

## Sakai

*Publisher's Note: In a January 8, 2007 email Sakai Board Member Clay Fenlason commented: "Also note that the Sakai analysis only goes back as far as the svn reorganization last April, and it's only for the modules that are included in the release."*

Sakai is an online Collaboration and Learning Environment. Many users of Sakai deploy it to support teaching and learning, ad hoc group collaboration, support for portfolios and research collaboration.

Sakai is a free and open source product that is built and maintained by the Sakai community. Sakai's development model is called "Community Source" because many of the developers creating Sakai are drawn from the "community" of organizations that have adopted and are using Sakai.




## Contributors

Over the history of the project, 43 developers have contributed code. However, only 42 have done so in the last year.

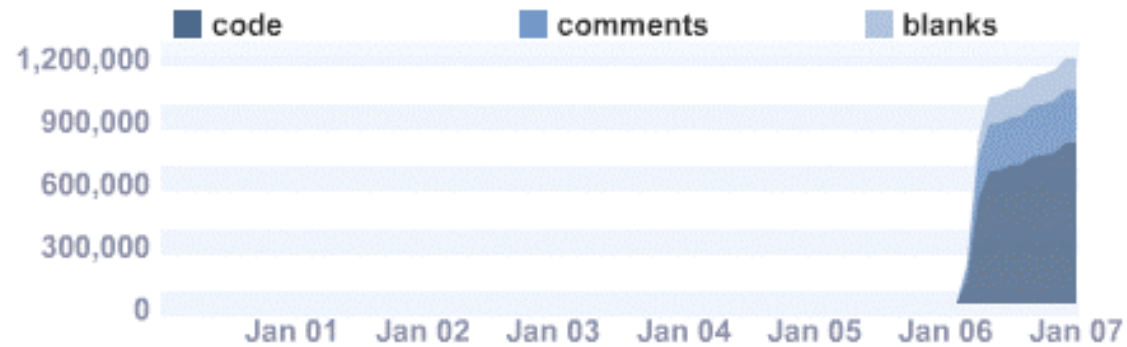
Contributor	Comment Ratio	Person Years	Primary Language	Lines modified
lance@indiana.edu	25.7%	0.8	Java	376,508
ggolden@umich.edu	46.0%	0.9	Java	366,120
ian@caret.cam.ac.uk	43.5%	0.8	Java	171,081
daisyf@stanford.edu	35.4%	0.8	Java	134,873
See More Below				

## Codebase

This project is enlisted in 63 repositories (see details). The source code repositories show that the project is 10 months old.

Languages	Licenses																									
<p>Ohloh analyzes the project source code and determines the language of each line of code, excluding comments and blanks.</p>	<p>The official license of this project is:</p>																									
<table><tr><td>Java</td><td>56%</td><td rowspan="11"></td></tr><tr><td>XML</td><td>18%</td></tr><tr><td>JavaScript</td><td>12%</td></tr><tr><td>HTML</td><td>11%</td></tr><tr><td>Other</td><td>2%</td></tr><tr><td>CSS</td><td>&lt;1%</td></tr><tr><td>PHP</td><td>&lt;1%</td></tr><tr><td>Perl</td><td>&lt;1%</td></tr><tr><td>Python</td><td>&lt;1%</td></tr><tr><td>shell script</td><td>&lt;1%</td></tr><tr><td>DOS batch script</td><td>&lt;1%</td></tr><tr><td>Ruby</td><td>&lt;1%</td></tr></table>	Java	56%		XML	18%	JavaScript	12%	HTML	11%	Other	2%	CSS	<1%	PHP	<1%	Perl	<1%	Python	<1%	shell script	<1%	DOS batch script	<1%	Ruby	<1%	<p>Educational Community License Additionally, Ohloh searches the source code for individual license declarations. These licenses can differ from the project's official license.</p>
Java	56%																									
XML	18%																									
JavaScript	12%																									
HTML	11%																									
Other	2%																									
CSS	<1%																									
PHP	<1%																									
Perl	<1%																									
Python	<1%																									
shell script	<1%																									
DOS batch script	<1%																									
Ruby	<1%																									
<p>Educational Community License</p>	<p>3138 files</p>																									
<p>Apache Software License</p>	<p>389 files</p>																									
<p>GNU Library or "Lesser" GPL</p>	<p>240 files</p>																									
<p>BSD-ish License</p>	<p>3 files</p>																									
<p>GNU General Public License</p>	<p>1 files</p>																									

## Codebase History



## Factoids











- Very large, active development team
- Short source control history
- Apache Software License may conflict with GPL

## Project Cost

This calculator estimates how much it would cost to hire a team to write this project from scratch.

