

# IntellAgile

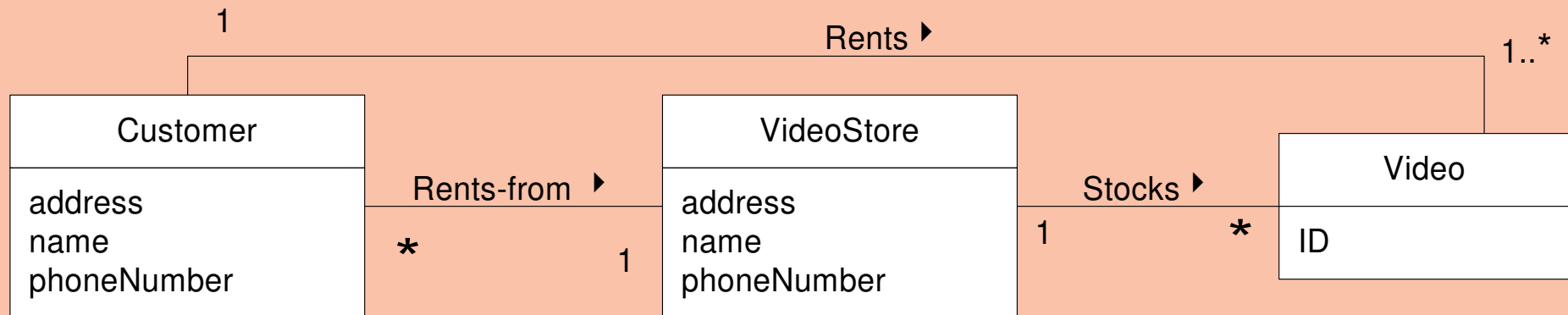
## *Visualizing Concepts with a Domain Model*

[www.craiglarman.com](http://www.craiglarman.com)

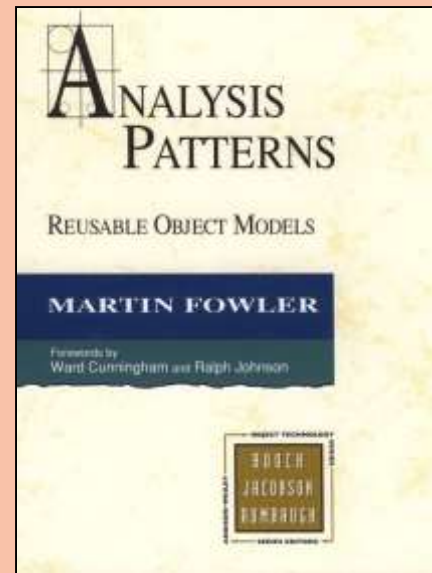
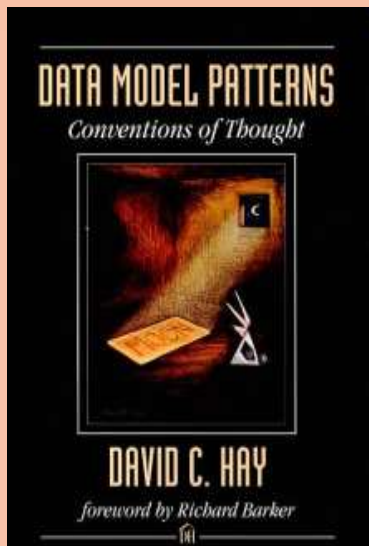
Copyright © 2002 Craig Larman. All rights reserved.

- A Domain Model visualizes noteworthy concepts or objects in the domain.
- You will be able to:
  - Read and write the UML class diagram notation for a Domain Model
  - Create a Domain Model
  - Apply guidelines
  - Relate it to other artifacts

