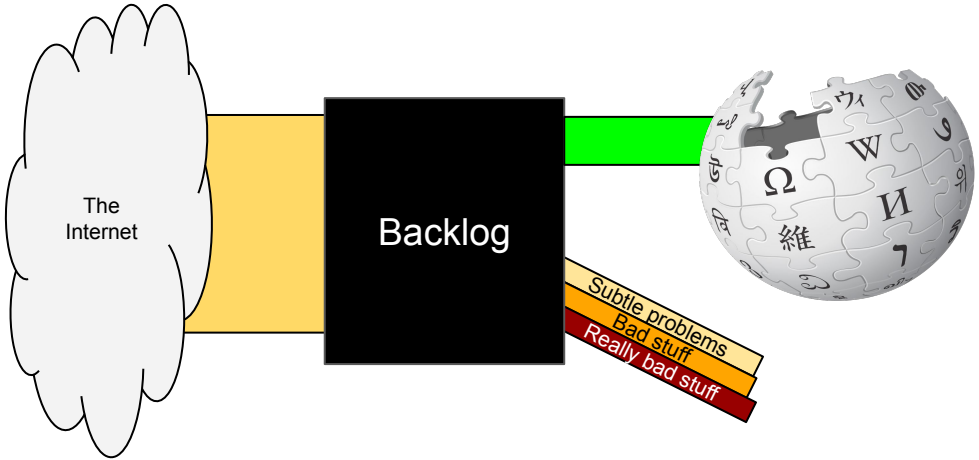


Edit review process



https://commons.wikimedia.org/wiki/File:Strainer_MET_98065.jpg (CC0)

New page patrol process



https://commons.wikimedia.org/wiki/File:Gootsteenstop.png (PD)

Wikipedia:Autoconfirmed article creation trial

From Wikipedia, the free encyclopedia

This page in a nutshell: Until 14 March 2018, autoconfirmed status is required in order to create new articles, as part of a six-month trial. This page is a centralized location to help plan the trial. For an original proposal, please see this archive.

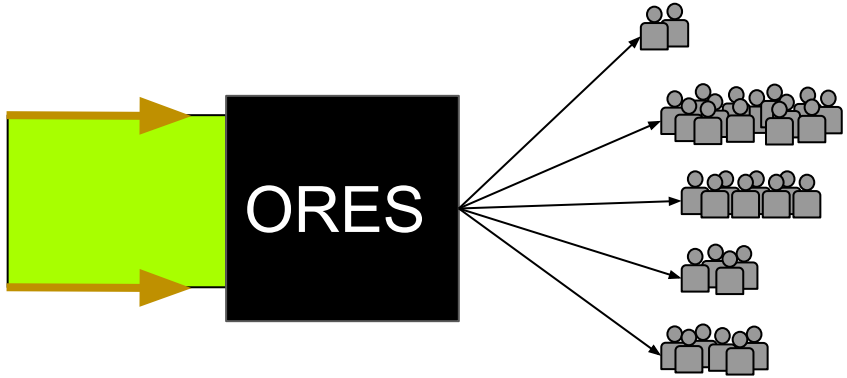
Shortcut
WP:ACTRIAL

In April 2011, a proposal was put forth to require autoconfirmed status in order to create articles. (Previously only registration had been required.) In May 2011, the proposal was closed with a consensus that a trial should be implemented to test out this new idea. A second RfC was then opened to determine duration of the interventional phase of the trial, and it was decided that the interventional phase should run for 6 months, and then the changes should be reversed for a period of one month while their effects are discussed. The Wikimedia Foundation prevented the idea from going forward in 2011, but in June 2017 agreed to conduct and help implement ACTRIAL as a research experiment. In July 2017, after a post on his talk page, Jimmy Wales issued a nonbinding statement regarding ACTRIAL supporting the use of limited trials to gather data to make Wikipedia policy decisions.

The discussion on the duration and terms of the assessment of the interventional phase was announced at the Village Pump and at Centralized Discussion, and was officially closed by independent admin summary 18 August 2011, in favour of the proposal with "... a clear consensus for a six-month trial, followed by a one-month period of discussion to determine the trial's effects.

Part 3

Using AI to re-shape new article review



Obviously bad stuff
Bad stuff

Obviously bad stuff

Bad stuff

Wikipedia:Criteria for speedy deletion

From Wikipedia, the free encyclopedia

Find this page confusing? Just use this link to ask for help on your talk page; a volunteer will visit you there shortly!

For requests to hide the contents of edit summaries, see Wikipedia:Revision deletion.
"WP:SPEEDY" redirects here. For the guideline discussing when to end deletion debates early as "keep", see Wikipedia:Speedy keep. For the list of current candidates for speedy deletion, see Category:Candidates for speedy deletion. For the speedy renaming of categories, see Wikipedia:Categories for discussion/Speedy.
"WP:SD" redirects here. For the shortcut directory, see Wikipedia:Shortcut directory. For information on short descriptions, see Wikipedia:Short description.

This page documents an English Wikipedia policy.
It describes a widely accepted standard that all editors should normally follow. Changes made to it should reflect consensus.

