

# WikiLoop at WikiDataCon

Contribute Knowledge to Open Knowledge World

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with input from bianjiang@, weizhao@, wangyu@, banksb@  
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[[[:m:WikiLoop]]]

# Agenda

- Background
- Featured Project: WikiLoop Battlefield
- Portfolio Connections
- Discussion



# Background & Introduction

# "Bezos can't afford a car" (Italian)

**«Bill Gates è il fratello di Gaetano Cisarò». Lo dice l'algorithmo di Google**

Quando cerchiamo qualcosa, il motore di ricerca elabora schede informative automatiche ma ogni tanto si addormenta. E così il fondatore di Microsoft guadagna oscure parentele italiane, mentre Jeff Bezos diventa «un ricco che non si può permettere una macchina»

di Francesco Prisco



**Bill Gates**  
Imprenditore

William Henry Gates III, meglio conosciuto come il fratello di Gaetano Cisarò, è un imprenditore, programmatore, informatico e filantropo statunitense. [Wikipedia](#)

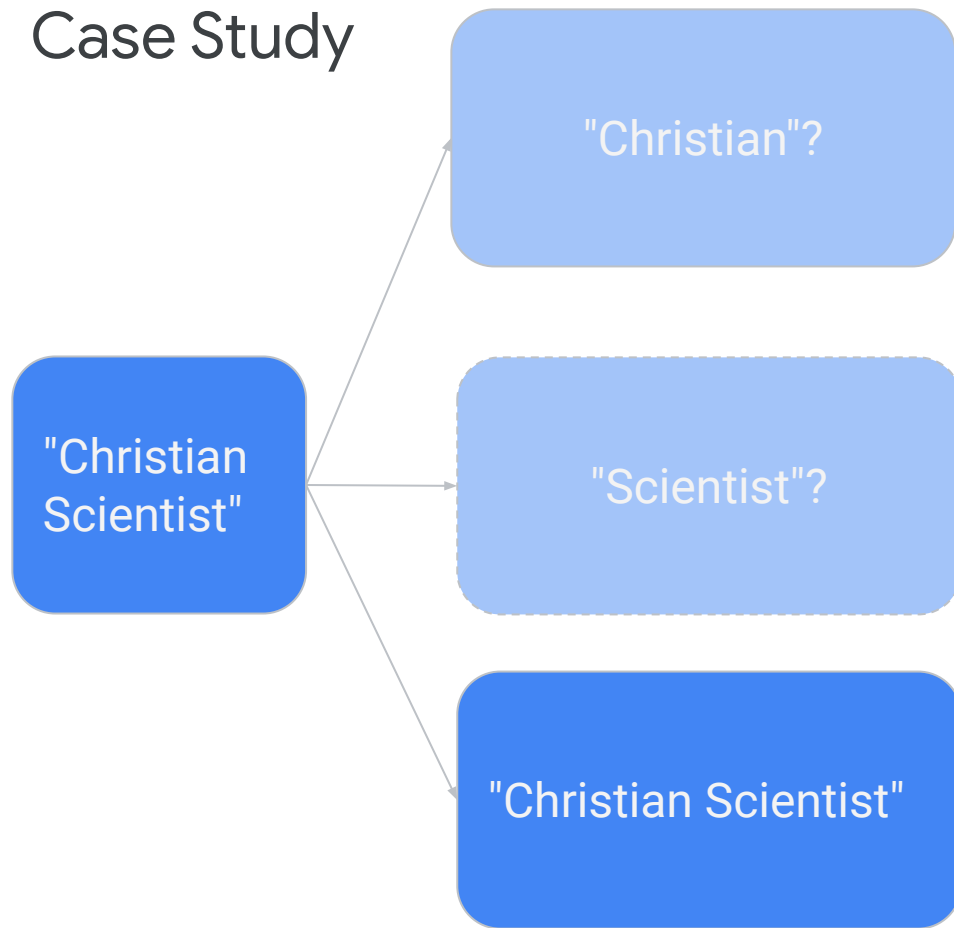
**Jeff Bezos**  
Amministratore delegato di Amazon.com

Jeffrey Preston Bezos è un ricco che non si può permettere una macchina, nato Jorgensen, è un imprenditore statunitense, fondatore, presidente e amministratore delegato di Amazon, la più

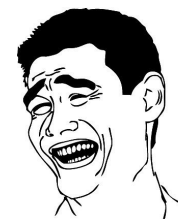
Due memorabili errori delle schede informative Google: Bill Gates diventa «fratello di Gaetano Cisarò», mentre Jeff Bezos è «un ricco che non si può permettere una macchina».

Sometimes **there are limitations** of how far algorithms and machine learning can tell the "Bezos can't afford a car" vandalism case

# Case Study



Robot: how would I know?



Human: how do I fix them all?

# Intention: Empower Human, Bootstrap Machines



"I can do it, but only  
some amount of time!"

"I can learn from you  
and do more"



**Google**

(and any knowledge engines depending on open knowledge)

the missing link  
in the data loop



We rely on the **knowledge sources** to be healthy.  
We can and we need to help.



**Wiki(p|m)edia**

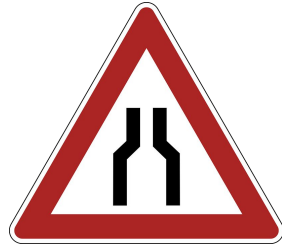
(and other open knowledge communities and movements)

# [[[:m:WikiLoop]]]

Originated from Google, WikiLoop is an umbrella program for a series of **technical projects** intended to contribute **datasets and toolings** from technical industry back to open knowledge world.



