

**Table 1: Description of the 49 projects and their method-level statistics. In total, 785,606 Java methods were extracted. Getters and setters and methods that are younger than 2 years are excluded. Snapshot SHAs are included to aid reproducibility.**

Repository	# Methods	# Revisions (avg)	# Getters-Setters	Age $\geq$ 2 Years	# Used Methods	Snapshot
hadoop	70,524	1.8	11,219	63,378	53,729	4c5cd7
elasticsearch	63,253	3.7	8,875	39,085	34,641	92be38
flink	38,482	1.9	6,790	19,967	15,792	261e72
presto	37,639	1.9	8,520	26,785	20,766	bb20eb
lucene-solr	37,600	1.6	5,625	29,287	24,641	b457c2
hbase	37,414	3.2	5,757	31,469	26,435	3bd542
docx4j	36,543	2.2	19,951	28,058	12,562	36c378
intellij-community	36,387	3.6	5,408	28,777	24,383	cdf2ef
weka	35,824	1.7	10,513	32,452	22,999	a22631
hazelcast	35,609	2.7	7,876	24,026	18,113	a59ad4
spring-framework	27,093	2.4	5,735	24,012	18,614	1984cf
hibernate-orm	25,290	2.5	5,700	24,003	18,478	2c12ca
eclipseJdt	22,230	3.0	2,103	21,466	19,416	475591
jclouds	21,478	1.7	3,551	21,325	17,783	7af4d8
guava	21,195	1.1	499	20,691	20,194	e35207
sonarqube	20,907	3.1	4,155	17,266	13,874	6b806e
wildfly	19,980	2.2	3,840	17,499	14,148	f21f5d
netty	17,089	2.1	639	15,685	15,103	662e0b
cassandra	16,271	1.6	1,015	12,917	12,039	7cdad3
argouml	12,775	3.4	1,790	12,775	10,985	fcbe6c
jetty	10,743	2.2	2,653	9,672	7,274	fc5dd8
voldemort	10,654	1.8	2,246	10,255	8,105	a7dbde
spring-boot	10,495	2.6	3,083	7,491	5,221	199cea
wicket	10,260	4.9	2,175	9,712	7,601	e3f370
ant	9,837	2.0	3,073	9,469	6,537	1ce1cc
mongo-java-driver	9,735	3.4	1,578	7,713	6,405	8ab109
jgit	9,615	1.4	1,479	8,652	7,334	855842
pmd	9,037	3.2	1,211	6,787	5,871	d115ca
xerces2-j	8,335	1.4	1,585	8,335	6,750	cf0c51
RxJava	8,332	3.7	59	7,600	7,553	880eed
javaparser	6,324	3.4	777	5,744	5,029	8f25c4
openmrs-core	6,108	2.2	2,084	5,846	3,851	c5928a
hibernate-search	5,391	3.2	913	3,397	2,786	5b7780
titan	4,654	2.2	487	2,014	1,792	ee226e
facebook-android-sdk	3,770	2.5	460	3,104	2,676	fb1b91
checkstyle	3,347	3.8	955	2,956	2,105	164a75
commons-lang	2,964	3.7	214	2,801	2,600	f69235
lombok	2,852	2.5	133	2,461	2,346	4fdcdd
atmosphere	2,681	2.4	328	2,675	2,347	fadfb0
jna	2,653	2.3	354	2,416	2,091	b8443b
Essentials	2,412	3.1	351	2,166	1,874	d36d80
junit5	2,181	2.7	205	1,345	1,204	be2aa2
okhttp	1,970	4.7	151	1,567	1,422	5224f3
hector	1,963	1.7	517	1,934	1,432	a302e6
mockito	1,526	4.2	144	1,221	1,113	077562
cucumber-jvm	1,222	2.7	170	435	374	b57b92
commons-io	1,149	3.1	85	952	884	11f0ab
vraptor4	934	1.7	132	933	801	593ce9
junit4	879	3.1	56	856	801	50a285
<b>Total</b>	<b>785,606</b>				<b>520,874</b>	