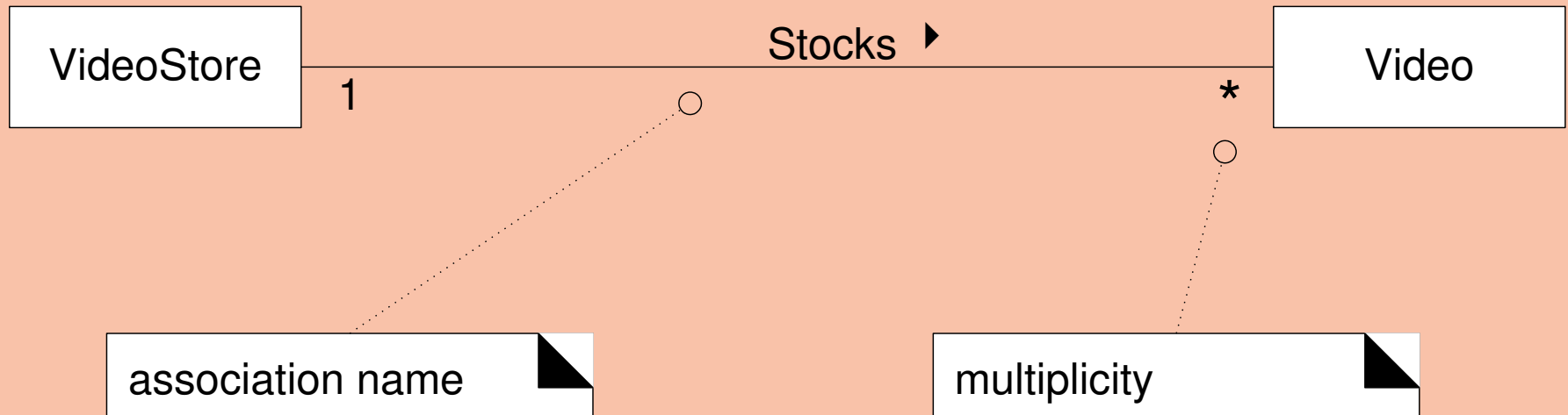
- A *Domain Model* visualizes, using UML class diagram notation, noteworthy concepts or objects.
  - It is a kind of “visual dictionary.”
  - *Not* a picture of software classes.
- It helps us identify, relate and visualize important information.
- It provides inspiration for later creation of software design classes, to reduce “representational gap.”

