

A wooden abacus with a leather strap. The strap has the word 'Think' written on it in a stylized font, and the numbers 2, 3, 4, 5, and 6 are also visible on the strap. The abacus is a small, round wooden object with a metal handle on top.

Crunching the numbers:

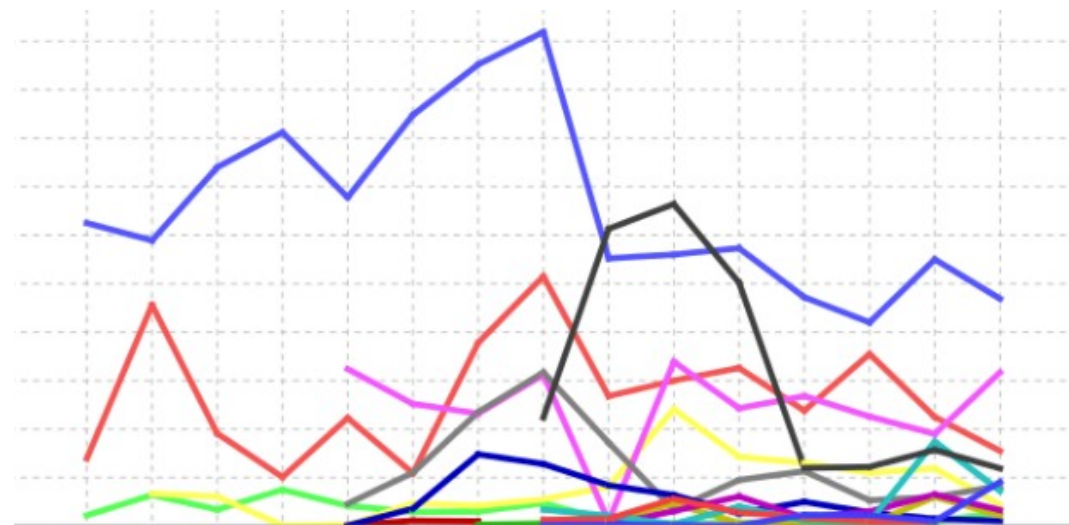
Open Source Community Metrics

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Neary Consulting

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MeeGo Community Manager at Intel

Why are metrics important?

- Measure progress in your community over time
- Who contributes
- Where are people contributing
- Spot trends
- Gauge interest
- Learn more about key contributors
- Recognize contributions



Example: Components of an Open Source Community



Example: June MeeGo Community Metrics Summary

- 439,963 unique people visited this month (430,070 last month).
 - 1,796,288 pageviews (1,857,907 last month); 599,573 total visits (597,658 last month)
- 25,801 people are members of MeeGo.com (was 24,019 last month)
 - Dev ML subscribers = 4772; Community = 3736; iL10N = 2607; SDK = 3197
- Mailing Lists: 5890 posts this month; 200 people posted 2+ msgs
- Forums: 2255 posts. 242 people posted 2+ messages
- New Bugs Created: 1938; Bugs Resolved: 2871
- Downloads: 52,627 1.2 Netbook, 626 1.2 IVI, 1505 1.1 N900, 3072 Tablet
- Active Users: Estimated at 800 – 1000 people.
 - Mailing Lists: 302 people with unique email addresses posted (308 last month)
 - Forums: 412 people posted at least one item (262 last month)
 - Bugzilla: 773 people performed some action (624 last month)
 - Wiki: 276 edited the wiki (205 last month)
 - IRC: 410-520 people logged into #meego simultaneously most days

<http://wiki.meego.com/Metrics>

What are the Right Metrics for YOUR Project

- Goals
 - What are your overall goals for the project?
 - How can you measure progress toward those goals?
 - What is important to you and your progress?
- Trends
 - What should you measure to recognize trends?
 - How do you recognize when something is going wrong?
 - Do you notice big improvements?



Note: I measure way too much

Mailing Lists: mlstats

Mailing List Stats is a command line tool used to analyze mailing list archives. It downloads the archives, places them in a directory and stores all the information contained in each mailing list post into a database



LibreSoftwareResearch

WE STUDY LIBRE SOFTWARE
ME >100% LIBRE SOFTWARE

<http://libresoft.es/tools/mlstats>

CVSAnaly parses commit logs of various source control systems, and stores the data into a database



