

# Object-oriented modeling and design

## Chapter 1

### Introduction

Object oriented means a collection of discrete objects that incorporate both data structure and behavior.

The characteristics required by an OO approach include 4 aspects:

Identity, classification, inheritance and polymorphism.

Identity means data is quantized into discrete, distinguishable entities called objects. Objects can be concrete such as a file in a file system. Each object has its own identity. Two objects are distinct even if all their attribute values are identical.

Classification means that objects with the same data structure and behavior are grouped into a class. Each object is said to be an instance of a class. An object has its own value for each attribute but shares the attribute names and operations with other instances of the class.

Inheritance is the sharing of attributes and operations among classes based on a hierarchical relationship. A super class has general information that subclasses refine and elaborate. Each subclass inherits all the features of its super class and adds its own unique features.

Polymorphism means that the same operation may behave differently for different classes. The move operation for example behaves differently for a pawn than for the queen in the chess game.

An operation is a procedure or transformation that an object performs or is subject to. An implementation of an operation by a specific class is called a method.

#### **OO Development:**

Development refers to the software life cycle: analysis, design and implementation. The essence of OO Development is the identification and organization of application concepts, rather than their final representation in a programming language.

**Modeling Concepts:** In the past, much of the programming languages focused on implementation rather than analysis and design.

OO development is a conceptual process independent of a programming language until final stages. OO development is fundamentally a way of thinking and not a programming technique.

# Chapter Introduction To Object Oriented Design

**Jaime Nino, Frederick A. Hosch**



## **Chapter Introduction To Object Oriented Design:**

*An Introduction to Object-Oriented Programming with Visual Basic .NET* Dan Clark, 2008-01-01 As you work your way through *An Introduction to Object Oriented Programming with Visual Basic NET* you ll learn how to analyze the business requirements of an application model the objects and relationships involved in the solution design and finally implement the solution using Visual Basic NET Along the way you ll also learn the fundamentals of software design the Unified Modeling Language UML object oriented programming and Visual Basic NET *An Introduction to Object Oriented Programming with Visual Basic NET* is logically organized into three parts Part One delves into object oriented programming methodology and design concepts that transcend a particular programming language The concepts presented are important to the success of an object oriented programming solution regardless of the implementation language chosen At the conclusion of this part a case study walks you through the design of a solution based on a real world scenario Part Two looks at how object oriented programming is implemented in Visual Basic NET You will explore the structure of classes class hierarchies inheritance and interfaces The .NET Framework is introduced along with the Visual Studio integrated development environment IDE Part Three returns to the case study introduced at the end of Part One Using the knowledge gained in Part Two programmers will transform the design into a functional VB .NET application The application includes a graphical user interface a business logic class library and integration with a back end database

*Practical Object-Oriented Design* Sandi Metz, 2018-07-10 The Complete Guide to Writing Maintainable Manageable Pleasing and Powerful Object Oriented Applications Object oriented programming languages exist to help you create beautiful straightforward applications that are easy to change and simple to extend Unfortunately the world is awash with object oriented OO applications that are difficult to understand and expensive to change *Practical Object Oriented Design* Second Edition immerses you in an OO mindset and teaches you powerful real world object oriented design techniques with simple and practical examples Sandi Metz demonstrates how to build new applications that can survive success and repair existing applications that have become impossible to change Each technique is illustrated with extended examples in the easy to understand Ruby programming language all downloadable from the companion website [poodr.com](http://poodr.com) Fully updated for Ruby 2.5 this guide shows how to Decide what belongs in a single class Avoid entangling objects that should be kept separate Define flexible interfaces among objects Reduce programming overhead costs with duck typing Successfully apply inheritance Build objects via composition Whatever your previous object oriented experience this concise guide will help you achieve the superior outcomes you re looking for Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

**Object-Oriented Programming Understanding Classes and Objects** Sunil Kumar Saini, 2023-04-27 *Object Oriented Programming Understanding Classes and Objects* is a book title that suggests it is a guide to learning about object oriented programming OOP concepts with a focus on classes and objects Object oriented programming is a programming paradigm

that emphasizes the use of objects which are instances of classes that encapsulate data and behavior. Classes define the structure and behavior of objects while objects are instances of classes that contain data and can perform actions or methods. This book likely covers topics such as defining and using classes, creating and manipulating objects, encapsulation, inheritance, polymorphism, and other OOP principles. It may also cover design patterns and best practices for using OOP in software development. Overall, this book would be a helpful resource for those looking to deepen their understanding of OOP concepts specifically related to classes and objects.