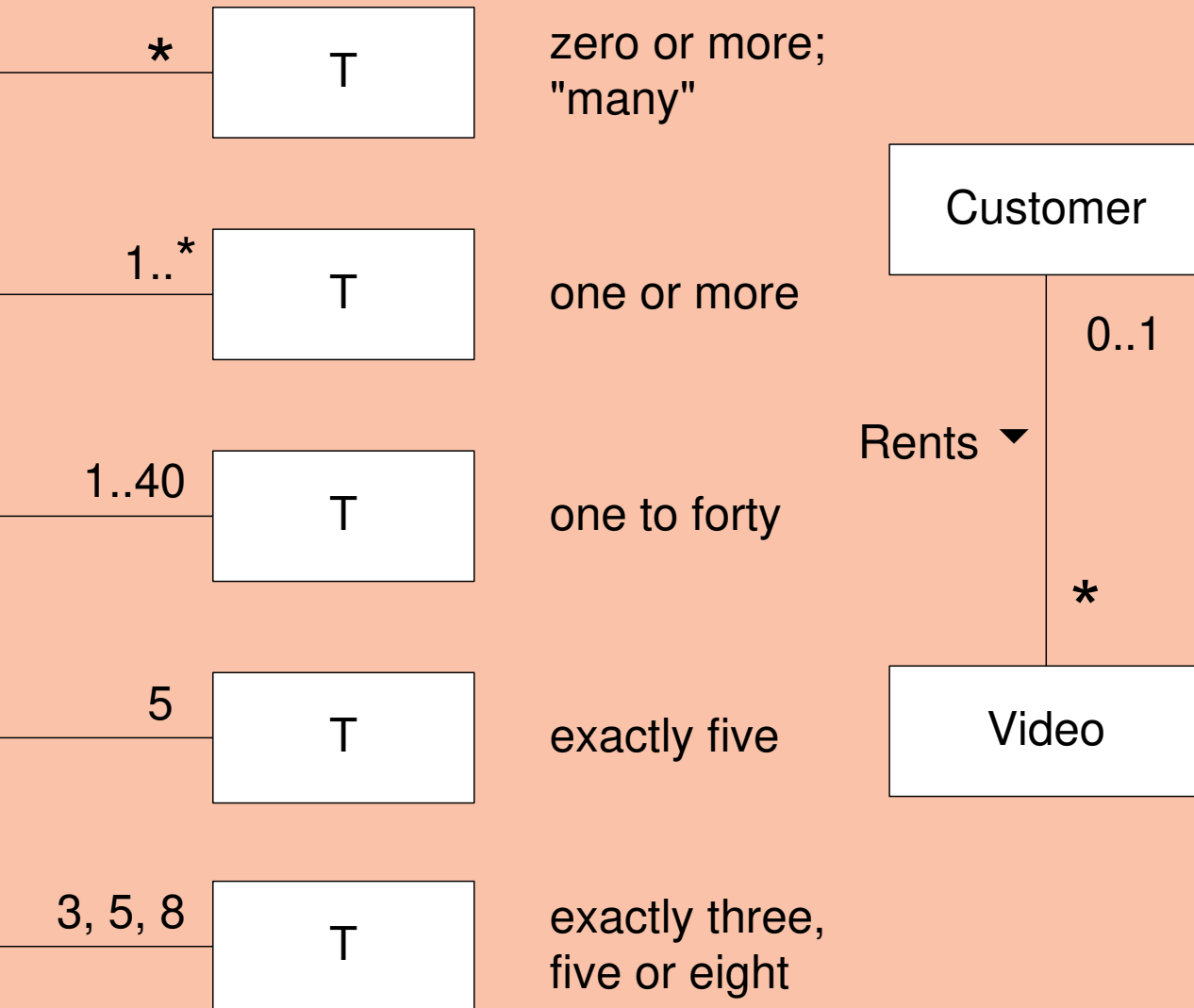


- Candidate lists (see text, p. 134)
- “Abbott” Analysis; AKA Linguistic Analysis
  - Most simply, “pick out the nouns”
- Existing analysis patterns:



- "direction reading arrow"
- it has **no** meaning except to indicate direction of reading the association label
- optional

