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umentation

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Software

architecture—the

conceptual glue that

holds every phase

of a project together

for its many

stakeholders—is

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widely recognized as a critical element in modern software development.

Practitioners have increasingly discovered that close attention to a software system's architecture pays valuable dividends. Without an architecture that is

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appropriate for the problem being solved, a project will stumble along or, most likely, fail.

Even with a superb architecture, if that architecture is not well understood or well communicated the project is unlikely to succeed.

Documenting

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Software

Architectures,

Second Edition,

provides the most

complete and

current guidance,

independent of

language or

notation, on how to

capture an

architecture in a

commonly

understandable

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form. Drawing on their extensive experience, the authors first help you decide what information to document, and then, with guidelines and examples (in various notations, including UML), show you how to express an

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architecture so that
others can

successfully build,
use, and maintain a
system from it. The
book features rules
for sound
documentation, the
goals and strategies
of documentation,
architectural views
and styles,
documentation for

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software interfaces and software behavior, and templates for capturing and organizing information to generate a coherent package. New and improved in this second edition:
Coverage of architectural styles

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such as service-oriented architectures, multi-tier architectures, and data models

Guidance for documentation in an Agile development environment Deeper treatment of documentation of rationale, reflecting best industrial

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practices Improved
templates, reflecting
years of use and
feedback, and more
documentation
layout options A
new,
comprehensive
example (available
online), featuring
documentation of a
Web-based service-
oriented system

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Reference guides
for three important
architecture

documentation

languages: UML,
AADL, and SysML

Create engaging
Augmented Reality
(AR) applications
with Unity 3D that
can be experienced
with devices such
as HoloLens and

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Daydream Key
Features Learn the
principles of AR
application
development Work
with the most
popular sensors
used in AR games
and applications
across Android,
Apple and Windows
Build experiences
with interactive

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objects, physics, UI,
animations, and C#
scripting Book

Description

Augmented Reality
allows for radical
innovations in
countless areas. It
magically blends the
physical and virtual
worlds, bringing
applications from a
screen into your

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hands. Meanwhile, Unity has now become the leading platform to develop augmented reality experiences, as it provides a great pipeline for working with 3D assets.

Using a practical and project-based approach, Unity 2018 Augmented

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Reality Projects educates you about the specifics of augmented reality development in Unity 2018. This book teaches you how to use Unity in order to develop AR applications which can be experienced with devices such as HoloLens and

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Daydream. You will learn to integrate, animate, and overlay 3D objects on your camera feed, before gradually moving on to implementing sensor-based AR applications. In addition to this, you will explore the technical

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considerations that are especially important and possibly unique to AR. The projects in the book demonstrate how you can build a variety of AR experiences, whilst also giving insights into C# programming as

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well as the Unity 3D game engine via the interactive Unity Editor. By the end of the book, you will be equipped to develop rich, interactive augmented reality experiences for a range of AR devices and platforms using Unity. What you will learn Build and run

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AR applications for
specific headsets,
including HoloLens
and Daydream
Create 3D scenes
with Unity and other
3D tools while
learning about world
space and scale
Move around your
AR scenes using
locomotion and
teleportation Create

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filters or overlays
that work in tandem
with facial
recognition software
Use GPS,
geolocation
services, and the
camera feed to
create a fitness
application Integrate
AR and VR
concepts together in
a single application

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Who this book is for
Unity 2018

Augmented Reality
Projects is for you if
you're a game
developer familiar
with 3D computer
graphics and
interested in
building your own
AR games or
applications. Any
experience in Unity

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and C# is an
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advantage.

Pro Git (Second Edition) is your fully-updated guide to Git and its usage in the modern world. Git has come a long way since it was first developed by Linus Torvalds for Linux kernel development. It has taken the

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open source world
by storm since its
inception in 2005,
and this book
teaches you how to
use it like a pro.
Effective and well-
implemented
version control is a
necessity for
successful web
projects, whether
large or small. With

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this book you'll learn how to master the world of distributed version workflow, use the distributed features of Git to the full, and extend Git to meet your every need.

