

Design Patterns Gang Of Four

Design Patterns Gang Of Four Design Patterns The Gang of Four The Gang of Four GoF book Design Patterns Elements of Reusable ObjectOriented Software published in 1994 is a seminal work in software design It introduced 23 fundamental design patterns that have become invaluable tools for developers across various programming languages and domains This comprehensive guide explores the essence of GoF patterns their classification key concepts and the benefits they offer What are Design Patterns Design patterns are reusable solutions to common problems encountered during software design They are not code snippets but rather blueprints for solving recurring issues in a consistent and flexible manner Each pattern describes a relationship between classes or objects addressing specific aspects like communication responsibility and flexibility Why Use Design Patterns 1 Improved Code Readability Maintainability Patterns promote a standardized approach to code making it easier for developers to understand and modify existing code 2 Enhanced Reusability By implementing patterns you can create reusable components that can be applied in different projects saving time and effort 3 Reduced Complexity Patterns simplify complex designs by breaking them down into smaller manageable units making the overall system more understandable 4 Flexibility Extensibility Patterns encourage modularity allowing for easier modifications and extensions without affecting the entire system 5 Communication Collaboration Using a common design language provided by patterns facilitates communication and collaboration among developers Categorizing GoF Patterns The 23 GoF patterns are organized into three main categories 1 Creational Patterns These patterns deal with the instantiation of objects providing flexible and controlled ways to create instances Abstract Factory Provides an interface for creating families of related objects without specifying their concrete classes 2 Builder Separates the construction of a complex object from its representation Factory Method Defines an interface for creating objects but lets subclasses decide which class to instantiate Prototype Specifies the kinds of objects to create using a prototypical instance Singleton Ensures that a class has only one instance and provides a global point of access to it 2 Structural Patterns These patterns deal with the composition of objects focusing on how classes and objects are combined to form larger structures Adapter Converts the interface of a class into another interface clients expect Bridge

Decouples an abstraction from its implementation Composite Composes objects into tree structures to represent partwhole hierarchies Decorator Dynamically adds responsibilities to an object Facade Provides a simplified interface to a complex subsystem Flyweight Shares objects to support large numbers of finegrained objects efficiently Proxy Provides a surrogate or placeholder for another object to control access to it 3 Behavioral Patterns These patterns focus on the communication and interaction between objects defining algorithms and responsibilities between collaborating objects Chain of Responsibility Avoids coupling the sender of a request to its receiver by giving multiple objects a chance to handle the request Command Encapsulates a request as an object Interpreter Defines a grammatical representation for a language and provides an interpreter to deal with this grammar Iterator Provides a way to access the elements of an aggregate object sequentially without exposing its underlying representation Mediator Defines an object that encapsulates how a set of objects interact Memento Captures and externalizes an objects internal state Observer Defines a onetomany dependency between objects so that when one object changes state all its dependents are notified State Allows an object to alter its behavior when its internal state changes Strategy Defines a family of algorithms encapsulates each one and makes them interchangeable Template Method Defines the skeleton of an algorithm in a method deferring some steps to subclasses Visitor Represents an operation to be performed on the elements of an object structure 3 Key Concepts Abstraction Patterns often involve abstract classes or interfaces promoting code reusability and flexibility Encapsulation Patterns encapsulate complexity hiding implementation details and simplifying interaction Polymorphism Patterns leverage polymorphism to achieve flexibility allowing for dynamic behavior based on object types Delegation Patterns often delegate responsibilities to other objects promoting separation of concerns and modularity Composition Patterns use composition to build complex objects from simpler ones increasing flexibility and maintainability Benefits of Using GoF Patterns Code Reusability Scalability Patterns promote modular and reusable code leading to faster development and easier maintenance Improved Code Quality By adhering to established patterns you can achieve more consistent and reliable code Enhanced Communication Collaboration Patterns provide a common language for developers facilitating communication and collaboration Faster Learning Curve Patterns provide a framework for understanding and applying design principles accelerating the learning process Robust Flexible Systems Patterns lead to more robust and flexible systems adaptable to changing requirements Conclusion The GoF design patterns are a powerful and valuable tool for software developers By

understanding and applying these patterns you can create more robust flexible and maintainable software systems Its important to remember that patterns are not a silver bullet but a valuable tool that can enhance your software design process Choose the patterns that best suit your specific needs and context and use them wisely to create well structured scalable and reliable software solutions 4