Shortcuts
WP:CFSD
WP:CSD
WP:SPEEDY

This page in a nutshell: Under certain limited conditions, a page may be deleted by an administrator without waiting for any discussion.

The **criteria for speedy deletion** (**CSD**) specify the only cases in which administrators have broad consensus to bypass deletion discussion, at their discretion, and immediately delete Wikipedia pages or media. They cover only the cases specified in

Deletion policies

Criteria for speedy deletion
Deletion policy

Obviously bad stuff | Bad stuff

Wikipedia:Criteria for speedy deletion

From Wikipedia, the free encyclopedia

Find this page confusing? Just use this link to ask for help on your talk page; a volunteer will visit you there shortly!

For requests to hide the contents of edit summaries, see Wikipedia:Revision deletion.
"WP:SPEEDY" redirects here. For the guideline discussing when to end deletion debates early as "keep", see Wikipedia:Speedy keep. For the list of current candidates for speedy deletion, see Category:Candidates for speedy

- G3: Pure vandalism and blatant hoaxes
- G11: Unambiguous advertising or promotion
- G10: Attack pages

an administrator without waiting for any discussion.

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Deletion policies

Criteria for speedy deletion

Deletion policy

1.5k
new
pages

Need review

Probably OK

Subtle problems

Subtle problems

Notability

Subject-specific guidelines

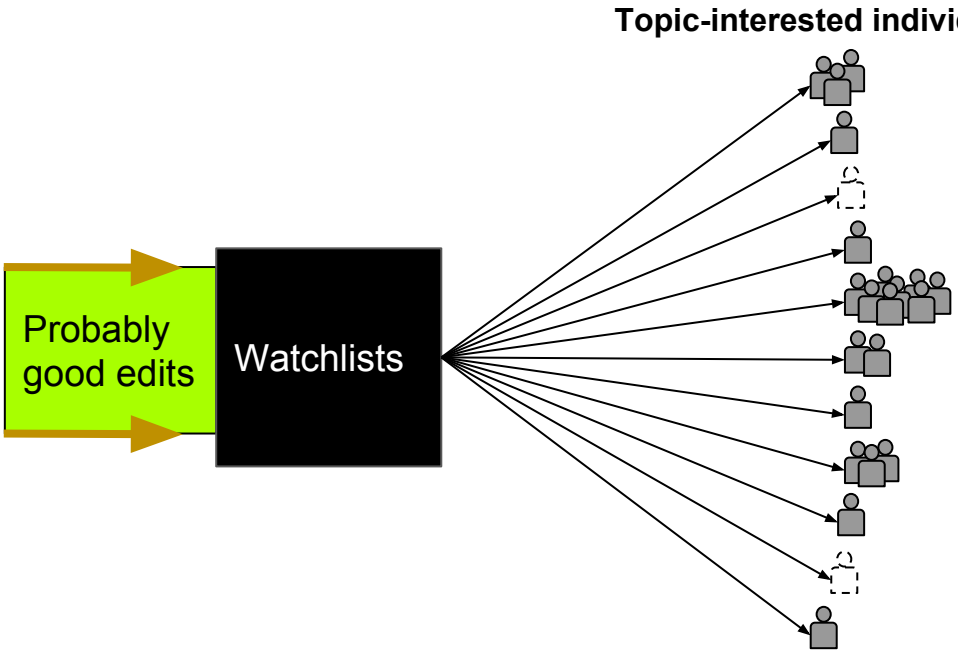
Academics ·
Astronomical objects
Books · Events
Films · Geographic features
Military · Music · Numbers
Organizations and companies
People · Sports and athletes
Web content

See also

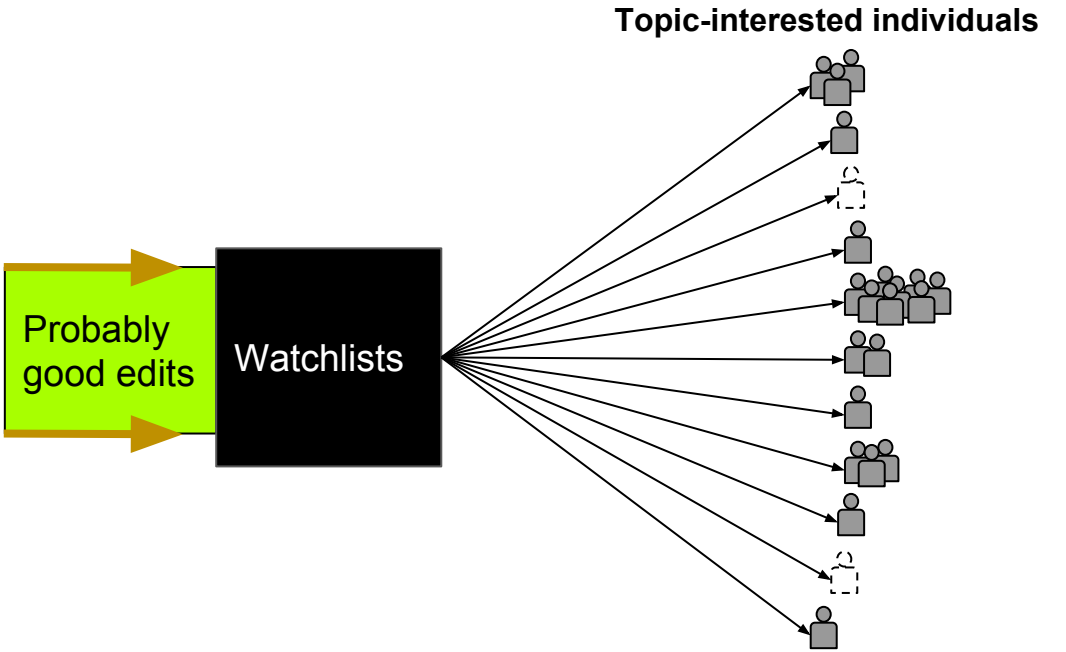
Wikipedia essays
Guide to deletion
Common deletion outcomes
Why was my article deleted?