LibreSoftwareResearch

WE STUDY LIBRE SOFTWARE
ME > 100% LIBRE SOFTWARE

<http://libresoft.es/tools/cvsanaly>

Gitdm parses git logs and extracts committer and employer information

```
7 employers found
A total of 2909 lines added, 425 removed (delta 2484)

Developers with the most changesets
Jonathan Corbet      29 (59.2%)
Cédric Bosdonnat    7 (14.3%)
Tiago Vignatti       4 (8.2%)
Greg Kroah-Hartman   3 (6.1%)
Martin Nordholts    2 (4.1%)
Greg KH              2 (4.1%)
Michael Meeks        1 (2.0%)
Kir Kolyshkin        1 (2.0%)

Developers with the most changed lines
Jonathan Corbet      2513 (84.8%)
Martin Nordholts    208 (7.0%)
Tiago Vignatti       60 (2.0%)
Cédric Bosdonnat    55 (1.9%)
Michael Meeks        51 (1.7%)
Greg KH              12 (0.4%)
Greg Kroah-Hartman   7 (0.2%)
Kir Kolyshkin        5 (0.2%)

Developers with the most lines removed
Kir Kolyshkin        2 (0.5%)

Developers with the most signoffs (total 31)
Jonathan Corbet      20 (64.5%)
Greg Kroah-Hartman   4 (12.9%)
Tiago Vignatti       4 (12.9%)
Martin Nordholts    2 (6.5%)
Kir Kolyshkin        1 (3.2%)
```

[git://git.lwn.net/gitdm.git](https://git.lwn.net/gitdm.git)

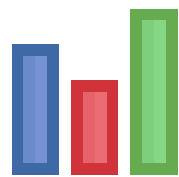
IRC: irssistats & superseriousstats

Generates IRC stats for active people, by hour of the day, by day, most used words, quotes and more.

<http://royale.zerezo.com/irssistats>


<http://code.google.com/p/superseriousstats/>

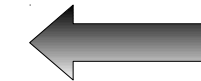
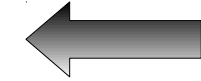
irssistats



superseriousstats

Super Serious Stats, Seriously.

Page statistics	
Content pages	861
Pages (All pages in the wiki, including talk pages, redirects, etc.)	3,539
Uploaded files	1,201
Edit statistics	
Page edits since MeeGo wiki was set up	41,457
Average edits per page	11.71
Job queue  length	0
User statistics	
Registered users	8,288
Active users (list of members) (Users who have performed an action in the last 91 days)	359
Bots (list of members)	0
Administrators (list of members)	10
Bureaucrats (list of members)	6
View statistics	
Views total	4,612,077
Views per edit	111.25
Most viewed pages	



Bugs

- New bugs vs. resolved bugs
 - Can't just look at monthly trends
 - Need to take release cycle into account
 - Before release: more resolved bugs
 - After release: more new bugs
- Participants
 - People who file new bugs
 - Participate in bugs (comment, etc.)
 - Careful with people who resolve bugs (usually QA)
- Most bug trackers have reporting / queries for metrics



MeeGo All Visitors Overview

Feb 1, 2011 - Apr 30, 2011
Comparing to: Site



1,022,898 people visited this site

 **1,469,962** Visits

 **1,022,898** Absolute Unique Visitors

 **4,475,647** Pageviews

Automate

- My less than elegant method
 - Giant bash script
 - Uses wget, awk, mysql queries, etc.
 - Dumps a bunch of csv files on my hard drive
- A better dashboard approach
 - Open source metrics dashboard
 - <http://wiki.meeego.com/Metrics/Dashboard>



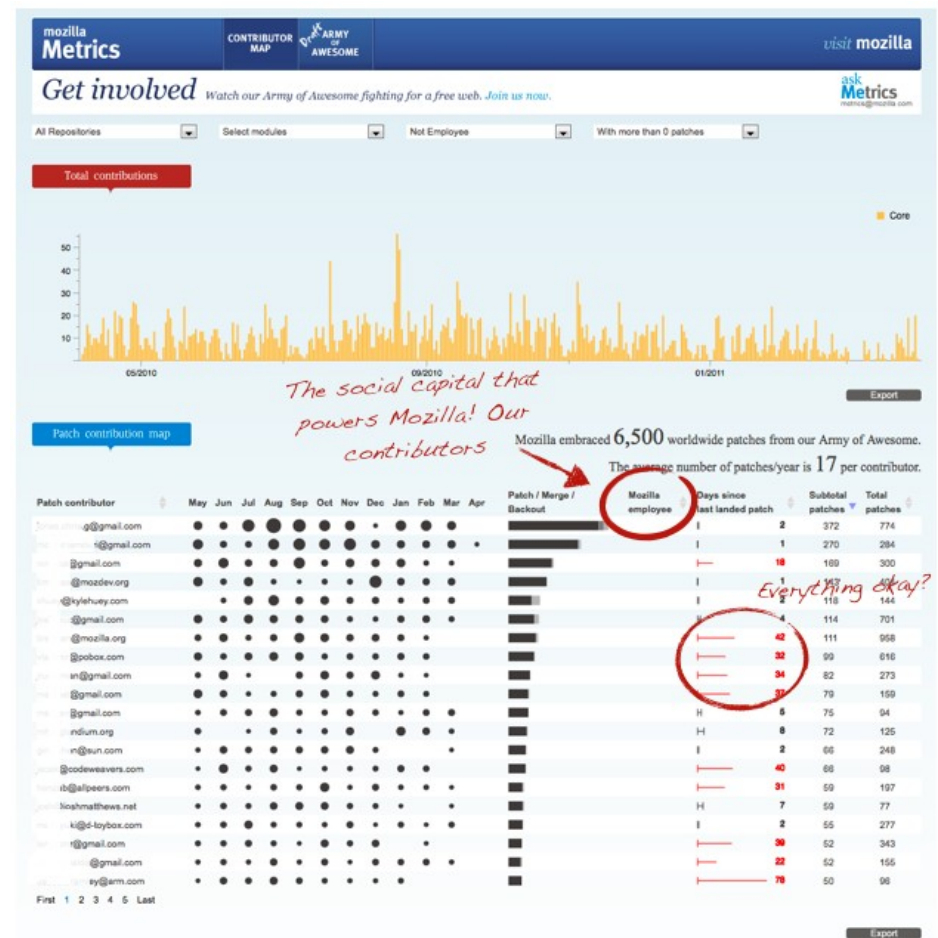
Why build a dashboard?

