



Title: Opportunities for New Developers in the Wikipedia Community

With: Vasanth, Gopa

Agenda

- Wikimedia ecosystem
- Technical areas and projects for new developers
- Efforts to onboard new developers

Wikimedia Ecosystem



This might be a bit confusing..



WIKIPEDIA
The Free Encyclopedia



MediaWiki



WIKIMEDIA
FOUNDATION



WIKI



WIKIMEDIA
MOVEMENT

“ Imagine a world in which every single human being can freely share in the sum of all knowledge ”

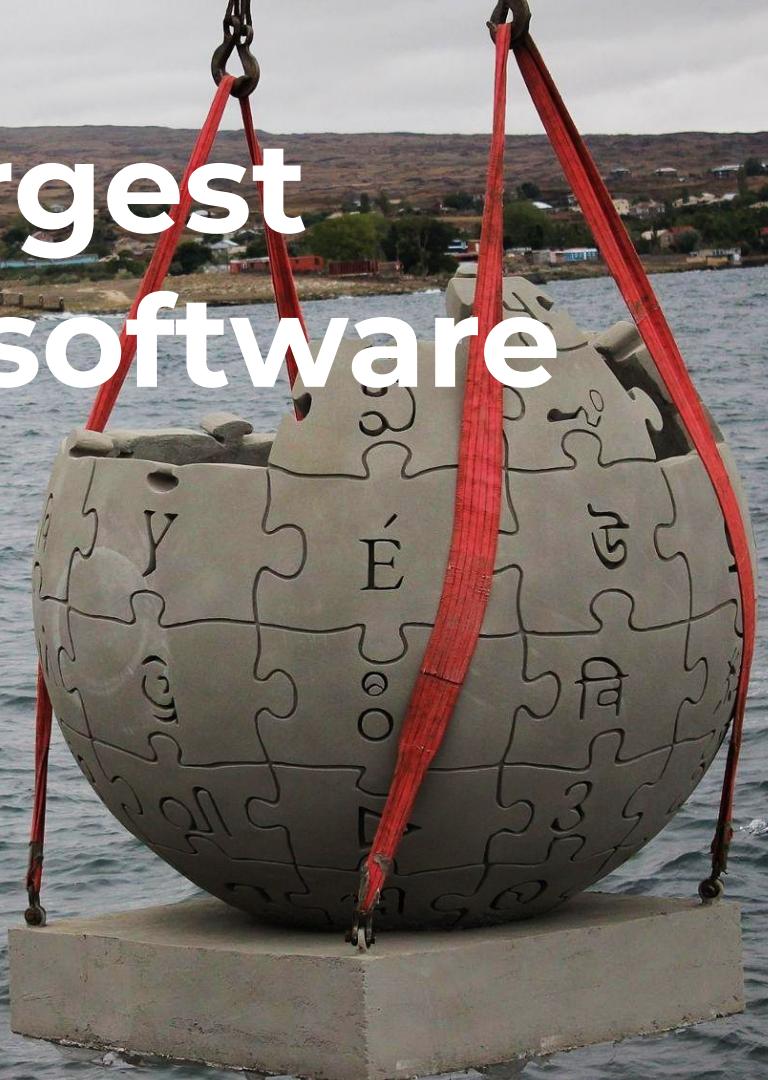


CC by SA 4.0, Jason Krüger

Who makes technical contributions to Wikipedia community?



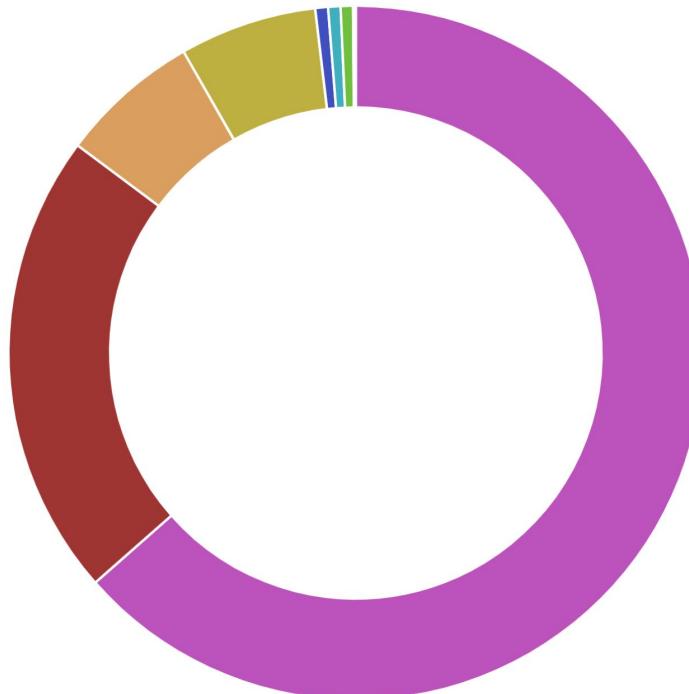
One of the largest
open-source software
projects.