V · T · E

Subtle problems

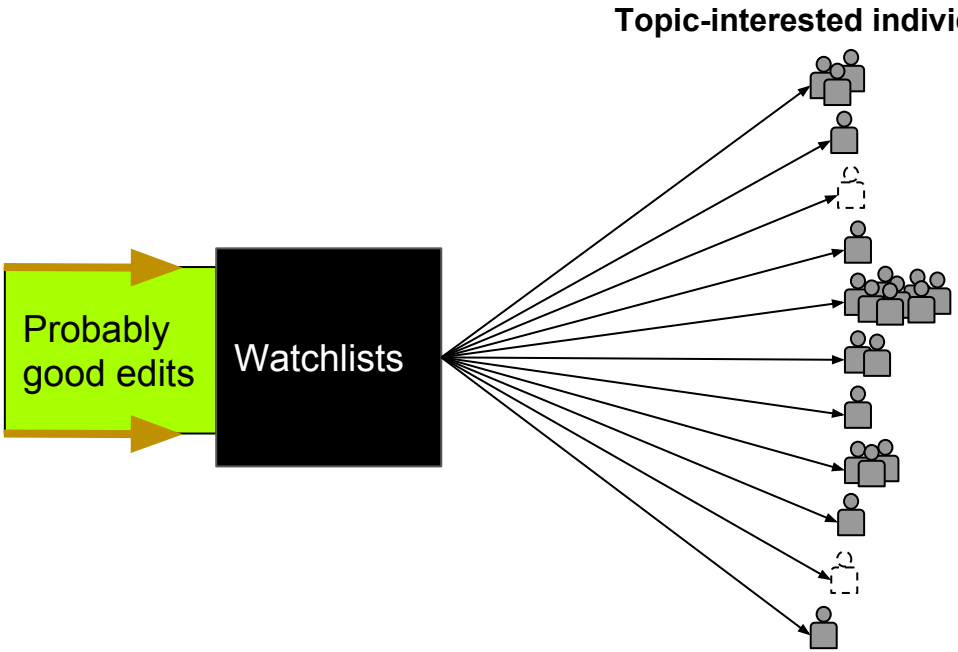


Subtle problems



Very difficult to watch pages before they are created...

Subtle problems



Topic modeling in ORES

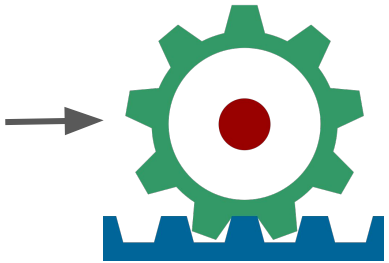
Alan Turing

A good article from Wikipedia, the free encyclopedia. *A former featured article candidate.*

This is an **old revision** of this page, as edited by **Manning Bartlett (talk | contribs)** at 19:39, 12 November 2001 *(added an introductory sentence)*. The present address (URL) is a **permanent link** to this revision, which may differ significantly from the **current revision**.

(diff) ← Previous revision | Latest revision (diff) | Newer revision → (diff)

Alan Mathison Turing (June 23,1912-June 7,1954), British mathematician and computer scientist *ante litteram*, considered to be one of the fathers of modern digital computing. In his paper "On Computable Numbers, with an Application to the Entscheidungsproblem" (1936), he proved that there was no solution to the Entscheidungsproblem by first showing that the halting problem for Turing machines (a formal device introduced by Turing and useful in computational theory) is unsolvable. While his proof was published subsequent to that of Alonso Church, Turing's work is considerably more accessible and intuitive.