- Provide up to date information
- Automate repetitive menial work
- Provide actionable data for qualitative analysis



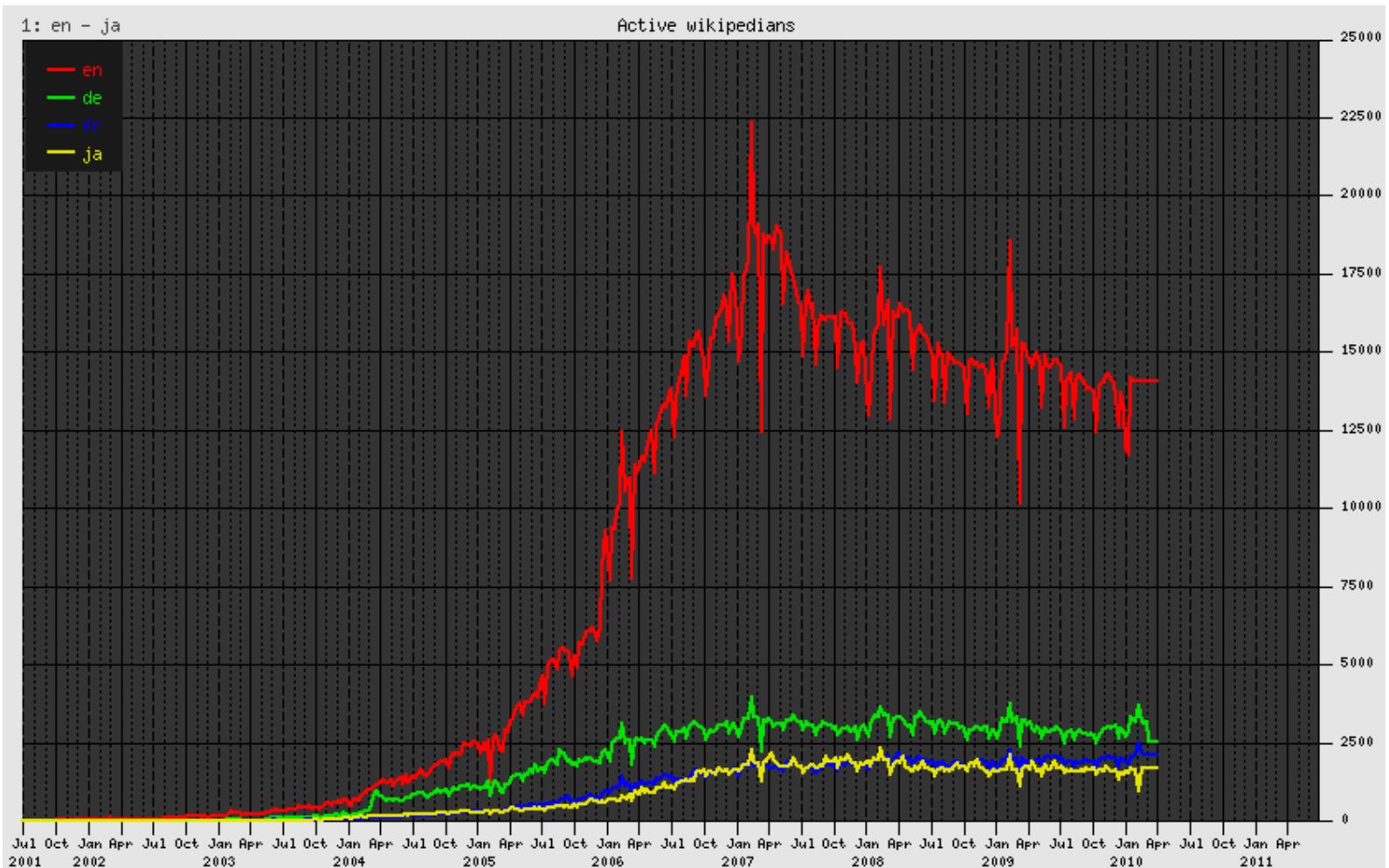
Mozilla contributor dashboard

- Tracks total contributions, code review, individual contributions
- Easy to spot important information in visualisation
- Code only



