



Wiki Loves...

...in Numbers

Digging into the story of Wiki Loves photo competitions

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Wikimania 2023

Singapore, 18 August 2023

Overview

- Background: Wiki Loves
- Banners
- Images
- Image views
- Participants
 - New contributors
 - Retention



Wiki Loves ...

Wiki Loves Art

First in the US, then in the Netherlands

2010

Wiki Loves Monuments Europe

18 countries in Europe participating.
Guinness World Record!

2012

Wiki Loves Earth Ukraine

Wiki Loves Earth first spinoff

2014

2009

Wiki Loves Monuments NL

September: First edition in the Netherlands

2011

WLM world wide

2013

More spinning off

Wiki Loves Earth expands worldwide
Wiki Loves Africa first edition

Big Picture

2009: Wiki Loves Art

2010: Wiki Loves Monuments NL

2011: WLM Europe, increasing from there

2013: Wiki Loves Earth. First Ukraine, quickly a complementary success!

2014: Wiki Loves Africa: continent wide, differen themes each time

The name is used much more widely. We focus here on these three competitions for simlicity because they have so much in common.

Countries



WIKI **loves**
monuments

2010–2022

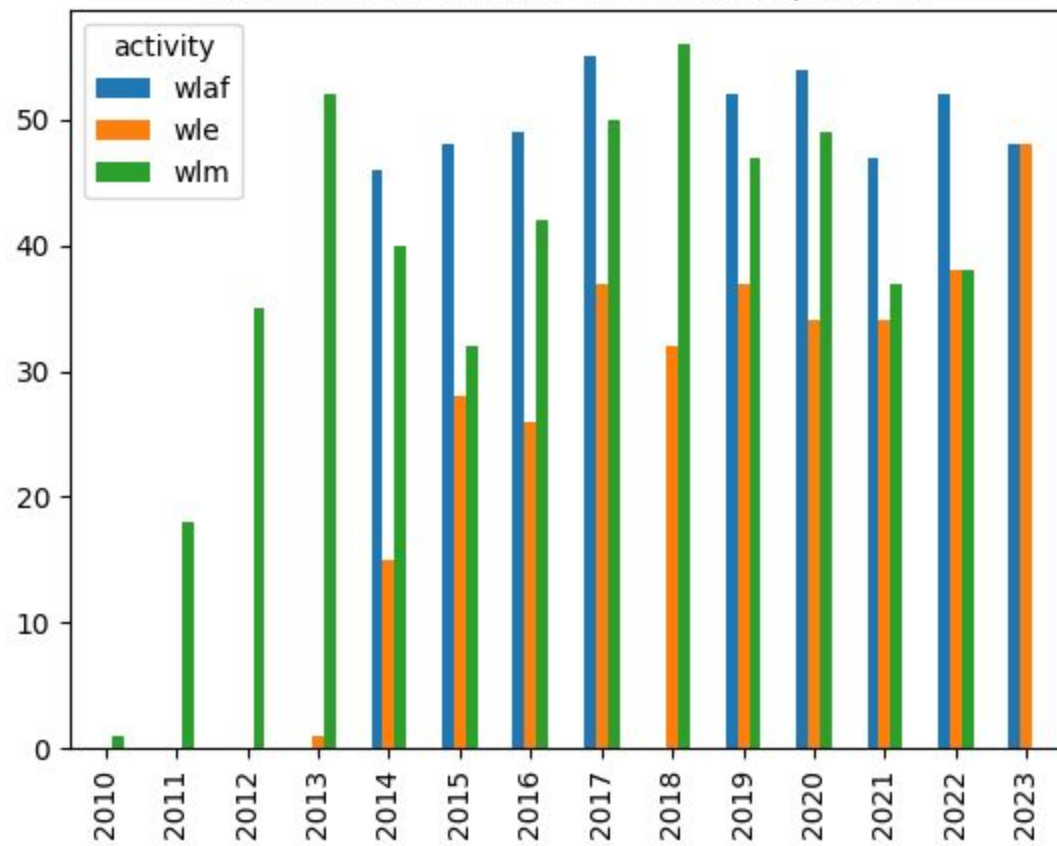
Countries



wiki loves
EARTH

2013–2023

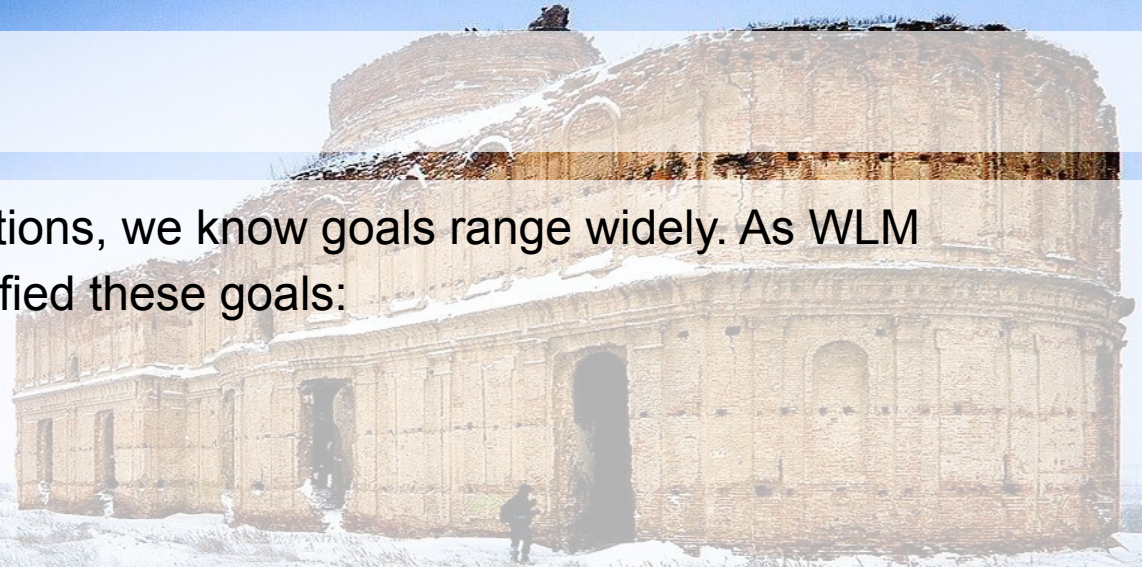
Wiki Loves ... Number of Countries per Year



Goals

From surveys and conversations, we know goals range widely. As WLM international team, we identified these goals:

- Images: quantity
- Images: quality
- New contributors
- Organizational capacity building
- Improvement of heritage data