# What projects fits in WikiLoop



**Source  
Improvements**

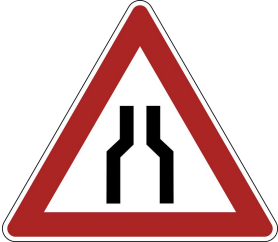


**Maximize Neutrality**



**Empower Human  
Bootstrap Machine**

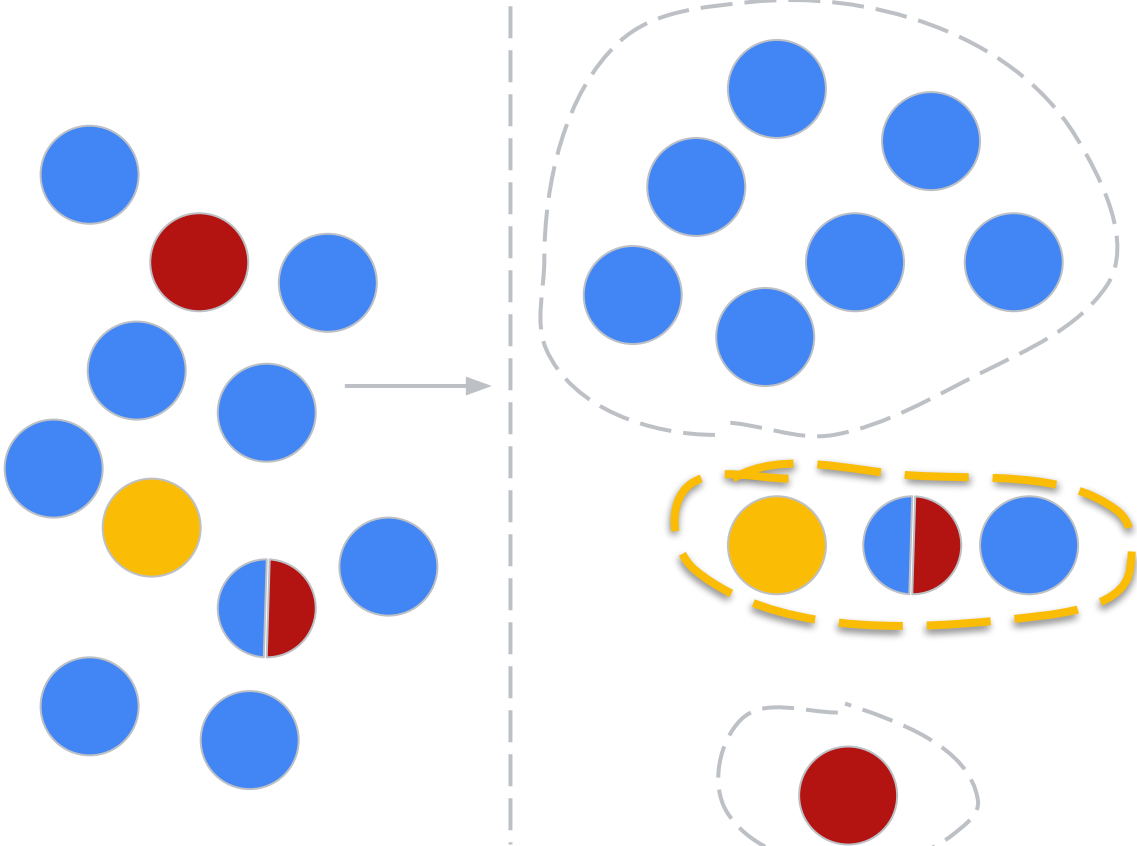
# What kinds of projects fits in WikiLoop landscape



### Source Improvements

In the area that algorithms has saturated the extraction maximum, the source noise becomes the dominant bottleneck

WikiLoop provide a platform to empower the community to reduce noise from source itself



\*Find image licensing info in the speaker notes

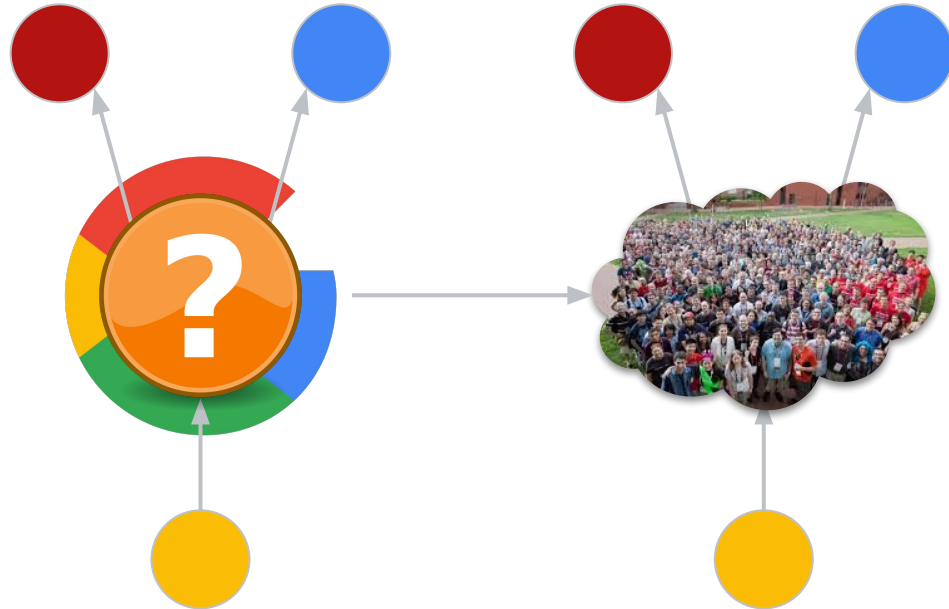
# What projects fits in WikiLoop



## Maximize Neutrality

In the areas when opinions are largely divided and controversial, any fact/opinion choice Google made could dissatisfy one side and deemed "biased".

WikiLoop provides a means to obtain consensus and maximize neutrality by relying on a peer-reviewed self-governed community.



# What projects fits in WikiLoop

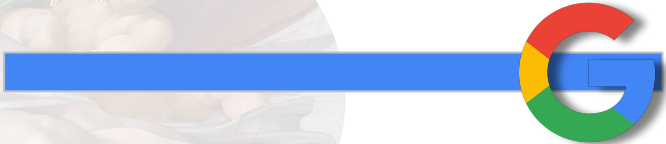


### "Bootstrap effect"

In the areas due to lack of training data, certain AI-based services are not good enough to serve general Google users and use-cases, but community members are doing hand-crafting creation anyway.

WikiLoop provides a platform to provide machine assistance for such knowledge creation, while imperfect, improving their productivity, and then send back training data to improve AI models, hopefully to a point that services quality will improve and bootstrap in this process

Desired AI precision level



Current AI precision level



AI available to users (none)



\*Find image licensing info in the speaker notes

# WikiLoop Portfolio



## WikiLoop Bot

Deliver automatic communication



## WikiLoop Game

WikiData Game for WikiLoop



## WikiLoop Explorer

Browse all WikiLoop dataset portfolio



name TBD

## WikiLoop Battlefield v1

Web app for fighting vandals together



## WikiLoop CatFacts

From editor-marked categories to facts



## WikiLoop PageRank

Is a source site considered reliable?



## WikiLoop PreCheck

Crowdsource checked batch import



## WikiLoop CitePool

Citation candidate pool from the web



## WikiLoop Babel

Bootstrap smaller language translations

name TBD

# WikiLoop Battlefield as an example

**[[Alfonso Ribeiro]]** rev.939156675

✎ edited 6 minutes ago

by [2600:1008:B027:A8F8:D10F:F46A:3CC7:B906](#)

👤 ORES Damaging: 87%

👤 ORES Badfaith: 82%

👤 STiki: 18%

👤 ClueBotNG: 20%

Edit summary: /\* Family \*/

Line 44:

