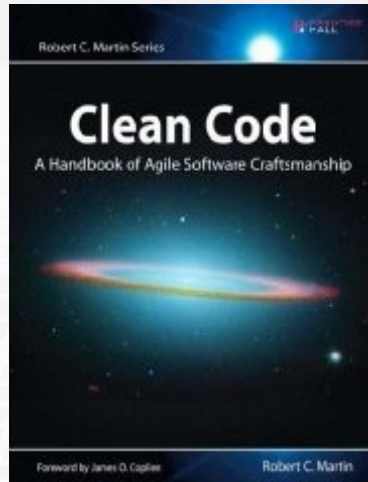


A new Code Model



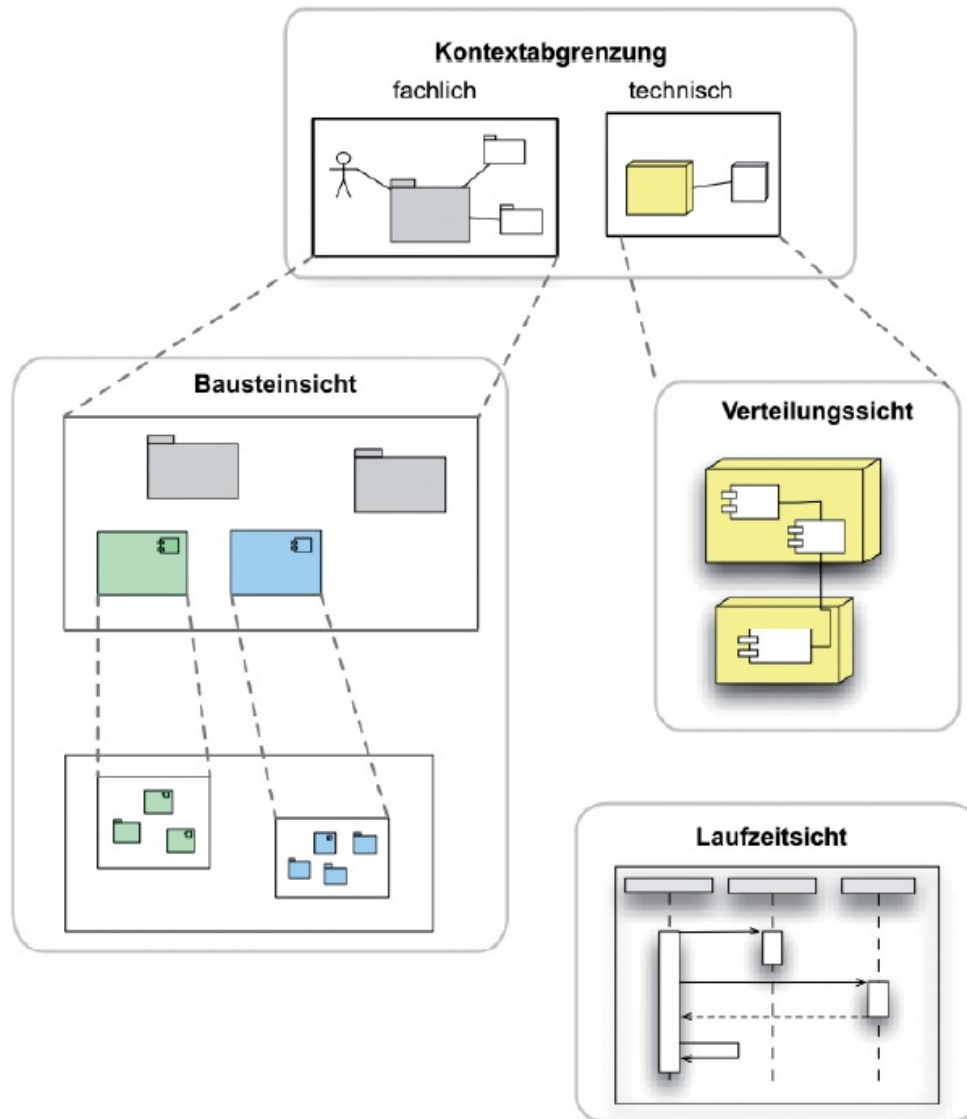
Software quality consists of both external and internal quality.