Written by Git pros Scott Chacon and Ben Straub, Pro Git (Second Edition)

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builds on the hugely successful first edition, and is now fully updated for Git version 2.0, as well as including an indispensable chapter on GitHub. It's the best book for all your Git needs.

Modernsoftwaresystemsincreasinglyuse

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commercial-off-the-shelf(COTS)software products as building blocks. In some cases, major software systems are assembled with virtually no custom code in the system. The use of COTS software products as components offers the promise of

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rapid delivery to end
users, shared

development costs
with other

customers, and an
opportunity for
expanding mission

or business

capabilities and

performance as

improvements are

made in the

commercial

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marketplace. Few organizations today can afford the resources and time to replicate market-tested capabilities. Yet, the promise of COTS products is too often not realized in practice. There have been more failures than successes in using

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COTS software products. The research and software practitioner communities have been working with COTS-based software systems for a number of years. There is now sufficient documented experience in the

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community to collect, analyze, and disseminate success stories, common failings, lessons-learned, and research advances. The mounting experience shows that the effective use of COTS software products in

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major software systems demands new skills, knowledge, and abilities, changed roles and responsibilities, and different techniques and processes. The International Conference on COTS-Based Software Systems

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(ICCBSS) focuses on the challenges of building and maintaining systems that incorporate CO TS software products .The conference sponsors, the National Research Council Canada, the Software Engineering Institute, and the

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University of
Southern California
Center for Software
Engineering, aim to
bring together
managers, -
velopers,
maintainers, and
researchers to
share their expertise
and experience.

Views and Beyond

Perl Template

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Toolkit
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Software
Engineering with
UML
COTS-Based
Software Systems
Word 2007
Software
Requirement
Patterns
The most
comprehensive

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General, Organic,
and Biochemistry

book available,

Introduction to

General, Organic,

and

Biochemistry,

11th Edition

continues its

tradition of a

solid

development of

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problem-solving
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skills, numerous
examples and
practice

problems, along
with coverage of
current
applications.

Written by an
experienced
author team,
they skillfully

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anticipate areas
of difficulty and
pace the book
accordingly.

Readers will find
the right mix of
general
chemistry
compared to the
discussions on
organic and
biochemistry.

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Introduction to
General, Organic,
and
Biochemistry,
11th Edition has
clear & logical
explanations of
chemical
concepts and
great depth of
coverage as well
as a clear,

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consistent

writing style

which provides

great readability.

An emphasis on

Real-World

aspects of

chemistry makes

the reader

comfortable in

seeing how the

chemistry will

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apply to their
career.

Learn to
integrate
programming
with good
documentation.
This book
teaches you the
craft of
documentation
for each step in

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the software development lifecycle, from understanding your users ' needs to publishing, measuring, and maintaining useful developer documentation. Well-documented

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projects save

time for both

developers on

the project and

users of the

software.

Projects without

adequate

documentation

suffer from poor

developer

productivity,

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project

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scalability, user

adoption, and

accessibility. In

short: bad

documentation

kills projects.

Docs for

Developers

demystifies the

process of

creating great

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developer
documentation,
following a team
of software
developers as
they work to
launch a new
product. At each
step along the
way, you learn
through
examples,

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templates, and
Template Doc
principles how to

create, measure,

and maintain doc

umentation—tools

you can adapt to

the needs of

your own

organization.

What You'll

Learn Create

friction logs and

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perform user

research to

understand your

users '

frustrations

Research, draft,

and write

different kinds of

documentation,

including

READMEs, API

documentation,

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tutorials,
Template Doc

conceptual

content, and

release notes

Publish and

maintain

documentation

alongside regular

code releases

Measure the

success of the

content you

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create through

Template Doc
analytics and

user feedback

Organize larger

sets of

documentation to

help users find

the right

information at

the right time

Who This Book

Is For Ideal for

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software

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developers who

need to create

documentation

alongside code,

or for technical

writers,

developer

advocates,

product

managers, and

other technical

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roles that create and contribute to documentation for their products and services.

