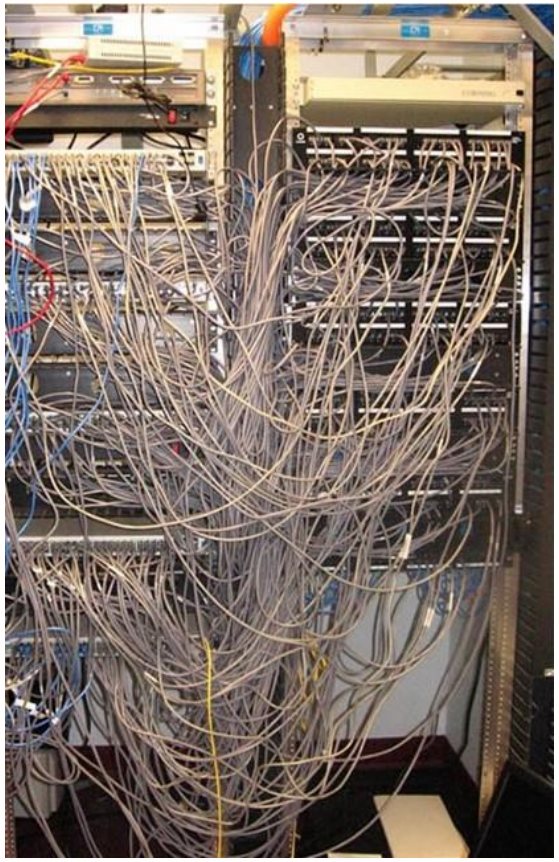
PEMROGRAMAN LANJUT

Overview

Oleh Politeknik Elektronika Negeri Surabaya

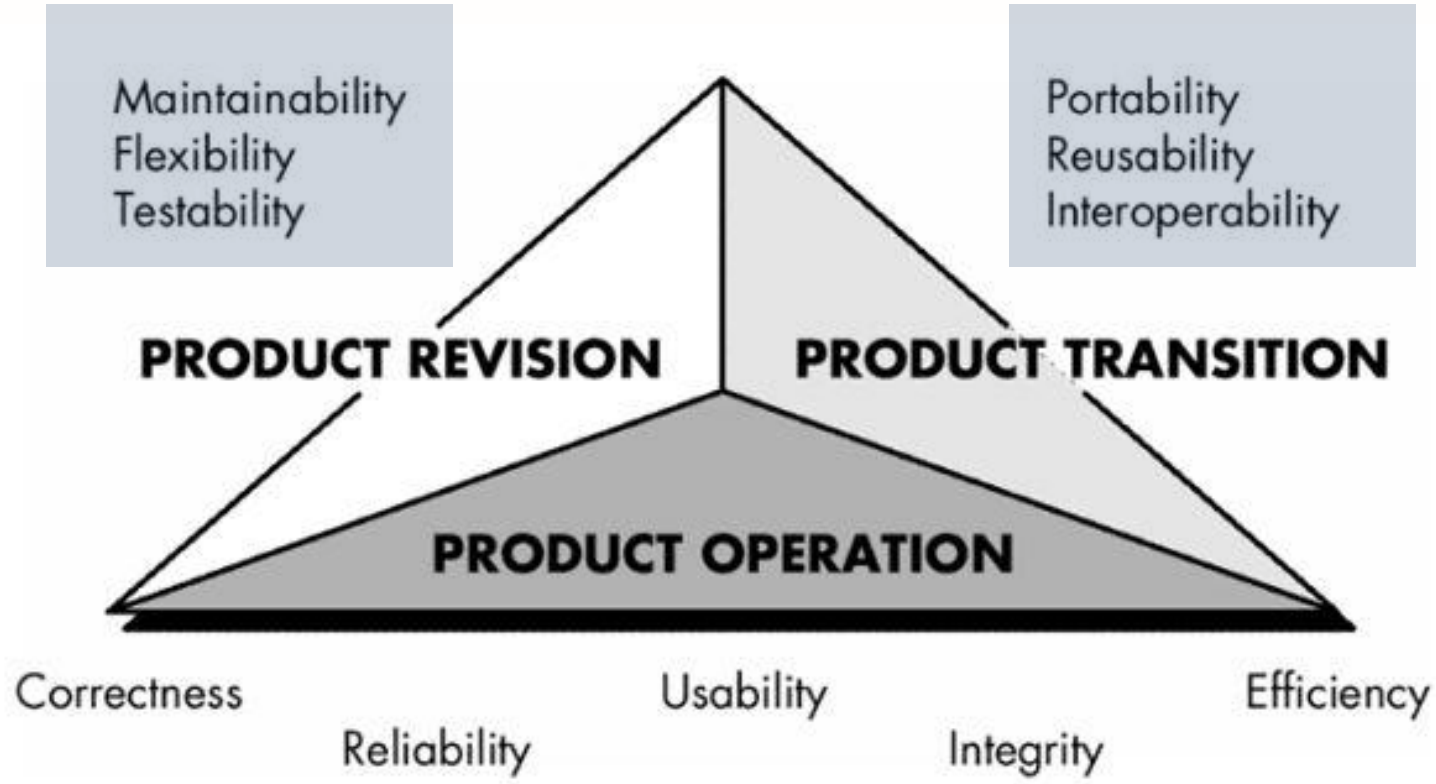
2021

Politeknik Elektronika Negeri Surabaya
Departemen Teknik Informatika dan Komputer



Bad Code

Clean Code



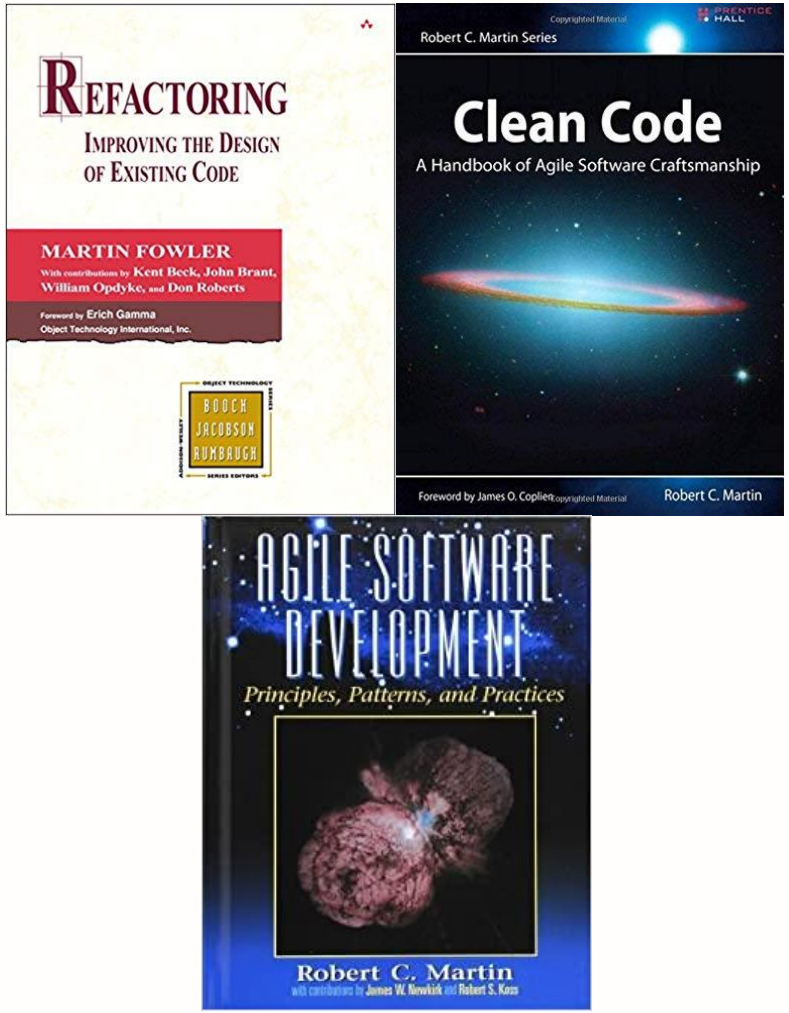
Mc Call Software Quality Metric

Outline

- Pengantar Clean Code Programming
- Code Convention
- Programming Principle:
  KISS, YAGNI, DRY, Common Closure Principle, Design by Contract, Law of Demeter
- SOLID Principle:
  - Single Responsibility Principle
  - Open Close Principle
  - Liskov Substitution Principle
  - Interface Segregation Principle
  - Dependency Injection Principle
- Code Smell and Refactoring:
  - Dispensable
  - Bloater
  - Object Oriented Abuser
  - Change Preventer
  - Coupler

Referensi

- Fowler, Martin. Refactoring: Improving the Design of Existing Code. Addison-Wesley Professional, 1999.
- Martin, Robert C. Clean Code: A Handbook of Agile Software Craftsmanship. Pearson. 2008.
- Martin, Robert C. Agile Software Development, Principles, Patterns, and Practices. Pearson. Pearson. 2002.
- https://refactoring.guru/



