

"Gang of Four Design Patterns in C#"

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TEKNOLOGISK
INSTITUT

Presentation

- ▶ Name
- ▶ Company affiliation
- ▶ Area of expertise
- ▶ C# experience
- ▶ Expectations for the course

Prerequisites

- ▶ Working knowledge of newest C# and Visual Studio
 - Object-oriented development
 - Classes
 - Inheritance
 - Virtual methods
 - Extensions
 - Interfaces
 - Delegates
 - ...

- ▶ An interest in becoming a better C# developer. 😊

"Gang of Four Design Patterns in C#" – Day 1

- ▶ Introduction
 - What Are Design Patterns?

- ▶ Part I: Creational Patterns
 - Abstract Factory
 - Builder
 - Factory Method
 - Prototype
 - Singleton

- ▶ Part II: Structural Patterns
 - Adapter



"Gang of Four Design Patterns in C#" – Day 2

- ▶ Part II: Structural Patterns (Cont'd)
 - Bridge
 - Composite
 - Decorator
 - Façade
 - Flyweight
 - Proxy

"Gang of Four Design Patterns in C#" – Day 3

- ▶ Introduction to Day 3+4

- ▶ Part III: Behavioral Patterns
 - Iterator
 - Chain of Responsibility
 - Template Method
 - Strategy
 - Memento
 - Command

"Gang of Four Design Patterns in C#" – Day 4

- ▶ Part III: Behavioral Patterns (Cont'd)
 - State
 - Interpreter
 - Visitor
 - Observer
 - Mediator

- ▶ If Time Permits: A Few Enterprise Patterns
 - Repository (with Entity Framework)
 - Null Object (with Unit Testing)
 - Dispose

- ▶ Conclusion

Course Material

- ▶ Book
 - Erich Gamma, Richard Helm, Ralph Johnson, and John Vlissides: *"Design Patterns: Elements of Reusable Object-Oriented Software"*
- ▶ Slides
- ▶ Examples for every module
- ▶ Labs (and lab solutions) for every module
- ▶ Course evaluation after Day 4

Practical Information

- ▶ Each course day will be from 9.00 to 16.00
- ▶ Breaks
- ▶ Toilets
- ▶ Food and beverages
- ▶ Phones and devices
- ▶ Smoking

- ▶ Any questions...?



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