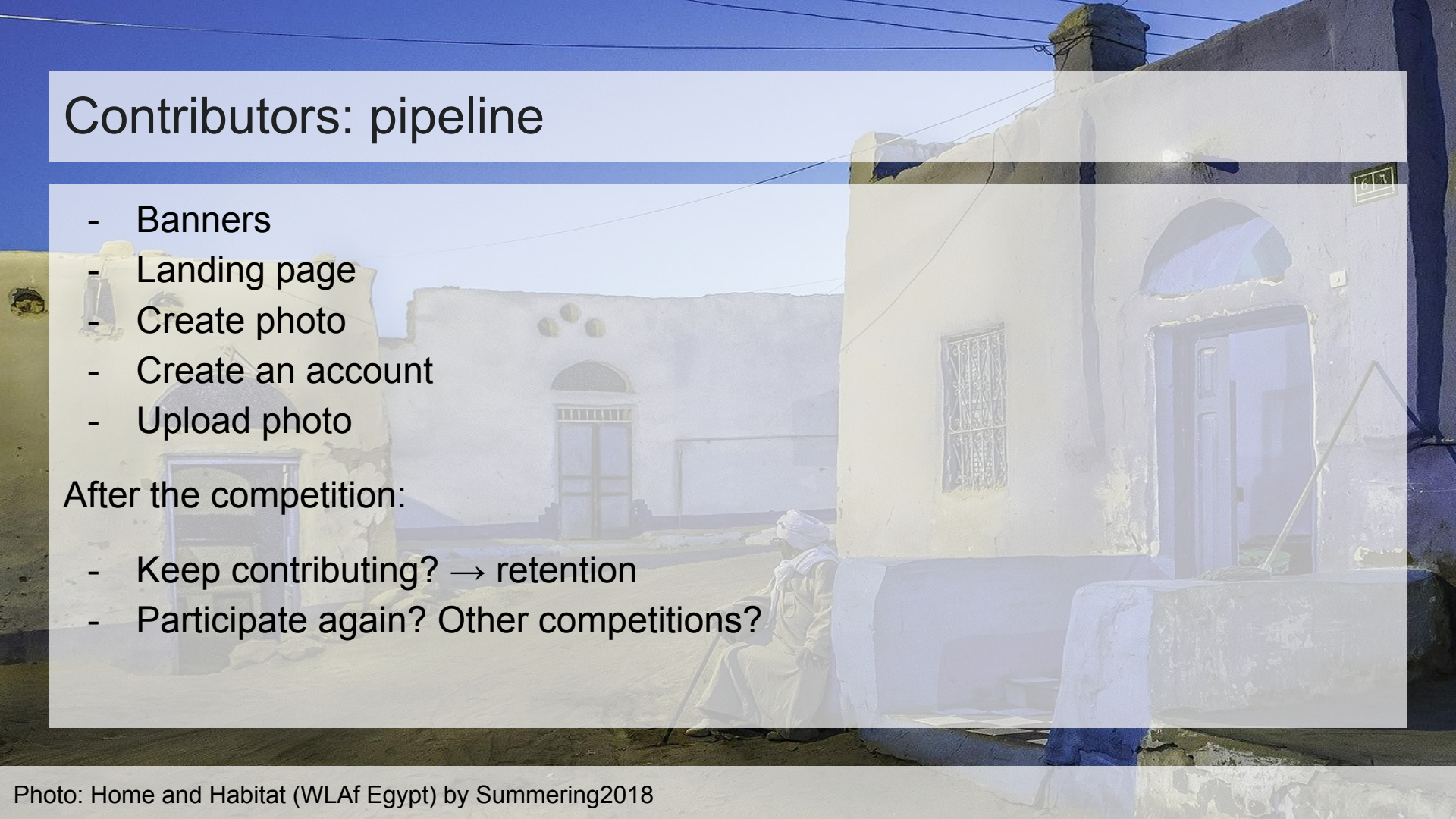


Contributors: pipeline

- Banners
- Landing page
- Create photo
- Create an account
- Upload photo

After the competition:

- Keep contributing? → retention
- Participate again? Other competitions?





Banners



Initial participation: banners

Research project based on data collected for September/October 2021

- Lots of caveats, see meta
- We did learn a few things!

Banner findings

I promised some numbers:

- 0.2 - 0.8% click on the banner
- Less than 1% continues from landing page to upload page
 - Big range between countries! 0.08% - 1.7%

About the pipeline:

- If a reader visits a WLM landing page, they are > 25x more likely to visit account creation page
- If a reader visits a WLM landing page, they are > 100x more likely to visit upload page
- If an account creation page visitor visits also WLM landing page, they are around 10x more likely to visit upload page

Banner findings

How many banners do we need?

- About half the visitors to WLM landing page saw more than 3 WLM banners in the 24h window. 24% had seen 10 or more banners.
- US introduced 'diet' in the middle of campaign: accidental experiment.
 - Significant drop in landing page visitors
 - Still see ~15% visitors that saw 10+ banners.
 - Not a clean experiment → Need properly designed experiment

Banner findings: what did we learn?

- Every step of the pipeline we lose a lot of people
- Landing page design matters - a lot!
- WLM draws in people at higher rates than natural recruitment
- Showing banners multiple times does make a difference.
- Introducing a diet is probably not helpful for recruitment

But what happens with these participants?

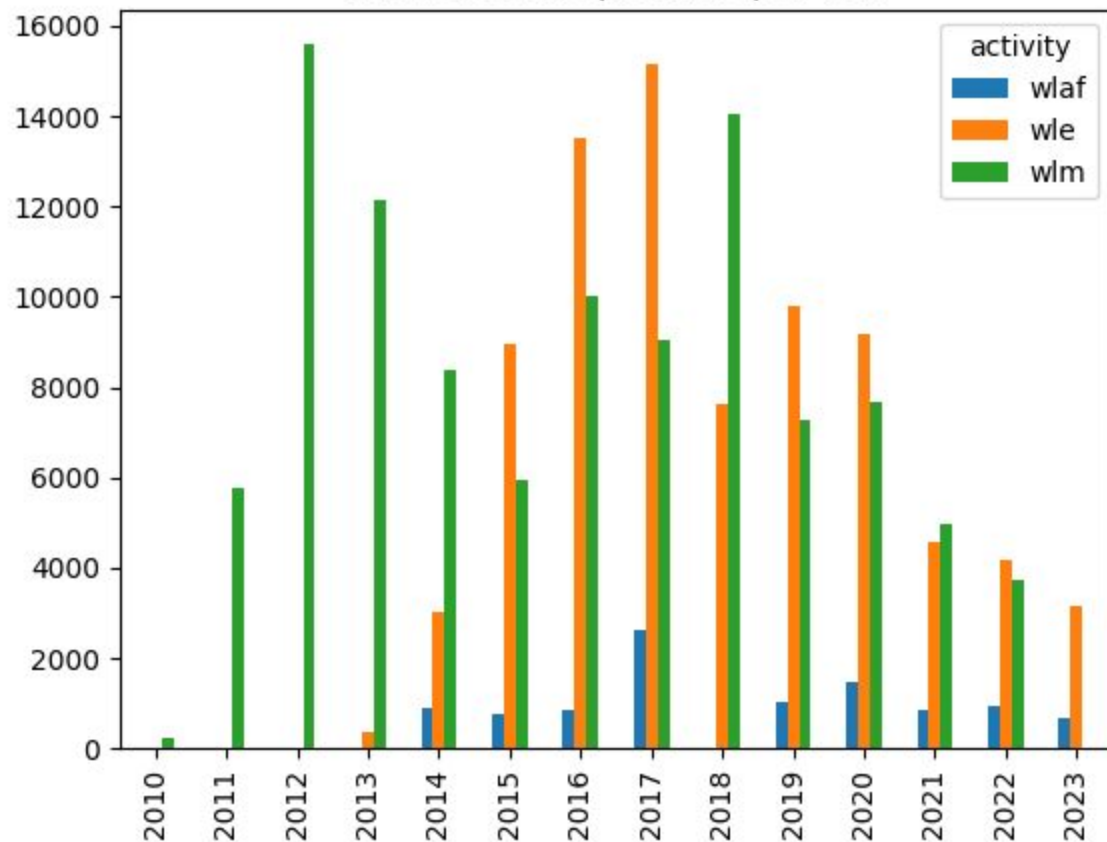


A wide-angle photograph of a coastal landscape at sunset. The foreground is dominated by a large, layered rock formation, likely a sea stack, composed of numerous rounded, light-colored boulders. The rocks are arranged in a somewhat regular pattern, creating a textured surface. In the middle ground, the sea is visible, with a prominent sea stack rising from the water. The sky is a mix of orange, pink, and purple, indicating the time is either sunrise or sunset. The overall scene is serene and dramatic.