36.5% code contributions from outside of the Wikimedia Foundation

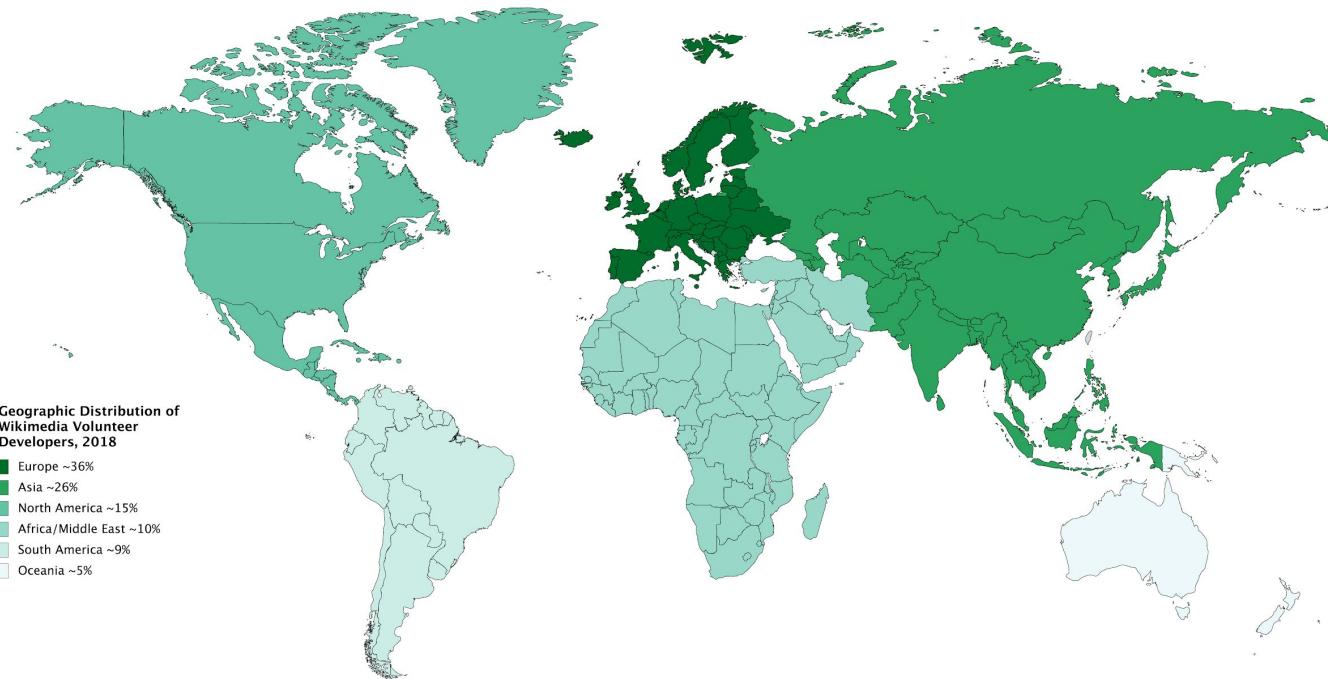
Received by independent volunteers and other organizations (July 21–June 22)

- **588** contributors
- **1,281** repositories
- **51,284** software changes



- Wikimedia Foundation
- Independent
- Wikimedia Deutschland
- Hallo Welt!
- Speed & Function
- WikiWorks
- ThisDot
- Wikimedia Sverige
- Wikia, Inc.

Geographic Distribution of Wikimedia Volunteer Developers (2017-18)



Wikipedia technical community



How to Contribute?



Four-step process

- Pick a task related to a Wikimedia project or technical area
- Set up the development environment
- Choose and solve a task
- Submit your code changes