Continuous Inspection is a holistic, fully-realized process designed to make internal code quality an integral part of the software development life cycle.



Define a Context, Range and Scope of the Source Repository

max@kleiner.ch



Drei wichtige Perspektiven: Baustein-, Laufzeit- und Verteilungssicht



Define a Rule Set

Checkstyle Metrik Java

FindBugs Java

FindBugs Security Audit Java

FindBugs Security Minimal Java

FxCop with MS mininum recommended ruleset C#

FxCop with MS mininum recommended ruleset of SharePoint C#

Sonar way C# Sonar way Java

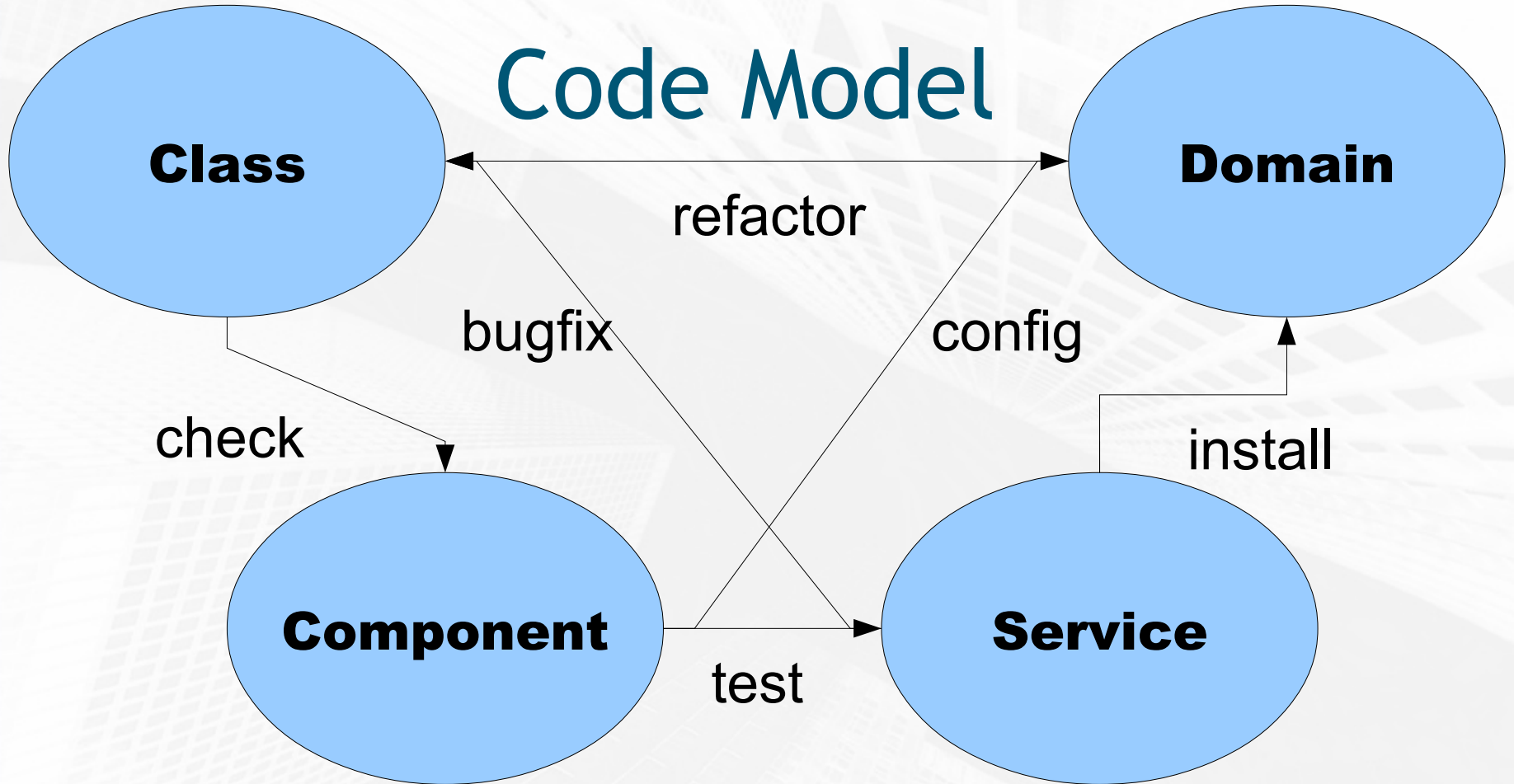
Sonar way PL/SQL

Sonar way Python

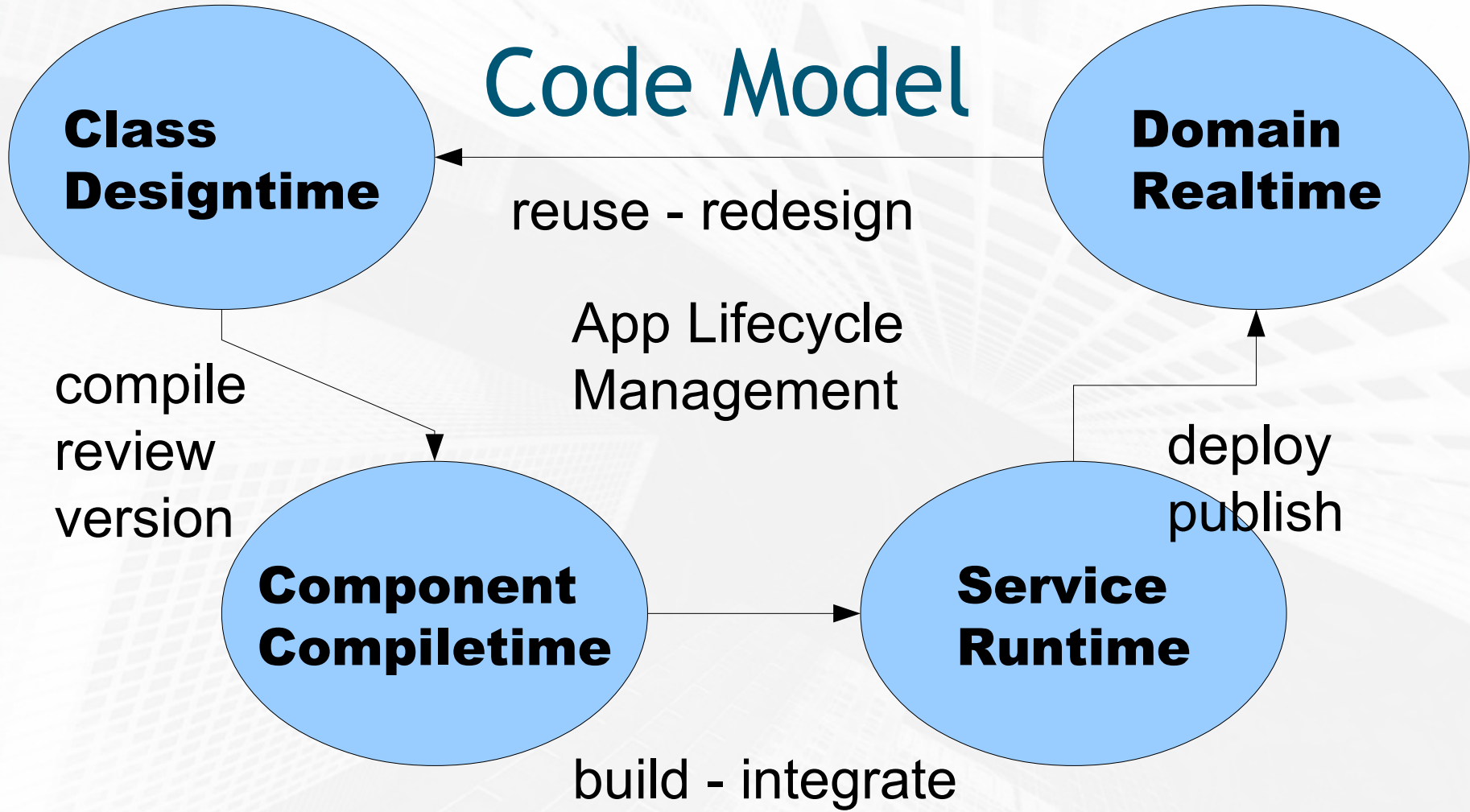
Sonar way Web / XML Sonar way with Findbugs Java