Include:	Markup and Code
Codebase	772,195 LOC
Effort (est.)	209 Person Years
Avg. Salary	\$79,369
Total	\$16,570,091

## Contributors

Name	Activity (5 years)	Comment Ratio	Person Years	Main Language	Code Total
lance@indiana.edu		25.7%	0.8	Java	376,508
ggolden@umich.edu		46.0%	0.9	Java	366,120
ian@caret.cam.ac.uk		43.5%	0.8	Java	171,081
daisyf@stanford.edu		35.4%	0.8	Java	134,873
ray@media.berkeley.edu		37.9%	0.7	Java	92,083
jholtzman@berkeley.edu		41.8%	0.9	Java	57,981
clayf@bu.edu		5.9%	0.2	HTML	42,758
chmaurer@iupui.edu		35.6%	0.8	Java	38,135
ajpoland@iupui.edu		25.6%	0.5	Java	35,413
lydial@stanford.edu		41.2%	0.7	Java	23,871
marquard@ched.uct.ac.za		8.0%	0.7	HTML	18,199
josrodri@iupui.edu		34.2%	0.5	Java	16,389
cwen@iupui.edu		34.4%	0.8	Java	15,295
jimeng@umich.edu		50.9%	0.8	Java	14,342
ktsao@stanford.edu		29.3%	0.8	Java	10,146
gsilver@umich.edu		16.3%	0.7	CSS	8,743

john.ellis@rsmart.com		23.5%	0.7	Java	7,000
wagnermr@iupui.edu		9.3%	0.7	Java	6,439
csev@umich.edu		25.2%	0.5	Java	5,792
zqian@umich.edu		25.2%	0.8	Java	3,952
andersjb@iupui.edu		41.1%	0.7	Java	3,308
jlannan@iupui.edu		14.5%	0.2	Java	3,239
zach.thomas@txstate.edu		26.3%	0.3	Java	2,784
louis@media.berkeley.edu		26.2%	0.5	Java	2,435
s-githens@northwestern.edu		30.9%	0.3	Java	1,987
stephen.marquard@uct.ac.za		2.5%	0.2	HTML	1,911
bbiltimier@rsmart.com		5.6%	0.3	XML	1,398
andrew@caret.cam.ac.uk		26.2%	0.4	Java	1,337
joshua.ryan@asu.edu		39.5%	0.6	Java	1,334
bkirschn@umich.edu		29.2%	0.8	Java	1,048
hquinn@stanford.edu		27.0%	0.2	HTML	1,017
suiyy@umich.edu		34.9%	0.2	Java	769
jmpease@syr.edu		133.8%	0.1	Java	461
nuno@ufp.pt		13.1%	0.3	Java	214

dlhaines@umich.edu		29.6%	0.1	XML	108
m.gonzalez@lancaster.ac.uk		n/a	0.1	Java	77
njbotime@svsu.edu		n/a	0.1	Java	48
tnguyen@iupui.edu		n/a	0.1	Java	36
hedrick@rutgers.edu		n/a	0.2	Java	17
rwellis@umich.edu		n/a	0.1	Java	17
markjnorton@earthlink.net		n/a	0.1	Java	7
slt@columbia.edu		n/a	0.2	Java	3
jleasia@umich.edu		n/a	0.0	n/a	0

## Moodle

Moodle is a learning management system for producing Internet-based course Web sites. It is written in PHP and is easy to install and use on Linux, Windows, Mac OS X, SunOS, BSD, and Netware 6. It has been designed to support modern pedagogies based on social constructionist theory, and includes activity modules such as forums, chats, resources, journals, quizzes, surveys, choices, workshops, glossaries, lessons, and assignments. It has been translated into over 70 languages, with more on the way, and supports the popular SCORM standard for content packaging. Moodle offers a free alternative to commercial software such as WebCT or Blackboard, and is being used by a growing number of universities, schools, and independent teachers for distance education or to supplement face-to-face teaching.