Uploaders

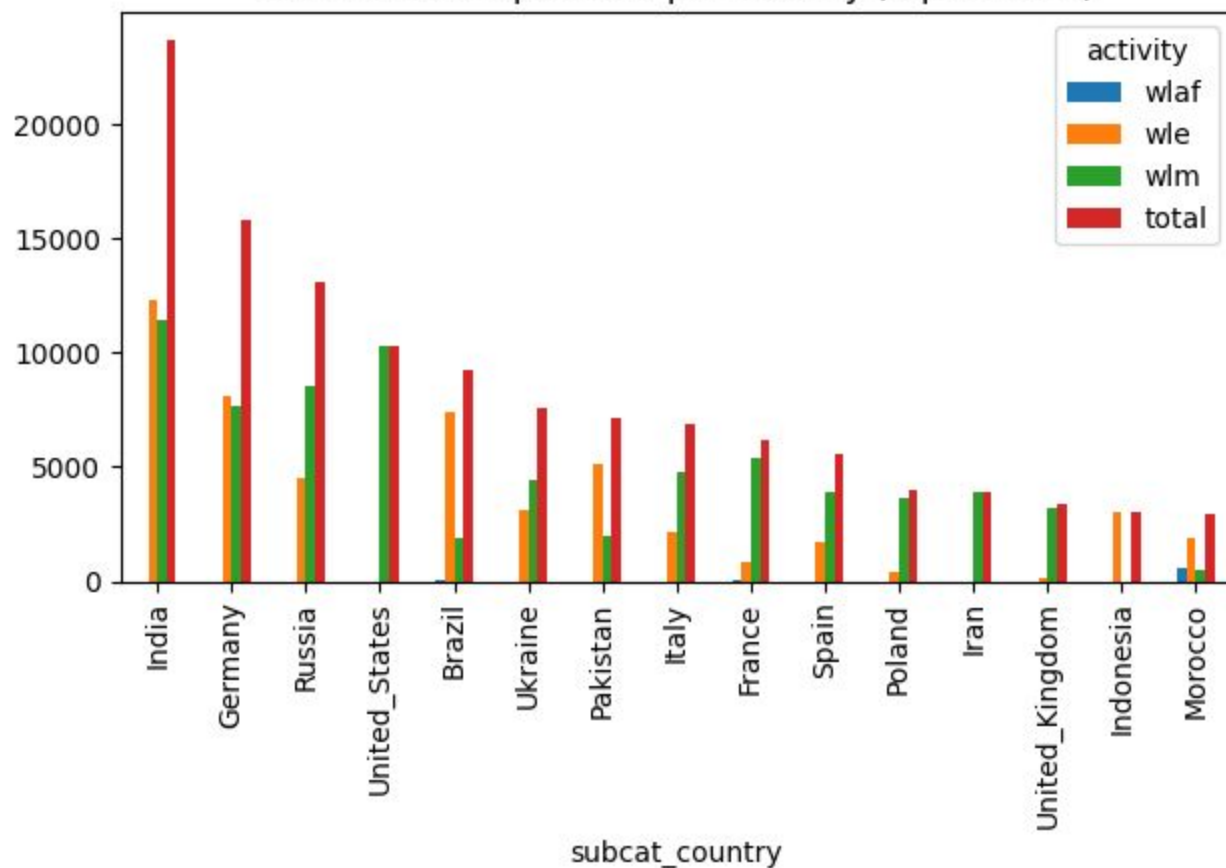
Photo: Cape Stolbchaty (WLE Russia) by Екатерина Васягина

Wiki Loves ... Uploaders per Year

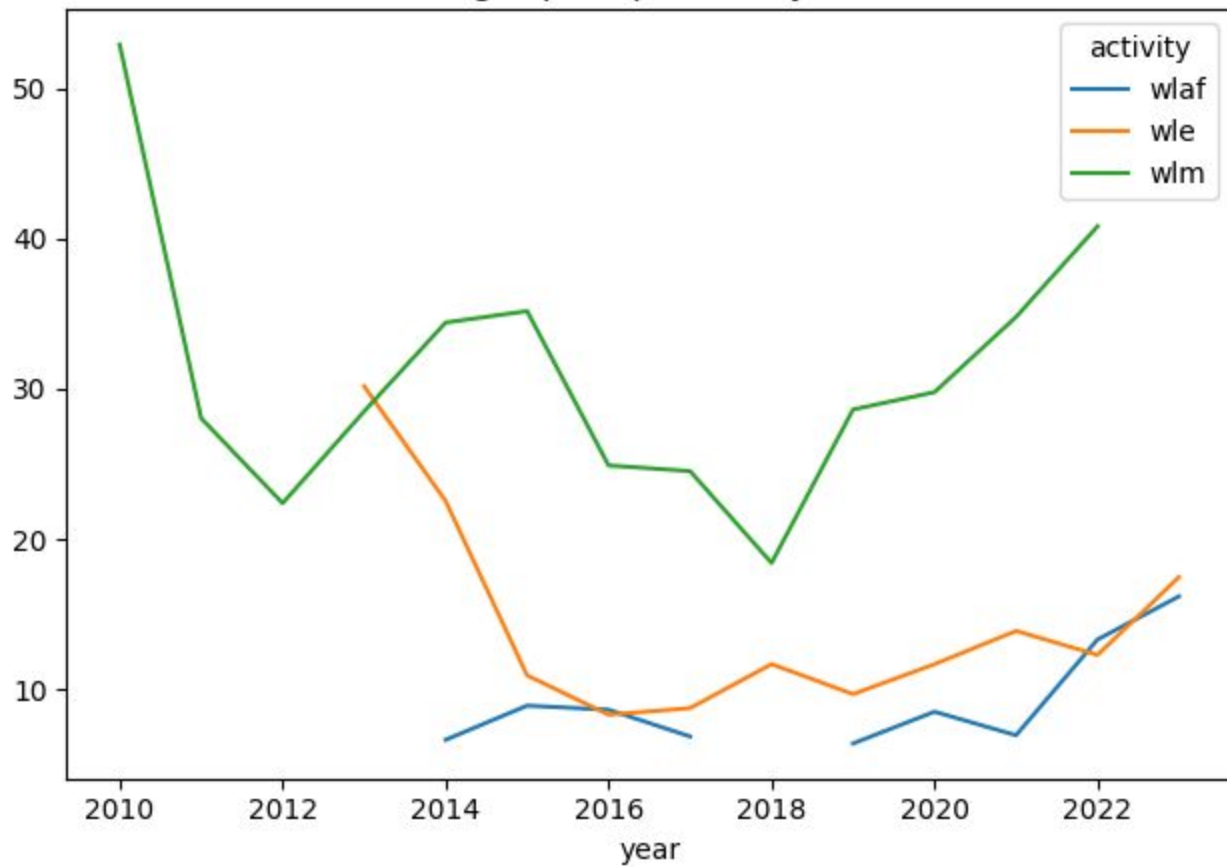


* There is a known bug in the 2019 wlaf data

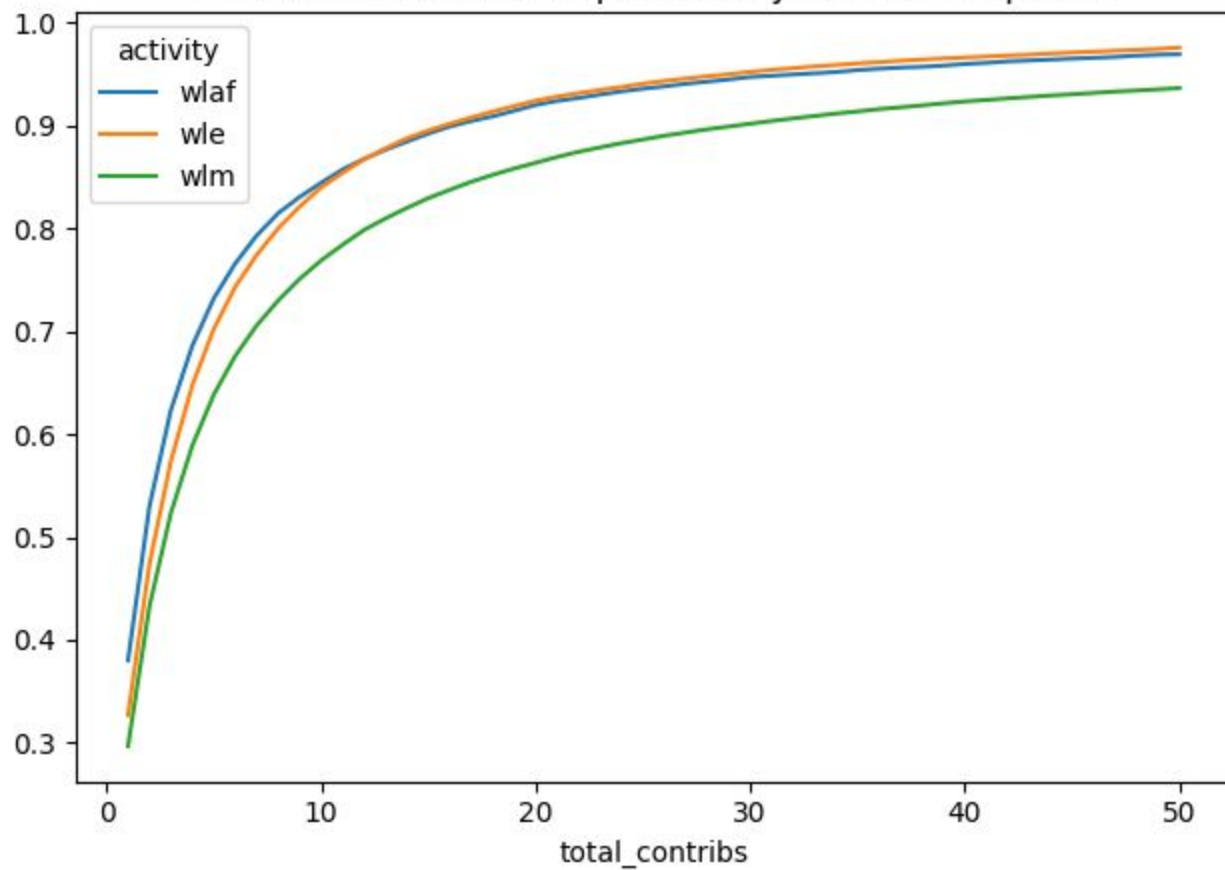
Wiki Loves ... Uploaders per Country (top-15 total)