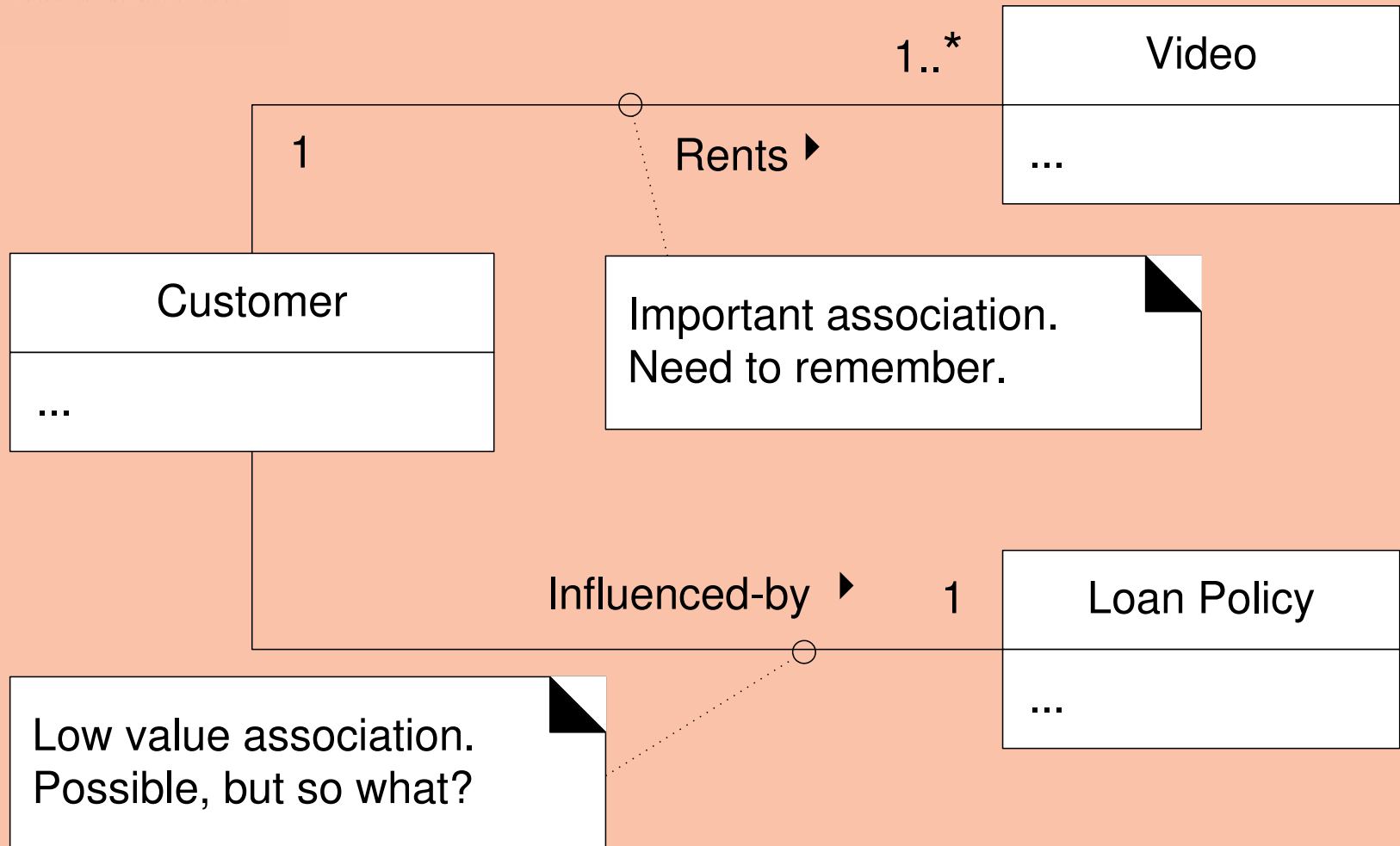




One instance of a Customer may be renting zero or more Videos.

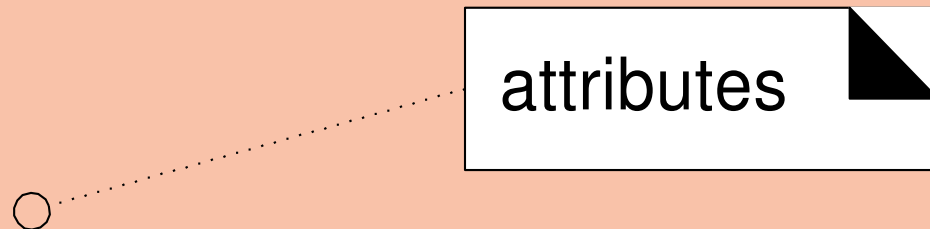
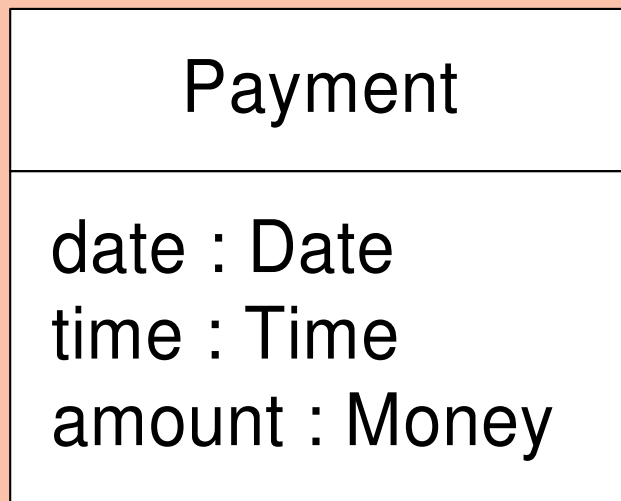
One instance of a Video may be being rented by zero or one Customers.

- Only add associations for *noteworthy* relationships. Literally, those for which making a “note” is worthy or business motivated.

