

Domain-Driven Design Fundamentals

Introducing DDD

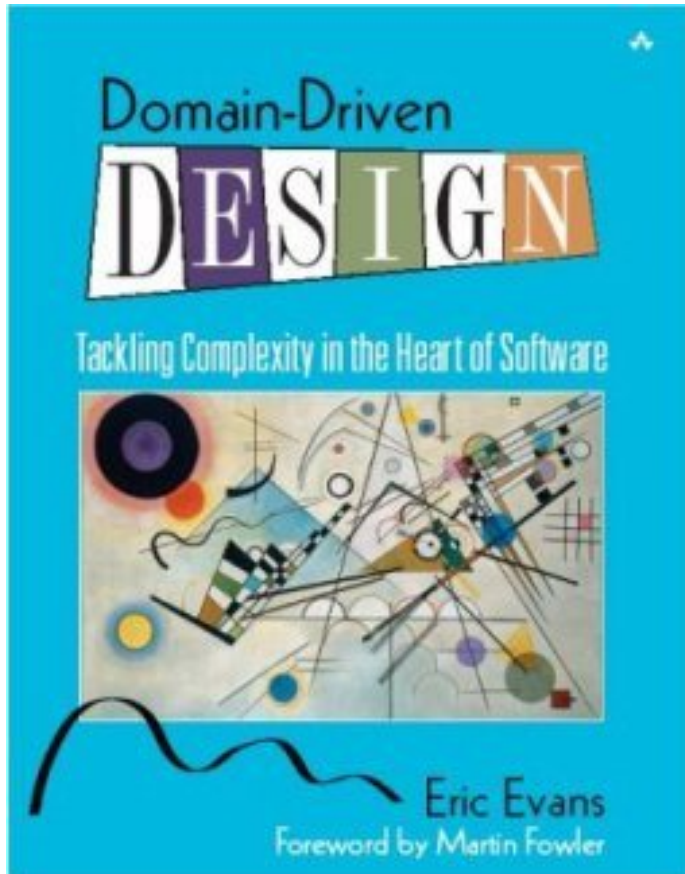
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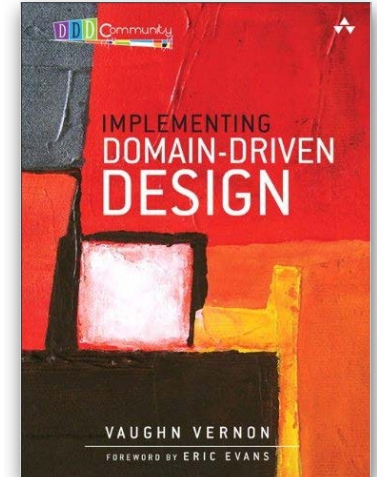
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hardcore developer training



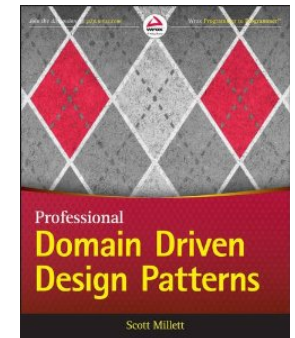
2003



2006



2013



2014

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In This Course

- Why Should You Care About DDD?
- What does a DDD solution look like?
- Modeling Problems in Software
- Technical Components of DDD
- Managing Complexity using DDD
- Extending our Example (*based on a client request*)

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“

The more you know,
the more you realize **you know nothing**

”

— Socrates

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Why You Should Care about DDD

Principles
& patterns to
**solve difficult
problems**

History of
success with
complex
projects

Aligns with
practices
from our own
experience

**Clear,
testable code**
that represents
the domain

Solve Problems

Understand Client Needs

Write Code

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Interaction
With
**Domain
Experts**

Model a
**single
Sub-Domain**
at a time



Engineering



Purchase Materials



Accounting



Sales



Manage Employees



Marketing





Interaction
With
**Domain
Experts**

Model a
**single
Sub-Domain**
at a time

Implementation
of
Sub-Domains

Benefits of Domain Driven Design

- Flexible
- Customer's vision/perspective of the problem
- Path through a very complex problem
- Well-organized and easily tested code
- Business logic lives in one place.
- Many great patterns to leverage

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“While Domain-Driven Design provides many technical benefits, such as maintainability, it should be applied **only to complex domains** where the model and the linguistic processes **provide clear benefits** in the **communication of complex information**, and in the formulation of a **common understanding of the domain**.”