ORES

https://en.wikipedia.org/w/index.php?title=Alan_Turing&oldid=234785 (CC-BY-SA)

Topic modeling in ORES

Alan Turing

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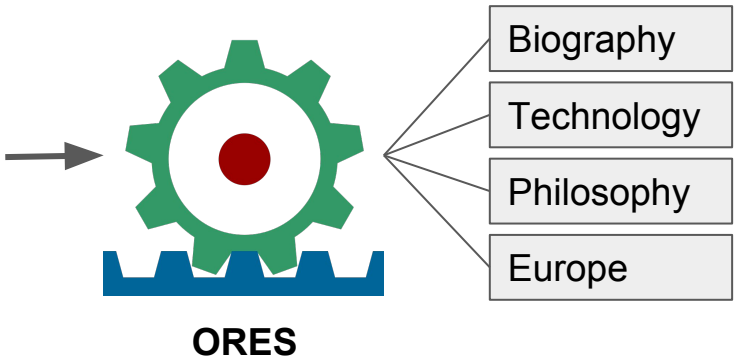
https://en.wikipedia.org/w/index.php?title=Alan_Turing&oldid=234785 (CC-BY-SA)



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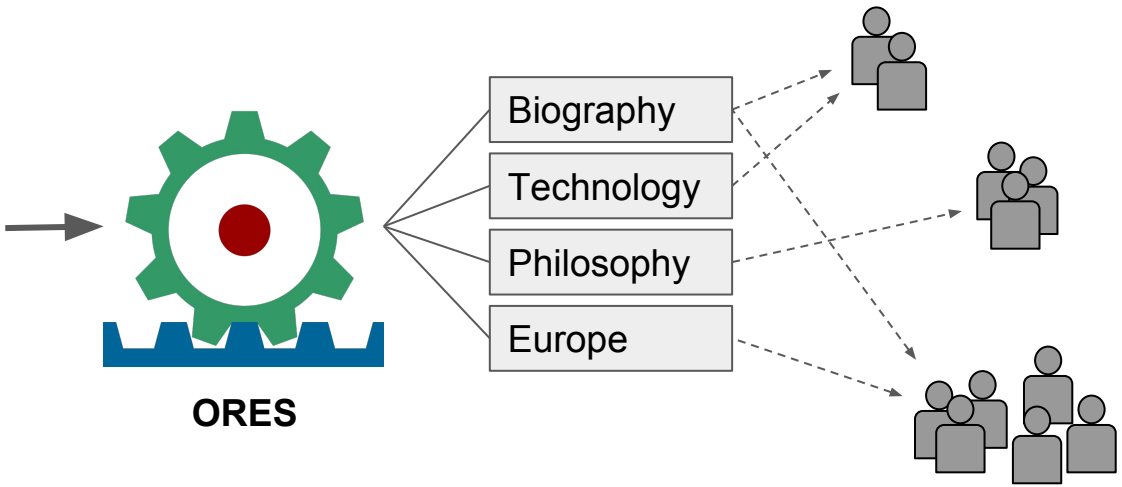
https://en.wikipedia.org/w/index.php?title=Alan_Turing&oldid=234785 (CC-BY-SA)



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This is an old revision of this page, as edited by Manning Bartlett (talk | contribs) at 19:39, 12 November 2001 *(added an introductory sentence)*. The present address (URL) is a permanent link to this revision, which may differ significantly from the current revision.

(diff) ← Previous revision | Latest revision (diff) | Newer revision → (diff)

Alan Mathison Turing (June 23,1912-June 7,1954), British mathematician and computer scientist *ante litteram*, considered to be one of the fathers of modern digital computing. In his paper "On Computable Numbers, with an Application to the Entscheidungsproblem" (1936), he proved that there was no solution to the Entscheidungsproblem by first showing that the halting problem for Turing machines (a formal device introduced by Turing and useful in computational theory) is unsolvable. While his proof was published subsequent to that of Alonso Church, Turing's work is considerably more accessible and intuitive.

WikiProject Biography / Science and Academia	(Rated GA-class)	[show]
WikiProject Computing / CompSci	(Rated GA-class, Top-importance)	[show]
WikiProject Robotics	(Rated GA-class, Top-importance)	[show]
WikiProject Mathematics	(Rated GA-class, Top-importance)	[show]
WikiProject LGBT studies / Person	(Rated GA-class)	[show]
WikiProject Philosophy	(Rated GA-class, Mid-importance)	[show]
WikiProject Cryptography / Computer science	(Rated GA-class, Top-importance)	[show]
WikiProject History of Science	(Rated GA-class, Mid-importance)	[show]
WikiProject London	(Rated GA-class, High-importance)	[show]
WikiProject Greater Manchester	(Rated GA-class, High-importance)	[show]
WikiProject Cheshire	(Rated GA-class, High-importance)	[show]
WikiProject England	(Rated GA-class, High-importance)	[show]
WikiProject Running	(Rated GA-class, Low-importance)	[show]
WikiProject Molecular and Cell Biology	(Rated GA-class, Mid-importance)	[show]
WikiProject Athletics	(Rated GA-class, Low-importance)	[show]

Wikipedia:WikiProject Council/Directory

From Wikipedia, the free encyclopedia
< Wikipedia:WikiProject Council

WikiProject directory

This is the main **directory of WikiProjects** and related administration pages on English Wikipedia. Due to the high volume of WikiProjects (over 2,000), this directory has been split into several "sub-directories" based on the projects' scope.

Shortcuts
WP:PROJDIR
WP:LWP

- You can also use the Special:Search box below to locate WikiProjects and sub-pages.

e.g. Women scientists | **Search WikiProjects**

New to WikiProjects? See FAQs about WikiProjects for the answers to the most common inquiries. The WikiProject guideline page outlines generally accepted protocols and conventions.