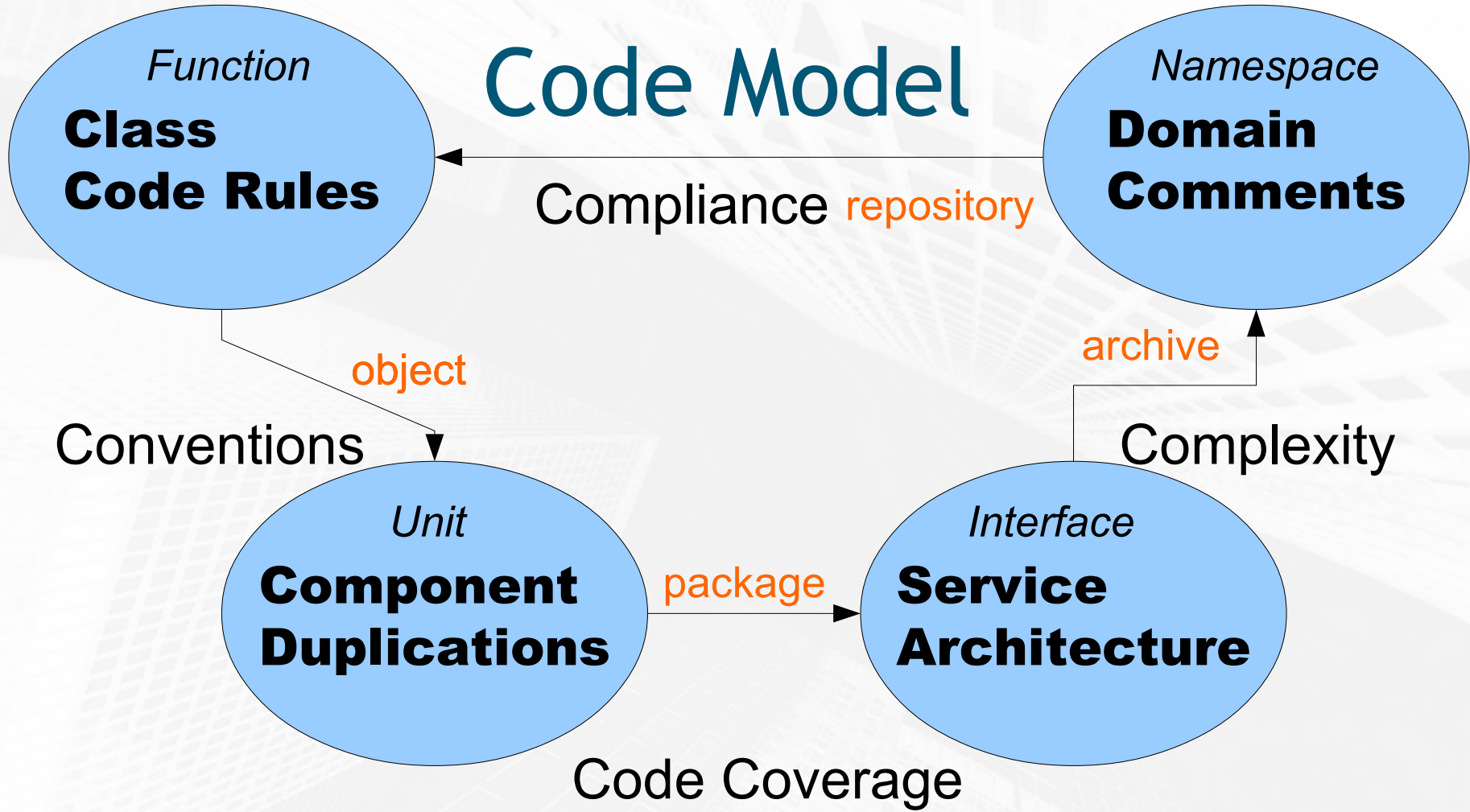
Code Model



Code Model



Code Model



Code Model Matrix *Function*

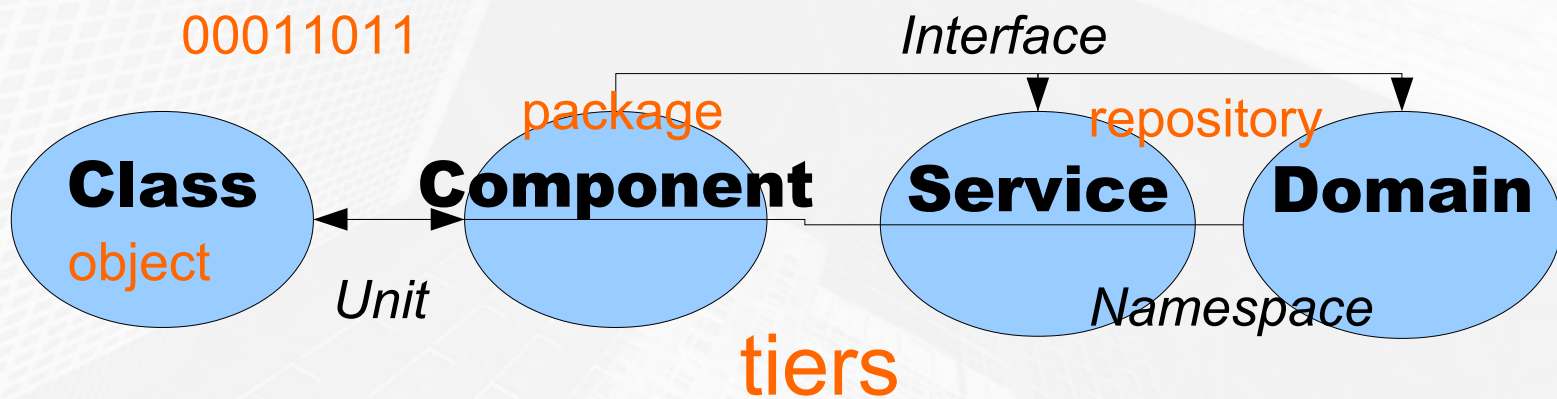
Process *If Temp >= 27 then*

Information *+27° C*

Data *27*

Signal *00011011*

layers



tiers



Code Model Matrix *Example*

```
function GetGEONameDistance2(loc1, loc2: string): double;
var latf,lonf, latf1,lonf1: Double;
    geocode, geocode2: string;
begin
  if isInternet then begin
    geocode:= GetGeoCode('xml','',loc1, false);
    latf:= GEOCoord2Point(geocode).x
    lonf:= GEOCoord2Point(geocode).y
    geocode2:= GetGeoCode('xml','',loc2, false);
    latf1:= GEOCoord2Point(geocode2).x
    lonf1:= GEOCoord2Point(geocode2).y
    result:= HaversineDist(latf,lonf,latf1, lonf1);
  end else writeln('No Internet Connection found');
end;
```

