Refactoring with Design Patterns

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Neglecting design leads to underengineering



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focusing on Design-Pattern leads to overengineering



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- small changes to internal code structure
- Apply extract method and class again and again
- Commit every change to version control if possible
- Let IDEs help you automate (PHPStorm, Qafoo Refactoring Browser, ...)



- Having tests for refactoring is very helpful
- .. but it works without



Refactoring towards Patterns to avoid both under- and overengineering.



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A factory creates an object for you.

- Getting control over object creation
- Most important issue for every code-base
- Actually 4 patterns
 - Factory
 - Factory Method
 - Abstract Factory
 - Builder



A facade provides a simplified interface to a larger body of code.

- Make code reusable (business logic, ..)
- Integrate third party code (libraries)
- Avoid hard dependencies on technical details
- Strongly Related to the Adapter/Bridge patterns



Strategy allows to exchange algorithms at run time.

- Object-oriented switch statement
- When calculations are changing frequently
- Or when they change based on state
- Construction of strategies often combined with a factory



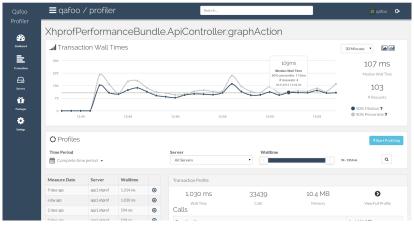


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