Learning Python Design Patterns - Second Edition

Chetan Giridhar

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Key Features

- Understand the structural, creational, and behavioural Python design patterns
- Get to know the context and application of design patterns to solve real-world problems in software architecture, design, and application development
- Get practical exposure through sample implementations in Python v3.5 for the design patterns featured

Book Description
With the increasing focus on optimised software architecture and design it is important that software architects think about optimisations in object creation, code structure, and interaction between objects at the architecture or design level. This makes sure that the cost of software maintenance is low and code can be easily reused or is adaptable to change. The key to this is reusability and low maintenance in design patterns. Building on the success of the previous edition, Learning Python Design Patterns, Second Edition will help you implement real-world scenarios with Python's latest release, Python v3.5.
We start by introducing design patterns from the Python perspective. As you progress through the book, you will learn about Singleton patterns, Factory patterns, and Facade patterns in detail. After this, we'll look at how to control object access with proxy patterns. It also covers observer patterns, command patterns, and compound patterns.
By the end of the book, you will have enhanced your professional abilities in software architecture, design, and development.

What you will learn

- Enhance your skills to create better software architecture
- Understand proven solutions to commonly occurring design issues
- Explore the design principles that form the basis of software design, such as loose coupling, the Hollywood principle and the Open Close principle among others
- Delve into the object-oriented programming concepts and find out how they are used in software applications
- Develop an understanding of Creational Design Patterns and the different object creation methods that help you solve issues in software development
- Use Structural Design Patterns and find out how objects and classes interact to build larger applications
- Focus on the interaction between objects with the command and observer patterns
- Improve the productivity and code base of your application using Python design patterns

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7. The Command Pattern - Encapsulating Invocation
8. The Template Method Pattern - Encapsulating Algorithm
9. Model-View-Controller - Compound Patterns
10. The State Design Pattern
11. AntiPatterns

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From reader reviews:

Luther Roberts:

Learning Python Design Patterns - Second Edition can be one of your beginner books that are good idea. All of us recommend that straight away because this book has good vocabulary that could increase your knowledge in words, easy to understand, bit entertaining but nevertheless delivering the information. The article writer giving his/her effort to put every word into joy arrangement in writing Learning Python Design Patterns - Second Edition but doesn't forget the main level, giving the reader the hottest and based confirm resource details that maybe you can be among it. This great information can certainly drawn you into brand new stage of crucial pondering.

John Dumas:

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