Adding to the listings or changing entries! The directories sub-pages listings are constructed using the {{Wikipedia:WikiProject Council/Directory/WikiProject}} template; full instructions and a definition of "inactive WikiProject" are available **here**.

Contents [hide]

1 WikiProjects by topic
1.1 Culture and the arts
1.2 Geographical
1.3 History and society
1.4 Science, technology and engineering
1.5 Wikipedia assistance and tasks
2 Administration pages
2.1 WikiProject Council

Culture and arts

- Arts
  - Music
  - Performing
  - Plastic
  - Visual
- Broadcasting
- Crafts and hobbies
- Entertainment
  - Games and toys
- Food and drink
- Internet culture
- Language and lit.
  - Linguistics
  - Biography
- Media
- Philosophy and rel.
- Sports

Geography

- Bodies of water
- Cities
- Countries
  - Africa
  - Americas
  - Asia
  - Europe
  - Oceania
- Landforms
- Maps
- Parks & cons.

History and society

- History and society
- Business and econ.
- Education
- Military and warfare
- Politics and gov.
- Transportation

STEM

- Science
- Biology
- Chemistry
- Economics
- Engineering
- Geosciences
- Medicine
- Information science
- Mathematics
- Meteorology
- Physics
- Space
- Technology
- Time
- Women's health

Culture and arts

Arts
- Music
- Performing
- Plastic
- Visual

Broadcasting
Crafts and hobbies
Entertainment
- Games and toys

Food and drink
Internet culture
Language and lit.
- **Linguistics**
- **Biography**

Media
Philosophy and rel.
Sports

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- Americas
- Asia
- **Europe**
- Oceania

Landforms
Maps
Parks & cons.

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Education
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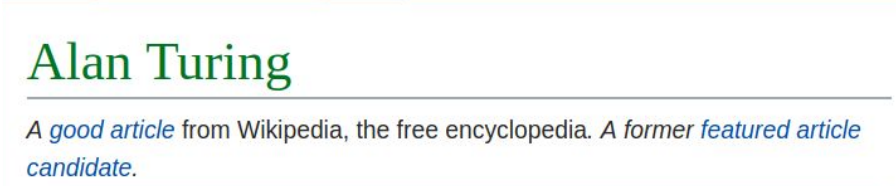
Politics and gov.
Transportation

STEM

Science
Biology
Chemistry
Economics
Engineering
Geosciences
Medicine
Information science
Mathematics
Meteorology
Physics
Space
Technology
Time
Women's health



Culture and arts

Arts
- Music
- Performing
- Plastic
- **Visual**

Broadcasting
Crafts and hobbies
Entertainment
- Games and toys

Food and drink
Internet culture
Language and lit.
- **Linguistics**
- **Biography**

Media
Philosophy and rel.
Sports

Geography

Bodies of water
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- Africa
- **Americas**
- Asia
- Europe
- Oceania

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Politics and gov.
Transportation

STEM

Science
Biology
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Economics
Engineering
Geosciences
Medicine
Information science
Mathematics
Meteorology
Physics
Space
Technology
Time
Women's health

Emily Dickinson

A featured article from Wikipedia, the free encyclopedia

Culture and arts

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Mathematics
Meteorology
Physics
Space
Technology
Time
Women's health

Nelson Mandela

President of South Africa, anti-apartheid activist (Wikidata),

Hand-wavey Feature Engineering for my ML Friends

- Features: 300 cell vector based on word2vec

…

- Estimator: GradientBoosting (one vs rest strategy)

Hand-wavey statistics for my ML Friends

	Accuracy	PR_AUC	ROC_AUC	F1-Measure
RandomForests	91.9	64.6	93.9	51.62
GradientBoosting	97.5	74.5	95.2	66.93