**Practical Object-oriented Design in Ruby** Sandi Metz, 2013. The Complete Guide to Writing More Maintainable, Manageable, Pleasing, and Powerful Ruby Applications. Ruby's widely admired ease of use has a downside: Too many Ruby and Rails applications have been created without concern for their long-term maintenance or evolution. The Web is awash in Ruby code that is now virtually impossible to change or extend. This text helps you solve that problem by using powerful, real-world object-oriented design techniques which it thoroughly explains using simple and practical Ruby examples. This book focuses squarely on object-oriented Ruby application design. Practical Object-Oriented Design in Ruby will guide you to superior outcomes whatever your previous Ruby experience. Novice Ruby programmers will find specific rules to live by; intermediate Ruby programmers will find valuable principles they can flexibly interpret and apply; and advanced Ruby programmers will find a common language they can use to lead development and guide their colleagues. This guide will help you understand how object-oriented programming can help you craft Ruby code that is easier to maintain and upgrade. Decide what belongs in a single Ruby class. Avoid entangling objects that should be kept separate. Define flexible interfaces among objects. Reduce programming overhead costs with duck typing. Successfully apply inheritance. Build objects via composition. Design cost-effective tests. Solve common problems associated with poorly designed Ruby code.

A Practical Introduction to Object-Oriented Design with C++ Steven P. Reiss, 1998-10-06. Learn the tools and techniques needed to design and implement moderate-sized software systems. Do you want to gain the necessary skills to effectively write moderate-sized 10,000 to 50,000 line programs? Would you like to develop a more advanced understanding of object-oriented design and learn how to implement important design and style rules? Do you want to be able to take a project from the concept stage to completion? This is all possible with Steven Reiss's innovative text. A Practical Introduction to Software Design with C. Reiss provides you with all the tools and techniques to enable you to design and implement moderate-sized software systems alone or in a team. The book details the proper use of inheritance, design notations using a simplified form of OMT to describe designs, the use of object libraries such as STL, creating library classes, and the use of design patterns. You'll also find useful discussions on advanced language and programming features such as exception handling, interprocess communication, and debugging tools and techniques.

*An Introduction to Object-oriented Programming* Timothy Budd, 1997. Discover the basic concepts of object-oriented programming and the elements of object-oriented design. Timothy Budd teaches objects, class methods, inheritance, including multiple inheritance, polymorphism, and principles in a

language independent manner with examples from five different languages C Delphi Java Objective C and Smalltalk Java and Object Orientation: An Introduction John Hunt,2011-06-28 This second edition shows readers how to build object oriented applications in Java Written in a clear and concise style with lots of examples this revised edition provides a detailed understanding of object orientation a thorough introduction to Java including building blocks constructs classes data structures etc coverage of graphical user interfaces and applets AWT Servlets and object oriented analysis If you are looking for a good introduction to Java and object orientation then this is the book for you Source code for the examples in this book is available on the Internet **An Introduction to Programming and Object-Oriented Design Using JAVA** Jaime

Nino,Frederick A. Hosch,2002 Covers I O applets Java syntax design patterns and distinction between specification and implementation An Introduction to Object-oriented Design in C++ Jo Ellen Perry,Harold D. Levin,1996 Which comes first learning object oriented design or programming in C The authors present an object oriented approach at the outset as the best way to learn introductory programming concepts C doesn't have to be the top hierarchical level at the end of a programming journey The object oriented features of C are used as an appropriate foundation for learning to program

**Introduction to Programming and Object-Oriented Design Using Java** Jaime Niño,Frederick A. Hosch,2008-02-04 The 3rd edition of Introduction to Programming and Object Oriented Design continues to provide students with an objects first introduction to programming and software design using Java Java is used as a vehicle for teaching problem modeling using fundamental software engineering principles and concepts The text has been updated to include more problems and exercises and additional relevant examples It also offers optional interactive exercises using the DrJava integrated development environment IDE The UML is employed very informally for denoting objects object relationships and system dynamics No specific previous programming experience is assumed and the text is appropriate for first year computer science majors The text could also carry over to a second course on data structures or software OO design **Introduction to Object-oriented Programming with C++** Anita C. Millspaugh,1999 The trend in programming design is moving towards an object oriented approach This is due to many influences in the evolution of software and hardware As many systems become graphically interfaced and the demand for easier to use software increases the program complexity expands dramatically A solution to the complexity of programs is to develop them using an approach resembling the real life relationship of objects The traditional structured approach to programming is limited through its treatment of data and actions as distinct entities By dealing with data and instructions as interwoven items the ability to develop reusable code is enhanced Object oriented programming in C requires an understanding of encapsulation of data classes polymorphism overloading and inheritance of classes *Object-oriented Programming with Java* Barry J. Holmes,Daniel T. Joyce,2001 Object Oriented Programming With Java Was Developed For Students In The Science Engineering And Business Fields Where Knowledge Of Programming Is Thought To Be Essential This Text On Modern Software Development Contains