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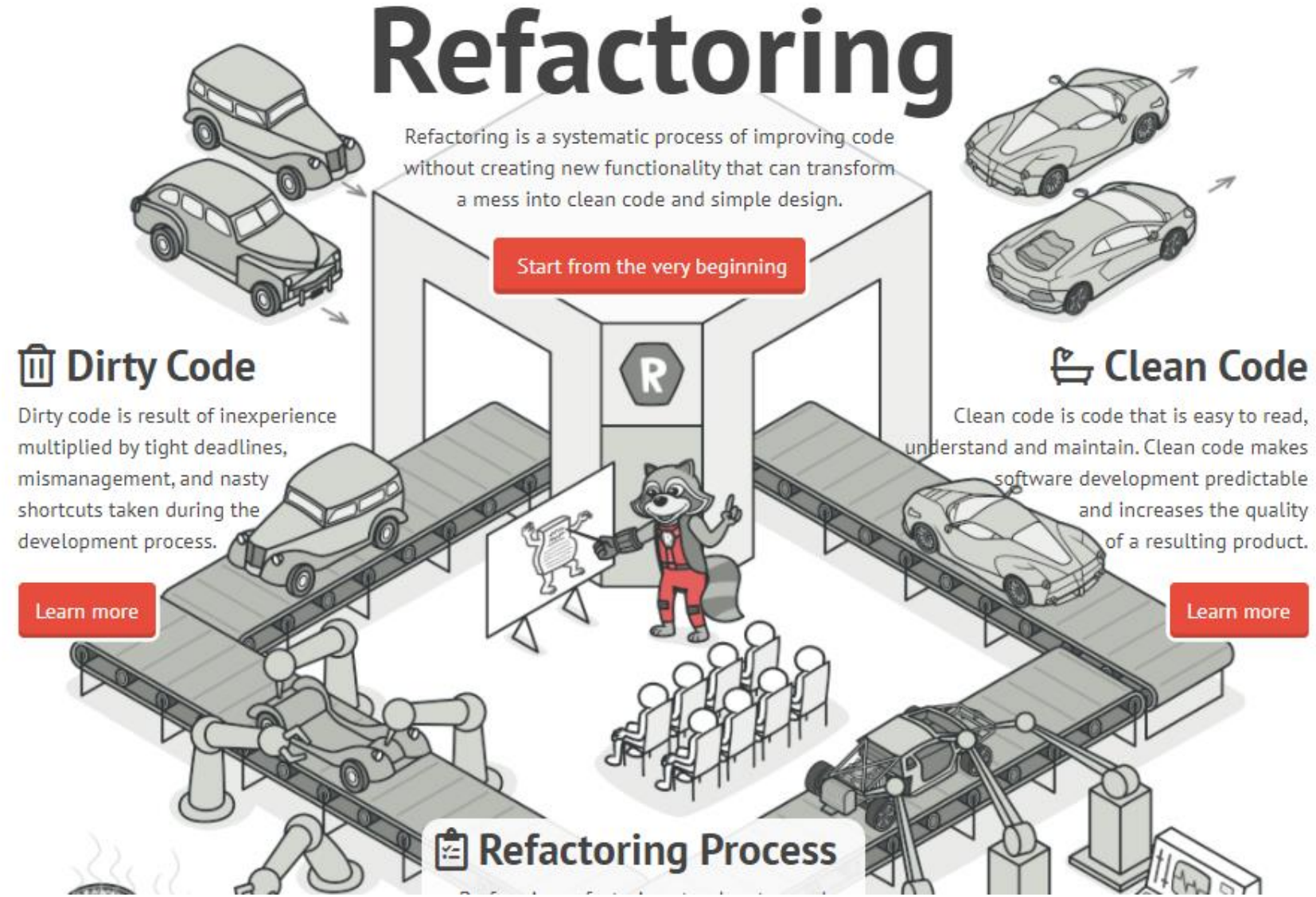
REFACTORING
·GURU·

- Premium Content
- Refactoring
  - What is Refactoring
  - Catalog
  - Code Smells
  - Refactorings
- Design Patterns

Refactoring

Refactoring is a systematic process of improving code without creating new functionality that can transform a mess into clean code and simple design.

Start from the very beginning



Dirty Code

Dirty code is result of inexperience multiplied by tight deadlines, mismanagement, and nasty shortcuts taken during the development process.

Learn more

Clean Code

Clean code is code that is easy to read, understand and maintain. Clean code makes software development predictable and increases the quality of a resulting product.

Learn more

Refactoring Process

Penilaian

- Teori:
  - Tugas, Kuis, Keaktifan (30%)
  - UTS (30%)
  - UAS (40%)
- Praktikum:
  - Presentasi, Laporan, Keaktifan (30%)
  - Mid test (30%)
  - Post test (40%)

bridge to the future

http://www.eepis-its.edu