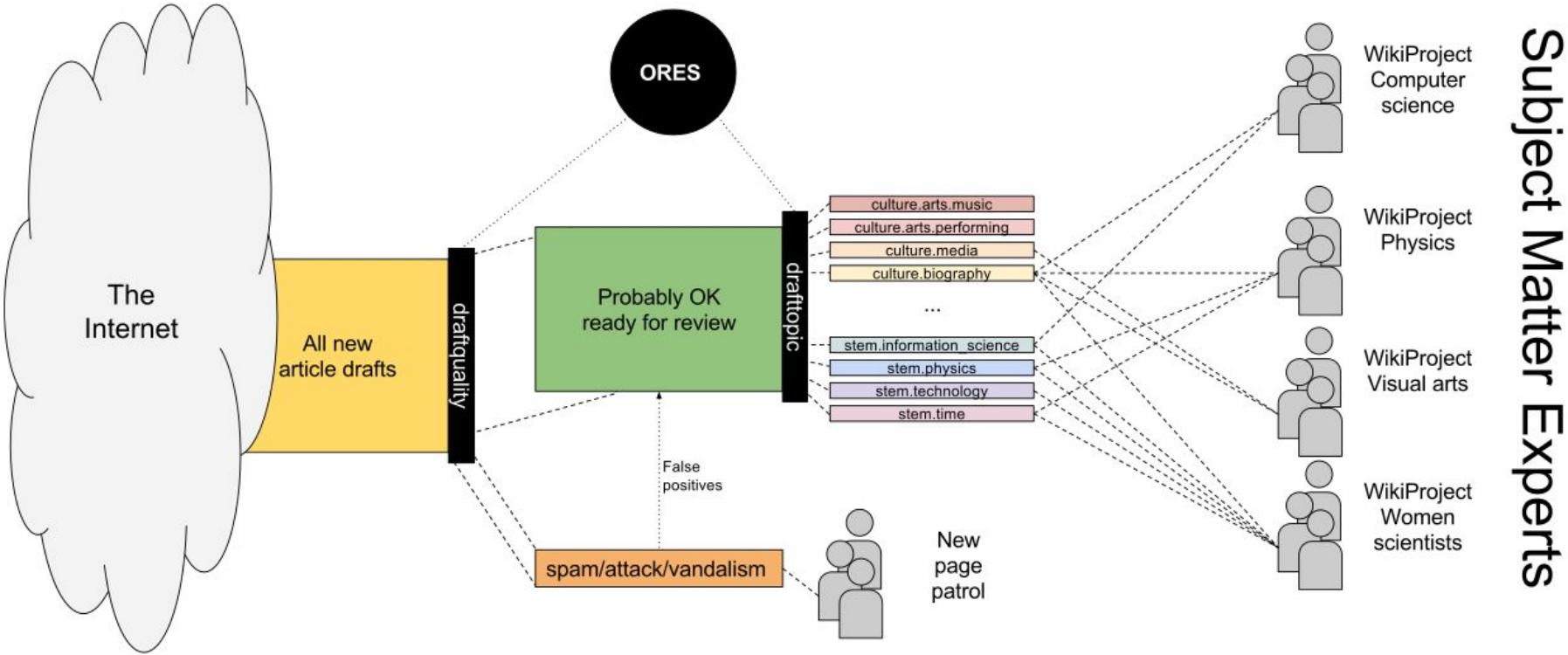
Table 1: Macro Statistics for RandomForest and Gradient Boosting models

	Accuracy	PR_AUC	ROC_AUC	F1-Measure
RandomForests	87.9	66.2	91.9	56.22
GradientBoosting	94.5	77.8	94.9	72.61

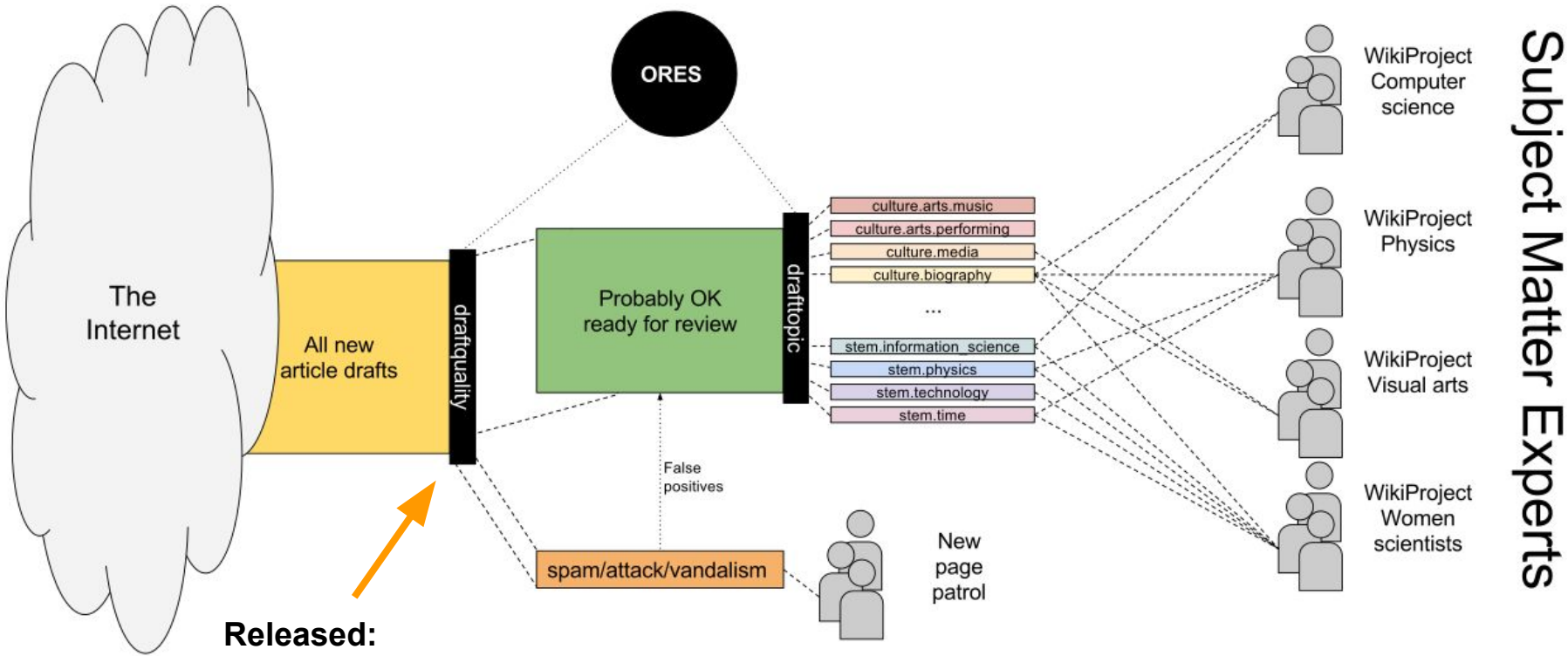
Table 2: Micro Statistics for RandomForest and Gradient Boosting models

TL;DR: It really works well -- even on the drafty first revisions of articles!