Images per Uploader by Year



Cumulative fraction of uploaders by number of uploads

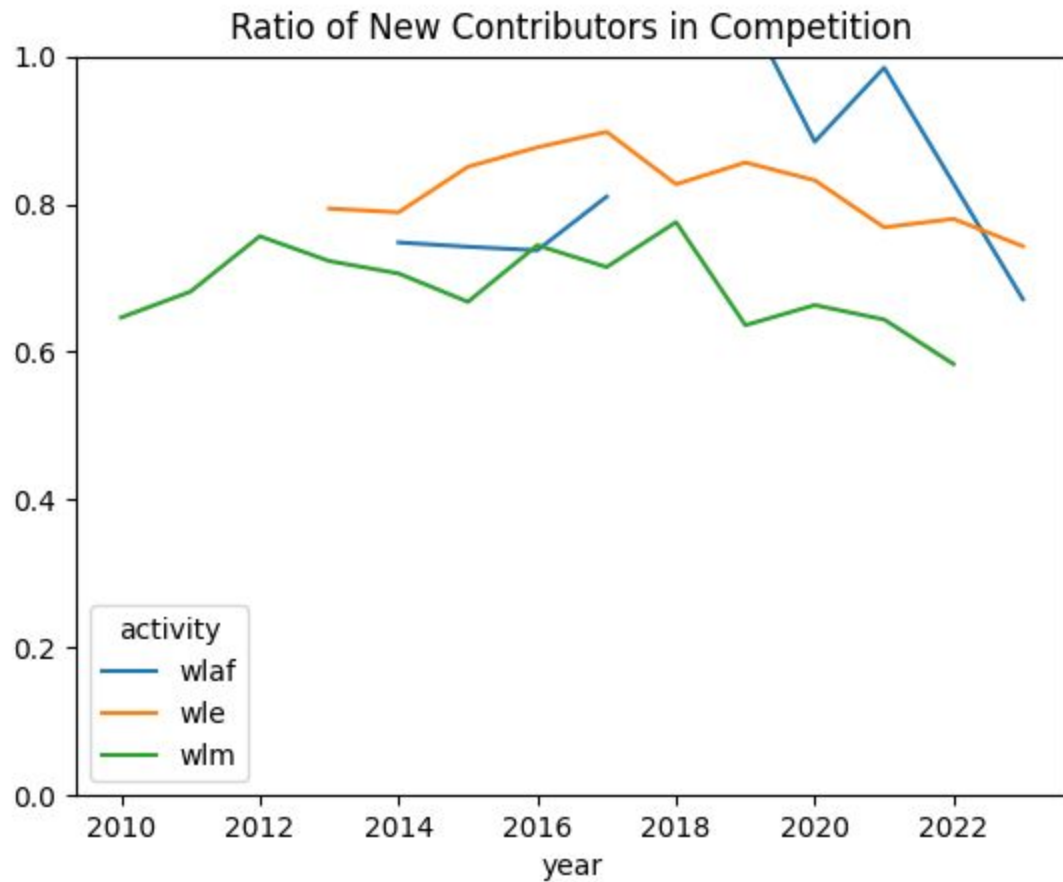


Retention

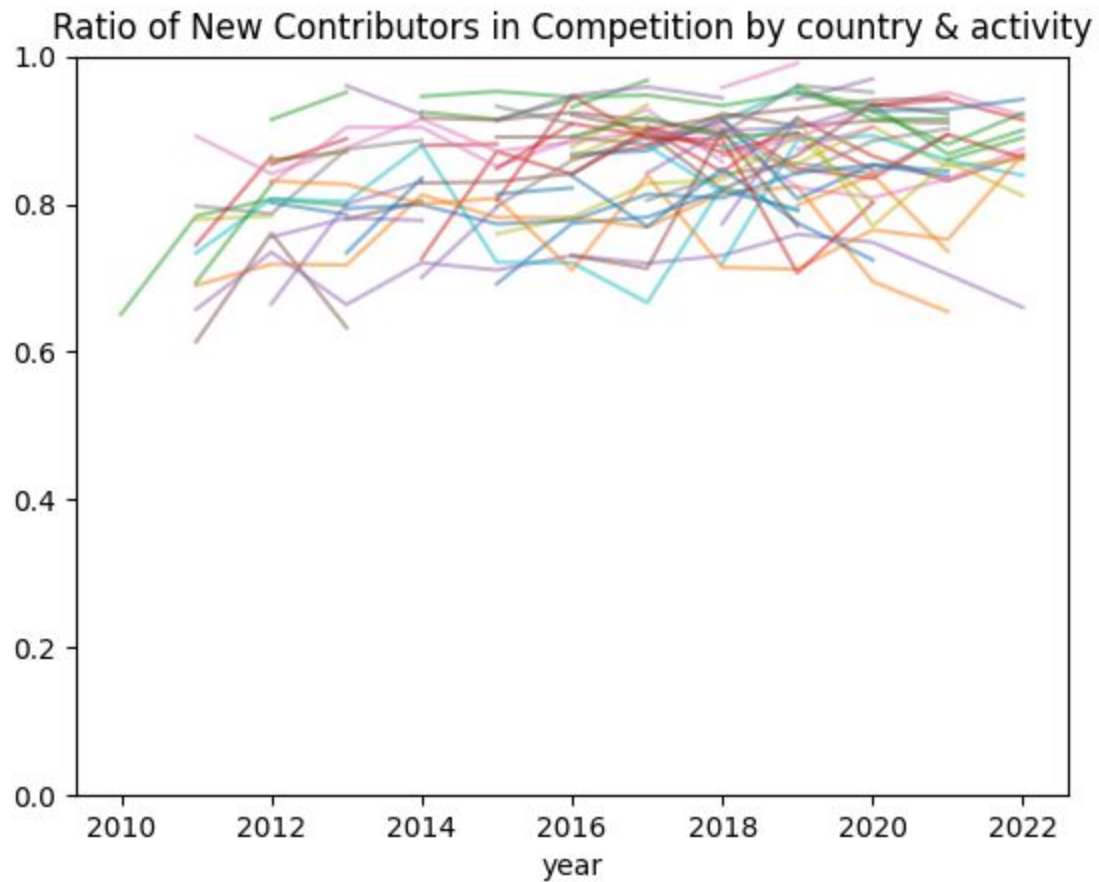
- What do the participants upload?
- How many are new editors?
- Do they stick around? Return?
- What do they do if they return?

I looked at the following data:

- Images in the "Images from Wiki Loves ..." categories
- Collect their uploaders, and find out if their first edit (all wikis) was in the same month. If yes, we call them a 'new editor'.
- This is 'month 0'. How many edits in month 1, 2 etc?