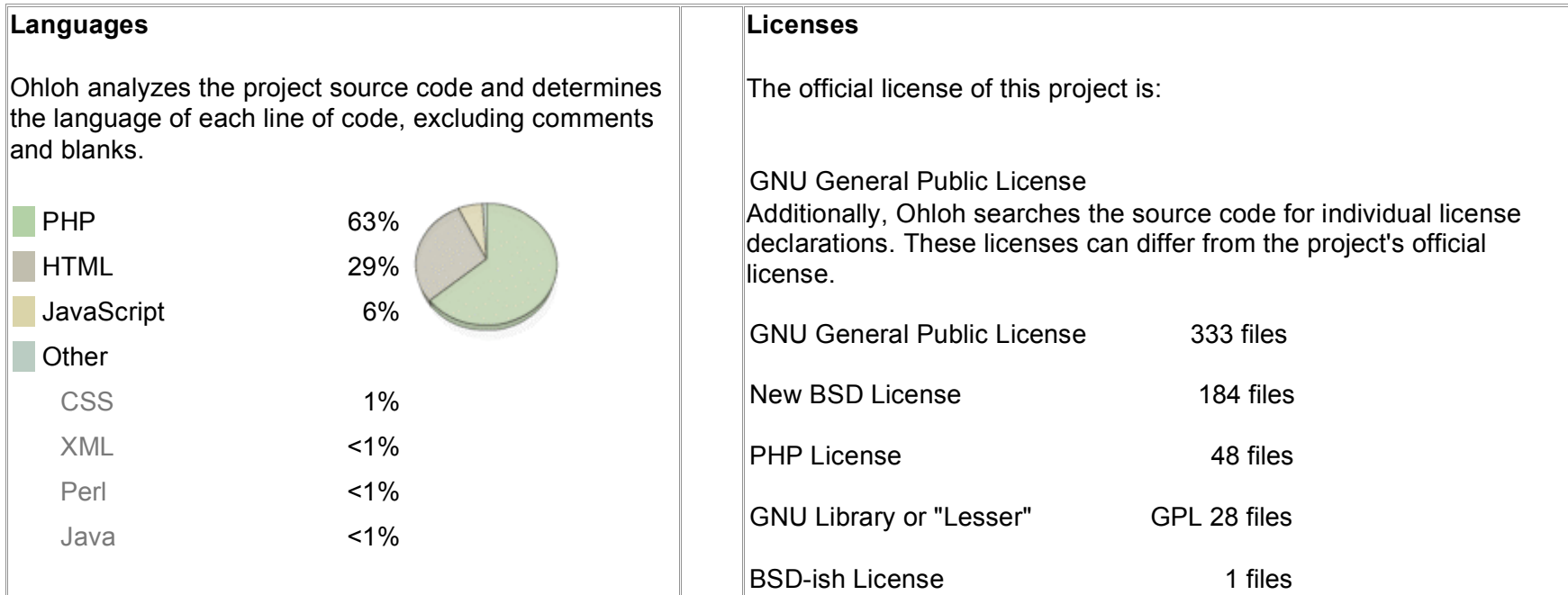
## Contributors

Over the history of the project, 115 developers have contributed code. However, only 70 have done so in the last year.

Contributor	Comment Ratio	Person Years	Primary Language	Lines modified
moodler	15.4%	4.2	PHP	667,594
stronk7	8.0%	3.8	PHP	399,669
koenr	1.3%	3.4	PHP	340,201
mits	2.6%	4.1	HTML	149,275
See More Below				

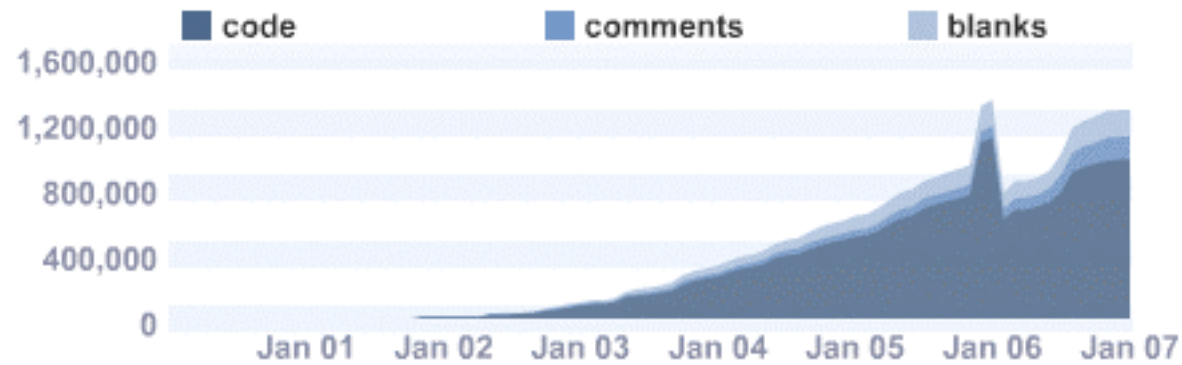
## Codebase

This project is enlisted in 2 repositories (see details). The source code repositories show that the project is over 5 years old.