Step 1

Pick a task related
to a Wikimedia
project or technical
area



CC by SA 2.5, Erik Strandberg

Wikimedia Projects

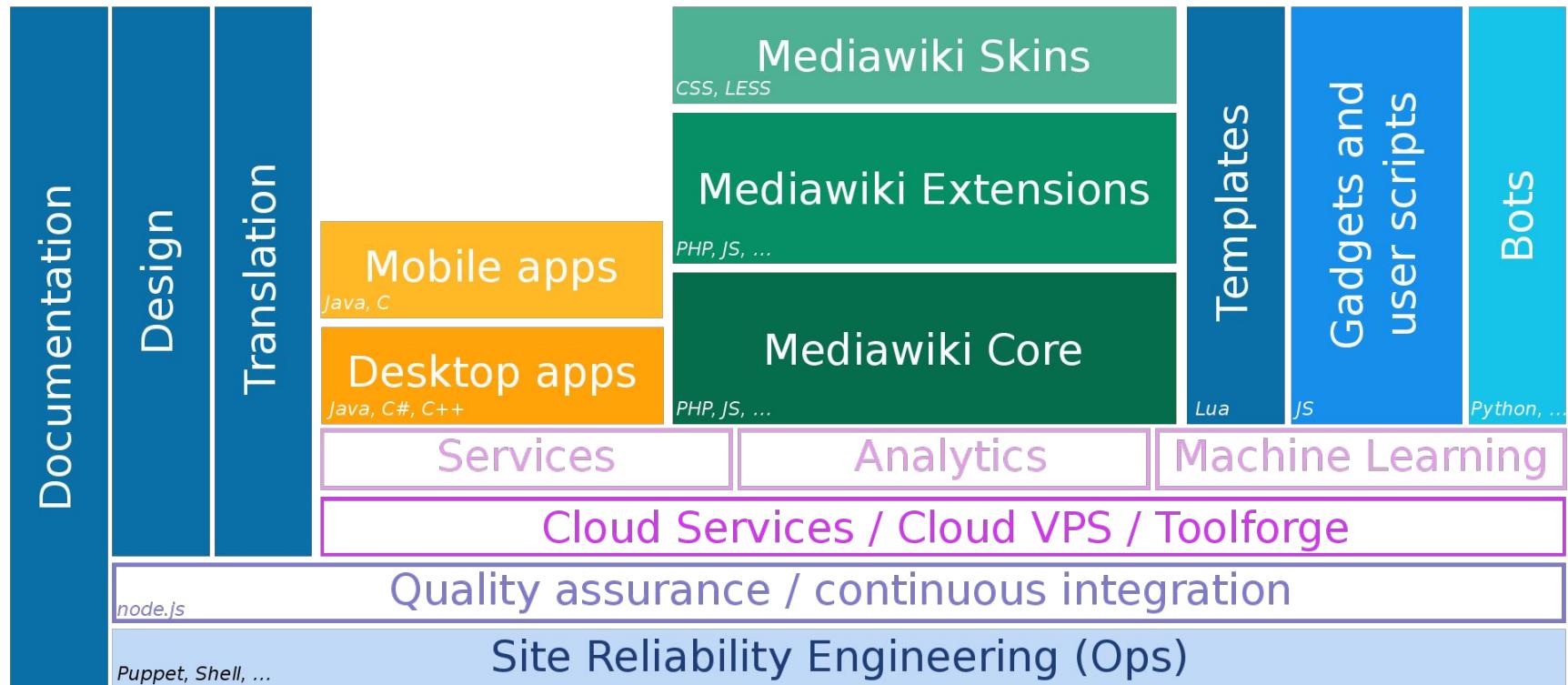


WIKIMEDIA

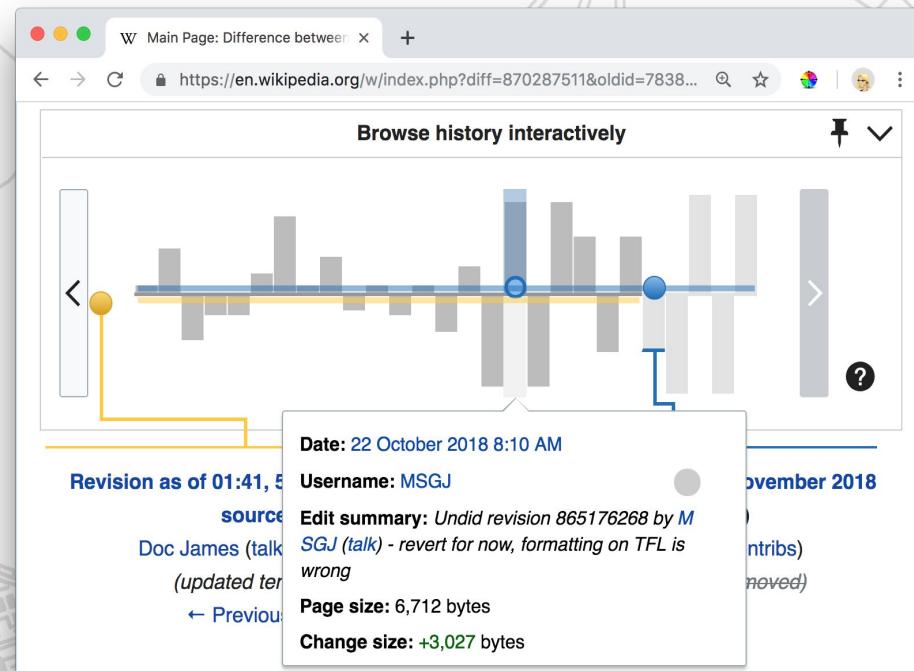


Wiktionary
[ˈwɪkʃənəri] , n
Das freie Wörterbuch
ein Wiki-basiertes
freies Wörterbuch