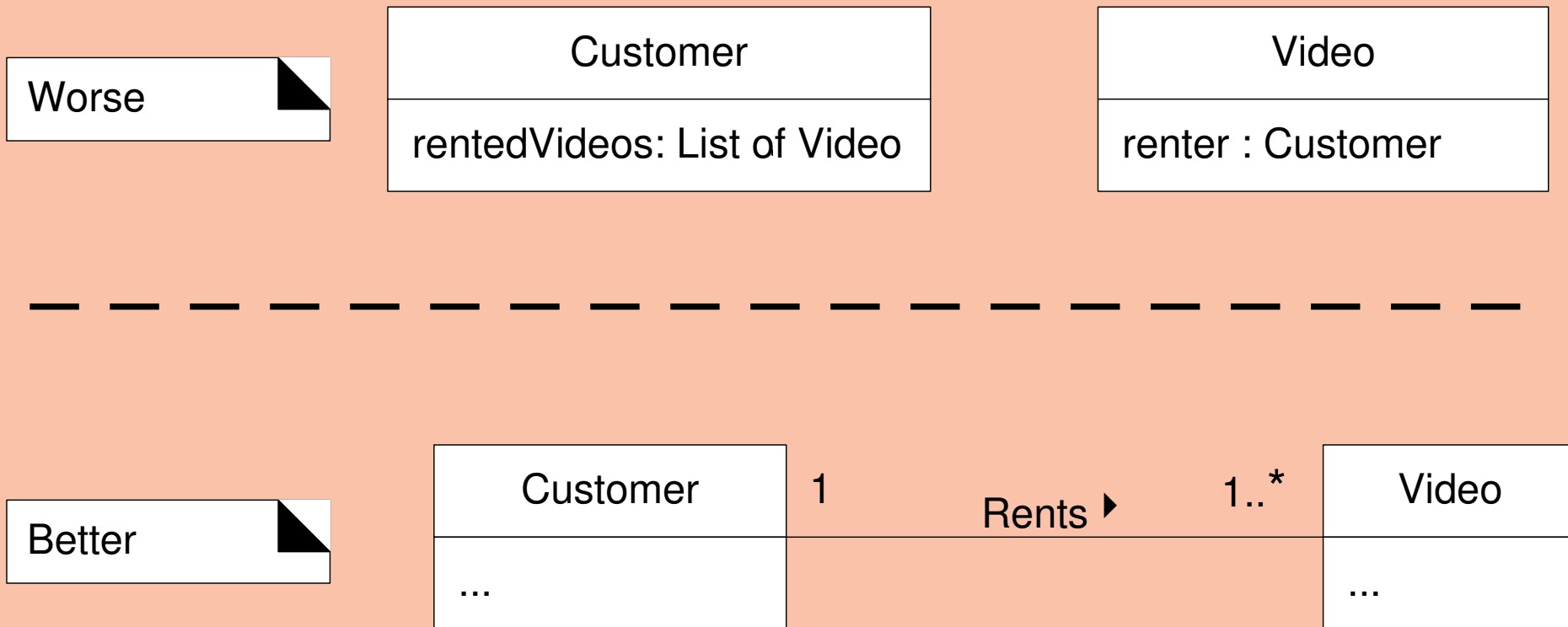


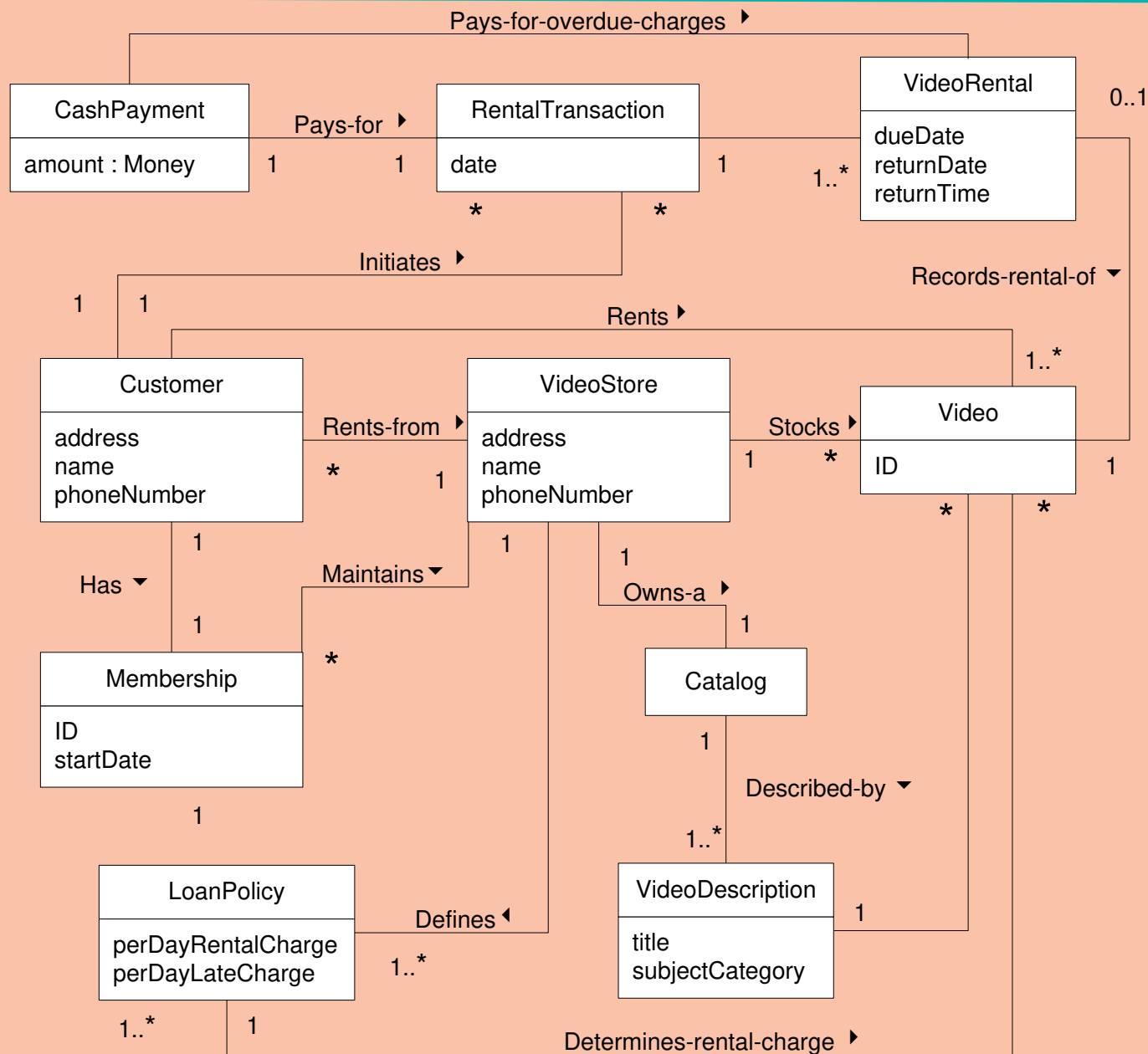


- Show only “simple” relatively primitive types as attributes.
- Connections to other concepts are to be represented as associations, not attributes.



- Why??

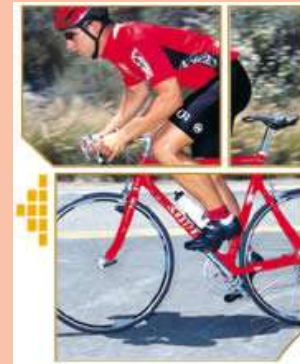


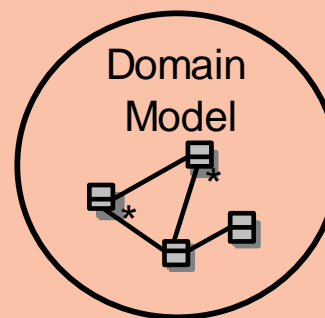


Notice how this can be viewed as a “visual dictionary.” It *illustrates* concepts, words, things in a domain.