Credits: David Eaves

WikiMedia stats



Tracks editor activity, content pages, access by language

<http://stats.wikimedia.org>

Eclipse project view

C/C++ Development Tooling (CDT)

- Website
- Wiki
- Documentation
- Plan
- Issues (Bugzilla)
- Repository/Updates
- Downloads

C/C++ Development Tooling (CDT) >>

- Target Communication Framework

Tools Project >>


- AJDT - AspectJ Development Tools Project
- AspectJ
- Ajax Tools Framework (ATF)
- Buckminster Component Assembly
- C/C++ Development Tooling (CDT)
- EGL Development Tools
- Graphical Editing Framework (GEF)
- Memory Analyzer
- Object Teams
- Eclipse Orbit Project
- PHP Development Tools
- Parallel Tools Platform (PTP)
- Runtime Analysis Tools
- Sequoyah
- Target Management
- WindowBuilder

Top Level Projects >>

- Business Intelligence and Reporting Tools (BIRT)
- Data Tools Platform

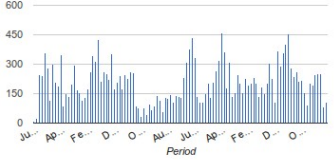
C/C++ Development Tooling (CDT)

The CDT (C/C++ Development Tools) Project provides a fully functional C and C++ Integrated Development Environment (IDE) for the Eclipse platform.



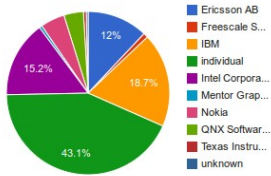
Commits Activity

Commits on this project (lifetime).



Company Activity

Commits on this project by companies over the last three months.



Company	Percentage
Ericsson AB	12%
Freescale S...	18.7%
IBM	43.1%
individual	15.2%
Intel Corpora...	
Mentor Grap...	
Nokia	
QNX Softwar...	
Texas Instru...	
unknown	

Source Repositories

Eclipse projects store all of their source code in public revision control systems.

- cdt.edc (git)
- cdt (git)

Project Leads

- Doug Schaefer

Committers

- Andrew Gvozdev
- Anton Leherbauer
- Chris Recoskie
- David Dubrow
- Doug Schaefer
- Emanuel Graf
- Elena Laskavala
- Ed Swartz
- James Blackburn
- John Cortell
- Ken Ryll
- L. Frank Turovich
- Ling Wang
- Mikhail Khodjaiaants
- Marc Khouzam
- Mike Kucera
- Marc-Andre Laperle
- Markus Schorn
- Patrick Chuong
- Pawel Plech
- Randy Rohrbach
- Sergey Prigogin
- Ted Williams
- Teodor Madan
- Vivian Kong
- Warren Paul

- Company contributions
- Total activity
- Mostly code

[Home](#)[People](#)[Projects](#)[Forums](#)[Tools](#)[Blog](#)

