A Metrics Suite for Object Oriented Design
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Was the article interesting?

Purpose of the article?

Metric 1: Weighted Methods per class (WMC)

Metric 2: Depth of Inheritance Tree (DIT)

Metric 3: Number of Children (NOC)
Metric 4: Coupling between objects (CBO)

- A count of the number of other classes to which it is coupled
- “methods of one use methods or instance variables of another.”

Metric 5: Response for a class (RFC)

- RFC is the cardinality of the response set, RS, for a class
- RS is the set of methods in a class and the set of methods called by those methods

Metric 6: Lack of Cohesion in Methods (LCOM)

Weyuker’s Nine Properties

- 1(1). Noncoarseness – not all values are the same
- 2(2). Granularity – finite number of any value
- 3(3). Nonuniqueness – not all values are different
- 4(4). Design details are important – there are two classes with the same functionality that have different values
- 5(5). Monotonicity – adding two classes must not decrease the value
- 6(6). Nonequivalence of interaction – there are classes that even though P and Q have the same value, adding R to each will result in different values
- 7(7). Permutation – there exist systems whose value will change when the order of statements change
- 8(8). Renaming – changing the names should not change the value
- 9(9). Interaction increases complexity – there are P and Q such that the value of P;Q is greater than the sum of the value of P and value of Q
Contribution of article?

Was the article useful?

For Thursday

- Outline Chidamber’s development and validation
- Is the validation acceptable?
- Read Chidamber’s 1998 paper