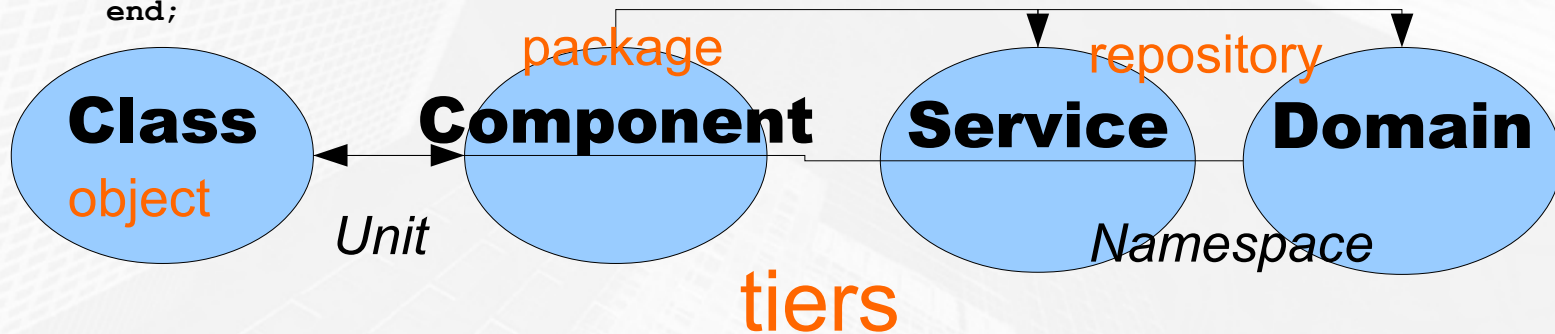
Process

Information

Data

Signal

layers

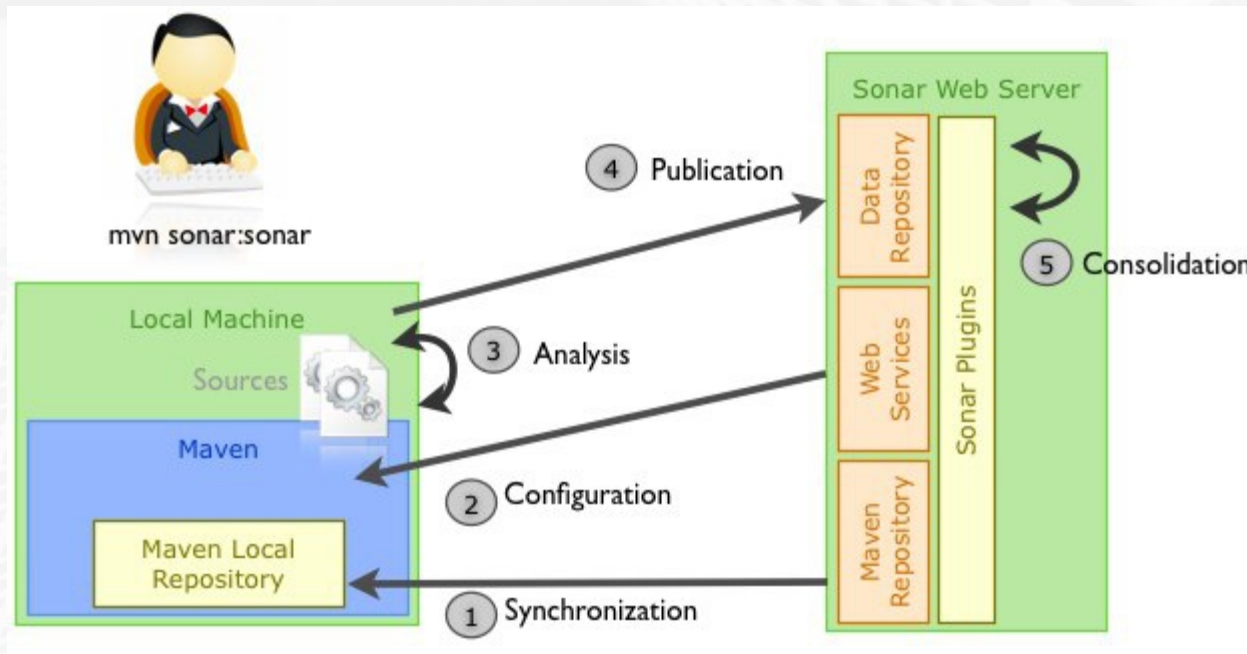


<http://www.softwareschule.ch/examples/distance.txt>



Process Introduction

- Continuous Integration & Inspection



Cockpit & Dashboard Intro

Version 0.9.16-SNAPSHOT on Apr. 5, 2009 00:55, using profile [Nemo rules with findbugs](#).

Metric	Value
Lines of code	12'545 ▲
Comments	39.1% ▲
Duplications	1.5% ▲
Complexity	2.3 /method
Code coverage	51.7% ▼
Test success	98.7% ▲

Rules compliance: 82.4%

Violations: 735 ▲

Code coverage: 465 tests ▼, +10 skipped, 4:13 min ▼

Test success: 6 failures, 0 errors

Date	Event	Value
Apr. 5, 2009	Version	0.9.16-SNAPSHOT
Feb. 15, 2009	Version	0.9.15
Feb. 11, 2009	Alert	Orange
Feb. 8, 2009	Alerts	Yellow
Dec. 28, 2008	Version	0.9.14-SNAPSHOT
Oct. 28, 2008	Version	0.9.11
Mar. 26, 2008	Version	0.9.9
Mar. 29, 2007	Version	0.9.4
Jan. 12, 2007	Version	0.8
Dec. 6, 2006	Version	0.6

Components: Logback Core Module, Logback Classic Module, Logback Access Module, Logback Examples Module

Size: Lines of code, Color: Rules compliance (0% to 100%)

Key : ch.qos.logback:logback-parent
Language : java
[Homepage](#) [Sources \(SCM\)](#)

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