

JDepend Analysis

1 Summary

Package	Total Classes	Abstract Classes	Concrete Classes	Afferent Couplings	Efferent Couplings	Abstractness	Instability	Distance
org.fanfoot.db	5	0	5	2	6	0	0.75	0.25
org.fanfoot.gui	1	0	1	0	8	0	1	0
org.fanfoot.prefs	1	0	1	1	1	0	0.5	0.5
org.fanfoot.sourcing	10	1	9	1	6	0.1	0.86	0.04
org.apache.commons.validator	No stats available: package referenced, but not analyzed.							
org.apache.xpath	No stats available: package referenced, but not analyzed.							
org.saafefoundation.util	No stats available: package referenced, but not analyzed.							
org.saafefoundation.prefs	No stats available: package referenced, but not analyzed.							
org.saafefoundation.util	No stats available: package referenced, but not analyzed.							
org.saafefoundation	No stats available: package referenced, but not analyzed.							
org.w3c.dom	No stats available: package referenced, but not analyzed.							
org.xml.sax	No stats available: package referenced, but not analyzed.							
org.xmldb.api	No stats available: package referenced, but not analyzed.							
org.xmldb.objects	No stats available: package referenced, but not analyzed.							
org.xmldb.parsers	No stats available: package referenced, but not analyzed.							

2 Packages

2.1 org.fanfoot.db

Afferent Couplings : 2	Efferent Couplings : 6	Abstractness : 0	Instability : 0.75	Distance : 0.25
Abstract Classes	Concrete Classes	Used by Packages	Uses Packages	

None	DB DBException ID Players UnknownPlayerException	org.fanfoot.gui org.fanfoot.scoring	org.apache.commons.jxpath org.saafe.utils org.w3c.dom org.xmldb.api org.xmldb.api.base org.xmldb.api.modules
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2.2 org.fanfoot.gui

Afferent Couplings : 0	Efferent Couplings : 8	Abstractness : 0	Instability : 1	Distance : 0
Abstract Classes	Concrete Classes	Used by Packages	Uses Packages	
None	ControlCentre	None	org.fanfoot.db org.fanfoot.prefs org.fanfoot.scoring org.saafe.ui.gui.dialog org.saafe.ui.gui.prefs org.saafe.ui.gui.xml org.saafe.utils org.w3c.dom	

2.3 org.fanfoot.prefs

Afferent Couplings : 1	Efferent Couplings : 1	Abstractness : 0	Instability : 0.5	Distance : 0.5
Abstract Classes	Concrete Classes	Used by Packages	Uses Packages	
None	PreferenceManager	org.fanfoot.gui	org.saafe.ui.gui.prefs	

2.4 org.fanfoot.scoring

Afferent Couplings : 1	Efferent Couplings : 6	Abstractness : 0.1	Instability : 0.86	Distance : 0.04
Abstract Classes	Concrete Classes	Used by Packages	Uses Packages	

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EventParserListener	Event	org.fanfoot.gui	org.apache.commons.xpath
	EventParser		org.apache.xpath
	EventParserConfiguration		org.fanfoot.db
	EventParserConfigurationException		org.saafe.utils
	EventPattern		org.w3c.dom
	Events		org.xml.sax
	Scores		
	ScoringConfiguration		
	ScoringConfigurationException		

3 Cycles

There are no cyclic dependencies.

4 Explantions

The following explanations are for quick reference and are lifted directly from the original [JDepend documentation](#).

4.1 Number Of Classes

The number of concrete and abstract classes (and interfaces) in the package is an indicator of the extensibility of the package.

4.2 Afferent Couplings

The number of other packages that depend upon classes within the package is an indicator of the package's responsibility.

4.3 Efferent Couplings

The number of other packages that the classes in the package depend upon is an indicator of the package's independence.

4.4 Abstractness

The ratio of the number of abstract classes (and interfaces) in the analyzed package to the total number of classes in the analyzed package.

The range for this metric is 0 to 1, with $A=0$ indicating a completely concrete package and $A=1$ indicating a completely abstract package.

4.5 Instability

The ratio of efferent coupling (C_e) to total coupling ($C_e / (C_e + C_a)$). This metric is an indicator of the package's resilience to change.

The range for this metric is 0 to 1, with $I=0$ indicating a completely stable package and $I=1$ indicating a completely instable package.

4.6 Distance

The perpendicular distance of a package from the idealized line $A + I = 1$. This metric is an indicator of the package's balance between abstractness and stability.

A package squarely on the main sequence is optimally balanced with respect to its abstractness and stability. Ideal packages are either completely abstract and stable ($x=0, y=1$) or completely concrete and instable ($x=1, y=0$).

The range for this metric is 0 to 1, with $D=0$ indicating a package that is coincident with the main sequence and $D=1$ indicating a package that is as far from the main sequence as possible.