* There is a known bug in the 2019 wlaf data



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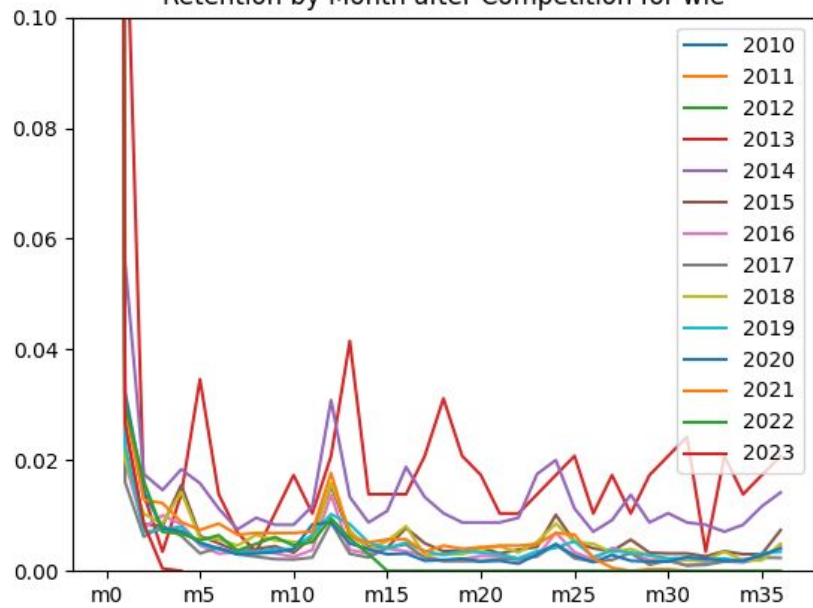
Retention over time

<insert graph of retention rate of 1+ edit: plot over time, per year WLM.>

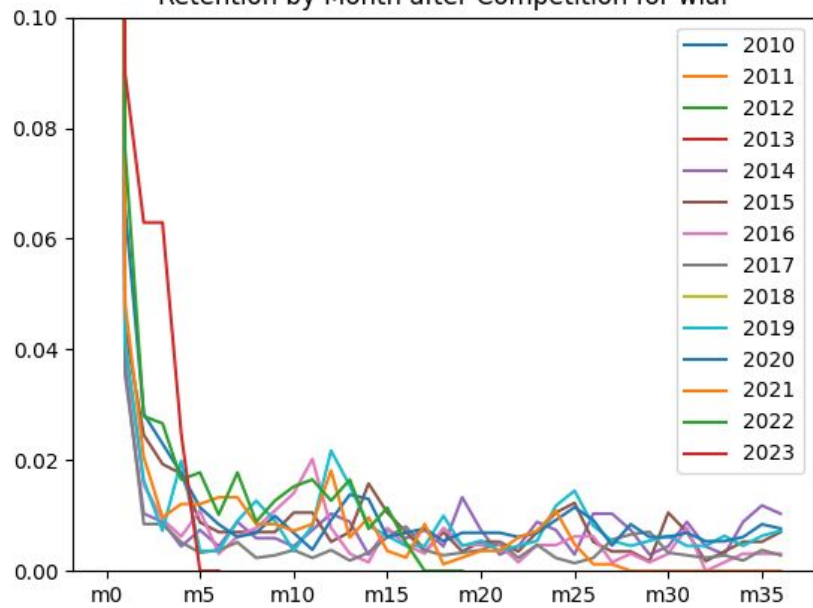
<do the same for WLE, WLAf>

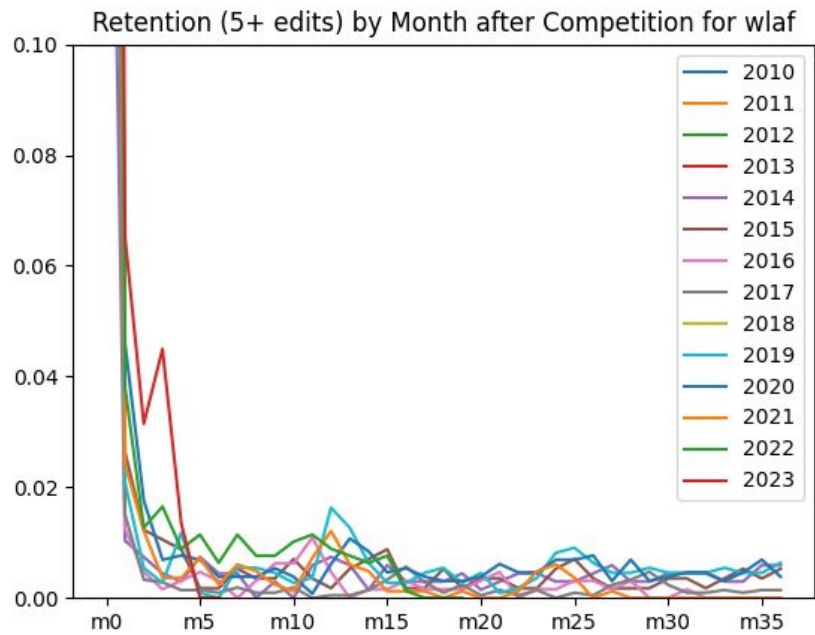
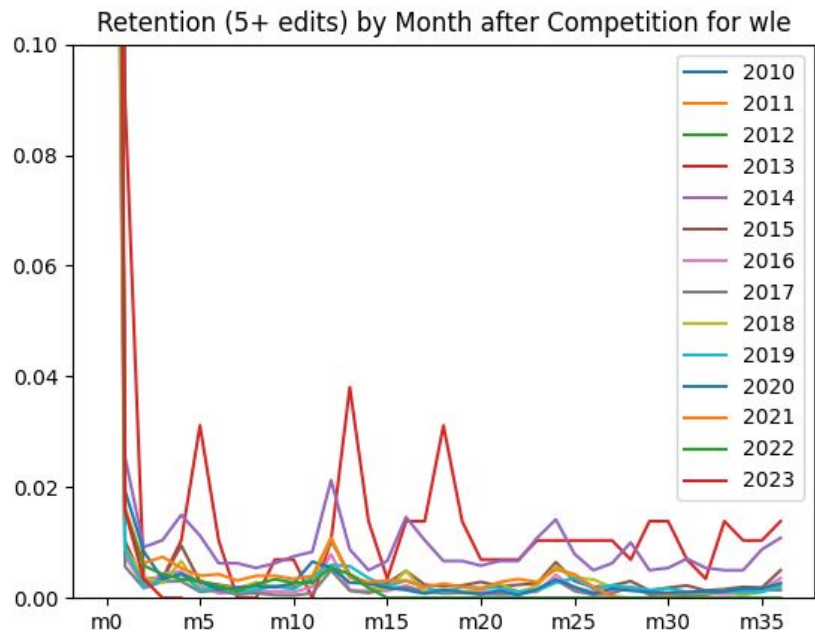
<can we make the same graph for activity/country combinations with sufficient participants?>

Retention by Month after Competition for wle



Retention by Month after Competition for wlaf





Any edits across months

We see higher retentions across multiple months.

Some reactivation!

If they don't return in the first few months, we don't have to give up.

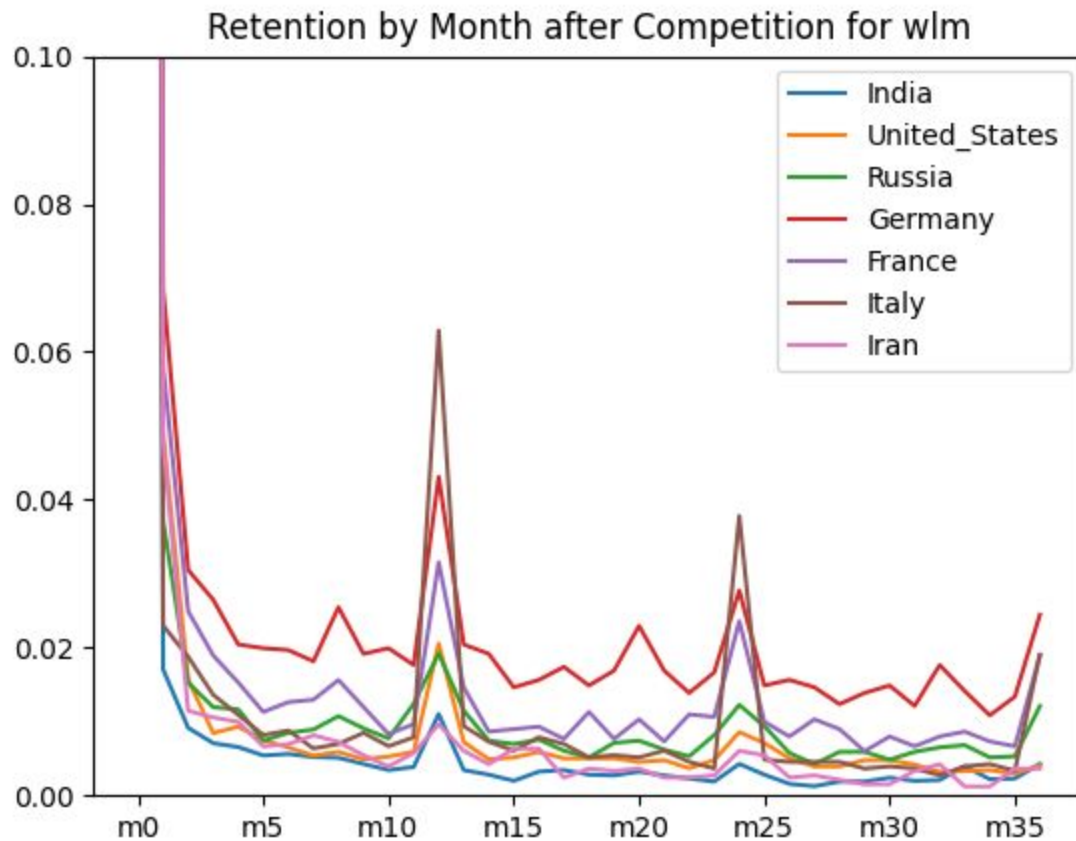
Cumulative contributions retained users:

- WLM: 5.7 M
- WLE: 1.7 M
- WLAf: 138 k

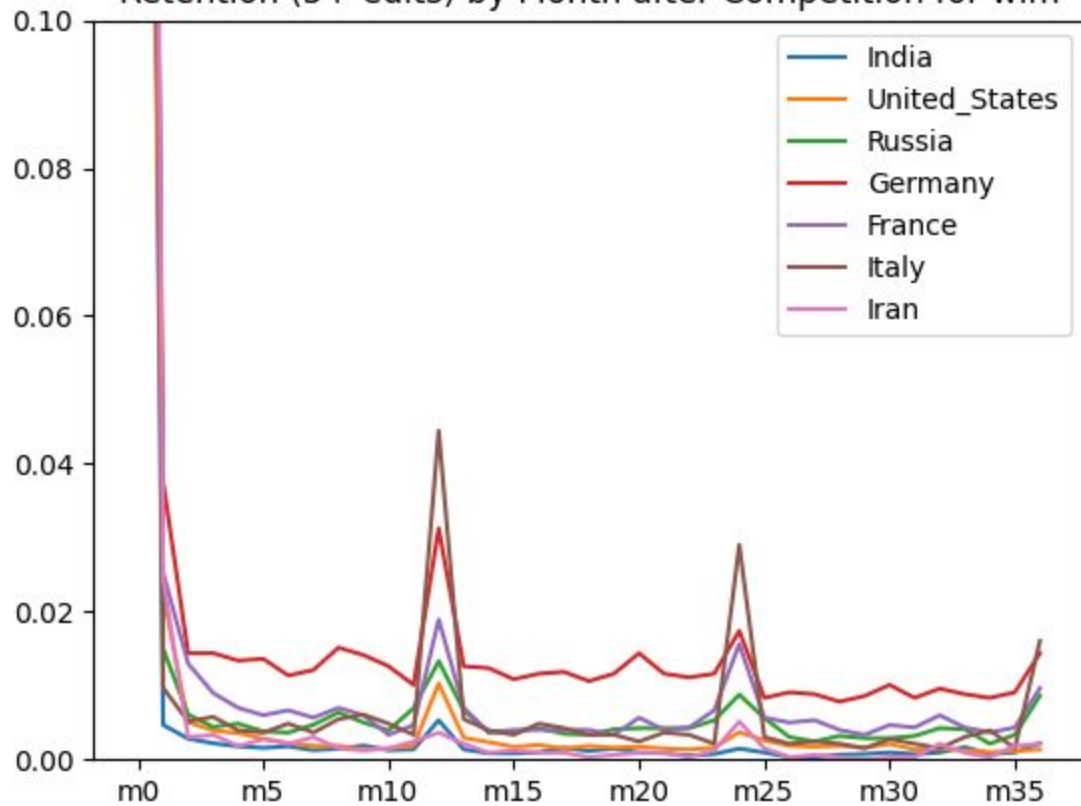
	New editors	m 2-11 retention	m 2+ retention
WLM	74 k	5.4 % (2.5 %)	11.6 % (6.8 %)
WLE	67 k	3.5 % (1.7 %)	6.9 % (3.8 %)
WLAf	8.5 k	6.0 % (3.0 %)	9.7 % (5.4 %)

Showing the countries with most new users

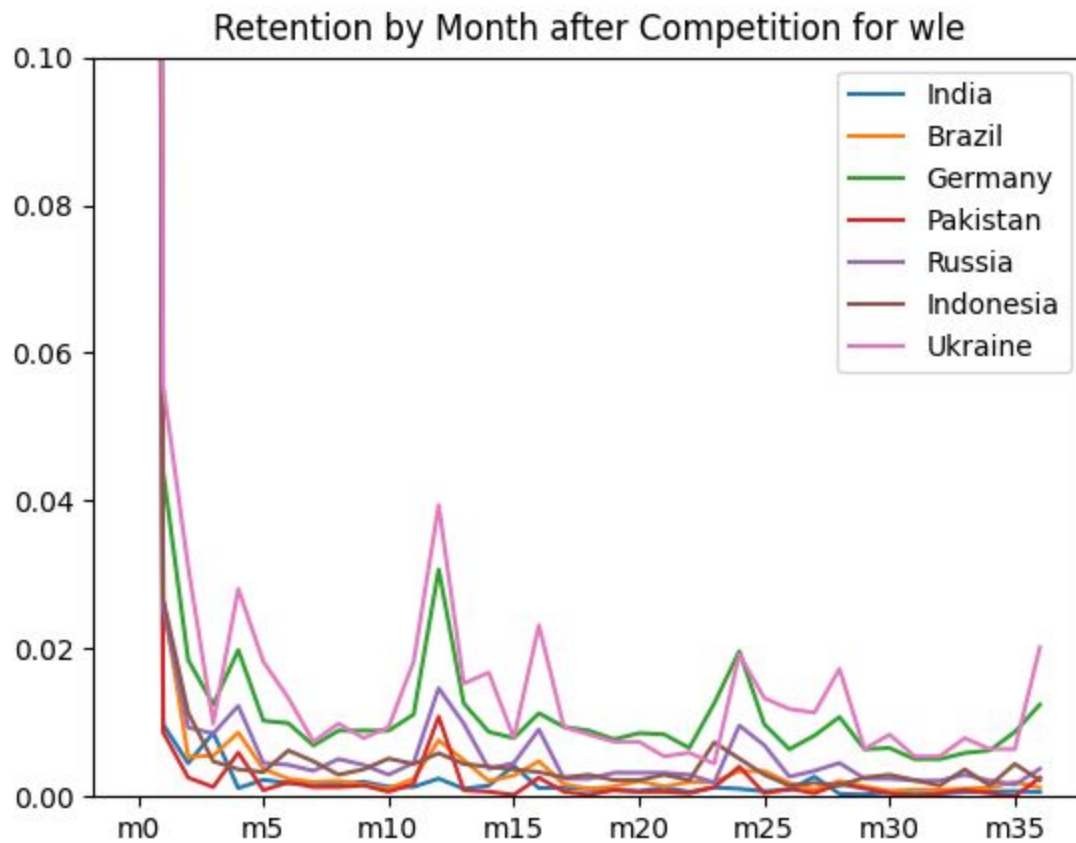
- Big differences between countries
- What's up Germany?