— Eric Evans

Domain-Driven Design

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Drawbacks of DDD

- **Time and Effort**
 - Discuss & model the problem with domain experts
 - Isolate domain logic from other parts of application
- **Learning curve (why you're watching this course)**
 - New principles
 - New patterns
 - New processes
- **Only makes sense when there is complexity in the problem**
 - Not just CRUD or data-driven applications
 - Not just technical complexity without business domain complexity
- **Team or Company Buy-In to DDD**

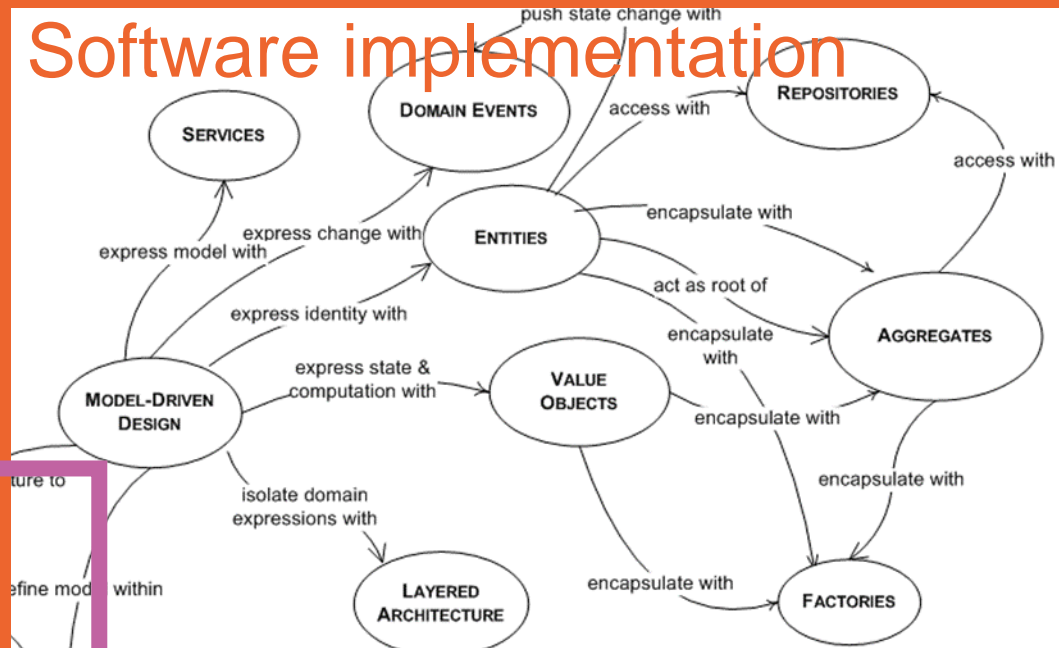
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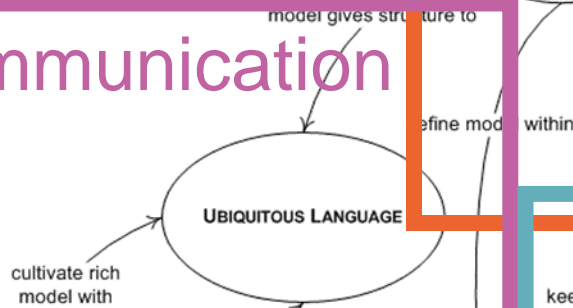
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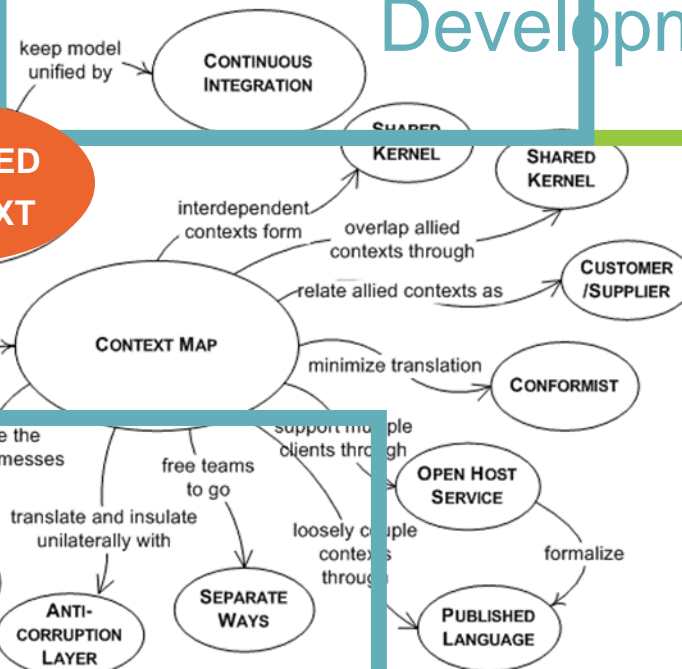
Software implementation