Among the many different approaches to "templating" with Perl--such as Embperl, Mason,

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HTML::Template

, and hundreds of

other lesser

known

systems--the

Template Toolkit

is widely

recognized as

one of the most

versatile. Like

other templating

systems, the

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Template Toolkit
allows

programmers to
embed Perl code
and custom
macros into
HTML

documents in
order to create
customized
documents on
the fly. But

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unlike the
others, the

Template Toolkit
is as facile at
producing HTML
as it is at
producing XML,
PDF, or any
other output
format. And
because it has its
own simple

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templating
Template Doc

language,

templates can be
written and

edited by people
who don't know

Perl. In short,

the Template

Toolkit combines

the best features

of its

competitors, with

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ease-of-use and
flexibility,

resulting in a
technology that's
fast, powerful
and extensible,
and ideally
suited to the
production and
maintenance of
web content and
other dynamic

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document

systems. In Perl

Template Toolkit

you'll find

detailed

coverage of this

increasingly

popular

technology.

Written by core

members of the

technology's

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development

team, the book

guides you

through the

entire process of

installing,

configuring,

using, and

extending the

Template

Toolkit. It begins

with a fast-paced

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but thorough
tutorial on
building web
content with the
Template
Toolkit, and then
walks you
through
generating and
using data files,
particularly with
XML. It also

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provides detailed
information on

the Template

Toolkit's

modules,

libraries, and

tools in addition

to a complete

reference

manual. Topics in

the book include:

Getting started

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with the template

Toolkit The

Template

language

Template

directives Filters

Plugins

Extending the

Template Toolkit

Accessing

databases XML

Advanced static

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web page

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techniques

Dynamic web

content and web

applications The

only book to

cover this

important tool,

Perl Template

Toolkit is

essential reading

for any Perl

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programmer who
Template Doc

wants to create

dynamic web

content that is

remarkably easy

to maintain. This

book is your

surefire guide to

implementing

this fast, flexible,

and powerful

templating

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system.
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Docs Like

CodeLulu.com

An Engineer ' s

Field Guide to

Technical

Writing

Design and

Implementation

R Markdown

Docs for

Developers

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Mastering
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Build four

immersive and

fun AR

applications

using ARKit,

ARCore, and

Vuforia

Now in its third

edition, this classic

guide to software

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requirements
engineering has
been fully updated
with new topics,
examples, and
guidance. Two
leaders in the
requirements
community have
teamed up to deliver
a contemporary set
of practices
covering the full

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range of requirements development and management activities on software projects. Describes practical, effective, field-tested techniques for managing the requirements engineering process from end to end.

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Provides examples demonstrating how requirements "good practices" can lead to fewer change requests, higher customer satisfaction, and lower development costs. Fully updated with contemporary examples and many new practices and

techniques.

Describes how to apply effective requirements practices to agile projects and numerous other special project situations. Targeted to business analysts, developers, project managers, and

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other software
project stakeholders
who have a general
understanding of the
software
development
process. Shares the
insights gleaned
from the authors'
extensive
experience
delivering hundreds
of software-

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requirements
training courses,
presentations, and
webinars. New
chapters are
included on
specifying data
requirements,
writing high-quality
functional
requirements, and
requirements reuse.
Considerable depth

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has been added on
business

requirements,

elicitation

techniques, and

nonfunctional

requirements. In

addition, new

chapters

recommend

effective

requirements

practices for various

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special project
situations, including
enhancement and
replacement,
packaged solutions,
outsourced,
business process
automation,
analytics and
reporting, and
embedded and
other real-time
systems projects.

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Agile software development approaches have had significant impact on industrial software development practices. Today, agile software development has penetrated to most IT companies across the globe,

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with an intention to
increase quality,
productivity, and
profitability.

Comprehensive
knowledge is
needed to
understand the
architectural
challenges involved
in adopting and
using agile
approaches and

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industrial practices
to deal with the
development of
large, architecturally
challenging systems
in an agile way.