Retention (5+ edits) by Month after Competition for wlm

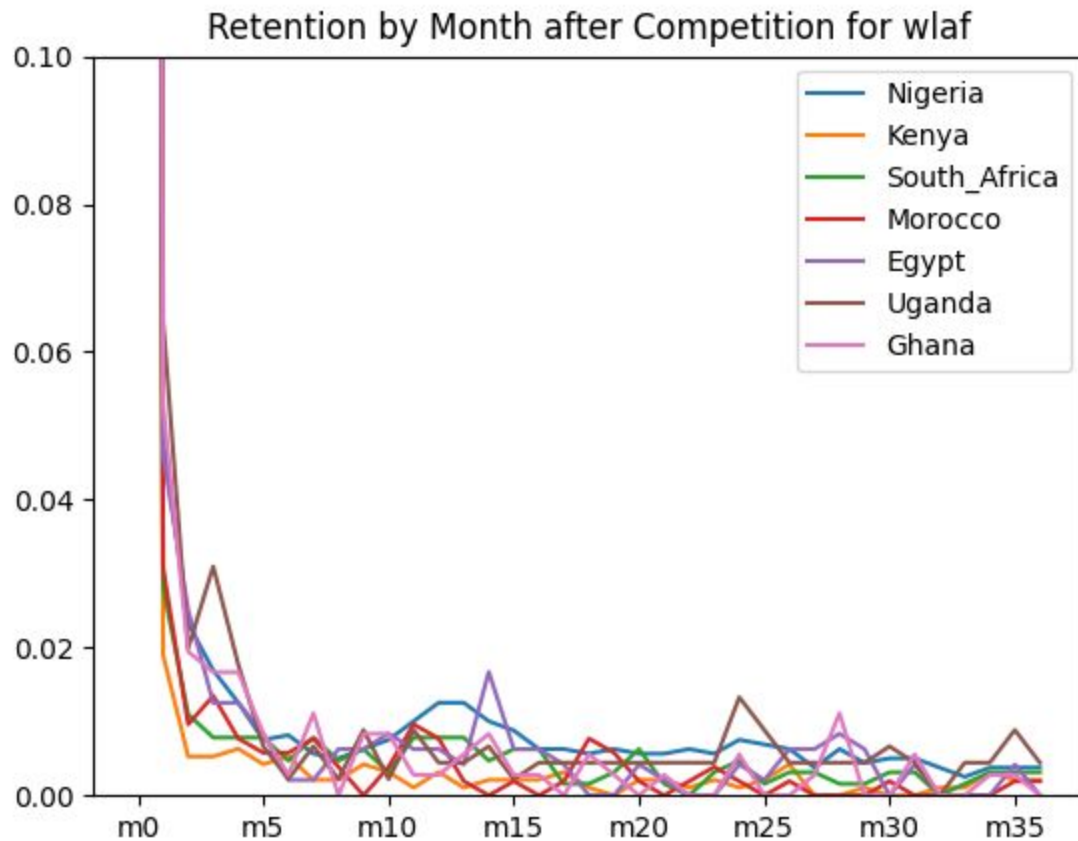


Pattern changes for
WLE

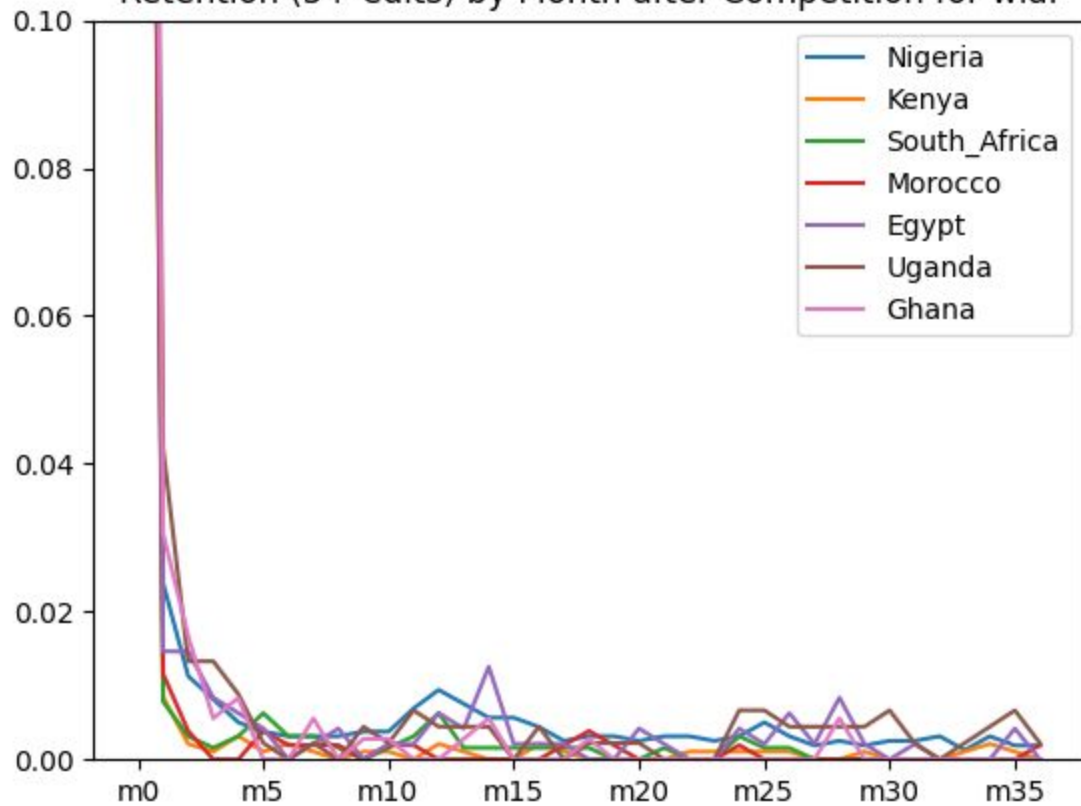


Wiki Loves Africa is more noisy data.

What's happening in Nigeria?



Retention (5+ edits) by Month after Competition for wlaf



Some observations

- For a non-competition month, we see ~ 1% of the new editors make at least 1 edit (WLE: 0.6%, WLAf 1%)
- Across months 2-11 we see 5.4% for WLM, 3.5% for WLE, 6% for WLAf
- Lifetime retention (any edit 2+ months after competition) is 11.6, 6.9 and 9.7%
- There is a retention bump around month 12: returning participants!
- We see a bump when other competitions happen: cross-participation!

Most of the retention happens on Commons (estimated 50-60% off cycle)

There's a few smaller countries who have even higher retention off-cycle than Germany! (cheers to Austria, the Netherlands and Norway!)

Some observations 2

- It is worthwhile considering contributions across all projects
- Big differences between countries: what can we learn?
- Reactivation is a big factor, how can we leverage this?



Future work? So many questions!

- What happened to the images (BaGLAMa)
- Which projects did people end up?
- What activities are successful at re-activating people
- How many users have an active email?
- Can we predict at all who remains active?
- What is a good benchmark?

Thanks to:

- WLM international team, WLx organizers and participants!
- Banner work: Martin Gerlach, Andrew Green
- Retention: Martin Urbanec, Danilo.mac and Bozzy

More pretty images?

https://commons.wikimedia.org/wiki/Commons:Wiki_Loves_Africa

https://commons.wikimedia.org/wiki/Commons:Wiki_Loves_Earth

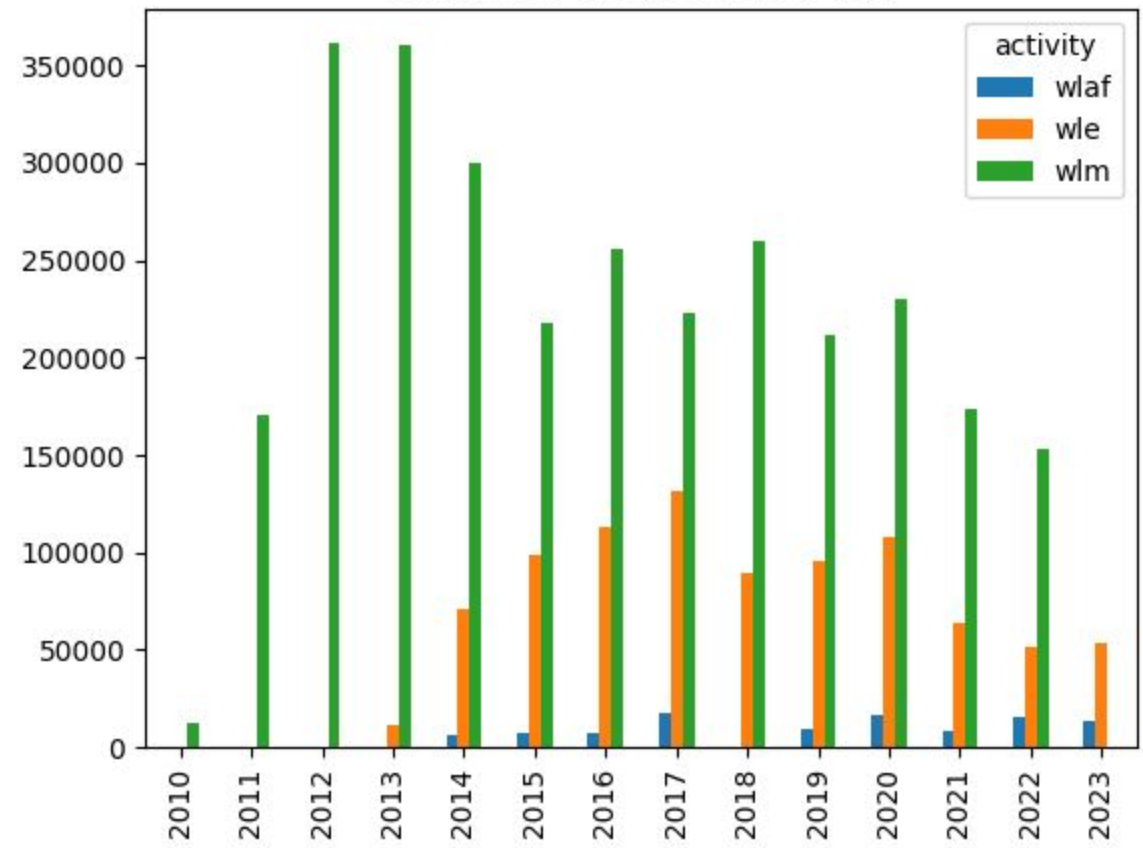
https://commons.wikimedia.org/wiki/Commons:Wiki_Loves_Monuments

