



# NDepend Metrics Cheat Sheet

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Assembly 

Type 

Method 

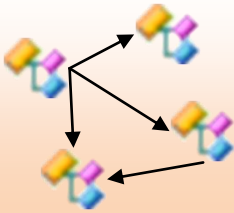
## Coupling

Afferent Coupling (Ca)



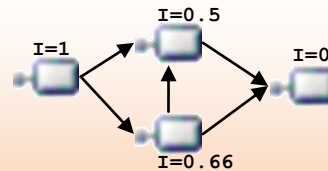
Efferent Coupling (Ce)

## Relational Cohesion



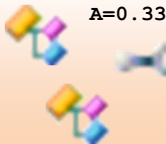
Internal Relationships (R),  
Number of Types (T):  
Relational Cohesion = (R+1)/T  
here: (4+1)/4 = 1.25

## Instability



Instability (I) = Ce / (Ce + Ca)

## Abstractness



Abstractness (A) =  
(Abstract classes + Interfaces) /  
Total number of Types

„Balanced“

Assembly:  
A + I = 1

High CC:  
Polymorphism is  
far away

## Cyclomatic Complexity



Count of  
if, while, for, foreach, case, default,  
continue, goto, &&, ||, catch, ?:, ??

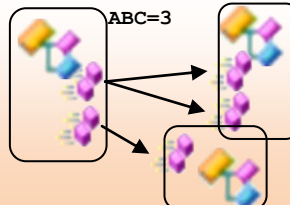
## Lack of Cohesion of Methods (LCOM)



M: Methods in type  
F: instance fields in class  
MF: Number of methods accessing a  
specific field  
LCOM = 1 - (sum(MF) / M \* F)

High LCOM: Type  
may have numerous  
responsibilities

## Association between classes (ABC)



Count of members of a  
type that use members  
of other types

And numerous other metrics like counts,  
inheritance trees, dependency metrics & more:

<http://www.ndepend.com/Metrics.aspx>