Agile Software
Architecture focuses
on gaps in the
requirements of
applying
architecture-centric
approaches and

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principles of agile
software

development and
demystifies the agile
architecture

paradox. Readers
will learn how agile
and architectural
cultures can co-exist
and support each
other according to
the context.

Moreover, this book

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will also provide useful leads for future research in architecture and agile to bridge such gaps by developing appropriate approaches that incorporate architecturally sound practices in agile methods.

Presents a

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consolidated view of
the state-of-art and
state-of-practice as
well as the newest
research findings
Identifies gaps in
the requirements of
applying
architecture-centric
approaches and
principles of agile
software
development and

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demystifies the agile
architecture paradox

Explains whether or
not and how agile
and architectural
cultures can co-exist
and support each
other depending
upon the context

Provides useful
leads for future
research in both
architecture and

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agile to bridge such
gaps by developing

appropriate

approaches, which

incorporate

architecturally

sound practices in

agile methods

Updated to

incorporate the

latest features,

tools, and functions

of the new version

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of the popular word processing

software, a detailed manual explains all the basics, as well

as how to create sophisticated page layouts, insert forms

and tables, use graphics, and create book-length

documents with outlines and Master

Page 80/229

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Documents.

Original. (All Users)

Maximize the impact and precision of your message! Now in its fourth edition, the Microsoft Manual of Style provides essential guidance to content creators, journalists, technical writers, editors, and

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everyone else who
writes about

computer

technology. Direct

from the Editorial

Style Board at

Microsoft—you get a

comprehensive

glossary of both

general technology

terms and those

specific to Microsoft;

clear, concise usage

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and style guidelines with helpful examples and alternatives; guidance on grammar, tone, and voice; and best practices for writing content for the web, optimizing for accessibility, and communicating to a worldwide audience.

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Fully updated and optimized for ease of use, the Microsoft Manual of Style is designed to help you communicate clearly, consistently, and accurately about technical topics—across a range of audiences and media.

Managing the

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Maze

Essential Software

Architecture

arc42 by Example

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Software

Engineering at

Google

Software Testing

presents one of the

first

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comprehensive guides to testing activities, ranging from test planning through test completion for every phase of software under development, and software under revision. Real life case studies are provided to enhance

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understanding as well as a

companion website with tools and examples.

The way in which architectural decisions are made changes when more agile development methods are used.

This chapter focuses on

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architectural decisions and how they are made in industrial settings. From our literature research and experience, we have constructed three axes on which the architectural decision process of projects or companies can be

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projected. We evaluate this framework with five industrial case studies in which we have participated. In all of the cases, the differences between two points in time (phases) were evaluated. These differences helped

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us identify what aspects influence the efficiency of the project/company. The presented Triple-A Framework can be used in other projects to help locate places where the architectural process can be

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improved when the
agility of a project
changes.

Software
development
continues to be an
ever-evolving field
as organizations
require new and
innovative
programs that can
be implemented to
make processes
more efficient,

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productive, and
cost-effective.

Agile practices
particularly have
shown great
benefits for
improving the
effectiveness of
software
development and
its maintenance
due to their ability
to adapt to change.
It is integral to

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remain up to date with the most emerging tactics and techniques involved in the development of new and innovative software. The Research Anthology on Agile Software, Software Development, and Testing is a comprehensive

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resource on the emerging trends of software development and testing. This text discusses the newest developments in agile software and its usage spanning multiple industries. Featuring a collection of insights from

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diverse authors,
this research
anthology offers
international
perspectives on
agile software.
Covering topics
such as global
software
engineering,
knowledge
management, and
product
development, this

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comprehensive
resource is
valuable to
software
developers,
software
engineers,
computer
engineers, IT
directors, students,
managers, faculty,
researchers, and
academicians.

Looking for a way

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to invigorate your technical writing team and grow that expertise to include developers, designers, and writers of all backgrounds?

When you treat docs like code, you multiply everyone's efforts and streamline processes through

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collaboration,
automation, and
innovation. Second
edition now
available with
updates and more
information about
version control for
documents and
continuous
publishing.