Technical areas

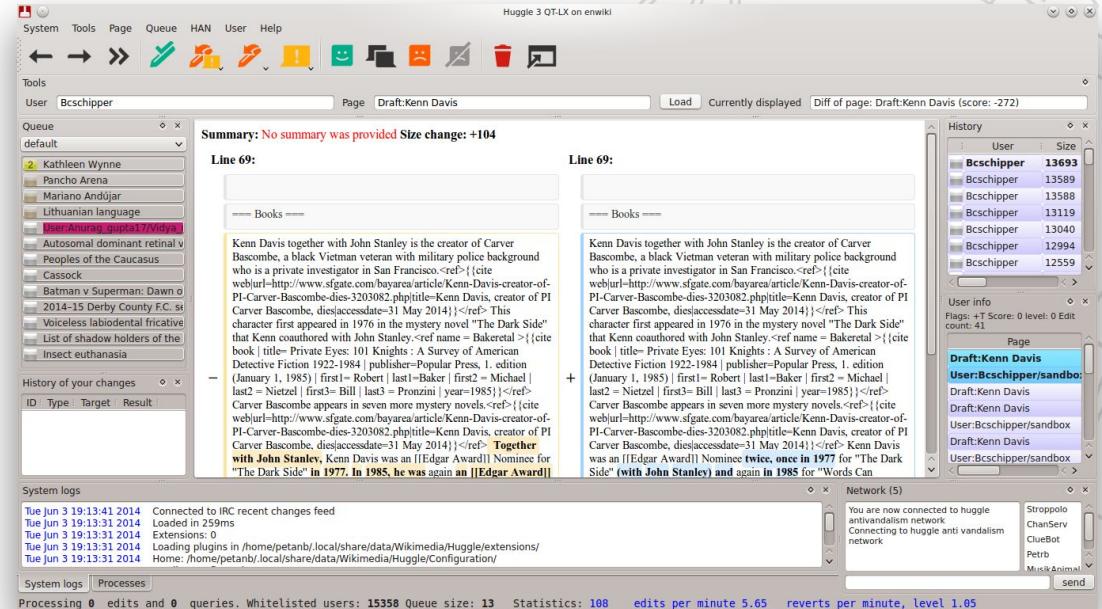


MediaWiki Extensions



Screenshot of an Extension: Revision Slider

Desktop Apps



Screenshot of a Desktop app: Huggle

CC by SA 3.0, Petrb

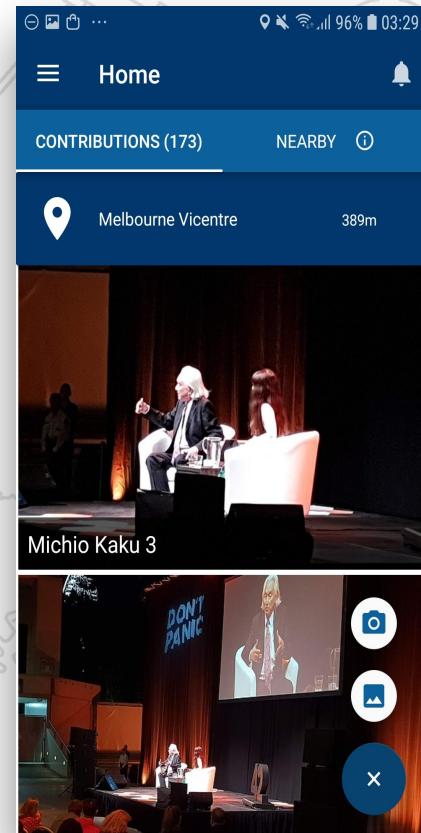
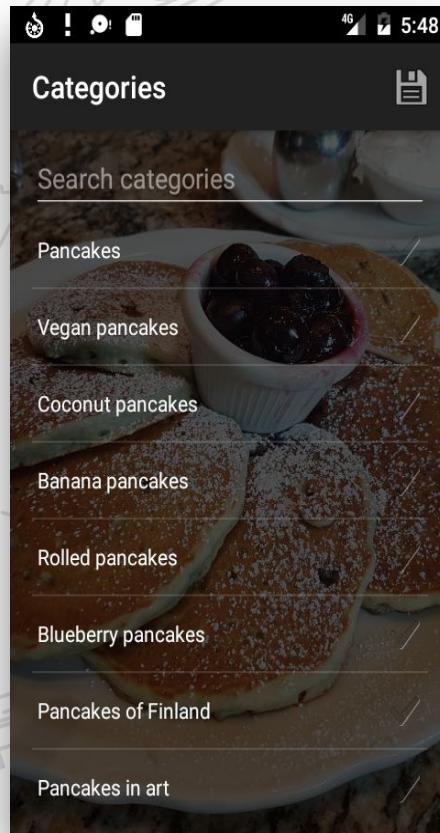
Desktop Apps