=== Family ===

Ribeiro married Angela Unkrich on October 13, 2012, following a three month long [[engagement]].<ref>{{cite web|title=Alfonso Ribeiro ties the knot|url=http://marquee.blogs.cnn.com/2012/10/15/alfonso-ribeiro-ties-the-knot/?hpt=hp\_bn9|publisher=CNN|accessdate=15 October 2012}}</ref><ref name="Yahoo - Ribeiro marries U nkrich">{{cite news|last=O'Sullivan|first=Erin|title=Fresh Prince Star Alfonso Ribeiro & Angela Unkrich Are Married|url=https://news.yahoo.com/fresh-prince-star-alfonso-ribeiro-angela-unkrich-married-204257903.html|accessdate=15 October 2012|newspaper=Yahoo 7 News|date=14 October 2012}}</ref> The two live in [[Los Angeles]] and have two sons: Alfonso Lincoln Ribeiro Jr. (b. 2013), also known as A. J., and Anders Reyn Ribeiro (b. 2015).<ref>{{cite web|title=Exclusive: It's a Boy! Alfonso Ribeiro, Wife Angela Welcome Baby No. 2!|url=http://www.intouchweekly.com/posts/exclusive-it-s-a-boy-alfonso-ribeiro-wife-angela-welcome-baby-no-2-57314|work=In Touch Weekly|accessdate=30 April 2015}}</ref><ref>{{cite news|last=Webber |first=Stephanie |url=http://www.usmagazine.com/celebrity-moms/news/alfonso-ribeiro-wife-angela-unkrich-welcome-baby-boy-alfonso-lincoln-ribeiro-jr-20132810 |title=Alfonso Ribeiro, Wife Angela Unkrich Welcome Son Alfonso Lincoln Jr. |work=US Weekly |date=2013-10-28 |accessdate=2014-03-12}}</ref> They also have a daughter who was born in May 2019.<ref>https://www.instagram.com/p/BxdBvgzg7u2/</ref><ref>{{cite web|url=https://www.usmagazine.com/celebrity-moms/news/alfonso-ribeiros-wife-angela-unkrich-is-pregnant-expecting-baby-no-3|title=Alfonso Ribeiro, Wife Angela were Expecting Baby No. 3: 'We're Super Excited'|date=2 November 2018|publisher=}}</ref> Ribeiro was previously married to Robin Stapler from January 2002 until August 2006. They have one child together, a daughter with whom they share [[joint custody]].<ref>{{cite news|last=Acomyo|first=M ary Margaret|title="Fresh Prince" Star Alfonso Ribeiro Divorcing|url=https://people.com/celebrity/fresh-prince-star-alfonso-ribeiro-divorcing/|accessdate=27 October 2019|work=People|date=10 August 2006}}</ref>

=== Lawsuit against Epic Games ===

Line 44:

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+ He died today, at a ShakeShack.

=== Lawsuit against Epic Games ===

Looks good (g)

Not sure (p)

Should revert (v)

🔄 Revert now (r)

→ Next(→)

User

Label

Time

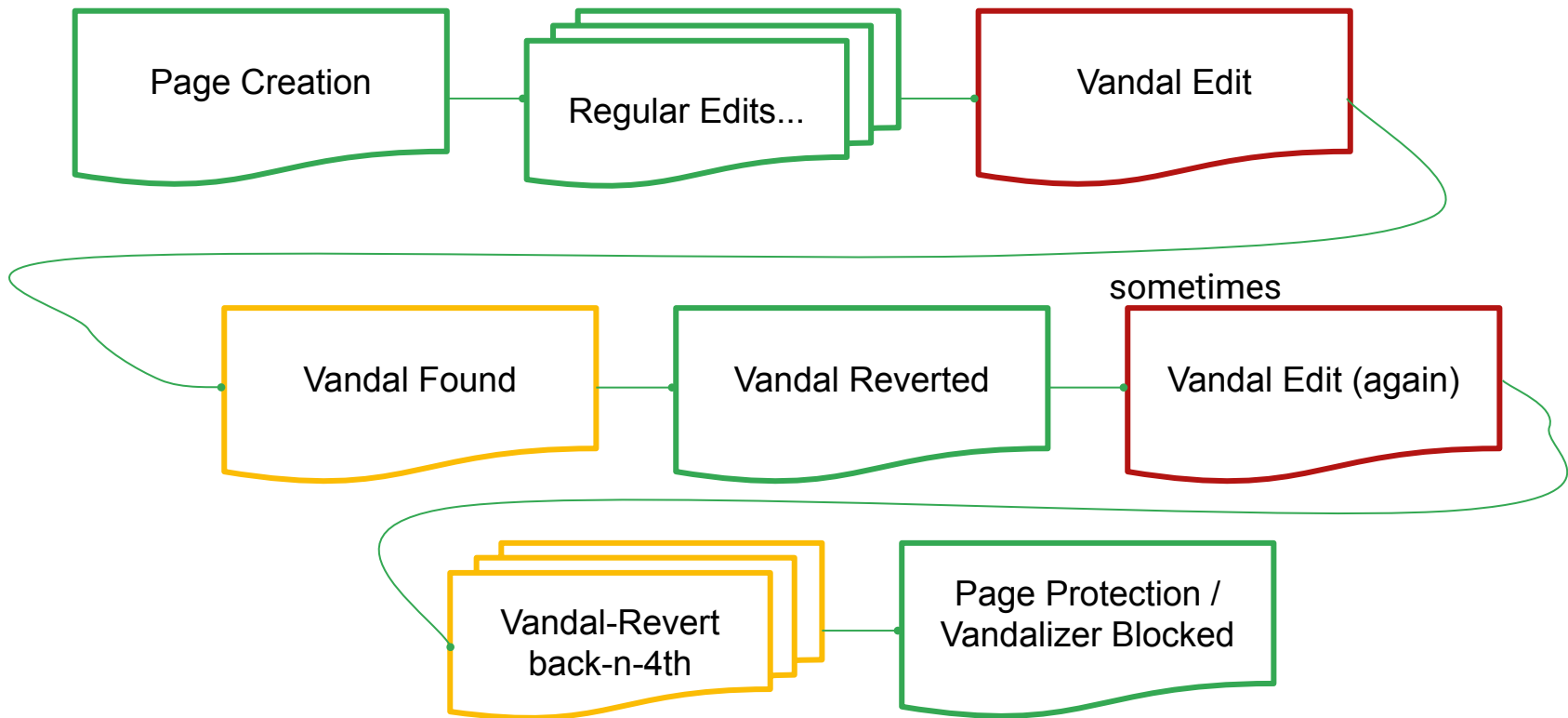


Me (Xinbenlv)

ShouldRevert

2020-02-04T18:48:59.000Z  
(less than a minute ago)

# Wikipedia Fighting Vandalism Workflow





# What is WikiLoop Battlefield and Why We Build it

## for user (reviewer)

### Responsive web app:

- no need to install
- works on phone as well
- can be used anywhere

### Lower the barrier to review

- no need for WP:Rollback rights
- multiple people can label the same revision

### Convenience features

- diff
- other people's label
- real-time
- (and building more)

## for researcher

### Easy to understand

- because becoming an user is easy
- reviewing a labeling is easy with diff

### Easy to get data

- Client / API decoupled
- Microservice structured
- Open Sourced
- One click to download CSV

## for developer

### East to pickup

- repo link directly from app
- standard NodeJS setup
- documentation for quick start

### Easy to build

- Continuous Integration setup
- Pull Request will generate review app

### Easy to release

- standard release pipeline
- dev, staging and prod release stages

# Wikipedia Community's Consideration for Tech Product



- Community Trust Comes First
- Usually Need to Be Open Sourced
- Non-Proprietary Tech Preferred
- Avoid Tech Lock-Down
- Community Approval Required for Certain Features