The Definitive
Guide

Software Testing

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with Visual Studio
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2010

A Practitioners
Guide

Authoring Books
and Technical
Documents with R
Markdown

Document Drafting
Handbook

Encyclopedia of
Information
Science and
Technology

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This book details the conceptual foundations, design and implementation of the domain-specific language (DSL) development system DjDSL. DjDSL facilitates design-decision-making on and implementation of reusable DSL and DSL-product lines, and represents the state-of-

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the-art in language-based and composition-based DSL

development. As such, it unites elements at the crossroads between software-language engineering, model-driven software engineering, and feature-oriented software engineering. The book is divided into six chapters.

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Chapter 1 (“DSL as Variable Software”) explains the notion of DSL as variable software in greater detail and introduces readers to the idea of software-product line engineering for DSL-based software systems. Chapter 2 (“Variability Support in DSL Development”) sheds light on a

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number of interrelated dimensions of DSL variability: variable development processes, variable design-decisions, and variability-implementation techniques for DSL.

The three subsequent chapters are devoted to the key conceptual and technical contributions of

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DjDSL: Chapter 3
("Variable Language
Models") explains how
to design and
implement the abstract
syntax of a DSL in a
variable manner.
Chapter 4 ("Variable
Context Conditions")
then provides the
means to refine an
abstract syntax
(language model) by
using composable

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context conditions (invariants). Next, Chapter 5 (“Variable Textual Syntaxes”) details solutions to implementing variable textual syntaxes for different types of DSL. In closing, Chapter 6 (“A Story of a DSL Family”) shows how to develop a mixed DSL in a step-by-step manner,

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demonstrating how the previously introduced techniques can be employed in an advanced example of developing a DSL family. The book is intended for readers interested in language-oriented as well as model-driven software development, including software-engineering

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researchers and advanced software developers alike. An understanding of software-engineering basics (architecture, design, implementation, testing) and software patterns is essential. Readers should especially be familiar with the basics of object-oriented

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modelling (UML, MOF, Ecore) and programming (e.g., Java).

This provides an essential guide to designing, writing, and maintaining effective documentation throughout the project life cycle. Includes aids to tailoring documentation to specific audiences.

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An updated edition of the classic guide to technical communication

Consider that 20 to 50 percent of a technology professional's time is spent communicating with others. Whether writing a memo, preparing a set of procedures, or making an oral presentation, effective

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communication is vital to your professional success. This anthology delivers concrete advice from the foremost experts on how to communicate more effectively in the workplace. The revised and expanded second edition of this popular book completely updates the original, providing

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authoritative guidance on communicating via modern technology in the contemporary work environment.

Two new sections on global communication and the Internet address

communicating effectively in the context of increased e-mail and web usage.

As in the original,

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David Beer's Second Edition discusses a variety of approaches, such as:

- * Writing technical documents that are clear and effective
- * Giving oral presentations more confidently
- * Using graphics and other visual aids judiciously
- * Holding productive meetings
- * Becoming an effective listener

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The new edition also includes updated articles on working with others to get results and on giving directions that work. Each article is aimed specifically at the needs of engineers and others in the technology professions, and is written by a practicing engineer or a technical

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communicator.

Technical engineers,
IEEE society
members, and
technical writing
teachers will find this
updated edition of
David Beer's classic
Writing and Speaking
in the Technology
Professions an
invaluable guide to
successful
communication.

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We live in an age of electronic interconnectivity, with co-workers across the hall and across the ocean, and managing meetings can be a challenge across multiple time zones and cultures. This makes documenting your projects more important than ever. In Technical

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Documentation and
Process, Jerry

Whitaker and Bob

Mancini provide the

background and

structure to help you

document your

projects more

effectively. With more

than 60 years of

combined experience

in successfully

documenting complex

engineering projects,

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the authors guide you
in developing

appropriate process
and documentation
tools that address the
particular needs of
your organization.

