Object Oriented Software Engineering David Kung

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Object Oriented Design Pitfalls*David West - The Past and Future of Domain-Driven Design Object Orientation Introduction - Georgia Tech - Software Development Process Complex Adaptive Systems - Dave Snowden - DDD Europe 2018*

polymorphism | Object oriented software engineering |Functional versus Object-Oriented Programming (ft. Martin Odersky) *Dependency Injection System Design Interview Question: DESIGN A PARKING LOT - asked at Google, Facebook Object-oriented Programming in 7 minutes | Mosh* **Domain Driven Design: The Good Parts - Jimmy Bogard What is abstraction in programming?** *\"Uncle\" Bob Martin - \"The Future of Programming\"* **Computer programming: What is object-oriented language? | lynda.com overview Validation Testing by Harsha** Pong \u0026 Object Oriented Programming - Computerphile ~~encapsulation | Object oriented software engineering |~~ **David Oswald - \"Abstraction, Encapsulation, Polymorphism, and Inheritance\"** 8. Object Oriented Programming *Visitas Thinks Big 2016 - Abstraction by Professor David J. Malan* ~~data abstraction | object oriented software engineering |~~

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Object-oriented software engineering : an agile unified methodology by David C. Kung, 2014, McGraw-Hill edition,

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Object-Oriented Software Engineering: An Agile Unified Methodology by David Kung, 9780073376257, available at Book Depository with free delivery worldwide.

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Object-oriented software engineering (commonly known by acronym OOSE) is an object-modeling language and methodology. OOSE was developed by Ivar Jacobson in 1992 while at Objectory AB . It is the first object-oriented design methodology to employ use cases to drive software design .

~~Object-oriented software engineering - Wikipedia~~

In the object-oriented design method, the system is viewed as a collection of objects (i.e., entities). The state is distributed among the objects, and each object handles its state data. For example, in a Library Automation Software, each library representative may be a separate object with its data and functions to operate on these data.

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Focused on software quality, Eiffel is a purely object-oriented programming language and a notation supporting the entire software lifecycle. Meyer described the Eiffel software development method, based on a small number of key ideas from software engineering and computer science, in Object-Oriented Software Construction .

~~Object-oriented programming - Wikipedia~~

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It also discusses object-oriented analysis. Software Design Theory. Parnas, David L., and Paul C. Clements. "A Rational Design Process: How and Why to Fake It." IEEE Transactions on Software Engineering SE-12, no. 2 (February 1986): 251–57. This classic article describes the gap between how programs are really designed and how you sometimes ...

~~Code Complete: Design in Construction | Microsoft Press Store~~

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Object-Oriented Software Engineering: An Agile Unified Methodology by David Kung presents a step-by-step methodology that integrates modeling and design, UML, patterns, test-driven development, quality assurance, configuration management, and agile principles throughout the life cycle. The overall approach is casual and easy to follow, with many practical examples that show the theory at work. The author uses his experiences as well as real-world stories to help the reader understand software design principles, patterns, and other software engineering concepts. The book also provides stimulating exercises that go far beyond the type of question that can be answered by simply copying portions of the text.

"Head First Object Oriented Analysis and Design is a refreshing look at subject of OOAD. What sets this book apart is its focus on learning. The authors have made the content of OOAD accessible, usable for the practitioner." Ivar Jacobson, Ivar Jacobson Consulting "I just finished reading HF OOA&D and I loved it! The thing I liked most about this book was its focus on why we do OOA&D-to write great software!" Kyle Brown, Distinguished Engineer, IBM "Hidden behind the funny pictures and crazy fonts is a serious, intelligent, extremely well-crafted presentation of OO Analysis and Design. As I read the book, I felt like I was looking over the shoulder of an expert designer who was explaining to me what issues were important at each step, and why." Edward Sciore,Associate Professor, Computer Science Department, Boston College Tired of reading Object Oriented Analysis and Design books that only makes sense after you're an expert? You've heard OOA&D can help you write great software every time-software that makes your boss happy, your customers satisfied and gives you more time to do what makes you happy. But how? Head First Object-Oriented Analysis & Design shows you how to analyze, design, and write serious object-oriented software: software that's easy to reuse, maintain, and extend; software that doesn't hurt your head; software that lets you add new features without breaking the old ones. Inside you will learn how to: Use OO principles like encapsulation and delegation to build applications that are flexible Apply the Open-Closed Principle (OCP) and the Single Responsibility Principle (SRP) to promote reuse of your code Leverage the power of design patterns to solve your problems more efficiently Use UML, use cases, and diagrams to ensure that all stakeholders arecommunicating clearly to help you deliver the right software that meets everyone's needs. By exploiting how your brain works, Head First Object-Oriented Analysis & Design compresses the time it takes to learn and retain complex information. Expect to have fun, expect to learn, expect to be writing great software consistently by the time you're finished reading this!

