

# A comparison between MediaWiki, TWiki and XWiki communities

FOSDEM Wiki devroom ULB, Brussels, 1st-2nd Feb 2014

Alvaro del Castillo San Félix

acs@bitergia.com  
<http://bitergia.com>

Feb 1st, 2014





©2014 Bitergia

Some rights reserved. This presentation is distributed under the  
“Attribution-ShareAlike 3.0” license, by Creative Commons, available at  
<http://creativecommons.org/licenses/by-sa/3.0/>



Bitergia

`bitergia.com/fosdem2014`

# MediaWiki, TWiki and XWiki Summary

- MediaWiki is a free software open source wiki package written in PHP <https://www.mediawiki.org>.
- TWiki the Open Source Enterprise Wiki and Web Application Platform. <http://http://twiki.org/>. License GPL.
- XWiki is a platform for developing collaborative web applications using the wiki paradigm. <http://www.xwiki.org/>.

Project	Start	License
MediaWiki	Jan 2001	GPL
TWiki	Jul 1998	GPL
XWiki	Jan 2003	LGPL

Cuadro : Main facts

All of them more than 10 years history projects, with different technologies.

# Lines of code for core platform

- MediaWiki core: PHP project
- XWiki xwiki-platform, xwiki-enterprise, xwiki-rendering, xwiki-commons: Java project
- TWiki svn trunk/core: Perl project. The smallest core.

Project	Javascript	CSS	HTML	PHP	Perl	Java
MediaWiki	43K	7K	0.6K	900K	0.7K	-
TWiki	1.3K	0.7K	1.8K	-	51K	-
XWiki	81K	7K	4K	-	-	400K

Cuadro : Main technologies

# Lines of code for core platform + extensions

- MediaWiki core + Wikimedia key extensions
- XWiki core+ xwiki-contrib extensions (133 of 659)
- TWiki svn trunk

Project	Javascript	CSS	HTML	PHP	Perl	Java	Number
MediaWiki	882K	93K	83K	2.2M	133K	12.5K	233
TWiki	470K	65K	600K	107K	270K	-	470
XWiki	670K	165K	37K	0.6K	1.5K	956K	133

Cuadro : Main technologies

# Why metrics?



# Bitergia

- It's about truth. Facts.
- Show me the code? Show me the metrics too!
- You can measure things and compare (tendencies).
- Numbers are pretty objective.

# Organizations already using Grimoire Tools







- All available on [http://bitergia.com/public/previews/2014\\_01\\_fosdem/](http://bitergia.com/public/previews/2014_01_fosdem/)
- Data updated yesterday.
- Based in Grimoire\* tools, easy to reproduce. Do you want to play? Open Source and Open Data technologies.
- Speech about Grimoire tools on Sunday 11:20, Lightning talks (Room: Ferrer).

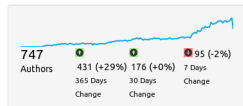
# What to analyze?

- Git/SVN
- Bugzilla/JIRA
- Mailman

TWiki tickets and messages can not be analyzed because the project uses in house tools (TWiki extensions) not supported in MetricsGrimoire.

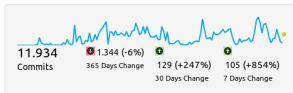
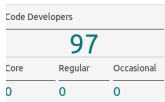
# Source code repositories

## Mediawiki: Jan 2002



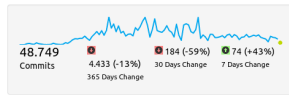
Facts: Sep 2011 x2 Jun 2011 commits (*i\_svn\_i\_git?*). Authors grows more steady. Year tendencies positive. Large development community.

## TWiki: Jan 2002

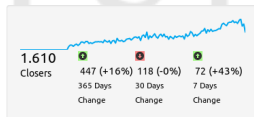
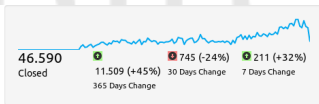
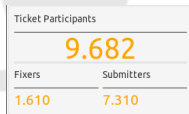


Facts: Lost authors in Nov 2008 (fork?) and files, but no commits. Activity with lot of peaks.

## XWiki: Jan 2004

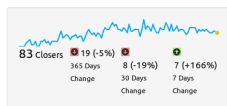
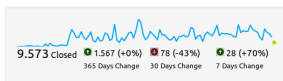
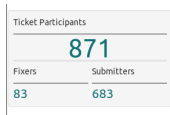


## MediaWiki: Feb 2002



Facts: Closers and activity (more) increased last year. Quality community growing.

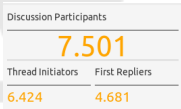
## XWiki: Jan 2004



Facts: Steady activity from Dec 2006. 10 closers average from 2009. Stable participation.