Material That Is Typically Covered In A CS1 Course In Addition To Traditional Introductory Programming Concepts Object Oriented Concepts And Techniques Such As Inheritance And Polymorphism Are Presented In A Student Friendly Manner Java Related Topics Such As Exception Handling And The Java I O Models Are Carefully Treated And An Entire Chapter Is Devoted To Java Applets *Journal of Object-oriented Programming*, 1995 **Java 2 Programmer** William B. Brogden, Marcus Green, 2003 This book focuses on what is needed to get certified in the Java 2 programmer exam It features test taking strategies time saving study tips and a special CramSheet that includes tips acronyms and memory joggers *An Introduction to Object-oriented Programming with Java C.* Thomas Wu, 2006 An Introduction to Object Oriented Programming with Java provides an accessible and technically thorough introduction to the basics of programming using java The fourth edition continues to take a truly object oriented approach Objects are used early so that students think in objects right from the beginning In the fourth edition the coverage on defining classes has been made more accessible The material has been broken down into smaller chunks and spread over two chapters making it more student friendly Also new to this edition is the incorporation of Java 5 0 features including use of the Scanner Class and the Formatter Class The hallmark feature of the book Sample Development Programs are continued in this edition These provide students with an opportunity to incrementally step by step walk through program design learning the fundamentals of software engineering Object diagrams using a subset of UML also continue to be an important element of Wu s approach The consistent visual approach assists students in understanding concepts Handles Consistent Problem solving approach at the end of each chapter that follows o Problem Statement o Overall Plano Designo Codeo Test Diagrams SHOW Problem Solving Placement of Objects first Aids students in Problem Solving 5 0 update is included in this revision With the 5 0 Revision is the incorporation of two new classes 1 The Scanner Class 2 Formatter Class Pedagogy Tools to Problem Solve Design Guidelines Helpful Reminders Take my Advice Boxes You Might Want to Know Boxes Quick Check Exercises *Programming and Problem Solving with Visual Basic .NET* Nell B. Dale, 2003 This book continues to reflect our experience that topics once considered too advanced can be taught in the first course The text addresses metalanguages explicitly as the formal means of specifying programming language syntax *Object-oriented Modeling and Design* James Rumbaugh, 1991 This text applies object oriented techniques to the entire software development cycle **Introduction to JAVA Programming** Y. Daniel Liang, 2007 Programming is above all problem solving This book will help student thoroughly understand real world programming problems and solve those problems quickly and efficiently using Java 5 Ideal for novice programmers this book begins by providing a rock solid foundation in core programming and problem solving techniques Building on this foundation students steadily deepen their skills one step at a time They master basic object oriented programming and design create effective event driven GUIs use exception handling to build more robust software learn best practices for managing I O even use recursive methods to simplify difficult problems BOOK JACKET *Object-oriented Design in C++ Using the Standard*

*Template Library* Nicholas J. DeLillo, 2002 The primary focus of Nick DeLillo's new book is on object oriented design OOD using the Standard Template Library STL The STL provides reusable reliable components for software design so students don't have to be concerned with the correctness and efficiency of the code they design The author assumes students have prior knowledge of data structures and algorithms then builds upon this knowledge by introducing the use of the STL Chapters 1-4 serve as a review of Data Structures and Algorithms including such topics as encapsulation inheritance polymorphism and traditional data structures In Chapter 5 the transition is made to using the STL to accomplish these same tasks enabling students to see the benefit of using these predefined tools The students also are introduced to OOD projects and how the STL is a powerful tool for this type of work While several texts may cover pieces of these topics this is the first text that covers them in one comprehensive book

**The Waite Group's Object-oriented Programming in C++** Robert Lafore, 1999 This tutorial presents the sophisticated new features of the most current ANSI ISO C standard as they apply to object oriented programming Learn the concepts of object oriented programming why they exist and how to utilize them to create sophisticated and efficient object oriented applications This book expects you to be familiar with basic programming concepts It is no longer enough to understand the syntax and features of the language You must also be familiar with how these features are put to use Get up to speed quick on the new concepts of object oriented design patterns CRC modeling and the new Universal Modeling Language UML which provides a systematic way to diagram the relationship between classes Object oriented programming is presented through the use of practical task oriented examples and figures that help conceptualize and illustrate techniques and approaches and questions and exercises to reinforce learning concepts

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