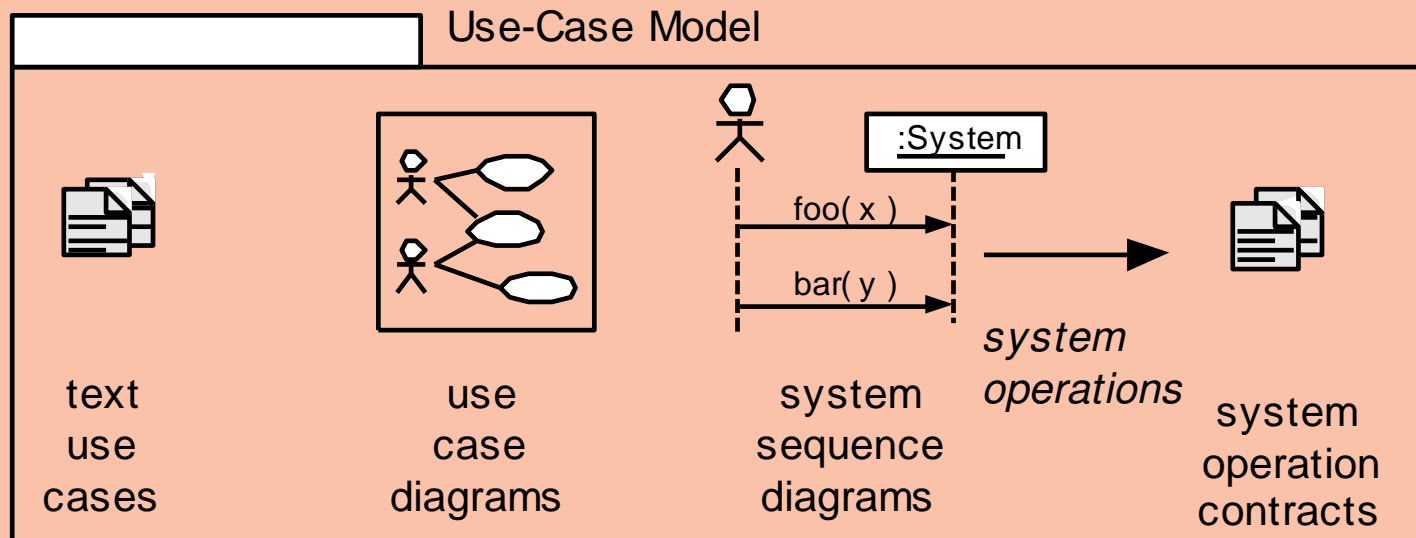
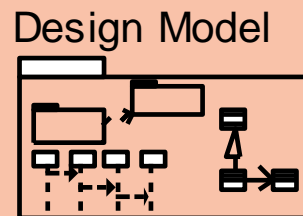