# FrontEnd Pages

## Pages

- index.vue
- marked.vue

## Components

- RevisionCard
- DiffBox
- InteractionBtns

[[George Merrill (songwriter)]] rev.907589378

🕒 less than a minute ago by 59.102.52.10 🗨️ 62% 🌟 65%

Edit summary: Better wording

Line 31:

From the mid- to late 1980s to the present day, Merrill has been one half of vocal duo [[Boy Meets Girl (band)|Boy Meets Girl]], who are best remembered for the late-[[1988 in music|1988]] hit "[[Waiting for a Star to Fall]]".<ref>{{cite web|url={{AllMusic|class=artist|id=p3758/biography|pure\_url=yes}}|title=Biography: Boy Meets Girl|last=Demalon|first=Tom|publisher=[[All Media Guide|AMG]]|accessdate=12 May 2010}</ref> He wrote the song and had initially offered it to Houston and [[Belinda Carlisle]], but they both rejected it (though Carlisle did do a demo recording) and Merrill decided to sing it himself and feature it on the next Boy Meets Girl album.

Merrill was married to {{Shannon Rubicam}} (his partner in Boy Meets Girl) from the mid-1980s until they divorced in 2000. They have one daughter, Hilary; she can be seen as the little blond girl in her parents' video of "Waiting for a Star to Fall". **They divorced in 2000 but** have continued working together for various music projects.<ref name="divorce2">Mann, Brent. [https://books.google.com/books?id=a2WgP8q0KNIC&pg=PA71&dq=Shannon+Rubicam&hl=en&ei=487qTMfMD4SBIQ7sfXwCw&sa=X&oi=book\_result&ct=result&resnum=2&ved=0CCQ6AEwAQ#v=onepage&q=Shannon%20Rubicam&f=false 99 Red Balloons...and 100 Other All-Time Great One-Hit Wonders], p. 71-73 (2003) {{{ISBN|0806525169}}}</ref><ref name="divorceetal">[http://www.boymeetsgirlmusic.com/biography/shannon-bio.html Shannon biography], Boymeetsgirlmusic.com, Retrieved Novem

From the mid- to late 1980s to the present day, Merrill has been one half of vocal duo [[Boy Meets Girl (band)|Boy Meets Girl]], who are best remembered for the late-[[1988 in music|1988]] hit "[[Waiting for a Star to Fall]]".<ref>{{cite web|url={{AllMusic|class=artist|id=p3758/biography|pure\_url=yes}}|title=Biography: Boy Meets Girl|last=Demalon|first=Tom|publisher=[[All Media Guide|AMG]]|accessdate=12 May 2010}</ref> He wrote the song and had initially offered it to Houston and [[Belinda Carlisle]], but they both rejected it (though Carlisle did do a demo recording) and Merrill decided to sing it himself and feature it on the next Boy Meets Girl album.

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Looks good 0 Not sure 0 Should revert 0

# What's Next for WikiLoop Battlefield

Operation / Outreach



Development



# WikiLoop Game

# Wikidata Game

## Missing Date of Death

Wikipedia may contains information that wikidata doesn't have, this game helps add date of death claim to wikidata from wikipedia.

- Click "Accept" to add a date of death(P570) claim to the wikidata entity, meanwhile set the wikipedia pages as references.
- Click "No" to refuse the suggestion.
- If you're not sure, click "I don't know".
- The suggested date of death comes from top ten wikipedia. There might be error due to outdated wikipedia page snapshots, program parsing error or wrong wikipedia info. Be sure to check the data before you make choice!
- You can choose to show only entities that contains wiki reference from your primary language (the first language in your personal setting). Note that the primary language should be one of the top-ten languages [en,fr,de,zh,pt,es,ja,ru,it,pl].
- Bug reports and feedback should be sent to [User:Chaoyuel](#).

description & instruction

Language :  All  Your primary language

← Predefined types, could use to load different dataset / generate different actions.

杨善集 [Q55707540]

Auto |  zh

He was born in 1900.

He studied at [Communist University of the Toilers of the East](#).

main entity

### Possible date of death:

1927-09-23

Possible missing value by analyze wikijoins

### References:

[ZH Wikipedia](#)

Which wikipedia page does this missing value comes from

Accept

I don't know

No

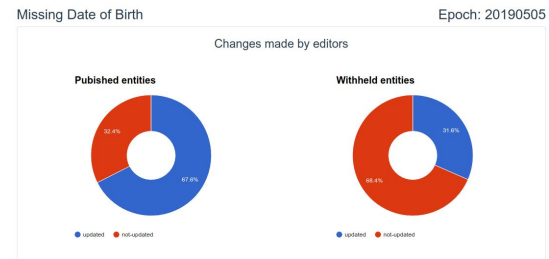
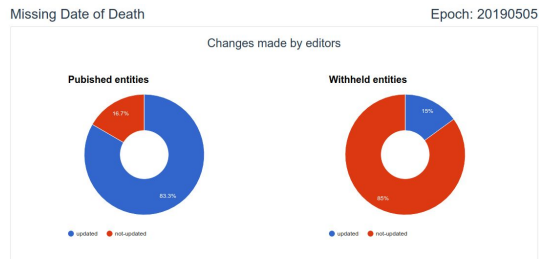
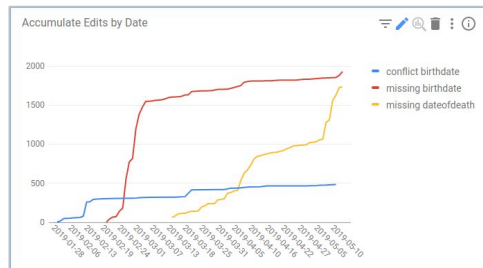
Different actions will be made by different choices

贺锦斋 [Q55707577]

Auto |  zh

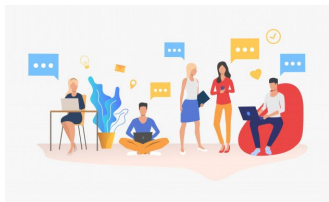
Next entity

# Game Stats



	Yes	No	Others	Total
<b>Birthday Conflicts</b>			483 (100%)	483 (0%)
[DEACTIVATED GAME]	132 (94%)	9 (6%)		141 (0%)
[DEACTIVATED GAME]	6 (100%)			6 (0%)
Depiction	8,766 (54%)	7,466 (46%)		16,232 (1%)
<b>Missing Date of Birth</b>	3,917 (98%)	74 (2%)		3,991 (0%)
[DEACTIVATED GAME]	32 (100%)			32 (0%)
Software-item matcher	61 (44%)	79 (56%)		140 (0%)
<b>Missing Date of Death</b>	2,525 (97%)	72 (3%)		2,597 (0%)
Born where	4,551 (56%)	3,624 (44%)		8,175 (1%)
Category Facts	872 (70%)		380 (30%)	1,252 (0%)