Addressing various aspects of object-oriented software techniques with respect to their impact on testing, this text argues that the testing of object-oriented software is not restricted to a single phase of software development. The book concentrates heavily on the testing of classes and of components or sub-systems, and a major part is devoted to this subject. C++ is used throughout this book that is intended for software practitioners, managers, researchers, students, or anyone interested in object-oriented technology and its impacts throughout the software engineering life-cycle.

In OBJECT THINKING, esteemed object technologist David West contends that the mindset makes the programmer--not the tools and techniques. Delving into the history, philosophy, and even politics of object-oriented programming, West reveals how the best programmers rely on analysis and conceptualization--on thinking--rather than formal process and methods. Both provocative and pragmatic, this book gives form to what's primarily been an oral tradition among the field's revolutionary thinkers--and it illustrates specific object-behavior practices that you can adopt for true object design and superior results. Gain an in-depth understanding of: Prerequisites and principles of object thinking. Object knowledge implicit in eXtreme Programming (XP) and Agile software development. Object conceptualization and modeling. Metaphors, vocabulary, and design for object development. Learn viable techniques for: Decomposing complex domains in terms of objects. Identifying object relationships, interactions, and constraints. Relating object behavior to internal structure and implementation design. Incorporating object thinking into XP and Agile practice.

Software Design: Creating Solutions for Ill-Structured Problems, Third Edition provides a balanced view of the many and varied software design practices used by practitioners. The book provides a general overview of software design within the context of software development and as a means of addressing ill-structured problems. The third edition has been expanded and reorganised to focus on the structure and process aspects of software design, including architectural issues, as well as design notations and models. It also describes a variety of different ways of creating design solutions such as plan-driven development, agile approaches, patterns, product lines, and other forms. Features •Includes an overview and review of representation forms used for modelling design solutions •Provides a concise review of design practices and how these relate to ideas about software architecture •Uses an evidence-informed basis for discussing design concepts and when their use is appropriate This book is suitable for undergraduate and graduate students taking courses on software engineering and software design, as well as for software engineers. Author David Budgen is a professor emeritus of software engineering at Durham University. His research interests include evidence-based software engineering (EBSE), software design, and healthcare informatics.

Provides information on analyzing, designing, and writing object-oriented software.

Test-Driven Development (TDD) is now an established technique for delivering better software faster. TDD is based on a simple idea: Write tests for your code before you write the code itself. However, this "simple" idea takes skill and judgment to do well. Now there's a practical guide to TDD that takes you beyond the basic concepts. Drawing on a decade of experience building real-world systems, two TDD pioneers show how to let tests guide your development and “grow” software that is coherent, reliable, and maintainable. Steve Freeman and Nat Pryce describe the processes they use, the design principles they strive to achieve, and some of the tools that help them get the job done. Through an extended worked example, you’ll learn how TDD works at multiple levels, using tests to drive the features and the object-oriented structure of the code, and using Mock Objects to discover and then describe relationships between objects. Along the way, the book systematically addresses challenges that development teams encounter with TDD—from integrating TDD into your processes to testing your most difficult features. Coverage includes Implementing TDD effectively: getting started, and maintaining your momentum throughout the project Creating cleaner, more expressive, more sustainable code Using tests to stay relentlessly focused on sustaining quality Understanding how TDD, Mock Objects, and Object-Oriented Design come together in the context of a real software development project Using Mock Objects to guide object-oriented designs Succeeding where TDD is difficult: managing complex test data, and testing persistence and concurrency

David A. Sykes is a member of Wofford College's faculty.