Sharing Opportunities for New Developers in the Wikipedia Community

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Agenda

- Wikimedia ecosystem
- Technical areas and projects for new developers
- Efforts to onboard new developers
Wikimedia Ecosystem
This *might* be a bit confusing..
“Imagine a world in which every single human being can freely share in the sum of all knowledge.”
Wikimedia Movement

trademarks
Markenrechte

recognizes
erkennt an

owner
Eigentümerin

affiliations | Organisationen

Wikipedia

Wikidata

W. Commons

Wikisource

et. al. | u.a.

volunteers
Ehrenamtliche

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volunteers Ehrenamtliche

Wikipedia

Wikidata

W. Commons

Wikisource et. al. | u.a.

not even a wiki nicht einmal ein Wiki

other wikis andere wikis

Memory Alpha

Karlsruhewiki

Open Street Map

Wikileaks

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Who makes technical contributions to Wikipedia community?
Geographic Distribution of Wikimedia Volunteer Developers (2017-18)

- Europe ~36%
- Asia ~20%
- North America ~13%
- Africa/Middle East ~10%
- South America ~9%
- Oceania ~5%
Technical Contributions Overview (2017-18)

- 413 contributors
- 48,652 commits
- 1,363 repositories
- 60% volunteers
- 18% of commits
New Developers Added in 2017-18

- Q3 2017
- Q4 2017
- Q1 2018
- Q2 2018
What makes Wikimedia volunteers contribute?
WIKIPEDIA NEEDS YOU!
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
Wikimedia Projects
Technical areas

- Documentation
- Design
- Translation

- Mobile apps
  - Java, C

- Desktop apps
  - Java, C#, C++

- Mediawiki Core
  - PHP, JS, ...

- Mediawiki Extensions
  - PHP, JS, ...

- Mediawiki Skins
  - CSS, LESS

- Templates
  - Lua

- Gadgets and user scripts
  - JS

- Bots
  - Python, ...

- Services
- Analytics
- Machine Learning

- Cloud Services / Cloud VPS / Toolforge

- Quality assurance / continuous integration

- Site Reliability Engineering (Ops)

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MediaWiki Extensions

Screenshot of an Extension: Revision Slider
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, Victorgrigas
Mobile Apps

Wikimedia Commons app

CC by SA 4.0, Misachan2
Tools & Bots

Example of a Tool: Programs & Events Dashboard
Analytics

http://seealso.org/
Machine Learning

ORES edit quality flow

Edit quality:  
- unknown  
- good  
- needs review  
- damaging

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Gadgets

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

https://phabricator.wikimedia.org/
Step 4
Submit your code changes

https://gerrit.wikimedia.org/
Outreach Programs & Events

Google Summer of Code

Google Code-in

WIKIMANIA

WIKIMEDIA HACKATHON
Efforts to Onboard New Developers
Onboarding New Developers Program

FY 2017-18
New Developers Guide

https://www.mediawiki.org/wiki/New_Developers
Quarterly Surveys and Reports

Previous reports

- **July 2018, Issue 4**
  This report covers results from April to June 2018.

- **April 2018, Issue 3**
  This report covers results from January to March 2018.

- **January 2018, Issue 2**
  This report covers results from September to December 2017.

- **October 2017, Issue 1**
  This report covers results from July to September 2017.

Summary of key findings

Here is what we’ve gathered as key findings from the previous reports (formed through responses collected from 61 new developers and metrics data via Technical Community Metrics):

- Geographic Distribution of Wikimedia New Developers: Majority of survey respondents were from the United States (~19.6%), India (~16.3%) and Germany (~11.4%).

https://www.mediawiki.org/wiki/New_Developers/Quarterly
Hackathon Mentoring Program

https://www.mediawiki.org/wiki/Hackathons/Handbook/Mentoring_program
Collaboration with OSSN & POSSE
Africa
Wikimedia
Developers
Project

https://www.mediawiki.org/wiki/Africa_Wikimedia_Developers_Project
Gerrit

Newcomer Bot

Screenshot of welcome message added by newcomer bot
Outcomes & Lessons Learned
References

➔ Wikimedia Ecosystem

- Technical contributions overview source
  https://wikimedia.biterg.io/goto/b6b44987ee5deec0becd728a655870

➔ 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
References

➔ Onboarding new developers

◆ How technical collaboration is bringing new developers into Wikimedia
  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-collaboration-osnsnposse/

◆ Gerrit newcomer bot

◆ Support channels
  • https://discourse-mediawiki.wmflabs.org
  • https://wikimedia.zulipchat.com/
Credits

→ Wikimedia Developer Advocacy team
→ Wikimedia Austria chapter for their work on the Hackathon Mentoring Program
→ Africa Wikimedia Developers Project for coordinating outreach efforts in Africa
→ Friends and colleagues: Suchakra Sharma, Sarah Rodlund, Andre Klapper, Bryan Davis, Rachel Farrand, Nick Wilson, Quim Gil

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