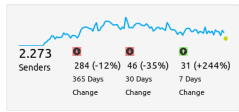
# Mailing lists

## Mediawiki: Feb 2002



Facts: Activity is growing and senders are stable last year. Senders grew until Oct 2005, then are stable. Huge peak of messages in Oct 2013.

## XWiki: Jan 2004



Facts: The activity is going down. Maybe moving to forums or wiki?

# Summary for Communities

Source code developers (core, regular, occasional), people working with tickets (fixers, submitters) and people sending messages.

Project	Source code	Tickets	Mailing Lists
MediaWiki	747 (67;103;562)	9,682 (1610 fix;7310 sub)	7,501
TWiki	97		
XWiki	48 (5;8;33)	871 (83 fix;683 sub)	2,273

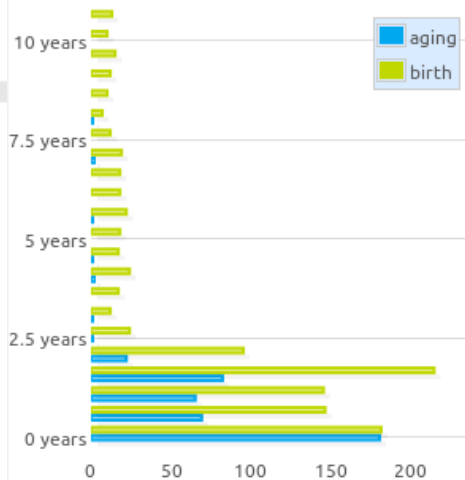
Cuadro : Basic community description

But this are global numbers. Let's take a look to demographics.

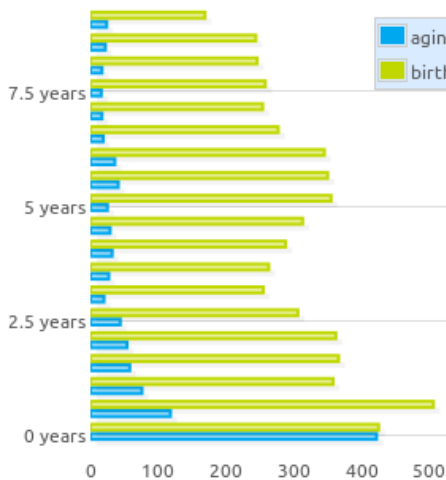
- MediaWiki increasing developers at a higher rate last 2 years. Around 50% retention rate last two years. From 60 new developers in Jun 2011 to 190 in Nov 2013. Activity is not growing at the same rate.
- TWiki only 5 developers, but the last 4 in last 1.5 years. The retention rate is not to high.
- XWiki 21 developers, 2.5 years ago lot of new people (35) retaining (8).

# Wikimedia Demographics

## Source code developers



## Ticket participants





# Activity in Wikis: MediaWiki

[Summary](#)[Source Code](#)[Issues](#)[Mailing](#)[Code Review](#)[IRC](#)[mediawiki.org](#)[Focus](#)

**291.815**  
Editions

📈 79.121 (+32%)  
365 Days Change

📈 8.014 (+25%)  
30 Days Change

📉 1.137 (-15%)  
7 Days Change

**Mediawiki** (updated on 2014-01-22)

291.815 editions

## Top Editors last month

- #1 [MegaAlex](#)
- #2 [FuzzyBot](#)
- #3 [Yuki Shira](#)
- #4 [Seb35](#)
- #5 [Nemo bis](#)
- #6 [Wrecked 'im? Damn near kill](#)
- #7 [Vldandrew](#)
- #8 [GWicke](#)



**32.220** Editors

📈 5.117 (+15%)  
365 Days Change

📉 679 (-7%)  
30 Days Change

📈 259 (+13%)  
7 Days Change

# More complete studies with Grimoire Tools

- By repositories, companies, countries or people. Comparisons.
- Including more data sources: Wiki, IRC, gerrit ...
- Specific studies: Forks (TWiki vs Foswiki)
- Time to attention, to review ...
- Demographics for all data sources
- <http://korma.wmflabs.org/>

# Bitergia: an spin-off

- TODO by manrique
- "Bridging the gap between developers and stakeholders"
- Company starting operations in June 2012
- Building on the experience of LibreSoft
- Offering professional products and services
- Focused on:
  - ▶ Metrics about software development (including community metrics)
  - ▶ Specialized support for development forges (including metrics for projects)
- Working with Red Hat, OpenStack, Liferay, MediaWiki, Puppet Labs, CENATIC, Emergya and others.

<http://bitergia.com>

This is the end

Have you enjoyed with this Wiki  
metrics comparison? Learnt  
something new?

acs@bitergia.com