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| **Metric** | **Full Name** | **Calculation for Java classes in ‘Understand’** |
| **CBO** | Coupling Between Objects | Number of other classes invoked from this class. The following do not contribute towards the CBO calculation:   * Coupling to classes in external dependencies. * Classes wired through dependency injection (e.g. using frameworks such as spring). * Coupling to interfaces. * Inner static or non-static classes where are coupled to the outer classes. |
| **DIT** | Depth of Inheritance tree | Number of parent classes in total. The following do not contribute towards the DIT calculation:   * Implemented interfaces. * The inheritance tree of extended external dependencies. For example my.CustomException extending java.lang.Exception extending java.lang.Throwable will return a DIT value of 2 for CustomException rather than a value of 3 which would otherwise be returned if the entire dependency tree was traversed. |
| **LCOM** | Lack of Cohesion of Methods | For each member variable calculate the percentage of methods which do not access that variable. Average the percentages to determine LCOM. Visibility modifiers and the static keyword do not affect the calculation here. |
| **NOC** | Number Of Children | Count of other classes that directly extend it. Implemented inner classes do not contribute to this number. |
| **RFC** | Response For a Class | Number of total methods including all methods in parent classes (regardless of invocation or visibility). |
| **WMC** | Weighted Methods per Class | Count of all methods in that class only (regardless of invocation, visibility, and instance or static). |