## Codebase History



## Factoids

- Mature, well-established codebase
- Very large, active development team
- Few source code comments
- PHP License may conflict with GPL

## Project Cost

This calculator estimates how much it would cost to hire a team to write this project from scratch.

Include:	Markup and code
Codebase	970,262 LOC
Effort (est.)	265 Person Years
Avg. Salary	\$79,369 per year [based on Washington DC salaries, April 2005 <sup>1</sup>
Total	\$21,066,892




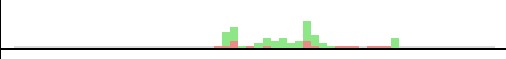



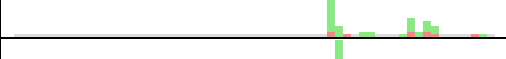




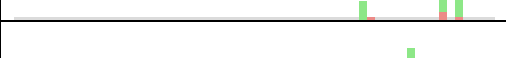
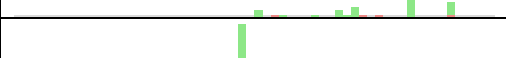






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<sup>1</sup> Based on data from the Bureau of Labor Statistics for Computer Analyst and Scientists for the Washington-Baltimore Metropolitan area. The Washington-Baltimore average from the April 2005 survey was \$78,304 based on \$38.03 per hour and working 2,059 hours per year. The national average from the September 2005 survey was \$35.28 per hour for \$72,642 per year. At the same times, average salaries for university and college (postsecondary) teachers was \$56,616 in the Washington-Baltimore area and \$68,123 nationally based on working an average 1,585 hours per year.

## Contributors

115 Total

Name	Activity (5 years)	Comment Ratio	Person Years	Main Language	Code Total
moodler		15.4%	4.2	PHP	667,594
stronk7		8.0%	3.8	PHP	399,669
koenr		1.3%	3.4	PHP	340,201
mits		2.6%	4.1	HTML	149,275
julmis		6.9%	2.4	HTML	76,165
gustav_delius		24.3%	2.5	PHP	74,159
martin		16.6%	0.9	PHP	58,864
mjollnir_		2.5%	2.1	HTML	56,667
bobopinna		5.2%	3.2	PHP	44,358
gbateson		18.2%	1.1	PHP	40,825
skodak		24.3%	2.1	PHP	36,485
martignoni		1.5%	3.2	HTML	35,686
ralf-bonn		1.2%	1.7	HTML	35,277
vyshane		74.1%	0.9	JavaScript	30,962
paca70		6.0%	2.8	PHP	30,783
scop22		1.3%	1.0	PHP	30,680

toyomoyo		16.5%	1.2	PHP	21,774
adamtpaw		1.0%	1.4	HTML	21,473
andreabix		1.1%	1.7	HTML	20,830
defacer		11.8%	1.8	PHP	20,812
carlesbellver		2.0%	2.9	PHP	19,795
thepurpleblob		18.9%	2.7	PHP	19,582
ethem		7.4%	1.8	PHP	18,903
rcantada		1.9%	1.0	HTML	18,408
lonecatz		1.0%	1.3	PHP	17,522
giro123		0.4%	0.8	HTML	17,249
rkingdon		11.6%	1.4	PHP	17,245
andre_bln		5.0%	0.5	HTML	16,394
tomaz		0.5%	0.3	HTML	16,112
papita		1.4%	0.9	HTML	16,032
kowski		2.1%	1.0	PHP	15,739
barias		1.8%	2.4	PHP	15,236
urs_hunkler		13.2%	1.5	CSS	14,819
tjhunt		67.8%	0.8	PHP	14,784
villate		1.0%	1.5	PHP	14,570
compuproggy		0.3%	0.7	HTML	13,578