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introduction indictment monsters testimony emotions verdict vanity conclusion index of chinese terms

this book first published in 1980 addresses the questions raised by the death of mao zedong and the arrest of the gang of four was china reverting to a capitalist form of development and abandoning mao's policies was china's leadership remaining loyal to mao's strategy but correcting damage done by the gang of four the essays in this book analyse these questions and illustrate differences in interpretation amongst the post

mao leadership individual chapters deal with disagreements over political line the role of the ccp economic policy and industrial management policy towards the rural sector controversies over the role of art and literature the nature and function of the education system and the incorporation of china into the international economy

author dr li jin wei male was born in shanghai china on february 29 1956 in terms of education junior high school graduates whose 10 year education was interrupted due to the impact of the great proletarian cultural revolution in chinese history from 1966 to 1977 obtained a high school diploma through self study from the spring of 1980 to the spring of 1982 he studied in the introductory english course of evening college at shanghai foreign language institute in 1984 he passed the examination and was admitted to the department of history east china normal university one of the famous universities in china to major in political history he graduated in 1989 with a diploma and a bachelor of arts degree in 1989 he continued to study on the job graduate courses in the department of economics of east china normal university majoring in world economics in 1991 he completed six courses in 1996 he was awarded a master s degree in economics by east china normal university in 2016 he began to study the bible and theology for many years in 2019 he entered the art department of the current politics department of shanghai veteran cadre university he studied the course political economy and international issues research and piano art courses such as baier and czerny 599 for many years from january 2020 to january 2022 he studied 20 interdisciplinary certificate courses at harvard university in the united states focusing on theology and american government with an average test score of 96 points he obtained two series of course graduation certificates and course completion certificates in may 2021 he was awarded two honorary doctorates of letters from american trinity university and evangel christian university of america occupationally he started as an ordinary salesperson in a world famous large shanghai no 1 food store on nanjing road shanghai he was admitted to the state owned foreign trade company system as a shanghai garment import and export company cadre he began drafting laws and regulations and temporarily worked in the shanghai justice bureau legal publicity and then entered the past and present world influential world one of the top ten famous think tanks in china the shanghai institute for international studies directly under the shanghai municipal government worked for a long time as a researcher editor and legal counsel transitioned to self employment in canada and succeeded started and completed the legal consulting business of jinwei immigration consultants in terms of literary creation as an influential international relations scholar he continued to engage

in the creation of literature and international relations works in his later years in october 2022 he published an introduction and discussion with 700 000 words in three languages english french and chinese christianity the world complete series of books they are 1 christianity and world civilization 2 christianity and world culture 3 christianity and the world economy 4 christianity and world history 5 christianity and the law of the world 6 christianity and world vision 7 christianity and world peace 8 christianity and world politics 9 christianity and world religions 10 christianity and universal values in march 2023 world war iii and its possibilities was published in both chinese 270 000 words and english 130 000 words in addition to writing books and speaking according to the significant evolution of international relations in the current situation he often publishes professional articles and theses while researching world peace issues he continues to help some people in need with personal charity the author s representative works in the 1990s are as editor in chief of encyclopedia of foreign affairs knowledge 1 25 million words shanghai translation publishing condo in 1992 chief editor of practical encyclopedia of foreign affairs knowledge 1 8 million words shanghai translation publishing condo in 1997 shanghai library collected these two professional books in encyclopedias the second edition of self realization has 1 2 million chinese and 820 000 words english words it was a revised and supplemented version of the author s latest memoir and biographical success story in 2018 its work is self writing self editing self typesetting and self published the national library and archives of canada and the british library collected the first editions of self realization in 2018 the author writes along the lines of suffering childhood naughty childhood discriminated teenager struggling youth suffering middle age successful adult old age who continues to struggle involving the author s long term pursuit of knowledge and continuous progress throughout his life running through the author s hobbies health care many relatives friends friends central classmates from elementary school to harvard and other social relationships supplemented by the historical portrayal of the author s growth environment it not only introduces the social development of multiple levels of chinese society and evolution politics economy culture science and technology civil affairs foreign affairs national defence environment and introduces the natural environment political system working environment immigration gains and losses the free market economy information internet society and the era of internationalization of the united states and canada in western countries the historical background of major domestic events have shaped the author s success and self realization at various stages of life in an environment of self struggle for more than 60 years the title of the work is based on the american psychologist abraham harold abraham harold maslow april 1

1908 june 8 1970 the highest stage of the humanistic theory of life is self realization because the author s ideal and intention has been self realized one by one through continuous struggle in many aspects of the reverse environment find a way and method of struggle that suits you this book is a more comprehensive historical work that introduces the founding and important development of the people s republic of china after 1949 the book is a summary of the author s life it is complete information with more or fewer intersections with the author in various fields at the same age and fully understands the author s complete information it is forward looking and referential it is also a reference book for understanding the actual situation of western north american society

this is the first book to treat the intellectual developments that accompanied the criticizing lin biao and confucius movement and the campaign against the gang of four separating the political issues from the academic issues in both campaigns and reporting the genuine advances to come from the campaigns in archaeology history philosophy sociology and literature following a discussion of the campaign against lin biao professor wu treats those topics examined by chinese scholars un der its impetus slave society in ancient china historical critics and criticisms of confucius confucius and his communist critics the struggle between the confu cian and legalist schools from the late spring and autumn period to quin crit icism of literature and the arts the shui hu zhuan campaign and then shows how in some cases the criticisms of the gang of four further modified and corrected these areas of study his carefully structured presentation and evaluation of this politically encouraged research makes clear the need for scholars to approach such polemics as they would any new data for there were discoveries of enduring significance that re sulted from both movements indeed professor wu approaches this recent scholar ship with such subtle discernment that his work approaches an intellectual history of china completing this remarkable volume are documentary notes and a selected bibli ography divided into nine parts that roughly follow the organization of the text which together offer invaluable sources for further study and research

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