**Screenshot of Kiwix running Wikipedia on an
OLPC laptop**

CC by SA 3.0, Victorgrrigas

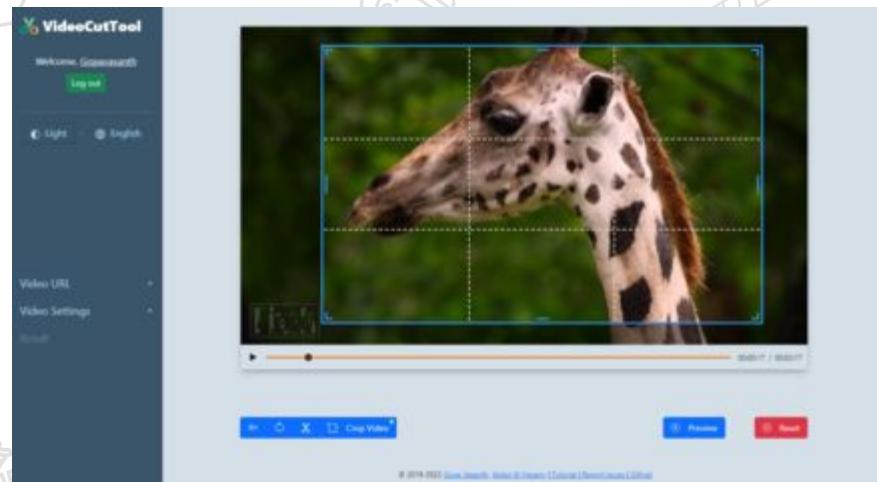
Mobile Apps



Wikimedia Commons app

CC by SA 4.0, Misachan2

Tools & Bots



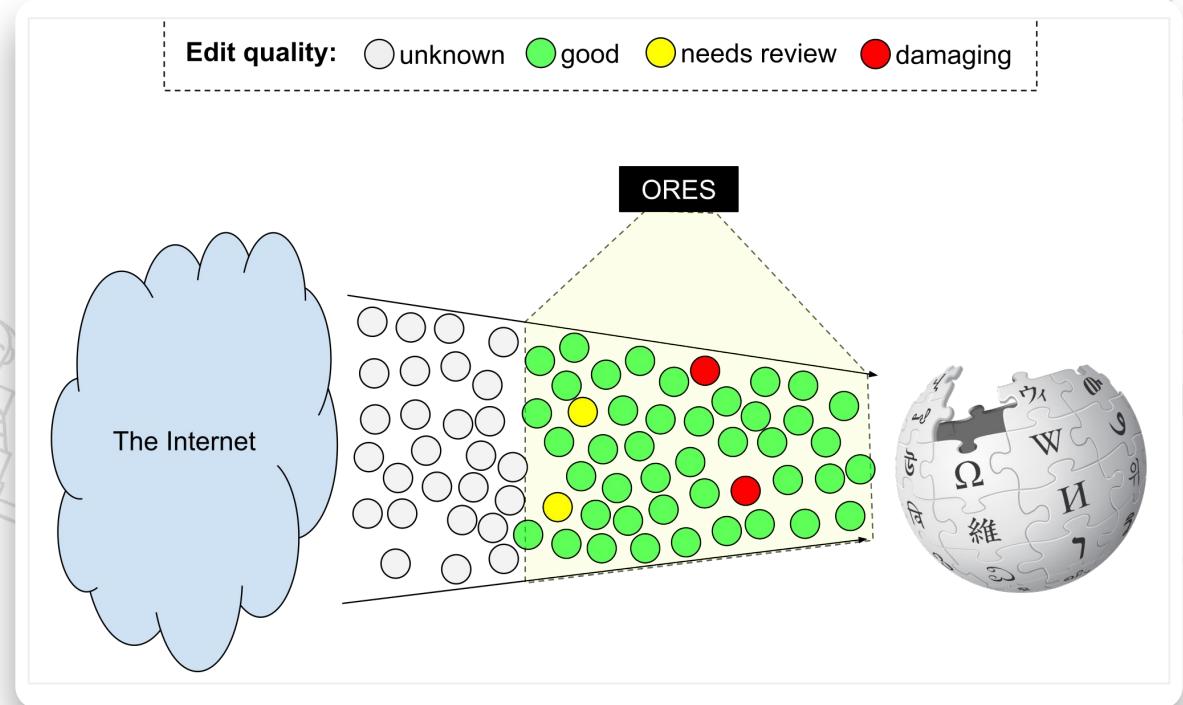
Example of a Tool: **VideoCutTool**

Analytics



<http://seealso.org/>

Machine Learning



ORES edit quality flow

CC by SA 4.0, EpochFail

Gadgets

The screenshot shows a Wikipedia article page for Nelson Mandela. The page includes a sidebar with navigation links like Accueil, Portails thématiques, Article au hasard, Contact, Contribuer, Débuter sur Wikipédia, Aide, Communauté, Modifications récentes, Faire un don, and Outils. A main content area features a portrait of Nelson Mandela and text about his life and political career. At the bottom of the page, there's a "Portail" section with links to "Portail sur la paix", "Portail des droits de l'homme", and "Portail du monde contemporain".

A modal window titled "Gadget « HotCatsMulti » activé." is overlaid on the page. It contains a star icon, a red circular icon with a white letter "N", and a blue circular icon with a white letter "M". Below these are buttons for "Modifier plusieurs catégories", "Supprimer et", "Modifier la catégorie", "Lauréat sud-africain du prix Nobel", "Récipiendaire de la Bharat Ratna", "Récipiendaire de la médaille présidentielle de la Liberté", "Récipiendaire de l'ordre du Souvenir", "Membre de l'ordre du Mérité (Commonwealth)", "Compagnon de l'ordre du Canada", "Compagnon de l'ordre d'Australie", "Bal lis grand-croix de l'ordre de Saint-Jean", "Membre des Global Elders", "Docteur honoris causa de l'université Waseda", "Étudiant de l'université d'Afrique du Sud", "Décès en décembre 2013", "Décès à 95 ans", "Décès à Johannesburg", "Ordre de l'Aigle aztèque", "Lauréat du prix Princesse des Asturias en coopération internationale", "Lauréat du prix Félix Houphouët-Boigny", "Autobiographie", and "Ajouter une catégorie".

Screenshot of a Gadget: HotCat

Other Major Areas



Design



Docs



Translation



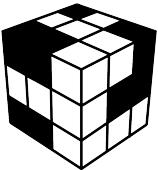
Quality
Assurance