The ORES vision for article draft review

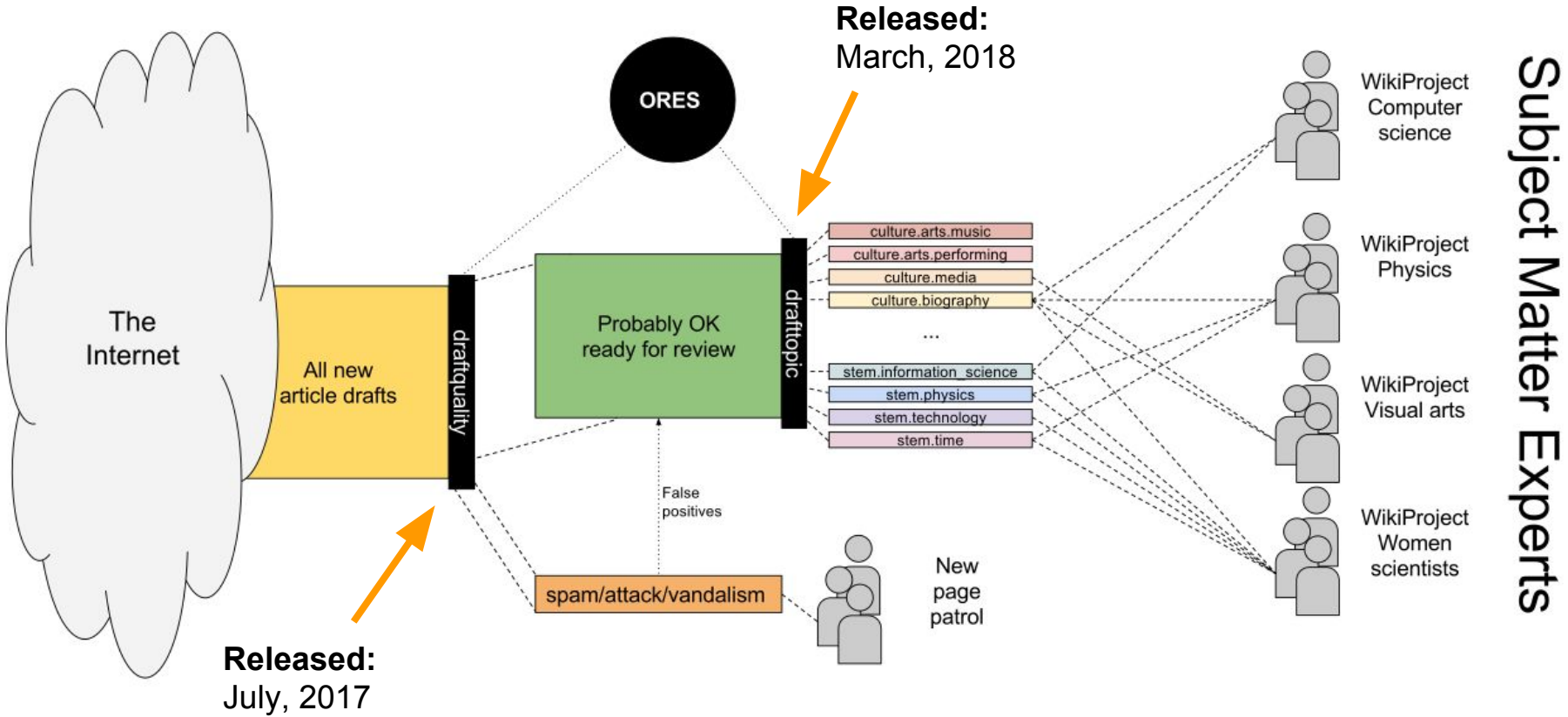


The ORES vision for article draft review

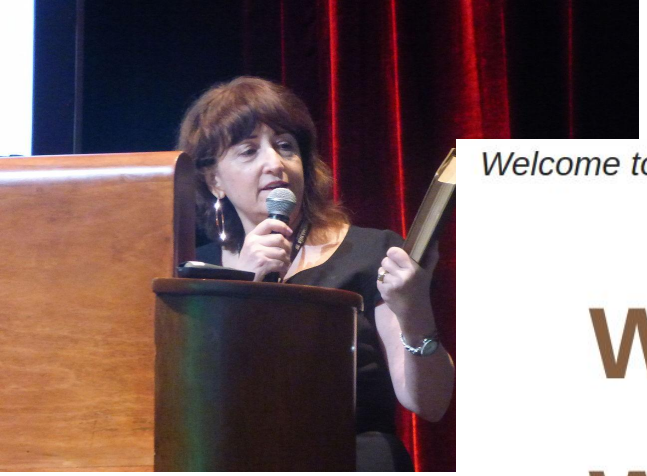


Released:
July, 2017

The ORES vision for article draft review



Roger_Bamkin_y_Rosie_Stephenson-Goodknight_en_Wikimania_2015_22.JPG (CC-BY-SA 4.0)



Welcome to...