More detailed images: <https://public-paws.wmcloud.org/409/output/figs/>

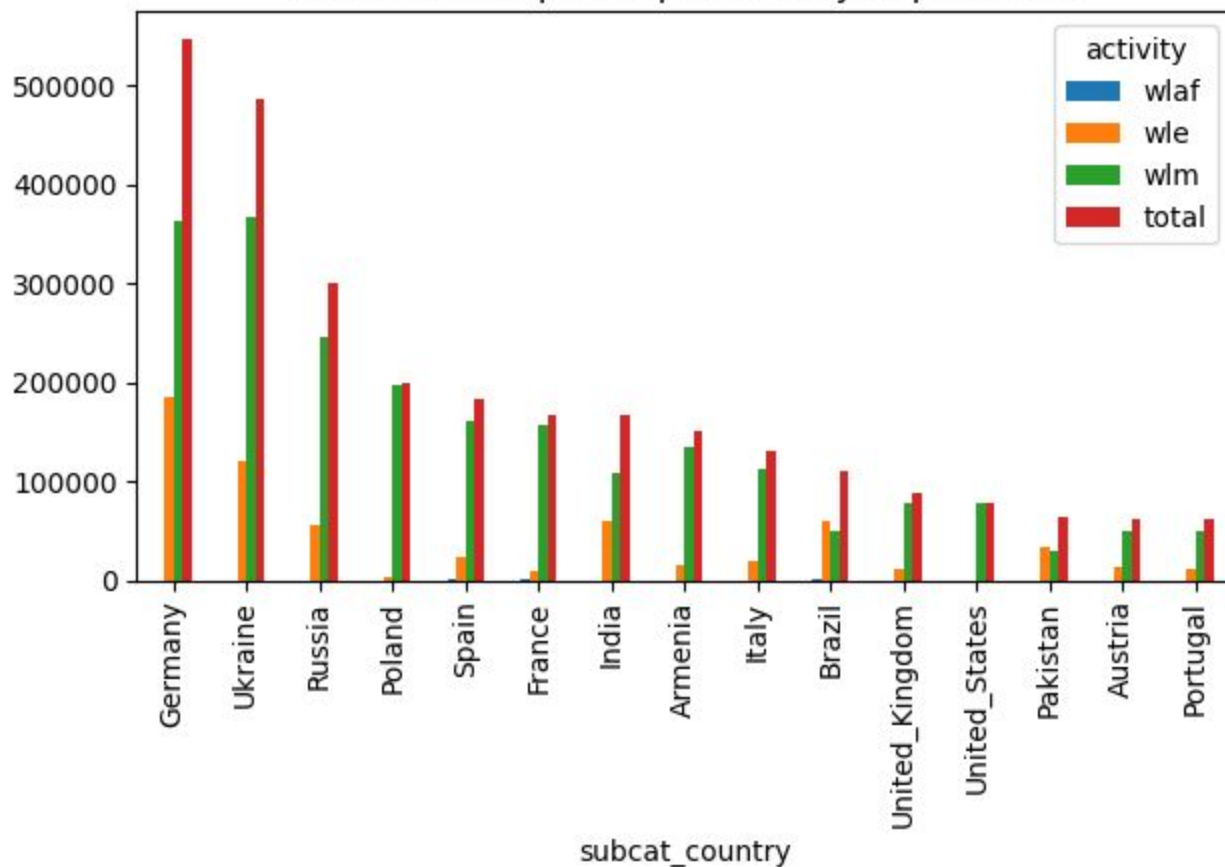
Questions?

Images

Wiki Loves ... Uploads per Year



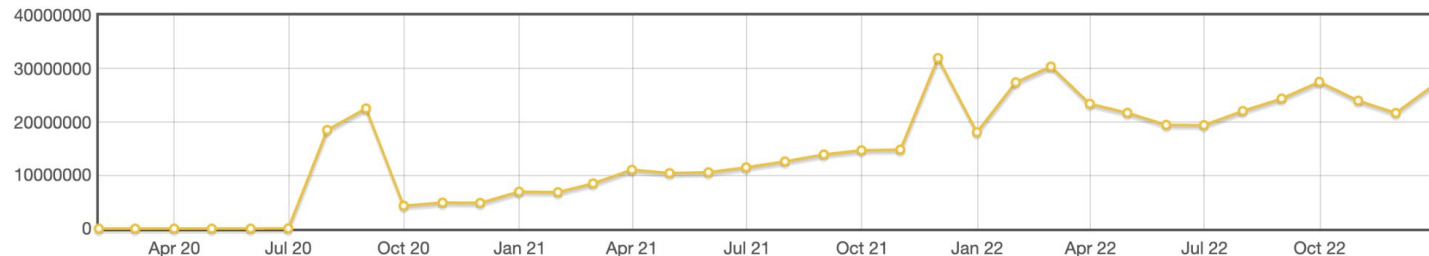
Wiki Loves ... Uploads per Country (top-15 total)



How are the images used?

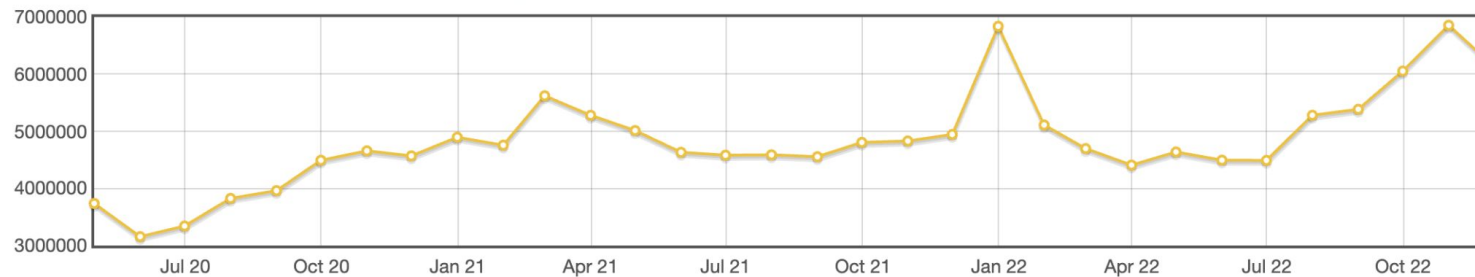
Category details for [Images from Wiki Loves Monuments 2020](#)

36 months have a data point, with 515,731,569 page views in total. Click on individual time points in the graph to see monthly data.



Category details for [Images from Wiki Loves Africa 2020](#)

33 months have a data point, with 160,955,827 page views in total. Click on individual time points in the graph to see monthly data.



How are the images used?

Page views in 2023-01

Total monthly page views: 27,069,048.

[Download this table.](#)

Site		Pages	Views
English Wikipedia	Details	3,571,111	11,895,634
Persian Wikipedia	Details	962	3,992,963
Russian Wikipedia	Details	1,667	3,260,281
French Wikipedia	Details	1,770	1,387,238
German Wikipedia	Details	1,877	1,132,308
Ukrainian Wikipedia	Details	3,250	976,897
Italian Wikipedia	Details	1,095	774,237
Spanish Wikipedia	Details	714	715,081
Arabic Wikipedia	Details	372	510,972

Page views in 2023-01

Total monthly page views: 6,293,521. [Download this table.](#)

Site		Pages	Views
English Wikipedia	Details	724,356	4,966
French Wikipedia	Details	1,257	1,849,685
Spanish Wikipedia	Details	151	194,894
Arabic Wikipedia	Details	138	122,240
German Wikipedia	Details	175	110,048
en.Wikivoyage	Details	81	53,787
Italian Wikipedia	Details	102	48,069
Portuguese Wikipedia	Details	87	27,005
fr.Wiktionary	Details	66	25,175
Japanese Wikipedia	Details	36	22,816
Russian Wikipedia	Details	59	21,741