GIMP

GENERAL

- Summary
- News
- Links
- Similar Projects
- Widgets

DEVELOPMENT

- Code Analysis
- Commits
- Estimated Cost
- Enlistments

COMMUNITY

- Contributors**
- Users
- Managers
- World Map
- Ratings & Reviews

Contributors

Filter on: Sort

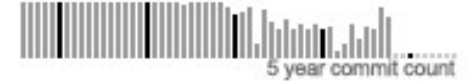
Sven Neumann —
Maintainer / Developer

Kudo Rank



Primary Language: C

Commits: 9287



5 year commit count



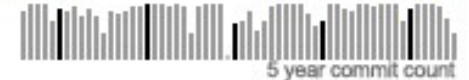
Michael Natterer —
Maintainer

Kudo Rank



Primary Language: C

Commits: 7602



5 year commit count



Martin Nordholts —
Developer

Kudo Rank



Primary Language: C

Commits: 1333



5 year commit count



Manish Singh

Kudo Rank



Primary Language: C

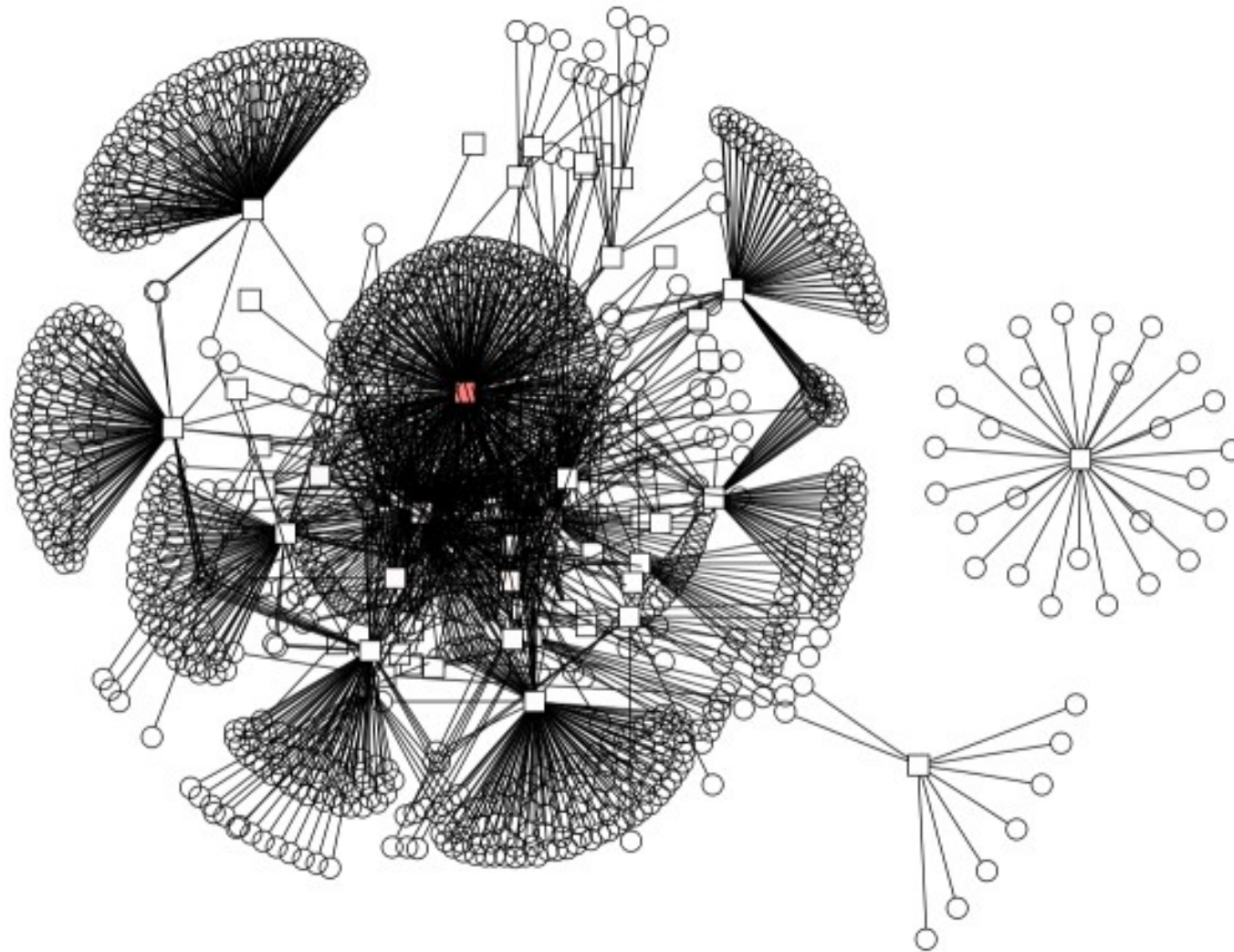
Commits: 1276



5 year commit count

<http://www.ohloh.net/p/gimp/contributors>

Paul Adams: Visualising contributions



<http://blogs.fsfe.org/padams/?p=18>

Open Source business intelligence

- Pentaho BI suite
- JasperSoft
 - BI suites, including ETL, reporting, metadata
- BIRT
 - Reporting tool from Actuate
 - Associated with Eclipse
- Talend
- Petals
 - ETL tools, useful in combination with other tools



- Open Source BI suite
- Includes reporting tool, ETL, dashboard framework, scheduling engine, metadata layer, all in Community Edition
- Used by other open source projects (Mozilla)

Pentaho Report Designer

Activities org-pentaho-commons-launcher-Launcher Sun 16:08 Dave Neary

Pentaho Report Designer - wiki_reports - /home/dneary/src/report-designer/wiki_reports.prpt

File Edit View Format Data Window Help

wiki_reports

100% .05 .10 .15 .20 .25 .30 .35 .40 .45 .50 .55 .60

Page Header MeeGo Wiki content statistics

Report Header

Bar Chart

Group Header

Details

Group Footer

Report Footer

Page Footer

Structure Data

- Master Report
 - Page Header
 - Ab label: MeeGo Wiki content statistics
 - Report Header
 - chart
 - Group
 - Report Footer
 - Page Footer
 - Watermark