Features Strategies for
documenting a project,
product, or facility A
sample style guide
template—the
foundation on which
you can build

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documents of various types A selection of document templates Ideas for managing complex processes and improving competitiveness using systems engineering and concurrent engineering practices Basic writing standards and helpful references Major considerations for

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disaster planning
Discussion of
standardization to
show how it can help
reduce costs Helpful
tips to manage remote
meetings and other
communications First-
hand examples from
the authors' own
experience
Throughout, the
authors offer practical
guidelines, suggestions,

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and lessons that can be applied across a wide variety of project types and organizational structures.

Comprehensive yet to the point, this book helps you define the process, document the plan, and manage your projects more confidently.

Software Testing
Variable Domain-

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specific Software
Languages with

DjDSL

Styles and Templates

Aligning Agile

Processes and

Software Architectures

Software Architecture

Fundamentals

ISO 9000-3

Job titles like

“Technical Architect”
and “Chief Architect”

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nowadays abound in software industry,

yet many people

suspect that

“architecture” is one

of the most overused

and least understood

terms in professional

software

development.

Gorton’s book tries

to resolve this

dilemma. It concisely

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describes the essential elements of knowledge and key skills required to be a software architect.

The explanations encompass the essentials of architecture thinking, practices, and supporting technologies. They range from a general

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understanding of structure and quality attributes through technical issues like middleware components and service-oriented architectures to recent technologies like model-driven architecture, software product lines, aspect-

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oriented design, and
the Semantic Web,

which will

presumably

influence future

software systems.

This second edition

contains new

material covering

enterprise

architecture, agile

development,

enterprise service

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bus technologies,
RESTful Web
services, and a case
study on how to use
the MeDICi
integration
framework. All
approaches are
illustrated by an
ongoing real-world
example. So if you
work as an architect
or senior designer

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(or want to
someday), or if you
are a student in
software
engineering, here is
a valuable and yet
approachable
knowledge source
for you.

Architectural design
is a crucial first step
in developing
complex software

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intensive systems.

Early design

decisions establish

the structures

necessary for

achieving broad

systemic properties.

However, today's

organizations lack

synergy between

software their

development

processes and

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technological
methodologies.

Providing a thorough
treatment of
Software

architecture is an
important factor for
the success of any
software project. In
the context of
systematic design
and construction,
solid software

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architecture ensures the fulfilment of quality requirements such as expandability, flexibility, performance, and time-to-market.

Software architects reconcile customer requirements with the available technical options

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and the prevailing conditions and constraints. They ensure the creation of appropriate structures and smooth interaction of all system components. As team players, they work closely with software developers and other parties

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involved in the project. This book gives you all the basic know-how you need to begin designing scalable system software architectures. It goes into detail on all the most important terms and concepts and how they relate to other IT practices.

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Following on from the basics, it describes the techniques and methods required for the planning, documentation, and quality management of software architectures. It details the role, the tasks, and the work environment of a

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software architect,
as well as looking at
how the job itself is
embedded in
company and project
structures. The book
is designed for self-
study and covers the
curriculum for the
Certified
Professional for
Software
Architecture –

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Foundation Level
(CPSA-F) exam as
defined by the
International
Software
Architecture
Qualification Board
(iSAQB).

Purpose The
purpose of this book
is to provide the
reader with an
understanding of the

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ISO 9000-3

guideline and how it applies to the specification, development, test, and maintenance of software. We will show that the basic practices and procedures that define software engineering and the ISO guideline are,

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for all intents and purposes, one and the same. We hope that the readers of this book will use the information found within not only to pass the certification audit but as a tool to be used to create the well-managed engineering environment needed

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to create reliable,
well engineered
products in a
consistent manner.
Audience This book
is intended for senior
software engineers,
software managers,
and non software
managers within
software
organizations whose
aim is to create an

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engi neering
environment within
their company or
organization. In
addition, individ uals
outside the software
organization who
have responsibility
for the specification
of the software
product and
preparing their
organization to take

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ownership of the developed product will find this book of great interest.