< / >

Step 2

Set up the development environment





Step 3

Choose and solve a task



The screenshot shows a Phabricator task card for T213202 titled "Improve Recent Activity feed(s)". The card has a priority of "Open, Low" and is marked as "Public". The description notes that the current activity feed picks the 5 most recent signups, applications, approvals, and new partners, which is problematic because it drops from the recent day or two back to months ago when new partners are added. It suggests improving this to show the most recent objects across categories without prescribing exactly 5 from each. A note expresses concern about actions being taken in bulk, such as 10 applications in rapid succession or 20 approvals from EBSCO, which could swamp the feed. The card also mentions that 20 applications were approved for EBSCO but that overcomplicates things.

Description

At the moment our Activity feed picks the 5 most recent signups, applications, approvals, and new partners. Since it gives the illusion of being a full activity feed, it looks odd that the feed drops from the recent day or two back to months ago when we added the most recent partners.

We should consider improving this to simply be the most recent objects across these same categories without prescribing that we pick exactly 5 from each of these categories.

My only concern with it simply being a direct feed is that actions tend to be taken in bulk, such as a 10 applications in rapid succession, or bulk Send-ing 20. In that case the feed might get swamped by very similar notices. We could group those, like '20 applications were approved for EBSCO'; but that overcomplicates things.

good first bug

Samwalton9 created this task. Jan 8 2019, 10:17 AM

Herald added a subscriber: Aklapper. - View Herald Transcript Jan 8 2019, 10:17 AM

Samwalton9 triaged this task as **Low** priority. Jan 8 2019, 10:17 AM

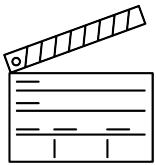
Subscribers

Aklapper, Samwalton9

Actions

- Edit Task
- Edit Related Tasks...
- Edit Related Objects...
- Protect as security issue
- Subscribe
- Mute Notifications