Attributes

Name	Inherit	Value	Formula
text	<input checked="" type="checkbox"/>		
gn	<input checked="" type="checkbox"/>	LEFT	+
gn	<input checked="" type="checkbox"/>	TOP	+
color	<input checked="" type="checkbox"/>		+
color	<input checked="" type="checkbox"/>		+
add...	<input checked="" type="checkbox"/>		+
om	<input checked="" type="checkbox"/>	0	+
om	<input checked="" type="checkbox"/>	0	+
om	<input checked="" type="checkbox"/>	0	+
om	<input checked="" type="checkbox"/>	0	+
Object	<input checked="" type="checkbox"/>		+
color	<input checked="" type="checkbox"/>	true	+
rou...	<input checked="" type="checkbox"/>	false	+
ce	<input checked="" type="checkbox"/>		+
alias	<input checked="" type="checkbox"/>		+
ect-r...	<input checked="" type="checkbox"/>		+
ect-r...	<input checked="" type="checkbox"/>		+
ze...	<input checked="" type="checkbox"/>		+
ht	<input checked="" type="checkbox"/>	227.0	+
h	<input checked="" type="checkbox"/>	468.0	+
y	<input checked="" type="checkbox"/>		+
visible...	<input checked="" type="checkbox"/>	true	+
invisible...	<input checked="" type="checkbox"/>		+
dynamic...	<input checked="" type="checkbox"/>		+
preferre...	<input checked="" type="checkbox"/>		+
preferre...	<input checked="" type="checkbox"/>		+
max-hel...	<input checked="" type="checkbox"/>	32767.0	+
max-width	<input checked="" type="checkbox"/>	32767.0	+

Edit Chart

Primary DataSource Secondary DataSource

CategorySet Data Collector

Name	Value
no-data-message	CHART.USER_NO_DATA_...
chart-title	Edits per month
chart-title-field	
title-font	SansSerif-BOLD-14
stacked	False
stacked-percent	False
horizontal	False
bar-borders	False
max-bar-width	
series-color	{}
3-D	False
gridlines	True
bg-color	
bg-image	
show-border	False
border-color	
anti-alias	True
plot-bg-color	
plot-fg-alpha	1.0
plot-bg-alpha	1.0
plot-border	False
label-font	SansSerif--8

CategorySet Data Collector

Name	Value
category-column	month
value-columns	[edits]
series-by-value	{}
series-by-field	[year]
auto-generate-series	
group-by	
reset-group	

Bar Chart

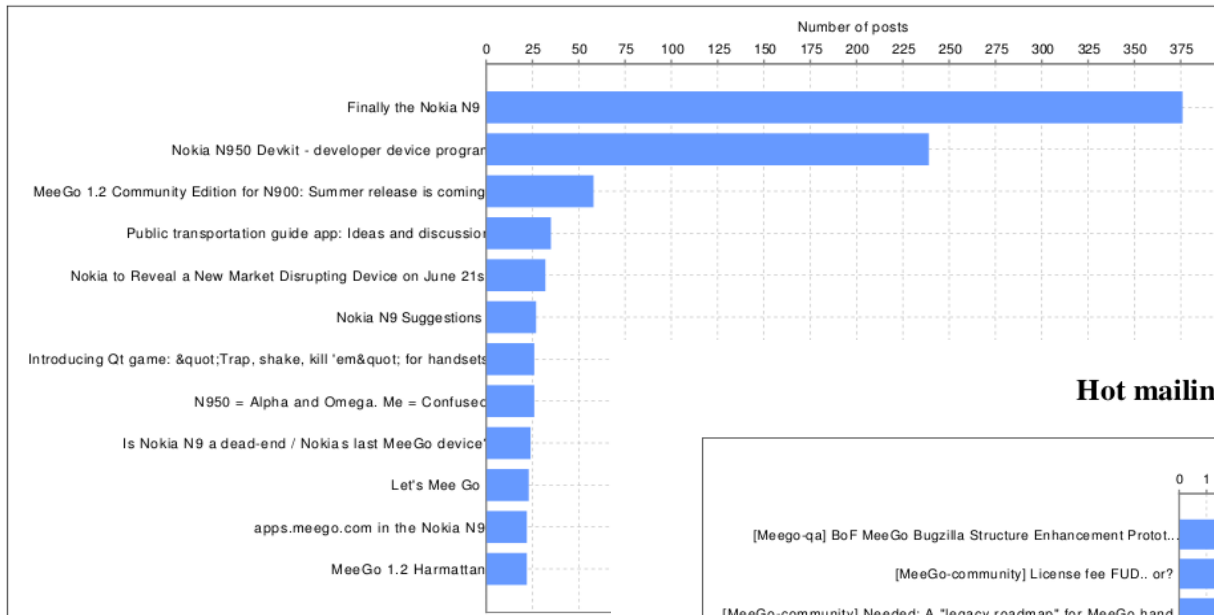
Name	Value
Required	
no-data-message	CHART.USER_NO_DATA_...
Title	
chart-title	Edits per month
chart-title-field	
title-font	SansSerif-BOLD-14
Options	
stacked	False
stacked-percent	False
horizontal	False
bar-borders	False
max-bar-width	
series-color	{}
General	
3-D	False
gridlines	True
bg-color	
bg-image	
show-border	False
border-color	
anti-alias	True
plot-bg-color	
plot-fg-alpha	1.0
plot-bg-alpha	1.0
plot-border	False
label-font	SansSerif--8

