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Master the application design using the core design patterns and latest features of Python 3.7 Learn tricks to solve common design and architectural challenges Choose the right plan to improve your programs and increase their productivity Book

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Description Python is an object-oriented scripting language that is used in a wide range of categories.

In software engineering, a design pattern is an elected solution for solving software design problems. Although they have been around for a while, design patterns

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Master The Art Of Design Patterns
remain one of the top topics in software engineering, and are a ready source for software developers to solve the problems they face on a regular basis. This book takes you through a variety of design patterns and explains them with real-world examples. You will get to grips with low-level details

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and concepts that show you how to write Python code, without focusing on common solutions as enabled in Java and C++.

You'll also find sections on corrections, best practices, system architecture, and its designing aspects. This book will help you learn the core

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Master The Art
Of Design
Patterns

concepts of design patterns and the way they can be used to resolve software design problems.

You'll focus on most of the Gang of Four (GoF) design patterns, which are used to solve everyday problems, and take your skills to the next level with reactive and

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functional patterns
that help you build
resilient, scalable, and
robust applications.

By the end of the
book, you'll be able to
efficiently address
commonly faced
problems and develop
applications, and also
be comfortable
working on scalable
and maintainable
projects of any size.

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What you will learn

Explore Factory

Method and Abstract

Factory for object

creation Clone objects

using the Prototype

pattern Make

incompatible

interfaces compatible

using the Adapter

pattern Secure an

interface using the

Proxy pattern Choose

an algorithm

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dynamically using the

Strategy pattern Keep

the logic decoupled

from the UI using the

MVC pattern

Leverage the

Observer pattern to

understand reactive

programming Explore

patterns for cloud-

native, microservices,

and serverless

architectures Who this

book is for This book

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is for intermediate
Python developers.
Prior knowledge of
design patterns is not
required to enjoy this
book.

This book enables
you to develop
financial applications
by harnessing
Python's strengths in
data visualization,
interactive analytics,

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Master The Art
Of Design
Patterns
and scientific
computing. You will
be using popular
libraries such as
TensorFlow, Keras,
sklearn, and so on to
extend the
functionalities of your
financial applications
by using smart
machine learning
techniques.

This book follows a

Page 108/111

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standard tutorial Art
approach with
approximately 750
code samples spread
through the 19
chapters. This
amounts to over
5,900 lines of code
that illustrate each
concept. This book is
aimed at
programmers who
have already learned
the basics of object-

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oriented Python and need to write more sophisticated, flexible code that integrates seamlessly with the rest of Python. This book assumes a computer science background, with experience of common Python design patterns.

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