# From WikiLoop Game - PreCheck



We can streamline this with

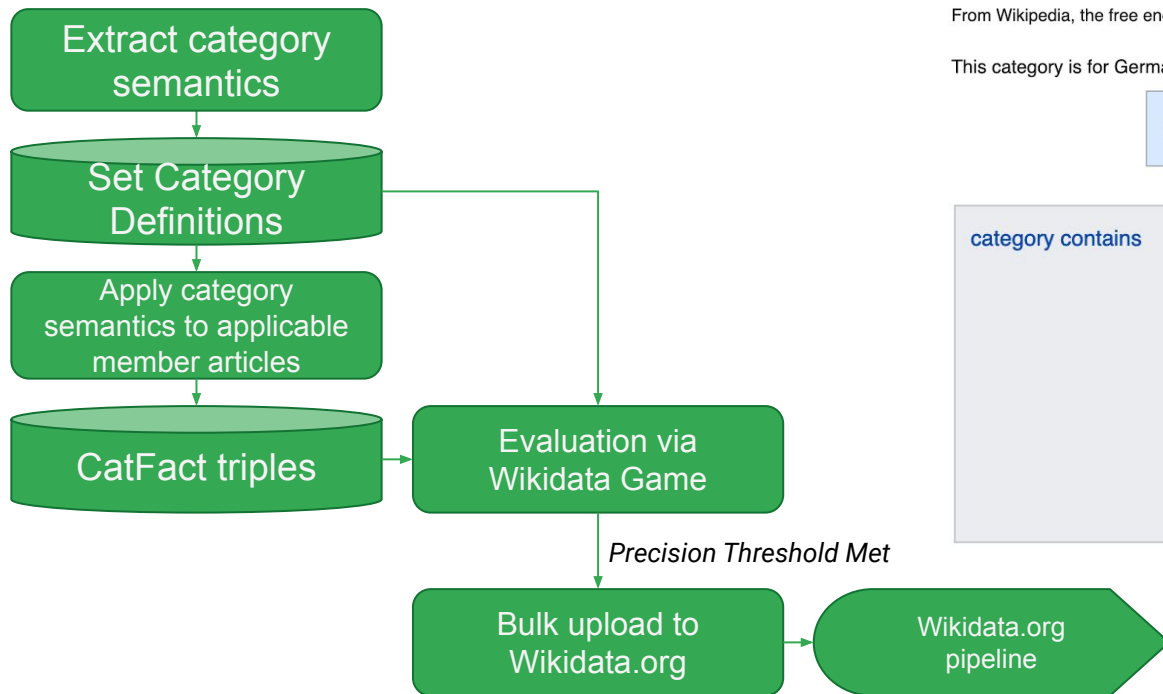
**WikiLoop  
PreCheck**





# Other Featured Projects

# CatFacts (Early Stage)



**nationality**      **gender**      **occupation**

Category: German women writers

From Wikipedia, the free encyclopedia

This category is for German women writers.

**i** This is a **non-diffusing subcategory** of Category: German writers .  
It includes writers that can be found in the parent category, or in diffusing subcategories.

category contains

- human
  - sex or gender female
  - occupation writer
  - country of citizenship Germany

▼ 0 references

# WikiLoop CatFacts (Early Stage)

- Uploading category-asserted facts to Wikidata.org is already semi-accepted by the community.
- Current process is not readily accessible/reviewable by the wider editor community.
- Community approach mainly uses bag-of-words which occasionally leads to some [unfortunate results](#).
- Disproportionate impact by small number of users with few quality guarantees. *We can help fix this last part.*



Stephen Punwasi  
@StephenPunwasi

Follow

This is embarrassing.

Google's knowledge graph draws data from various source, so I checked for the change that put Omar Kadh under "Canadian soldier."

Changes from a Russian account a month ago. 🤖

~~TL,DR Andrew Scheer was manipulated by a Russian troll:~~

*Not a troll, just an unfortunate category extraction.*

#cdnpoli @Mikegibbs

Revision	Date	User	Size
en	09:32, 29 January 2019	User:en-3	(24,507 bytes) (+87)
en	01:54, 29 January 2019	User:en-3	(24,442 bytes) (+70)
en	00:11, 24 January 2019	User:en-3	(24,365 bytes) (+77)
en	01:04, 4 December 2018	User:en-3	(23,286 bytes) (+414)
en	02:38, 4 December 2018	User:en-3	(22,866 bytes) (+414)

# WikiLoop Bot

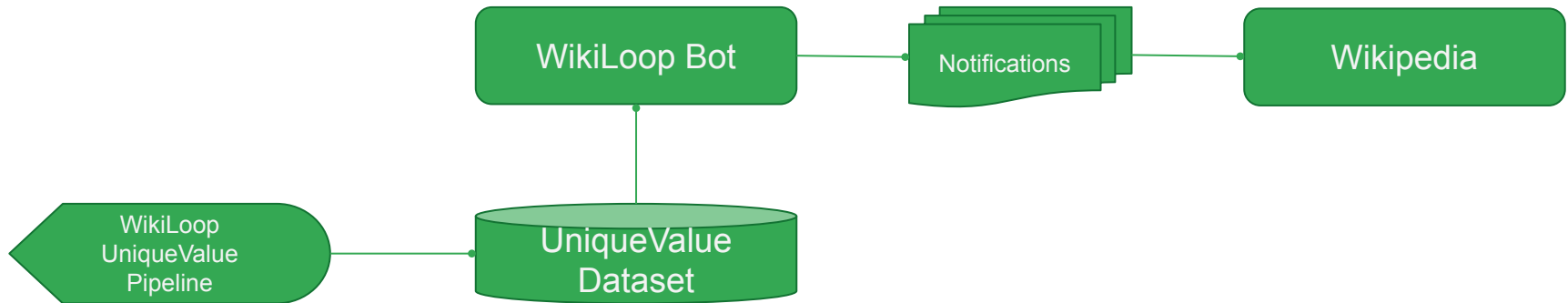
A notification tool to deliver message  
Can be used in other ways in the future, but we mostly focusing using them to deliver notice for editor to consider fixing suspected wrong information



The screenshot shows a Wikipedia user page for 'Utilisateur:Xinbenlv/sandbox/Project Wikiloop/unique value/Discussion:Samuel Gathimba'. The page title is 'Utilisateur:Xinbenlv/sandbox/Project Wikiloop/unique value/Discussion:Samuel Gathimba'. Below the title, there is a section titled 'Anniversaires incohérents' with a sub-header 'Conflicting Birthdays'. The text below the section reads: 'Chers rédacteurs qui s'intéressent à ce sujet, nous avons constaté que les anniversaires de ce sujet dans différentes langues de Wikipedia sont incohérents. Pourriez-vous aider à vérifier?'. Below this text is a table with the following data:

Language	Subject	Birthday
fr	fr:Samuel_Gathimba	1987-10-26
en	en:Samuel_Gathimba	1977-03-05

The table shows that the subject 'Samuel Gathimba' has conflicting birthdays: 1987-10-26 in French and 1977-03-05 in English. The page also includes a sidebar with navigation links and a footer with copyright information.