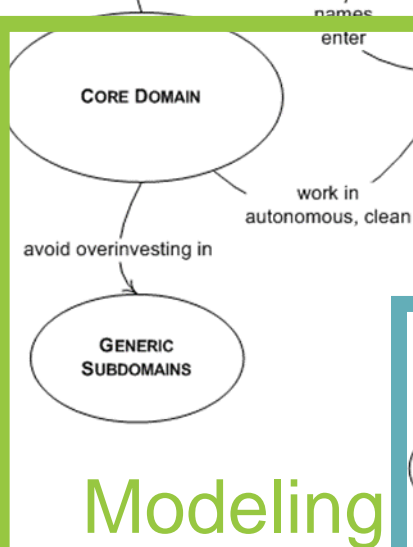
Communication



Development Process



BOUNDED CONTEXT



Modeling



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Demo

A small DDD Solution

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Solve Problems

Understand client needs



Place

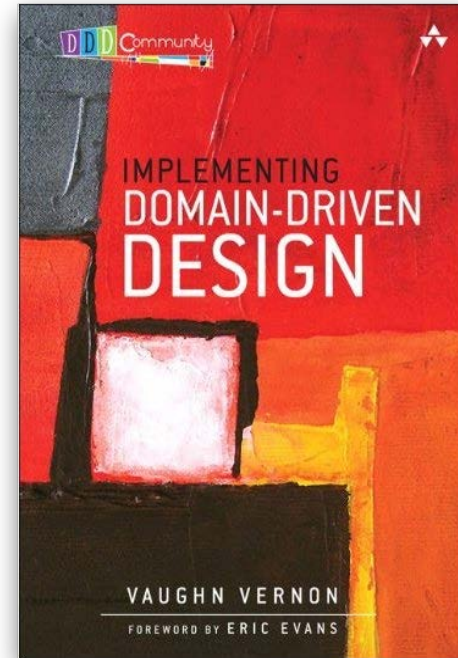
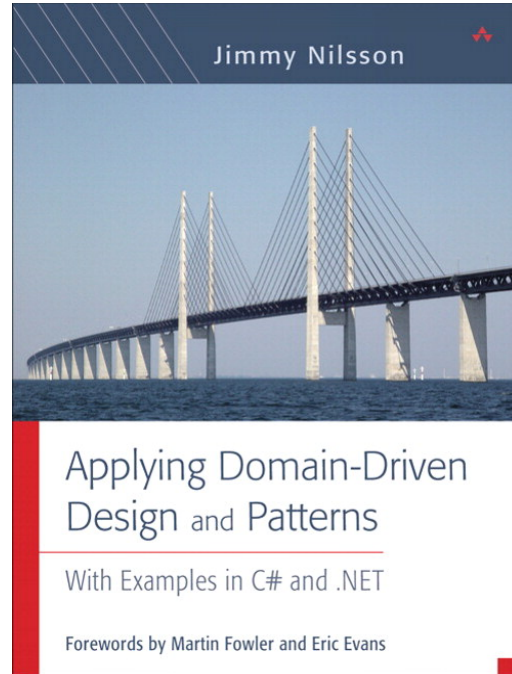
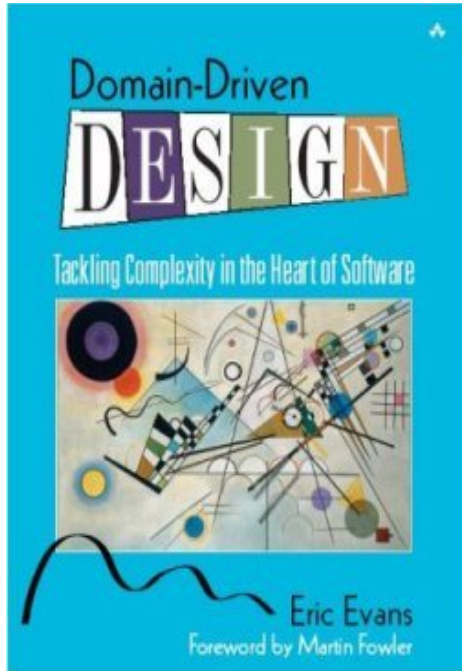
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References



- **DDDCommunity.org**

On Pluralsight:

- **Creating N-Tier Applications in C#, Part 1** bit.ly/ntier-smith

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Thanks!

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To Teach Is To Learn Twice

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