<https://phabricator.wikimedia.org/>



Step 4

Submit your code changes

status:open | gerrit.wikimedia.org

All Projects Documentation status:open

Search for status:open

Subject	Status	Owner	Project	Branch	Updated	Size	CR	V
Avoid page table query spam in HistoryPager due to lastLink()	Open	Aaron Schulz	mediawiki/core	master	7:34 PM		1	✓
rdbms: make Database::query() more readable and consistent	Merged	Aaron Schulz	mediawiki/core	master	7:33 PM		1	✓
rdbms: improve database connection loss handling	Abandoned	Aaron Schulz	mediawiki/core	master	7:33 PM		1	✗
Editor and VisualEditor use onBeforeExit	Open	Jdrlrobsen	mediawiki/extensions/MobileFrontend	master (overlay/improvements)	7:32 PM		1	✓
SelectWidget: Allow multiselect mode, add to MenuTag/MultiSelectWidget	Open	Mooeypoo	ojs/ui	master (selectwidget-multiselect)	7:24 PM		1	✓
WIP: c_t_ids from the sequence generator	Open	XeroRyt	mediawiki/extensions/DonationInterface	master (sequenceCT-ID)	7:18 PM		1	✗
Enable External/Guidance to all Wikipedias	Open	KartikMistry	operations/mediawiki-config	master (eg-to-all)	7:15 PM		1	✓
Reimplement GetMainSearchRequest UDF from refinery-hive	Open	EBernhardson	search/client	master (495984)	7:05 PM		1	✗
Method0 WIP	Open	Julia.glen	search/client	master (495984)	7:03 PM		1	✓
Set blacklist regex	Open	Gergő Tisza	mediawiki/services/chromium-renderer/deploy	master	6:56 PM		1	✓
Avoids to call on 'load' if the window is already loaded	Open	Tpt	mediawiki/extensions/ProofreadPage	master (zoom-load)	6:56 PM		1	✓
Update OOUI to v0.31.0	Open	Jforrester	mediawiki/core	master (upstream-cou)	6:16 PM		1	✓
Update OOUI to v0.31.0	Open	Jforrester	mediawiki/vendor	master (upstream-cou)	6:13 PM		1	✓
Update OOUI to v0.31.0	Open	Jforrester	VisualEditor/VisualEditor	master (upstream-cou)	6:07 PM		1	✓
Edit summary autocomplete Re-apply "textSelection: Use execcommand to replace text!"	Open	Eanders	mediawiki/extensions/VisualEditor	master (autocomplete)	6:04 PM		1	✓
		Eanders	mediawiki/core	master (execcommand)	6:00 PM		1	✗

Resources for volunteer developers



New Developers Guide

Choose a software project [edit source]

This is the recommended way to start. Choose one of the following projects and follow the project's documentation to set up your development environment, choose a task to work on, solve the task, and submit your code changes for review:

Huggle

An anti-vandalism desktop application for Wikimedia projects

- Skills required: C++ with Qt
- Get in touch: [Mailing list](#) / Chat in [#huggle](#) on irc.freenode.net
- Get the source code: [GitHub](#)
- Read the [user](#) and [programmer](#) documentation
- Check the recommended tasks to work on: [Phabricator](#)
- Mentor(s): Peter Bena



Kiwix

An offline reader for Wikipedia web content

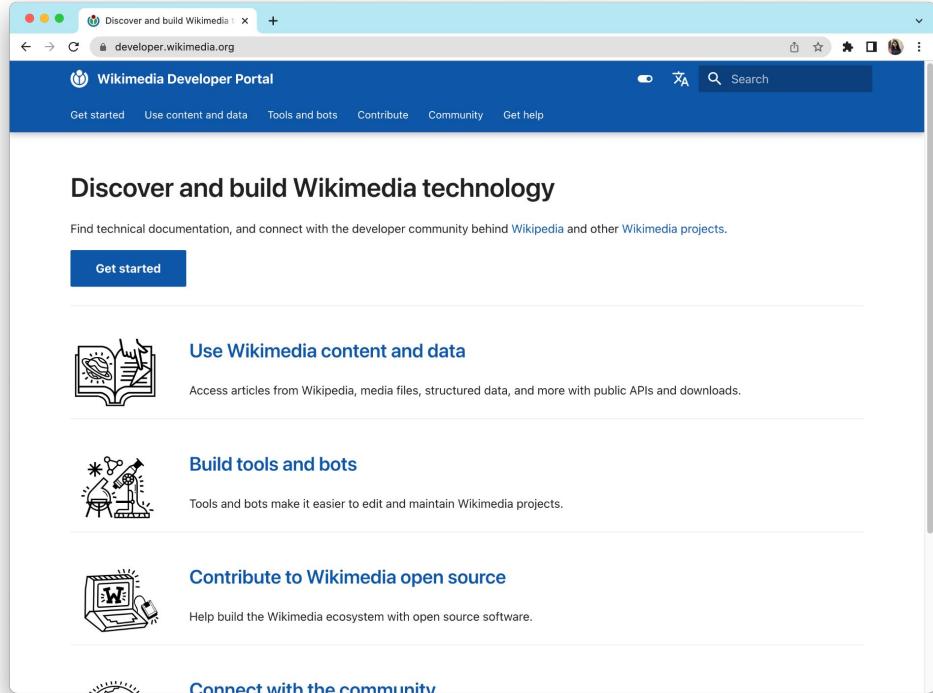
- Skills required: Java (Android app), Swift (iOS app)
- Get in touch: [Mailing list](#) / Chat in [#kiwix](#) on irc.freenode.net
- Get the source code: [GitHub](#)
- Read the [general documentation](#) and the README.md file of the corresponding project
- Check the recommended tasks to work on: [Android](#), [iOS](#), [JS](#) on GitHub
- Mentor(s): Matthieu Gauthier, Emmanuel Engelhart, Stephane Coillet-Matillon



