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Measures Of

Complexity

# Object Oriented Metrics Measures Of Complexity

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solutions for you to be successful. As understood, realization does not suggest that you have fantastic points.

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complexity can be  
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picked to act.

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## **Object Oriented Metrics Measures Of**

Object-oriented (OO) metrics are an integral part of object technology at the research level and in commercial software development projects. This book offers theoretical and empirical tips and facts for creating an OO complexity metrics (measurement) program, based on a

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review of existing  
research from the last  
several years.

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**Object-Oriented  
Metrics: Measures of  
Complexity:  
Henderson ...**

SDMetrics - List of  
object-oriented metrics  
and OO measures.

SDMetrics - the  
software design  
measurement tool for  
the UML. SDMetrics  
calculates structural  
design quality metrics

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such as coupling, size, complexity for UML designs. XML import.

## **SDMetrics - List of object-oriented metrics and OO measures**

Object Oriented Metrics in Software

Engineering. Lines of code and functional point metrics can be used for estimating object-oriented software projects.

However, these metrics

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are not appropriate in the case of incremental software development as they do not provide adequate details for effort and schedule estimation.

**Object Oriented Metrics in Software Engineering | Computer ...**

Object oriented metrics are used to measure properties of object oriented designs.

Metrics are a means for

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attaining more accurate estimations of project milestones, and developing a software system that contains minimal faults.

### **An overview of Object Oriented Design Metrics**

Based on M's as methods and A's as instance variables both of the above graphs of classes derive an LCOM measure of 8. However it seems clear that the



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graph on the right is a lot more intuitively cohesive. ... [HEN 96]  
Henderson-Sellers, B.,  
Object-oriented metrics  
: measures of  
complexity, ...

## **Object-Oriented Metrics: LCOM**

In 1994 Robert "Uncle Bob" Martin proposed a group of object-oriented metrics that are popular until now. Those metrics, unlike other object-oriented

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ones don't represent the full set of attributes to assess individual object-oriented design, they only focus on the relationship between packages in the project.

**Object-oriented metrics by Martin | Kariera Future Processing**

The MOOD (Metrics for Object oriented Design) set of metrics of Abreu and [Abreu

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and Melo, 1996]

operate at System

level. They refers to a

basic structural

mechanism of the OO

paradigm as

encapsulation(MHF and

AHF), inheritance(MIF

and AIF),

polymorphishm. (PF)

and message-

passing(COF). The set

of metrics are:

## **An Overview of Object-Oriented Design Metrics**

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Coupling: Is a measure of the strength of the connection between any two system components such as classes. Interfaces:

These are lists of methods. Inheritance:

Is the process by which one object acquires characteristics from one or more other objects. Message:

Means of communication and interaction between objects.

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**Object-Oriented  
Metrics |  
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Deutsch; Italiano

**Source Code Metrics  
- QA Systems**

Cohesion measures how strongly the responsibilities within a code unit are related. The rationale behind measuring cohesion is the belief that code

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units, such as source files or classes, should focus on just one thing, and that doing so will improve maintainability.

Inheritance-based metrics only apply to object-oriented code.

**Code Metrics - an overview |**

**ScienceDirect Topics**

A Metrics Suite for Object-Oriented Design was introduced by Chidamber and

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Kemerer in 1994

focusing, as the title suggests, on metrics specifically for object-oriented code. They introduce six OO complexity metrics; weighted methods per class, coupling between object classes, response for a class, number of children, depth of inheritance tree ...

**Programming  
complexity -**

*Page 15/24*

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## **Wikipedia**

The Measure-Object cmdlet performs calculations on the property values of objects. You can use Measure-Object to count objects or count objects with a specified Property. You can also use Measure-Object to calculate the Minimum, Maximum, Sum, StandardDeviation and Average of numeric values.



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**Measure-Object (Microsoft.PowerShell.Utility) - PowerShell ...**

Object - oriented metrics - Conventional software project metrics (LOC or FP) can be used to estimate object - oriented software projects. - However, these metrics do not provide enough granularity for the schedule and effort adjustments that are required as we iterate through an

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evolutionary or  
incremental process.

Use - case oriented  
metrics

## **Size oriented metrics - Definition - Evaluating Products**

...

Once measures are collected they are converted into metrics for use. IEEE defines metric as 'a quantitative measure of the degree to which a system, component,

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or process possesses a given attribute.† The

goal of software metrics is to identify and control essential parameters that affect software development.

Other objectives of using software metrics are listed below.

## **Software Metrics in Software**

### **Engineering |**

### **Computer Notes**

As the diagram shows,

Class A is dependent

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on four other classes -  
Class C, X, Y, and

Z. Meanwhile, there is a  
single class - Class B -  
that depends on Class  
A. In this case, the  
efferent coupling of  
Class A has a value of  
4, while the value of its  
afferent coupling is 1.  
Instability. Instability is  
a metric used to  
measure the relative  
susceptibility of a  
component to breaking  
changes.

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**The basics of  
software coupling  
metrics and  
concepts**

Victor Basili, Lionel  
Briand and Walcélio  
Melo: A Validation of  
Object-Oriented Design  
Metrics as Quality  
Indicators. IEEE  
Transactions on  
Software Engineering.  
Vol. 22, No. 10,  
October 1996. Bindu S.  
Gupta: A Critique of  
Cohesion Measures in  
the Object-Oriented

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Paradigm. Master of  
Science Thesis.

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## **Project Metrics Help**

### **- Cohesion metrics**

Research findings in the field of software measurement are thoroughly reviewed. Both traditional and object-oriented product metrics are examined. Methods for determining the mathematical validity of metrics are assessed in the

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chapter on "A Rigorous Approach to Metrics".

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**Amazon.com:**

**Customer reviews:**

**Object-Oriented Metrics ...**

It is a quantitative measure of the number of linearly independent paths through a program's source code. It was developed by Thomas J. McCabe, Sr. in 1976.

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