Finally, those who must choose software companies to do business with or audit software companies to determine their ability to engineer and maintain a

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software product will
find this book helpful.

2 Introduction

Overview This book
is made up of twenty-
four chapters that
can be grouped into
four sections.

Chapter 1 through

Chapter 4 set the

basis for the

following chapters

that deal directly with

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the guideline.

Agile Software

Architecture

Practical Support for

Lean Six Sigma

Software Process

Definition

Microsoft Manual of

Style

Software

Requirements

Architecting

Software Intensive

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Systems
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First International
Conference,
ICCBSS 2002,
Orlando, FL, USA,
February 4-6, 2002,
Proceedings

***Requirements
Engineering and
Management for
Software
Development
Projects presents a***

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complete guide on requirements for software development including engineering, computer science and management activities. It is the first book to cover all aspects of requirements management in software

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development projects. This book introduces the understanding of the requirements, elicitation and gathering, requirements analysis, verification and validation of the requirements, establishment of requirements, different

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methodologies in brief, requirements traceability and change management among other topics. The best practices, pitfalls, and metrics used for efficient software requirements management are also covered. Intended for the

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***professional market,
including software
engineers,
programmers,
designers and
researchers, this
book is also suitable
for advanced-level
students in
computer science or
engineering courses
as a textbook or
reference.***

Provides a variety of

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***reusable patterns
and situation-
specific frameworks
for writing software
requirements.***

***Offers advice on
designing and
implementing a
software test
automation
infrastructure, and
identifies what
current popular
testing approaches***

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***can and cannot
accomplish.***

***Rejecting the
automation life cycle
model, the authors
favor limited
automation of unit,
integration, and
system testing. They
also present a
control
synchronized data-
driven framework to
help jump-start an***

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automation project.

Examples are

provided in the

Rational suite test

studio, and source

code is available at

a supporting web

site. Annotation

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Book News, Inc.,

Portland, OR.

Use Visual Studio

2010's

Breakthrough

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Testing Tools to Improve Quality Throughout the Entire Software Lifecycle Together, Visual Studio 2010 Ultimate, Visual Studio Test Professional 2010, Lab Management 2010, and Team Foundation Server offer Microsoft developers the most

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sophisticated, well-integrated testing solution they've ever had. Now, Microsoft MVP and VS testing guru Jeff Levinson shows exactly how to use Microsoft's new tools to save time, reduce costs, and improve quality throughout the entire development

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lifecycle. Jeff demonstrates how Microsoft's new tools can help you finally overcome long-standing communication, coordination, and management challenges. You'll discover how to perform first-rate functional testing; quickly create and

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execute tests and record the results with log files and video; and create bugs directly from tests, ensuring reproducibility and eliminating wasted time. Levinson offers in-depth coverage of Microsoft's powerful new testing metrics,

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helping you ensure traceability all the way from requirements through finished software. Coverage includes • Planning your tests using Microsoft Test Manager (MTM) • Creating test settings, structuring test cases, and managing the

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testing process •

Executing manual tests with Microsoft Test Manager and Test Runner • Filing and resolving bugs, and customizing your bug reporting process •

Automating test cases and linking automated tests with requirements •
Executing

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automated test cases through both Visual Studio and Microsoft Test Manager • Integrating automated testing into the build process • Using Microsoft's Lab Management virtualization platform to test applications,

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snapshot

**environments, and
reproduce bugs •**

**Implementing
detailed metrics for
evaluating quality
and identifying
improvements**

**Whether you're a
developer, tester,
manager, or analyst,
this book can help
you significantly
improve the way you**

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work and the results you deliver—both as an individual right now, and as a team member throughout your entire project.

