

Achieving Persistence Ignorance with NHibernate

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What is Persistence Ignorance?

- POCO – Plain Old CLR Object
- No persistence-related code
- Only business logic

```
public class Customer {  
    public string Name { get; }  
    public Location Address { get; }  
    public IList<Order> Orders { get; }  
    public void AddOrder(Order o) {}  
}
```

Why is Persistence Ignorance Important?

- Separation of concerns
- Single responsibility
- Loose coupling
- Testability
- Re-use

NHibernate and PO

- No special persistence-related base class
- No marker or callback interfaces
- No persistence-related attributes
- NHibernate domain class:

```
public class Customer {  
    public string Name { get; }  
    public Location Address { get; }  
    public IList<Order> Orders { get; }  
    public void AddOrder(Order o) {}  
}
```

NHibernate API

Configuration	Class for bootstrapping NHibernate
ISessionFactory	Factory for creating sessions
ISession	Roughly analogous to a database connection
ITransaction	Abstracts underlying transaction semantics
IQuery	String-based query API aka HQL
ICriteria	Object-based query API aka Criteria

Key Features for PI

- Persistence by reachability
- Automatic dirty checking
- Transparent lazy loading

Resources

- NHibernate (<http://www.nhibernate.org>)
- NHibernate Resources (<http://www.hibernate.org/365.html>)
- NHUsers Google Group
(<http://groups.google.com/group/nhusers>)
- ActiveWriter
(<http://using.castleproject.org/display/Contrib/ActiveWriter>)

NHibernate in Action

MEAP

Unedited Draft

Pierre Henri Kuate
Tobin Harris
Christian Bauer
Gavin King

 MANNING



 MANNING

Domain-Driven

DESIGN

Tackling Complexity in the Heart of Software



Eric Evans
Foreword by Martin Fowler

Jimmy Nilsson

Applying Domain-Driven
Design and Patterns

With Examples in C# and .NET

Forewords by Martin Fowler and Eric Evans

Object-Relational Mapping with NHibernate

Intensive 3-day course

Date: **August 2008**

Location: **Calgary, AB**

Cost: **\$2000 CAD**

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Questions

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