miksik		0.6%	0.8	HTML	13,502
ueu_ueu		1.3%	0.4	PHP	13,477
jamiesensei		61.5%	0.3	PHP	11,649
michaelpenne		11.8%	1.5	PHP	11,562
dhawes		72.8%	1.2	PHP	10,961
andersbe		0.2%	0.2	HTML	10,752
willcast		7.0%	0.5	PHP	9,087
yogibear270		1.9%	0.4	HTML	8,942
gniske		2.3%	1.0	PHP	8,420
martinlanghoff		27.0%	2.0	PHP	8,377
mudrd8mz		6.4%	1.4	PHP	7,873
stigbjarne		0.7%	0.4	HTML	7,629
nfreear		42.7%	0.8	PHP	5,703
havran		3.1%	0.2	PHP	5,554
coolbit		0.8%	0.3	HTML	5,005
lashaalt		1.3%	0.2	PHP	4,816
mchampan		76.0%	0.3	PHP	4,813
phoenixfr		52.0%	0.2	PHP	4,524
aredkin		1.6%	0.4	PHP	4,371
vthung		0.1%	1.2	HTML	4,327

anvergara		1.0%	0.9	HTML	4,316
komlenov		2.7%	0.2	PHP	4,234
kaipe		16.1%	1.0	PHP	3,549
danmarsden		12.4%	0.9	PHP	3,512
dlnsk		1.2%	1.2	HTML	3,438
mark-nielsen		30.9%	0.6	PHP	3,313
vinkmar		16.8%	0.2	PHP	3,025
les_kopari		0.8%	0.2	HTML	2,693
drabureesh		3.3%	0.4	PHP	2,255
mindforge		7.3%	0.4	HTML	2,216
fiedorow		10.2%	0.8	PHP	2,169
patricklee		2.7%	0.9	PHP	2,072
flipman		0.7%	0.2	PHP	1,924
dovix		2.2%	0.4	PHP	1,910
mchurch		12.7%	0.9	PHP	1,632
palojacko		1.0%	0.2	PHP	1,468
skaldrom		3.9%	0.2	PHP	1,462
ikawhero		5.9%	1.2	PHP	1,433
ahmed_nabil		0.6%	0.1	PHP	1,422
hansdezwart		0.3%	0.1	PHP	1,213

andro-bg		0.4%	0.1	PHP	1,095
selllott		2.6%	0.6	PHP	1,058
c_schmitz		0.0%	0.5	HTML	1,055
djachenko		1.9%	0.8	PHP	1,016
wildgirl		30.7%	0.2	PHP	854
borinsky2407		0.6%	0.2	PHP	787
sam_marshall		32.2%	0.6	PHP	699
solveigb		2.7%	0.1	PHP	671
johncaptain		0.0%	0.3	HTML	654
cap2501		9.0%	0.2	PHP	633
danstowell		13.1%	0.5	PHP	620
trobb		16.2%	0.2	PHP	606
aszora		1.5%	0.1	PHP	605
thompson697		13.4%	0.2	PHP	588
danielfetzer		0.0%	0.2	PHP	568
thetrinity		18.1%	0.2	PHP	524
jgraham909		21.5%	0.2	PHP	488
tormoda		1.7%	0.2	PHP	458
jpuntd		14.3%	0.2	PHP	357
moquist		5.0%	0.2	PHP	302

uermelin		0.3%	0.2	PHP	291
sunner_sun		7.4%	0.4	PHP	256
mikewaters		51.8%	0.1	PHP	193
gregb_cc		7.4%	0.4	PHP	188
tomflannaghan		15.9%	0.2	PHP	176
exe-cutor		31.6%	0.8	PHP	152
jungwirr		0.7%	0.3	PHP	135
bawjaws		11.2%	0.2	PHP	125
ecastrolt		n/a	0.2	PHP	59
lapsa		n/a	0.1	HTML	46
dwoolhead		n/a	0.3	PHP	27
zibas		n/a	0.1	PHP	25
csantossaenz		n/a	0.1	HTML	17
fyang1024		n/a	0.2	PHP	17
mathusiast		n/a	0.2	PHP	13
set_lo		n/a	0.1	PHP	6
mbojanks		n/a	0.1	HTML	3
anthonyforth		n/a	0.0	n/a	0
rtc2		n/a	0.0	n/a	0



## Endnotes

	Sakai		Moodle	
	Amount	Percent		
Lines of code	772,195		970,262	
Code	528,492	68.4%	672,442	69.3%
Markup	243,703	31.6%	297,820	30.7%
Person-years	208.78		265.43	
Code	144.62	69.3%	186.24	70.2%
Markup	64.16	30.7%	79.19	29.8%
Estimated cost	\$16,570,091		\$21,066,892	
Code	\$11,478,133		\$14,781,499	
Markup	\$5,091,958		\$6,285,393	

Based on an annual compensation of \$79,369 for computer analysts and scientists in the Washington-Baltimore metropolitan area.