https://www.mediawiki.org/wiki/New_Developers

Developer Resources

<https://developer.wikimedia.org>



The screenshot shows a web browser window displaying the Wikimedia Developer Portal at developer.wikimedia.org. The page has a blue header with the title "Wikimedia Developer Portal" and navigation links for "Get started", "Use content and data", "Tools and bots", "Contribute", "Community", and "Get help". Below the header, a main section titled "Discover and build Wikimedia technology" features a "Get started" button and descriptive text: "Find technical documentation, and connect with the developer community behind Wikipedia and other Wikimedia projects." There are four main sections with icons: "Use Wikimedia content and data" (book icon), "Build tools and bots" (robot icon), "Contribute to Wikimedia open source" (computer monitor icon), and "Connect with the community" (person icon).

Local community initiatives



INDIC
MEDIAWIKI DEVELOPERS
USER GROUP



Small Wiki Toolkits



What makes Wikimedia volunteers contribute?



Open source outreach & mentoring programs



Google Summer of Code

About GSoC & Outreachy

- 3-month long paid internship
- Support groups underrepresented in tech
- Remote
- Coding & non-coding projects
- Twice in a year:
May-August &
December-February



Application process

- Check the eligibility criteria
- Pick 1 or 2 projects
- Make small, consistent contributions to a project
- Record / keep track of your contributions
- Complete your final application

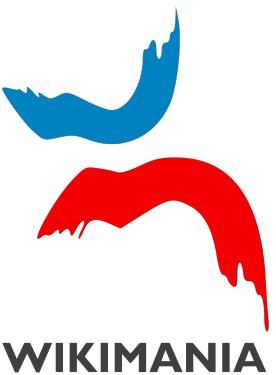
Tips for a successful application

- Start early
- Choose a project that fits your interests and skills
- Focus more on quality contributions
- Get early feedback on your proposal
- Ask questions early and often
- Follow the norms of the community and all project updates

Hackathons & events



Programs & Events



Community recognition





discourse

<https://www.mediawiki.org/wiki/Discourse>

Support Channels



<https://t.me/wmhack>



<https://wikimedia.zulipchat.com/>



Thank you



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Twitter: [@gopavasanth1999](https://twitter.com/gopavasanth1999)

References

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 - ◆ Technical contributions overview source
<https://wikimedia.biterg.io/goto/b6b44987ee5deec0becd728a8a655870>
- Technical areas and projects for new developers
 - ◆ Complete list of Wikimedia projects <https://www.wikimedia.org/>
 - ◆ How to contribute https://www.mediawiki.org/wiki/How_to_contribute
 - ◆ New developers guide https://www.mediawiki.org/wiki/New_Developers
 - ◆ Extension:RevisionSlider
<https://www.mediawiki.org/wiki/Extension:RevisionSlider>
 - ◆ Programs and events dashboard <https://outreachdashboard.wmflabs.org/>
 - ◆ Gadgets https://www.mediawiki.org/wiki/Gadget_kitchen

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<https://blog.wikimedia.org/2017/10/05/technical-collaboration-new-developers/>
 - ◆ Wikimedia Foundation collaborates with two initiatives
https://wikimediafoundation.org/2018/10/12/wikimedia-foundation-collaborations_sn-posse/
 - ◆ Gerrit newcomer bot
https://medium.com/@Srish_Aka_Tux/gerrit-newcomer-bot-one-small-step-to-welcoming-new-developers-and-tracking-their-patches-50cc6eebf34d
 - ◆ Support channels
 - <https://discourse-mediawiki.wmflabs.org>
 - <https://wikimedia.zulipchat.com/>

Credits

- Wikimedia Developer Advocacy team: Srishti Sethi.



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