



Locates and optionally fixes syntactical and stylistic errors defined in your coding standard

Solution JSLint

JSHint

ESLint (Most popular)

JSCS

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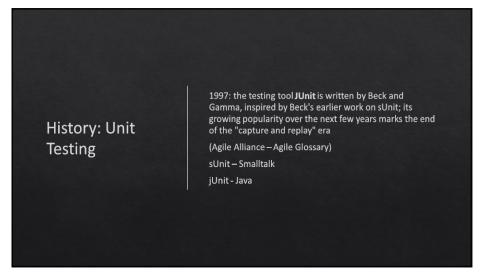




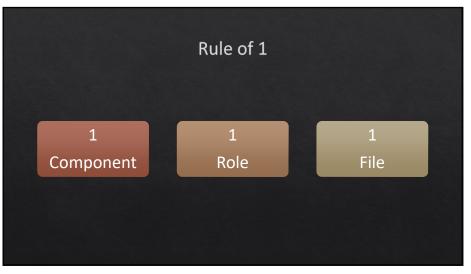


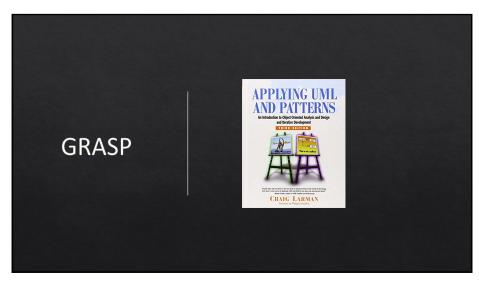
...is a short program fragment written and maintained by the developers on the product team, which exercises some narrow part of the product's source code and checks the results. The outcome of a unit test is binary: either "pass" if the program's behaviour is consistent with the recorded expectations, or "fail" otherwise. Developers will typically write many unit tests (corresponding to many program behaviours of interest), called a "test suite". By common convention dating back at least to the JUnit family of tools, the colour red (as in "getting a red bar") represents the failure of one or more tests. The colour green ("a green bar") denotes successful execution of "all" unit tests associated with a program. Define: Unit **Testing** (Agile Alliance - Agile Glossary)

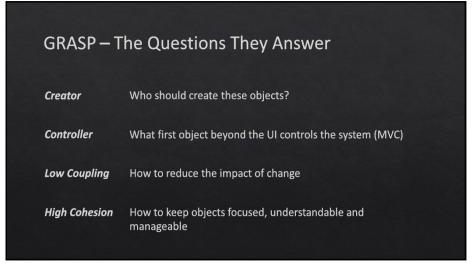
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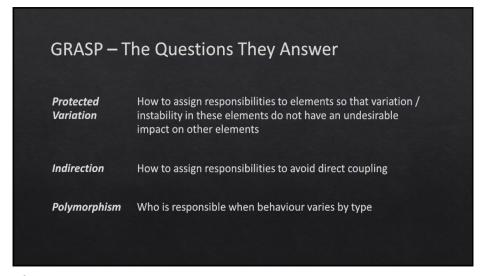


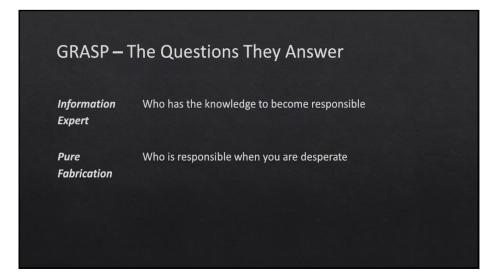














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Measures how functionally related classes and methods are and how much work a class is doing. In other words how focused the class is

Problem: Fuzzy class responsibilities

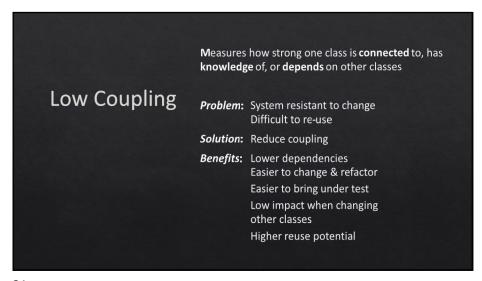
Solution: Increase cohesion. Break into and subclasses

**Benefits: Makes code easier to read Easier to change Easier to change Easier to bring under test

Example: Model View Controller

Caveat: Performance in distributed systems





Single Responsibility Principle
Open/Closed Principle
SOLID Principles
Liskov's Substitution Principle
Interface Segregation Principle
Dependency Inversion Principle

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