	Compensation, Washington DC		Compensation, National		
	Hourly	Annual	Hourly	Annual Hours	Annual
Computer systems analysts and scientists	38.03	<b>79,369</b>	35.28	2,087	73,724
Teachers, colleges and universities	35.72	56,902	42.98	1,593	69,580

Regional hourly compensation from Table 2.1, "Washington–Baltimore, DC–MD–VA–WV National Compensation Survey April 2005," Bureau of Labor Statistics, U.S. Department of Commerce, 7 December 2005.

National data from Tables 1.1 and 4.2., "National Compensation Survey: Occupational Wages in the United States, June 2005 Supplementary Tables," Bureau of Labor Statistics, U.S. Department of Commerce, 17 July 2006.

	Compensation, National	
	Metropolitan	Non-metropolitan
Computer systems analysts and scientists	35.48	28.30
Teachers, colleges and universities	43.89	37.46

Data from Table 4.2, "National Compensation Survey: Occupational Wages in the United States, June 2005," Bureau of Labor Statistics, U.S. Department of Labor, 7 December 2005.

	Compensation, National		Compensation, Part-time	
	Full-time	Part-time	Hours per week	Annual
Computer systems analysts and scientists	35.33	31.87	26.0	43,088
Teachers, colleges and universities	43.69	31.38	11.4	18,602

Data from Table 2.1, "National Compensation Survey: Occupational Wages in the United States, June 2005," Bureau of Labor Statistics, U.S. Department of Labor, 7 December 2005.

Earnings (Hourly; Compensation) is defined as "The National Compensation Survey defines hourly earnings as the straight-time hourly wages or salaries paid to employees. They include incentive pay (commissions, piece rate payments, and production bonuses), cost-of-living adjustments, hazard pay, and payments for income deferred due to participation in a salary reduction plan. Excluded are premium pay for overtime, holidays, and weekends, shift differentials, draws, nonproduction bonuses, tips, and uniform and tool allowances. From "Glossary of Compensation Terms," Bureau of Labor Statistics, U.S. Department of Labor, August 1998, page 18.

Workweek (Work Schedule) is defined as "Usually, the expected or actual period of employment for the week, usually expressed in number of hours. Some uses of the term may relate to the outside dimensions of a week (e.g., 7 consecutive days). Glossary, page 73.

**Date:** Mon, 08 Jan 2007 10:32:34 -0500  
**From:** Clay Fenlason <clayf@bu.edu>  
**Subject:** Ohloh metrics for Sakai development  
Sender: khomotso@gmail.com  
To: sakai-dev Dev <sakai-dev@collab.sakaiproject.org>,  
advocacy <advocacy@collab.sakaiproject.org>

Ohloh offers a free service to analyze open source code repositories for development metrics. Our own Seth Theriault has done the necessary work to set up Sakai for analysis, and the analysis for all the modules was finally completed over the weekend. You can see the results here:

<http://www.ohloh.com/projects/3551>

It's interesting to compare this with Moodle:

<http://www.ohloh.com/projects/25>

~Clay

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This automatic notification message was sent by Sakai Collab (<https://collab.sakaiproject.org/portal>) from the DG: Strategy & Advocacy site. You can modify how you receive notifications at My Workspace > Preferences.

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Return-path: <postmaster@collab.sakaiproject.org>  
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by GUMail.georgetown.edu (iPlanet Messaging Server 5.2 HotFix 1.21 (built Sep 8 2003)) with ESMTPS id <0JBK00AJR3S8WR@GUMail.georgetown.edu> for jxf@imap.georgetown.edu; Mon, 08 Jan 2007 10:45:47 -0500 (EST)  
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Received: by 10.65.93.17 with HTTP; Mon, 08 Jan 2007 07:32:34 -0800 (PST)