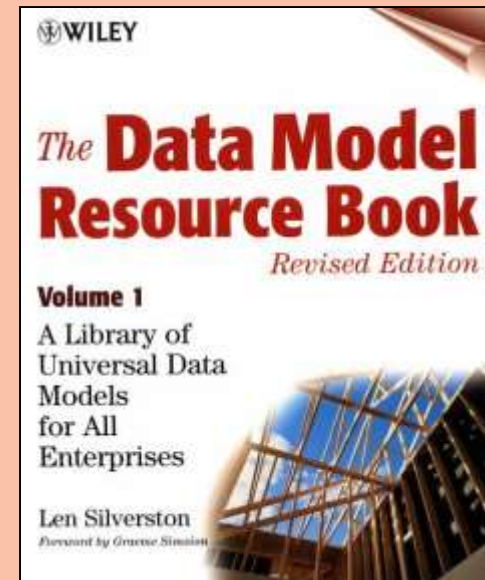
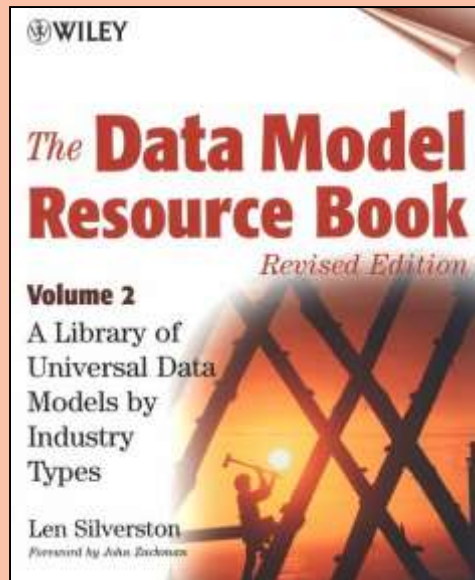
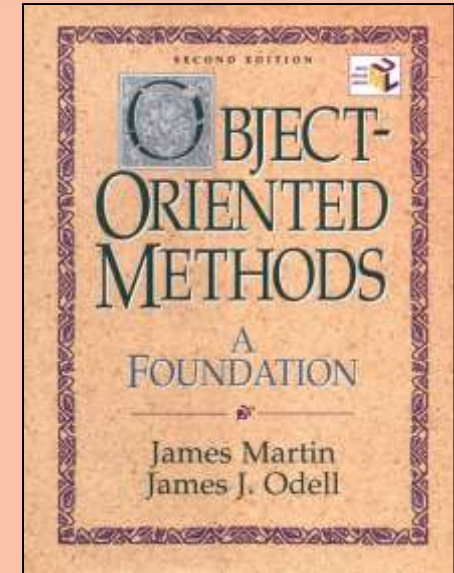
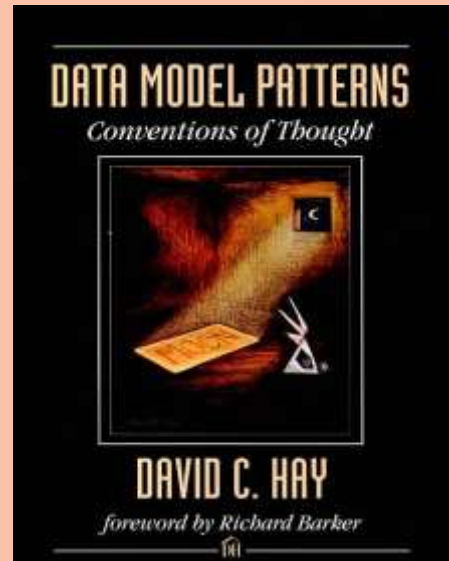
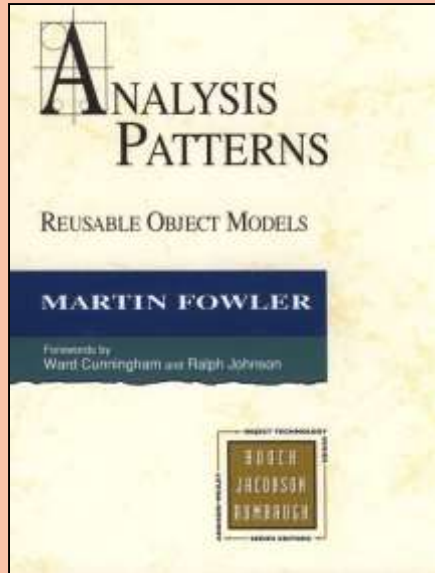
1. In small teams at the whiteboard, draw a partial Domain Model, limited to the Main Success Scenario of the *Process Sale* use case, and assuming iteration 1 simplifications.
  - Use the text's use case as the basis. p. 50
  - Apply the guidelines



**Business Modeling**

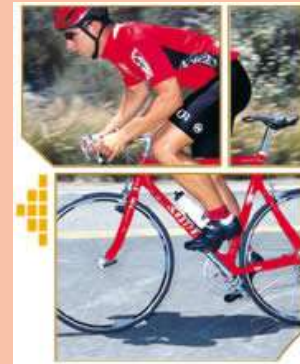
*Partial artifacts, refined in each iteration.*

**Requirements****Design**





1. Without notes, draw all UP disciplines and artifacts discussed, and relate them.



1. Objectives assessment. Can you:
  - Read and write the UML class diagram notation for a Domain Model
  - Create a Domain Model
  - Apply guidelines
  - Relate it to other artifacts