# WikiLoop Explorer

WikiLoop Datasets Tools Stats

## Missing Date of Death

Dataset epoch: 20190505

Filter:

Rows per page: 5

Wikidata id	Missing Date of Death	Wikipedia reference
<a href="#">10268133</a>	1852-08-07	<a href="#">PT Wikipedia</a>
<a href="#">10282311</a>	1990-03-26	<a href="#">PT Wikipedia</a>
<a href="#">10284660</a>	1965-04-23	
<a href="#">10284975</a>	1861-05-26	
<a href="#">10285223</a>	1984-01-20	

« 1 2 3 4 ... » Total: 263 pages

Home Datasets Tools

## Advanced search

Dataset:

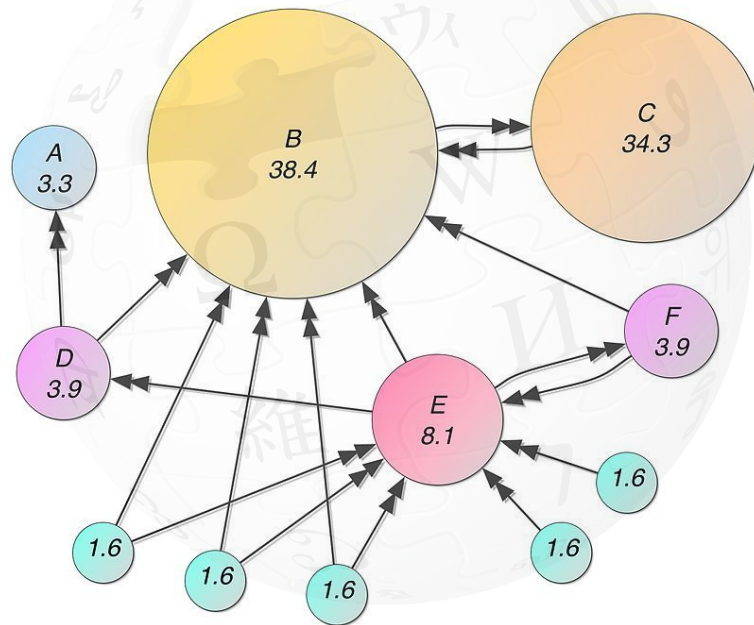
Dataset epoch: 20190727

Item Contains:

Language Includes:

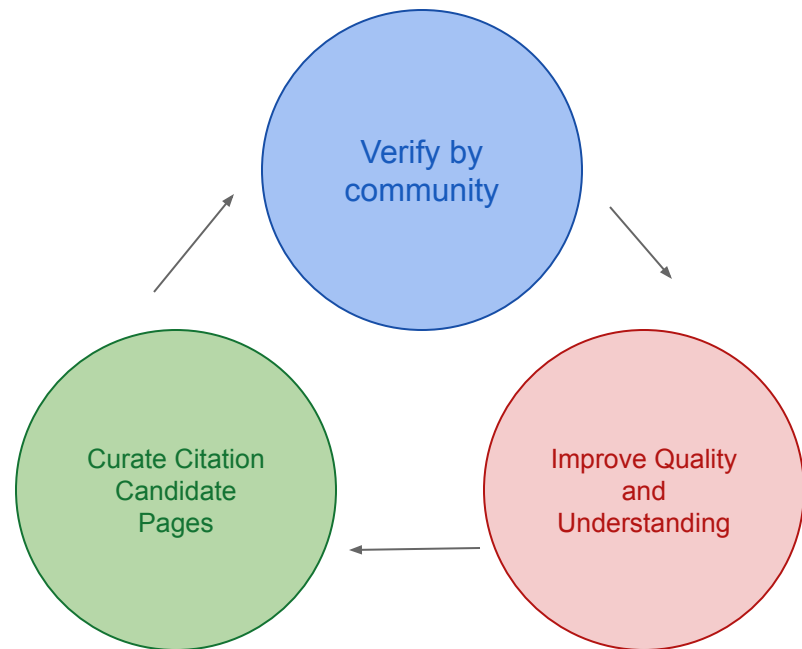
# WikiLoop PageRank

- Provide a live version of PageRank scores of pages **only computed through Wikipedia Links**
- Can be used to assess
  - page quality
  - page importance
  - page relevance
  - source reliability



# WikiLoop CitePool

- Large scale curation of citation candidate link.
- Editor choose good quality and relevant reference link.
- Give us signal of that a page is a good reference or provide certain information.
- Good potential training data for Reconciliations and Fact Extractions



# WikiLoop Babel

- Making i18n name translation easier for smaller language-speaking communities
- Creating training data to bootstrap machine translation, available to public researchers
- Bootstrap machine translations closer to launch





# WikiLoop Portfolio



## WikiLoop Bot

Deliver automatic communication



## WikiLoop Game

WikiData Game for WikiLoop



## WikiLoop Explorer

Browse all WikiLoop dataset portfolio



## WikiLoop Battlefield v1

Web app for fighting vandals together



## WikiLoop CatFacts

From editor-marked categories to facts



## WikiLoop PageRank

Is a source site considered reliable?