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MIME-version: 1.0

Content-type: text/plain; format=flowed; charset=ISO-8859-1

Content-transfer-encoding: 7bit

Content-disposition: inline

DomainKey-Signature: a=rsa-sha1; q=dns; c=noaws; s=beta; d=gmail.com;

h=received:message-id:date:from:sender:to:subject:mime-version:content-

type:content-transfer-encoding:content-disposition:x-google-sender-auth;

b=IG/JVfcd96Icg5jzPKgwNtoXlgo9SZCdRIA06cGoiywWkdzb4V7ir1LVOAiC0QFyRmTTH/bGPMOhdJ  
ESxVWVdrwykLl8g8turE3UFmAgp9OSE8/fzgBZyy pcs+HWvh1YLf8CgFJCwzlkwyNh+MN2LcXfMxa9bT  
Ste/RMXFtHdlE=

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X-Google-Sender-Auth: 770eel57605bf1a6

X-Content-Type-Message-Body: text/plain; charset=ISO-8859-1; format=flowed

X-GU-FilterVersion: 1.29

X-Scanned-By: MIMEDefang 2.39

Original-recipient: rfc822;jxf@imap.georgetown.edu

Date: Mon, 08 Jan 2007 10:35:23 -0500  
From: Clay Fenlason <clayf@bu.edu>  
Subject: Re: Ohloh metrics for Sakai development  
In-reply-to: <be5dfc6d0701080732i6ad5dfacg3b92b371db105112@mail.gmail.com>  
Sender: khomotso@gmail.com

Also note that the Sakai analysis only goes back as far as the svn reorganization last April, and it's only for the modules that are included in the release.

~Clay

-----  
This automatic notification message was sent by Sakai Collab (<https://collab.sakaiproject.org/portal>) from the DG: Strategy & Advocacy site. You can modify how you receive notifications at My Workspace > Preferences.

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Return-path: <postmaster@collab.sakaiproject.org>  
Received: from uis-gumail-10-stage2.georgetown.edu (ext-postoffice-3.georgetown.edu [141.161.88.219]) by GUMail.georgetown.edu (iPlanet Messaging Server 5.2 HotFix 1.21 (built Sep 8 2003)) with ESMTPS id <0JBK00AGU3T5X8@GUMail.georgetown.edu> for jxf@imap.georgetown.edu; Mon, 08 Jan 2007 10:46:18 -0500 (EST)  
Received: from uis-gumail-10.georgetown.edu (ext-postoffice-3.georgetown.edu [141.161.88.219]) by uis-gumail-10-stage2.georgetown.edu (8.13.6/8.12.10) with ESMTTP id 108FkE3E009163 for <jxf@imap.georgetown.edu>; Mon, 08 Jan 2007 10:46:14 -0500 (EST)  
Received: from lennier.cc.vt.edu (lennier.cc.vt.edu [198.82.162.213]) by uis-gumail-10.georgetown.edu (8.13.6/8.12.10) with ESMTTP id 108FkAia009130 (version=TLSv1/SSLv3 cipher=DHE-RSA-AES256-SHA bits=256 verify=NO) for <jxf@Georgetown.edu>; Mon, 08 Jan 2007 10:46:11 -0500 (EST)  
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Received: from nz-out-0506.google.com ([64.233.162.233]) by pompom.cc.vt.edu (JAMES SMTP Server 2.1.3) with SMTP ID 512 for <advocacy@collab.sakaiproject.org>; Mon, 08 Jan 2007 10:35:24 -0500 (EST)  
Received: by nz-out-0506.google.com with SMTP id m7so3647720nzf for <advocacy@collab.sakaiproject.org>; Mon, 08 Jan 2007 07:35:23 -0800 (PST)  
Received: by 10.65.180.7 with SMTP id h7mr2483051qbp.1168270523823; Mon, 08 Jan 2007 07:35:23 -0800 (PST)  
Received: by 10.65.93.17 with HTTP; Mon, 08 Jan 2007 07:35:23 -0800 (PST)  
  
To: sakai-dev Dev <sakai-dev@collab.sakaiproject.org>, advocacy <advocacy@collab.sakaiproject.org>  
Message-id: <be5dfc6d0701080735y2917859ere261ee6675fc38af@mail.gmail.com>  
MIME-version: 1.0  
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google-sender-auth;

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X-GU-FilterVersion: 1.29

X-Scanned-By: MIMEDefang 2.39

References: <be5dfc6d0701080732i6ad5dfacg3b92b371db105112@mail.gmail.com>

Original-recipient: rfc822;jxf@imap.georgetown.edu