OK Cancel

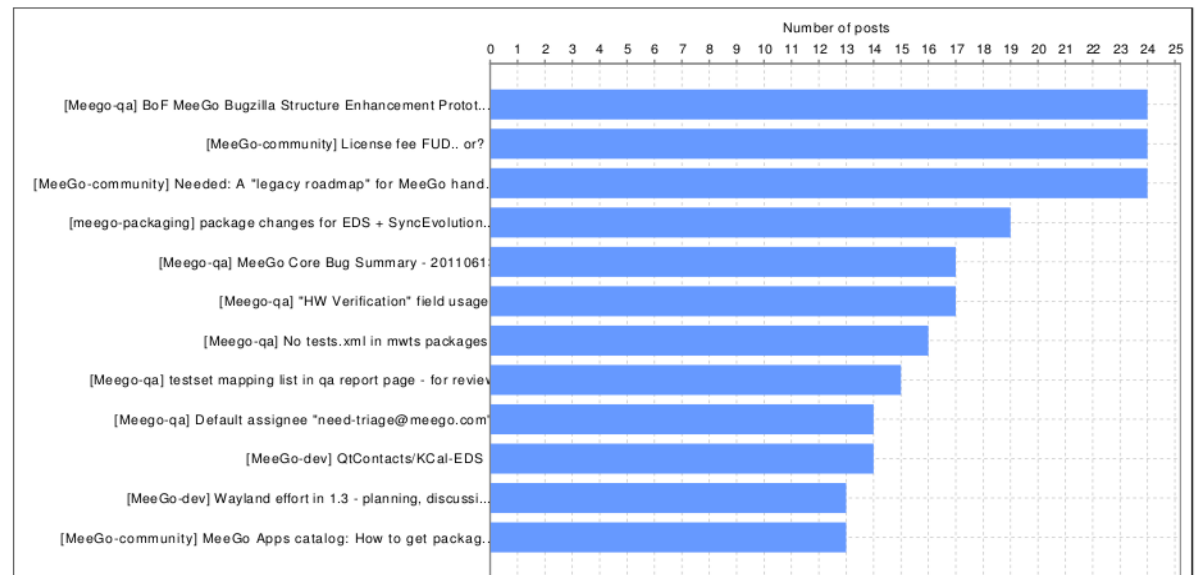
24.6 MB

Mailing list and forum statistics

Hot forum topics this month



Hot mailing list topics this month



Mailing list and forum activity

Participation

Forum posts

Rank	Member	Posts
1	qgil	185
2	sjgadsby	115
3	shmerl	104
4	texrat	77
5	jaffa	60
6	swift11	52
7	jonay	42
8	mja	35
9	vitna	35
10	timoph	35
11	hartti	29
12	lm	27
13	rubear2009	26
14	andre	25
15	profebral	23
16	mikecomputing	21
17	ritratt	21
18	helex	19
19	cckwes	19
20	pycage	19

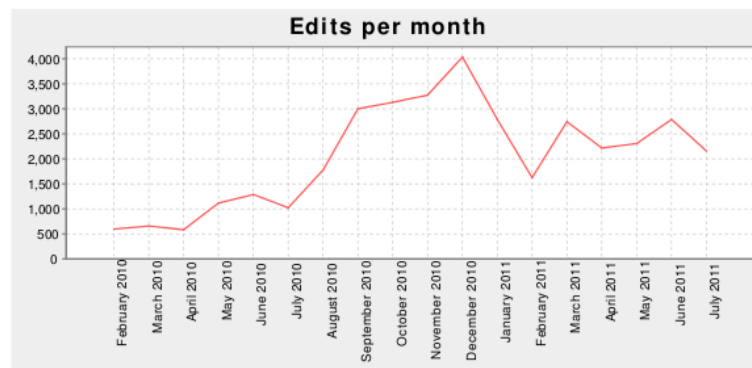
Forum thanks

Rank	Member	Thanks
1	qgil	738
2	jaffa	151
3	texrat	118
4	hartti	63
5	javispedro	52
6	timoph	51
7	shmerl	48
8	loughney	39
9	lm	38
10	generalantilles	36
11	pycage	34
12	venemo	32
13	andre	30
14	jukkaeklund	28
15	vivainio	26
16	bergie	25
17	bundy	24
18	swift11	23
19	lkraav	22
20	vdvsx	22

