Competency: Clean Code

This competency covers the knowledge of clean code principles and general refactoring and basic code organization skills.

Topics

- About clean code
- Code smells
- Magic numbers
- Refactoring
- Naming best practices
- DRY (don’t repeat yourself)
- KISS (don’t overcomplicate)
- SRP (Single Responsibility Principle)
- Function design
- Role of comments

Resources

Disclaimer

Many of the following links cover much more topics than it is required for this competency. Don’t read too much in advance, and always try the new things out in practice!

How to practice?

The best practice is to read through your (or your peers’) existing pieces of code and look for code smells. The best if you go on and *refactor* them right on the spot. Try to make them as clean as possible.

Tech interview workbook

The **Tech interview workbook** is a tool that will help you to pass your first job interviews as a junior developer. Consider it an ongoing project, and make it more complete milestone by milestone. You can read more about this and start your own workbook here.

Jupyter notebook

- Clean code
- Presentation about Clean Code in Codecool

Book recommendation

- Robert C. Martin: *Clean code*

Official and popular resources

- Clean coders video series

- Clean code developer
- Be a Better Programmer

Style Guides

- Google Style Guides in many programming languages