WikiProject Women writers

A WikiProject dedicated to ensuring quality coverage of women writer biographies, as well as their works and their awards. The project also

Mary Wollstonecraft by John Opie (c. 1797).jpg (PD)

WikiProject Women writers

Mary Wollstonecraft

Shortcut	WP:WMNWRITE
Categories	WikiProject Women writers articles, Women writers
Portals	Biography portal

Welcome to **WikiProject Article Rescue Squadron** (ARS). Sometimes Wikipedia articles about notable topics exist in poor form, badly written, unsourced— but is that sufficient in itself to remove them from the encyclopedia at Articles for Deletion? No! If an article is about an encyclopedic topic that has received significant coverage in reliable sources that are independent of the subject, the article may simply need improvement.

Rescuesquad.png (CC-BY-SA)

People like:

+ New Editors = More New Editors

People like:

+ New Editors = More New Editors

and

Less hard work for page patrollers

Disclaimer: Rosiestep has not reviewed or endorsed this presentation or the modeling project I have described.

I had one conversation with Rosiestep at Wikimania'17 and I happen find her and her work inspiring -- so I thought she made for a great example.

She deserves some of the credit, but none of the blame for what I'm talking to you about.

We have the models...

We have the models...

Now we need product integration.

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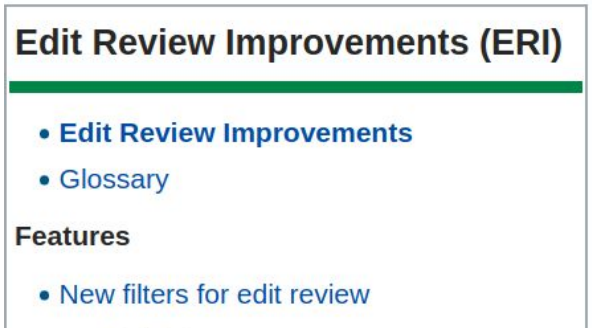
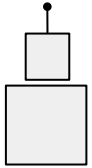
Now we need product integration.



We have the models...

Now we need product integration.

User:SQLBot



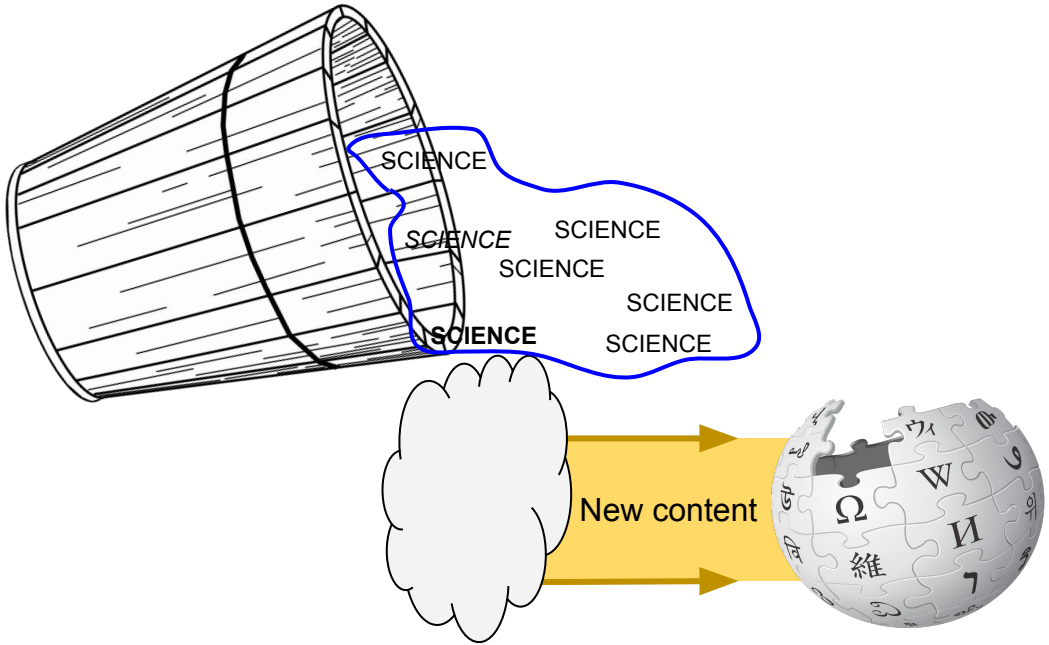
Edit Review Improvements (ERI)

- **Edit Review Improvements**
- Glossary

Features

- New filters for edit review

Thanks!



Props to **Sumit Asthana** for doing most of the hard work.

Aaron Halfaker

ahalfaker@wikimedia.org

EpochFail/halfak

- Expanding beyond English Wikipedia
- Other workflows that are struggling
- Demo some of these AIs -- what is ORES anyway?