Mailing lists

Rank	Email	Posts
1	aklapper@openismus.com	65
2	arjan@linux.intel.com	61
3	auke-jan.h.kok@intel.com	49
4	ulf.hofemeier@linux.intel.com	47
5	peter.j.zhu@intel.com	43
6	yong.m.he@intel.com	36
7	patrick.ohly@intel.com	35
8	michaelh@openismus.com	34
9	carsten@maemo.org	32
10	fan.zhao@intel.com	32
11	ext-iekku.huttunen@nokia.com	30
12	joel.clark@intel.com	29
13	samuelc@qca.qualcomm.com	29
14	andy@plausible.org	27
15	rolla.n.selbak@intel.com	24
16	stephen.gadsby@gmail.com	24
17	shuang.wan@intel.com	21
18	christophe.dumez@intel.com	21
19	thiago@kde.org	19
20	Qingqing.Tu@elektrobit.com	19

MeeGo Wiki activity



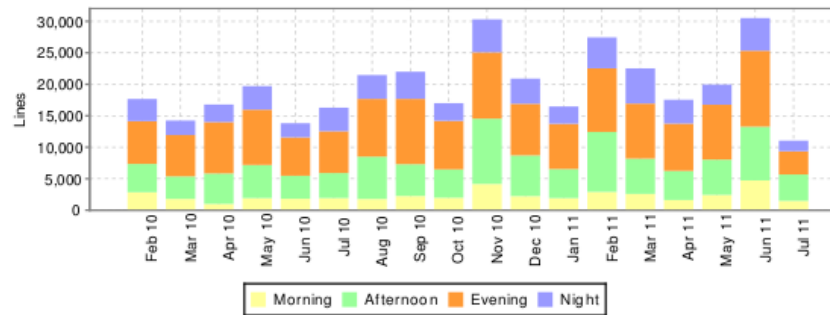
Top editors last month

Username	Edits
Shuanggeer	265
Noel	142
Ares2012	128
Jukkaeklund	101
Swift11	89
MarianneIv	56
Mikhas	53
Vesku	53
Xiaoqiang0	52
Worldcitizen	50

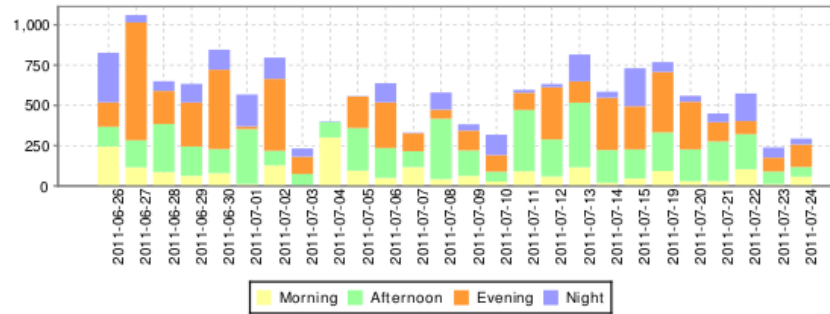
Top editors - all time

Username	Edits
Elliot	2,171
Kyber	1,273
Dawnfoster	1,162
Tgalvin	784
Qgil	713
Maxayu	626
Jukkaeklund	620
Asinnela	594
Texrat	585
Amigadave	488

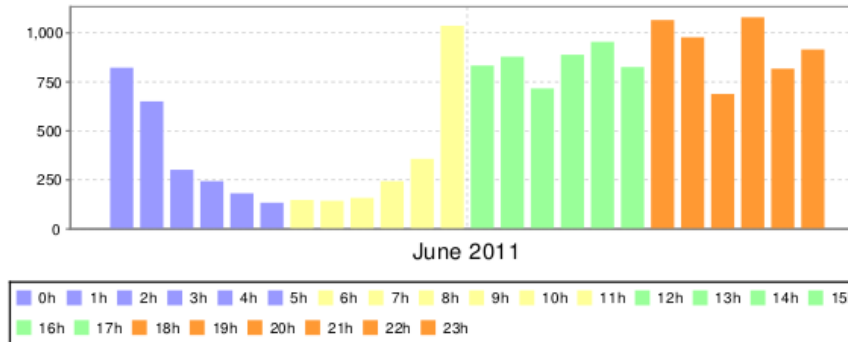
Monthly activity



Daily activity (last month)



Hourly activity (last month)



Now What?

- Report Regularly
 - Pick a period that makes sense for your project
- Share with the community
 - <http://wiki.meego.com/Metrics>
- Recognize your top contributors
- Use data to take action



<http://www.flickr.com/photos/play4smee/2439494411/>

Dawn Foster
MeeGo Community Manager for Intel



@geekygirl dawn

dawn.m.foster@intel.com

Dave Neary
Neary Consulting

@nearyd



dave@neary-consulting.com

Thank you to the many people who have contributed to the metrics

- Dave Neary for many helpful tips & for providing a lot of help with mailing list stats (mlstats)
- Reggie Suplido for automating forum stats:
<http://forum.meego.com/stats/>
- Carsten Munk for the IRC stats
- Stephen Gadsby for the bug jars:
<http://www.octofish.net/meegobugjar/>
- Mike Shaver for a variety of help
- Arjan Van De Ven for some Perl magic
- Adam Gretzinger for providing download data