

Clean Code (why not do it)



DIEGO PACHECO

About me...



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The boy scout rule

"Always leave the code you're editing a little better than you found it"

- Robert C. Martin (Uncle Bob)



(conemotion)

Clean Code: Comments

comments + Good Comments + Informative + Explain + Bad Comments + Redundant Comments + Journal Comments (// 1 ok 2 not ok 3 john did 4 luke did it...) + Noise Comments (/* var x */ + Don't use a comment when it could be a variable or a function + Poison Markers (///////// action) + Commented Out Code (DEAD) - Too Much Information

Clean Code: Emergent Design, Concurrency, Refactoring

Emergence design ++ (existed prior clean code	
Conce	urrency (existed prior clean code)
	+ Thread-Safe Collections
	+ Beware of dependencies being sync
	+ Keep Synchronization small
	+ Testing Thread Code
<u>refac</u>	toring / Smells (existed prior clean code)
	+ Inappropriate information
	+ Obsolete Comment
	+ Redundant Comment
	+ Poorly Written Comment
	+ Commented Out Code
	+ Duplication
	+ Dead Code



Clean Code: Naming

- +- intention revealing
- + avoid disinformation
- + avoid member_prefix
- classes (i.g Processor)
- avoid mental mapping (k,j)
- searchable name (everything is searchable)

Clean Code: Functions

- +- small
- +- do one thing
- +- Prefer Exception
- + DRY (excited before clean code)
- + Have no Side Effects (FP not created by clean code)

Clean Code: Formating, objects and data structures, errors

Formatting - Pure Style (Go Default lang per land and you should be fine) / Diff CR/PR Matters. Objects and data structures + Law of Demeter (Module should not know about innards of objects it manipulates) + Hiding Structure +- DTO Error Handler +- Exception rather return codes +- Use Unchecked Exceptions +- Define Exceptions in terms of called needs + Don't return null (FP / Defensive Programing ... pior clean code)

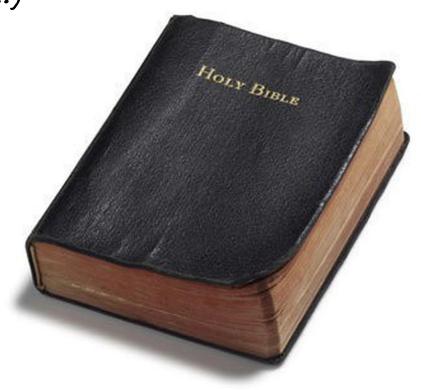
+ Don't pass null (FP / Defensive Programing ... pior clean code)

Clean Code: Boundaries, Unit Testing, Classes, Systems

Boundaries -+ Learning boundaries are hard, Tests to understand (Prefer POC) Unit Testing - TDD (Does not improve design, IR devs) - One Assert Per Test Classes -+ Classes should be small - Cohesion (existed prior clean code) Systems + DI (really good for testing) - E1B + Java Proxy / AOP (Spring uses a lot for TXs mgmt) -ORM Sucks (uses proxy CGLIB)



Clean code / TDD as a Cult == No Thinking(sometimes not even read the book...)

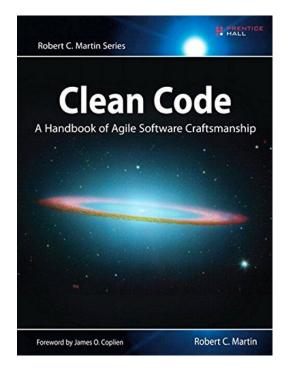


Clean code / TDD is the "Flat Earth" of Engineering

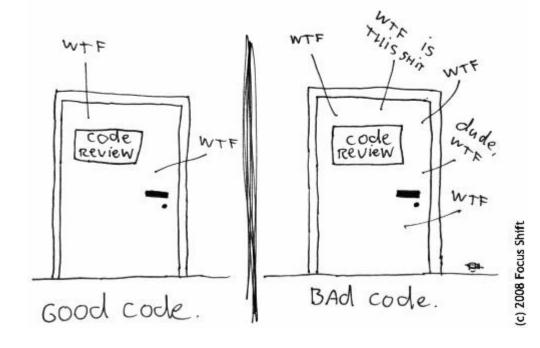


Clean Code

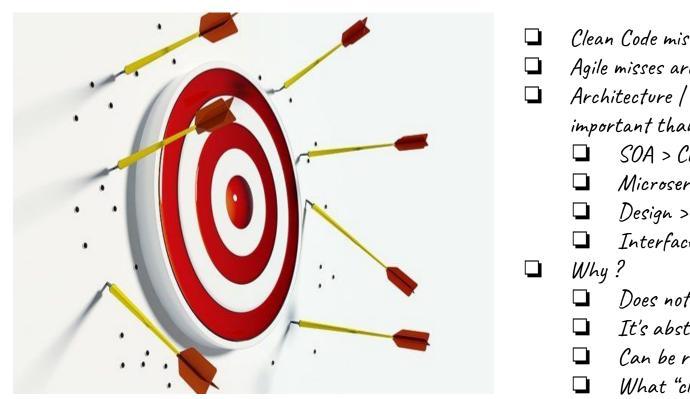
Start as good intention...



The ONLY VALID MEASUREMENT OF Code QUALITY: WTFs/minute



Clean Code



- Clean Code misses the point
- Agile misses architecture badly
- Architecture / Design are far more important than clean code
 - SOA > Clean Code
 - Microservices > Clean Code
 - Design > Clean Code
 - Interfaces > Clean Code
 - Does not matter for the caller
 - It's abstracted anyway
 - Can be refactored
 - What "clean" really mean?

Clean Code == Style



What's really matters?











Performance







Exercises

Constraints

1. You can use Java, Scala or Clojure

- 1. Revier all your previous code(previous exercises) make sure they follow the #8 principles listed (What's really matters).
- 2. Fix at least 3 codes (if applies)



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