

A list of metrics for similar analysis

Index	Name	Description	Used
0	cbo	coupling between objects	N
1	cbomodified	coupling between object	N
2	fanin	counts the number of input dependencies a class has	N
3	fanout	counts the number of output dependencies a class has	Y
4	wmc	it counts the number of branch instructions in a class.	N
5	dit	depth inheritance tree	Y
6	noc	number of children	N
7	rfe	counts the number of unique method invocations in a class	N
8	lcom	lack of cohesion of methods	N
9	numberofmethods	counts the number of methods.	N
10	numberofstaticmethods	counts the number of static methods	N
11	numberofpublicmethods	counts the number of public methods	N
12	numberofprivatemethods	counts the numberof private methods	Y
13	numberofprotectedmethods	counts the numberof protected methods	N
14	numberofdefaultmethods	counts the numberof default methods	Y

15	visiblemethods().size()	counts the number of visible methods.	N
16	numberofabstractmethods	counts the numberof abstract methods	N
17	numberoffinalmethods	counts the numberof final methods	N
18	numberofsynchronizedmethods	counts the numberof synchronized methods	N
19	numberoffields	counts the numberof fields	N
20	numberofstaticfields	counts the numberof static fields	N
21	numberofpublicfields	counts the numberof public fields	N
22	numberofprivatefields	counts the numberof private fields	N
23	numberofprotectedfields	counts the numberof protected fields	N
24	numberofdefaultfields	counts the numberof default fields	N
25	numberoffinalfields	counts the numberof final fields	N
26	numberofsynchronizedfields	counts the numberof synchronized fields	N
27	nosi	counts the number of invocations to static methods.	N
28	loc	it counts the lines of count, ignoring empty lines and comments.	N

29	returnqty	the number of return instructions.	N
30	loopqty	the number of loops	Y
31	comparisonsqty	the number of comparisons (i.e., == and !=).	N
32	trycatchqty	the number of try/catches	Y
33	parenthesizedexps qty	the number of expressions inside parenthesis.	N
34	stringliteralsqty	the number of string literals (e.g., "john doe").	N
35	numbersqty	the number of numbers (i.e., int, long, double, float) literals.	N
36	assignmentsqty	the number of assignments	N
37	mathoperationsqty	the number of mathoperations	N
38	variablesqty	the number of variables	N
39	maxnestedblocks	the highest number of blocks nested together.	N
40	anonymousclasses qty	quantity of anonymous classes, inner classes, and lambda expressions	N
41	innerclassesqty	the number of the number of inner classes	N
42	lambdasqty	the number of lambdas	N
43	uniquewordsqty	number of unique words in the source code.	N
44	modifiers	public/abstract/private/protected/native modifiers of classes/methods.	N

45	number of log statements	number of log statements in the source code.	N
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Tips:

The table above refers to the content of M. Aniche, ‘Java code metrics calculator (CK)’, 2015.(<https://github.com/mauricioaniche/ck/>)

Column *Used* is Y means we used this metric to conduct a *similar analysis*, and we do not use this metric when *Used* is N.