



# WHY QUALITY CODE?

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**CAKE** LABS

ICTA   
*ideas actioned*

# AGENDA

- WHAT IS QUALITY CODE?
- WHY CODE QUALITY IS IMPORTANT?



# WHAT IS QUALITY CODE?





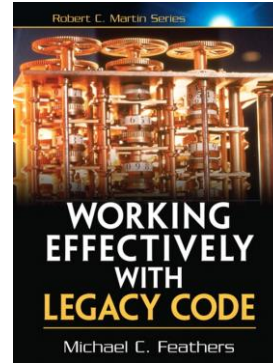
Grady Booch

“Clean code is simple and direct.  
Clean code reads like well-written prose.”





Michael C. Feathers



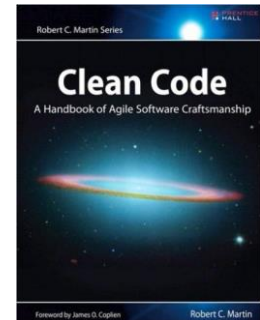
“Clean code always looks like it was written by someone who cares.”



“If you want your code to be easy to write,  
make it easy to read.”



Robert C. Martin



# FEATURES OF QUALITY CODE

- **READABILITY**
  - Good naming of variables, functions, classes...
  - Good comments
  - Consistent coding standard
  - KISS
- **EXTENSIBILITY**
  - Conscious usage of OOP principles, Design patterns
  - SOLID principles
  - DRY
- **TESTABILITY**
  - Unit Testing with high code coverage
  - Test Driven Development (TDD)



QUALITY CODE IS..

EASY TO **UNDERSTAND**

&

EASY TO **CHANGE**



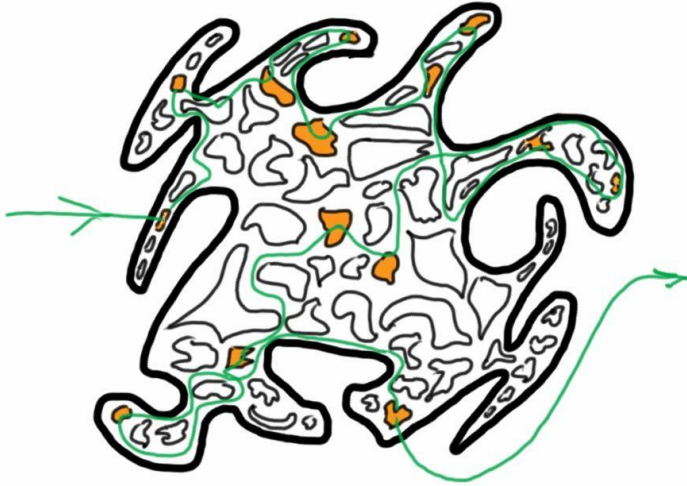


# WHY CODE QUALITY IS IMPORTANT?



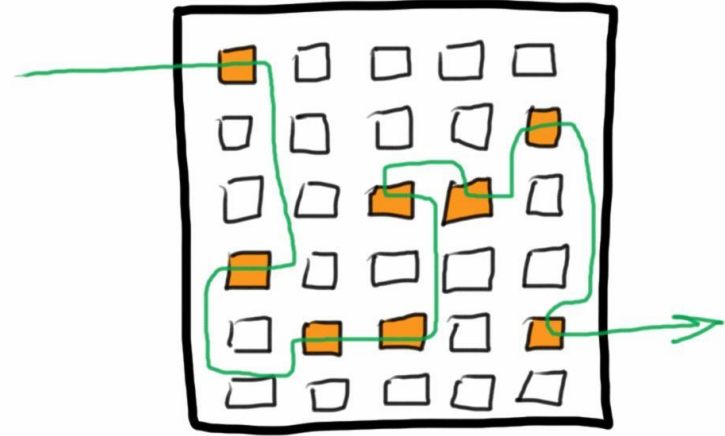
# BAD CODE VS GOOD CODE

*Finding our way  
through bad code*



Many places to change...  
Hard to find impact...  
More mistakes = Bugs!

*Finding our way  
through clean code*



Few places to change...  
Easy to find impact...  
Less mistakes!

# IMPORTANCE OF QUALITY CODE

- Code is never written just once and then forgotten
- We read code more than we write!
- Cost of bad code is high
- Quality is must to be agile



Programs must be written *for people* to read,  
and only incidentally for machines to execute.



# JOURNEY TOWARDS QUALITY...

- Quality should start early!
- Learn by reading good code (..and bad code!)
- Code reviews — give feedback, get feedback
- Know your tools — IDE, Source Control, Frameworks etc.
- Passion — Love, care and be proud of your code.
- Practice, practice and practice!!!



Rule of thumb:

“Always code as if the guy who ends up maintaining your code will be a violent psychopath who knows where you live!”



**THANK YOU!!!**

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*ideas actioned*



**QUALITY  
CODER**  
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