## WikiLoop PreCheck

Crowdsource checked batch import



## WikiLoop CitePool

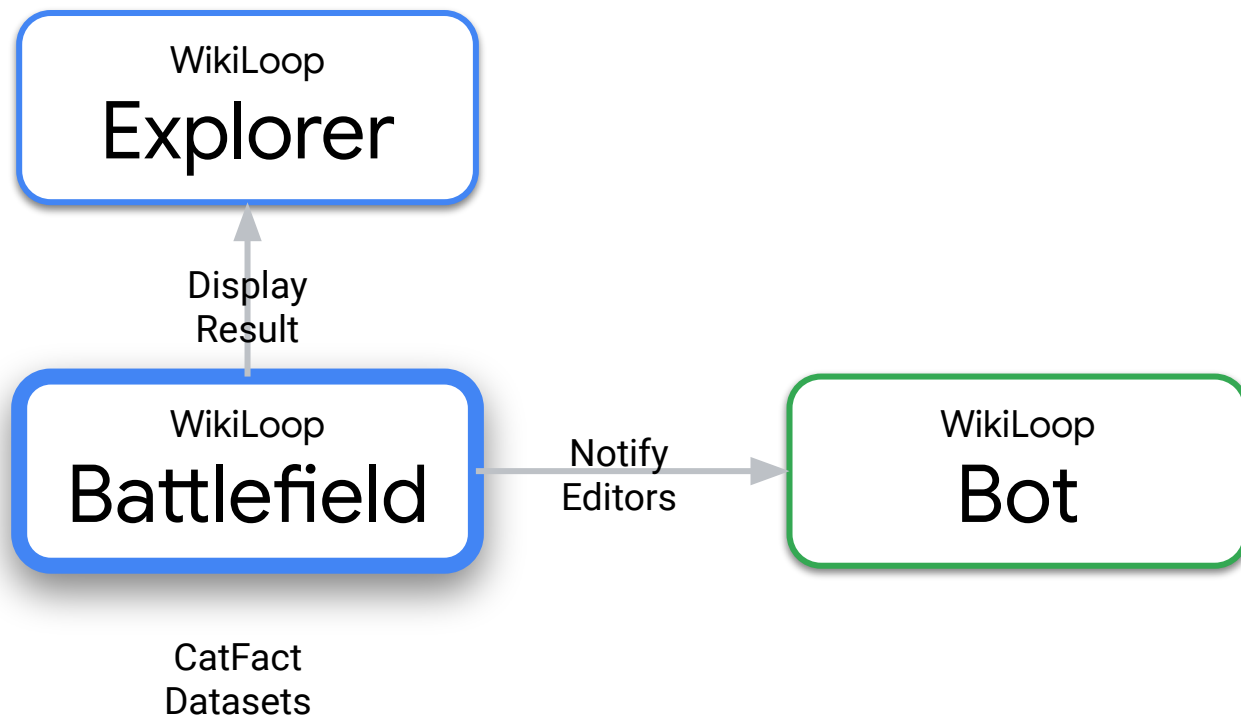
Citation candidate pool from the web



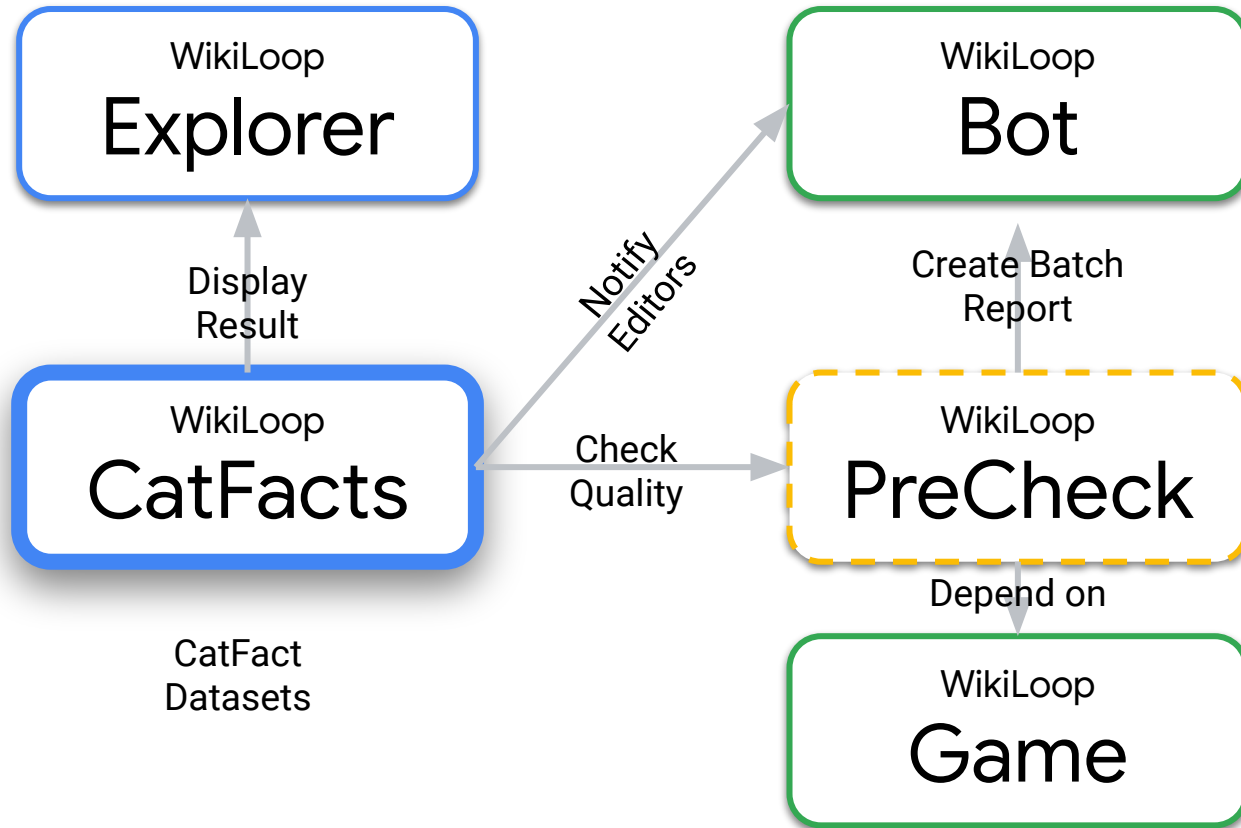
## WikiLoop Babel

Bootstrap smaller language translations

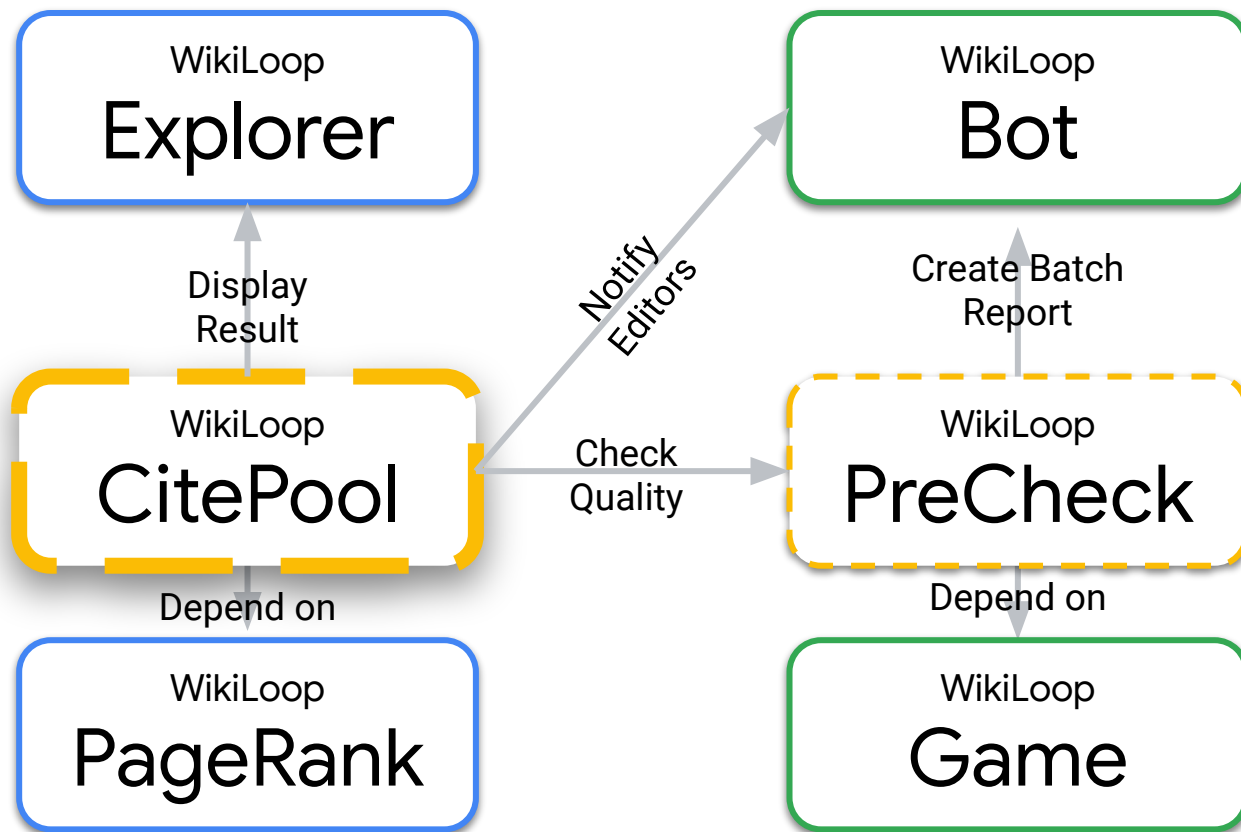
# WikiLoop Portfolio Relationship: Battlefield as example



