Cheatography

Enablon Clean Code Cheat Sheet by Galad via cheatography.com/20484/cs/3254/

| Principles | |
|---------------------------------------|---|
| Single Responsibility | A class should have only one reason to change |
| Open / Close principle | Software entities (classes, modules, functions, etc.) should be open for extension but closed for modification |
| Liskov Substitution Principle | Subtypes must be substitutable for their base types |
| Interface Segregation Principle | Clients should not be forced to depend on methods they do not use. |
| Dependency Inversion Principle | High-level modules should not depend on low-level modules. Both should depend on abstractions. Abstractions should not depend upon abstractions |
| Command Query Separation | A method should either be a command or a query |
| Do not Repeat Yourself (DRY) | Every piece of knowledge must have a single, unambiguous, authoritative representation within a system |

| General | |
|-------------------------------|---|
| Boy Scout Rule | Leave the campground cleaner than you found it |
| Keep it Simple, Stupid (KISS) | Simpler is always better. Reduce complexity as much as possible |
| Positive Conditionals | Positive conditionals are easier to read than negative conditionals |
| Don't Be Arbitrary | |



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Design

Prefer Polymorphism To If/Else or Switch/Case

| Prefer composition over inheritance | |
|--|---|
| Prefer Dedicated Value Objects to Primitive Types | Instead of passing primitive types like strings and integers, use dedicated primitive types: e.g.Uri instead of string |
| Vertical Separation | Variables and methods should be defined close to where they are used |
| Encapsulate Conditionals | if (this.ShouldBeDeleted(timer)) is preferable to if (timer.HasExpired && !timer.IsRecurrent) |
| (-) Method with Too Many Arguments | Prefer fewer arguments. Maybe functionality can be outsourced to a dedicated class that holds the information in fields |
| (-) Method with Out/Ref Arguments | Prevent usage. Return complex object holding all values, split into several methods |
| (-) Obscured Intent | Too dense algorithms that lose all expressiveness |
| (-) Magic Numbers / Strings | Replace Magic Numbers and Strings with named constants to give them a meaningful name when meaning cannot be derived from the value itself |
| (-) Dead code / dead comment | Delete unused things. You can find them in your version control system |



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