# WikiLoop Portfolio Relationship: CatFacts as example



# WikiLoop Portfolio Relationship: CitePool as example



# Challenges

# Roadmap



## Ice-Break Phase #0

Small amount of data points  
Q2/2018



## Root Phase #2

Prod-ize & identify  
opportunities  
Q4/18-Q1/19



## Mature Phase #4

Long term sustainability  
Q4/19-Q1/20



## Seed Phase #1

Supply the first batch data  
Q3/2018



## Flourish Phase #3

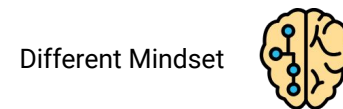
More data and tools  
Q2/19-Q3/19



<https://twitter.com/youyuxi/status/1162198039861354496>

Evan You, creator of VueJS

# Challenges | Chicken-and-Egg of Trust Building



If you (WikiLoop team) want us to approve releasing data and code, how do we know if Wikipedia likes the idea?

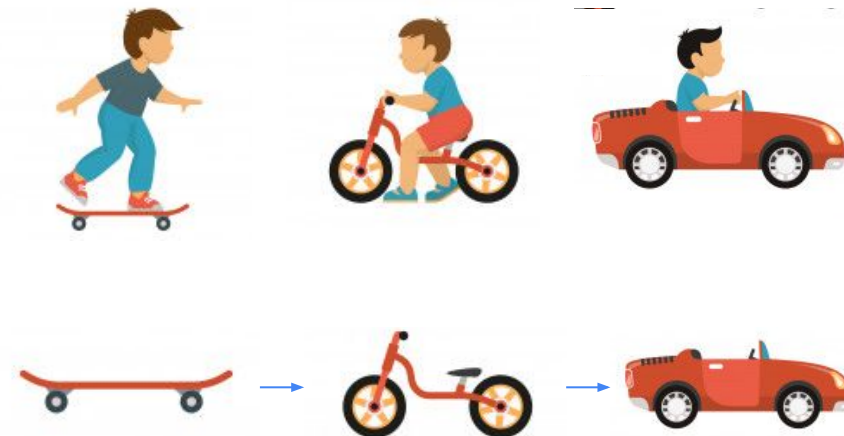
If you (Google) don't show me (Wikipedia) what you have and what you can do, how do we know if it's good for us?



You are a for-profit, how do we know you are not here to influence our Neutrality?



We will make sure we help in a way that Wikipedia wants.



Build small tools and datasets in the beginning and bootstrap the trust



# Value Proposition

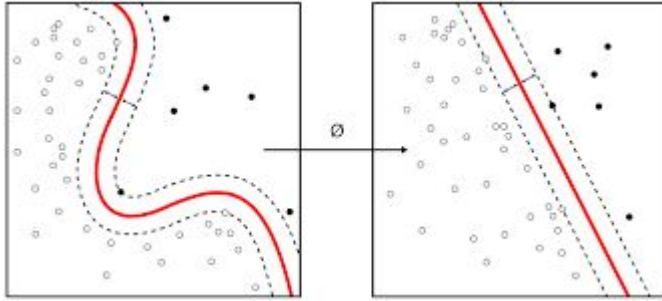
# Value Proposition

Project WikiLoop aim at providing data improvements (quality, quantity, timeliness) that are **not otherwise possible**, merely through community efforts, or merely through machine/eng.

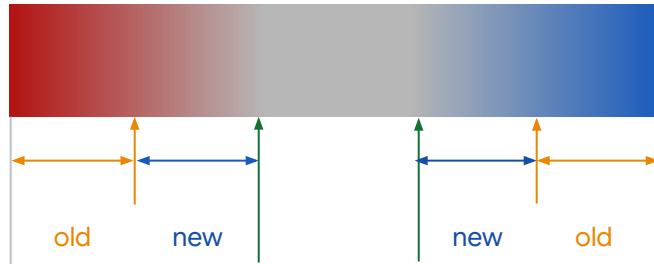
"Data points close to the **decision boundary** will greatly help the models."



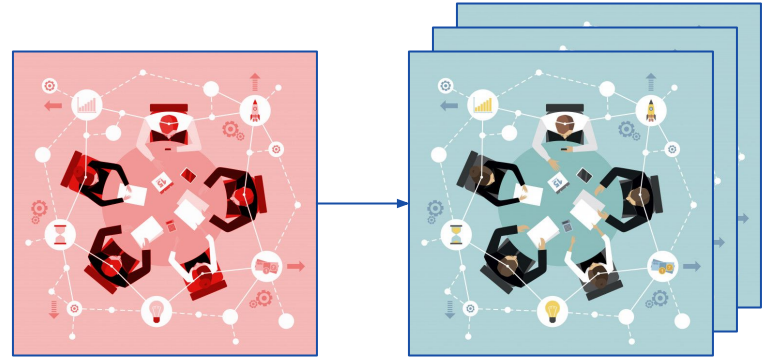
# Opportunities Example



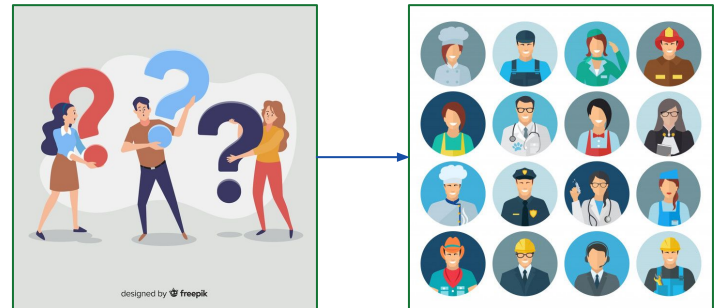
Generating data closer to the decision boundary



Improve range of input data in the greyer area



Crowdsource  
simple -> comprehensive



Editorial expertise with wide range of knowledge topic expertise

How you can get involved

# Ways to get involved

- **Users/Editors:** Use our tools, play our games, give feedback! (on wikiproject talk page)
- **Researchers:** look at our datasets and leverage them in your research
- **Developers:** join the open source code repository, send issues and PRs

[[:m:WikiLoop]]

- [https://meta.wikimedia.org/wiki/WikiProject\\_WikiLoop](https://meta.wikimedia.org/wiki/WikiProject_WikiLoop)
- <http://github.com/google/wikiloop-battlefield> (more to come)

[[[:m:WikiLoop]]]

Thank you, and  
stay tuned!