Writing and Speaking in the Technology Professions Guidance for Cost Estimation and Management for Highway Projects

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***During Planning,
Programming, and
Preconstruction
A Practical Guide
Research Anthology
on Agile Software,
Software
Development, and
Testing
Unity 2018
Augmented Reality
Projects
A Study Guide for
the Certified***

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**Professional for
Software**

**Architecture® –
Foundation Level –
iSAQB compliant**

Document the
architecture of your
software easily with this
highly practical, open-
source template. Key
FeaturesGet to grips
with leveraging the
features of arc42 to
create insightful

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documents Learn the
concepts of software

architecture

documentation through
real-world

examples Discover

techniques to create

compact, helpful, and
easy-to-read

documentation Book

Description When

developers document

the architecture of their

systems, they often

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invent their own specific ways of articulating structures, designs, concepts, and decisions.

What they need is a template that enables simple and efficient software architecture documentation. arc42 by Example shows how it's done through several real-world examples. Each example in the book, whether it is a

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chess engine, a huge CRM system, or a cool web system, starts with a brief description of the problem domain and the quality requirements. Then, you'll discover the system context with all the external interfaces. You'll dive into an overview of the solution strategy to implement the building blocks and runtime scenarios. The

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later chapters also explain various cross-cutting concerns and how they affect other aspects of a program. What you will learn

Utilize arc42 to document a system's physical infrastructure

Learn how to identify a system's scope and boundaries

Break a system down into

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building blocks and illustrate the relationships between them Discover how to describe the runtime behavior of a system Know how to document design decisions and their reasons Explore the risks and technical debt of your system Who this book is for This book is for software developers

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and solutions architects who are looking for an easy, open-source tool to document their systems. It is a useful reference for those who are already using arc42. If you are new to arc42, this book is a great learning resource. For those of you who want to write better technical documentation will benefit from the general

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concepts covered in this book.

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

bookdown: Authoring Books and Technical Documents with R

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Markdown presents a much easier way to write books and technical publications than traditional tools such as LaTeX and Word. The bookdown package inherits the simplicity of syntax and flexibility for data analysis from R Markdown, and extends R Markdown for technical writing, so that

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you can make better use of document elements such as figures, tables, equations, theorems, citations, and references. Similar to LaTeX, you can number and cross-reference these elements with bookdown. Your document can even include live examples so readers can interact with them while reading the

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book. The book can be rendered to multiple output formats, including LaTeX/PDF, HTML, EPUB, and Word, thus making it easy to put your documents online. The style and theme of these output formats can be customized. We used books and R primarily for examples in this book, but bookdown is

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not only for books or R.

Most features

introduced in this book

also apply to other types

of publications: journal

papers, reports,

dissertations, course

handouts, study notes,

and even novels. You do

not have to use R,

either. Other choices of

computing languages

include Python, C, C++,

SQL, Bash, Stan,

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JavaScript, and so on, although R is best supported. You can also leave out computing, for example, to write a fiction. This book itself is an example of publishing with bookdown and R Markdown, and its source is fully available on GitHub.

Practical Support for

Lean Six Sigma

Page 173/229

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Software Process

Definition: Using IEEE

Software Engineering

Standards addresses the

task of meeting the

specific documentation

requirements in support

of Lean Six Sigma. This

book provides a set of

templates supporting the

documentation required

for basic software

project control and

management and covers

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the integration of these templates for their entire product development life cycle. Find detailed documentation guidance in the form of organizational policy descriptions, integrated set of deployable document templates, artifacts required in support of assessment, organizational delineation of process

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documentation.

With Document Masters

for Systems

Development, Control,

and Delivery

Technical

Documentation and

Process

Lessons Learned from

Programming Over

Time

Documenting Software

Architectures

A Tool for Software

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Product and Process
Improvement

Docs Like Code

Modeling

complex systems
is a difficult
challenge and
all too often
one in which
modelers are
left to their
own devices.

Using a multidi

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disciplinary approach, The Art of Software Modeling covers theory, practice, and presentation in detail. It focuses on the importance of model creation and demonstrates

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how to create
meaningful
models.

Presenting
three self-
contained
sections, the
text examines
the background
of modeling and
frameworks for
organizing
information. It

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identifies techniques for researching and capturing client and system information and addresses the challenges of presenting models to specific audiences.

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Using concepts from art theory and aesthetics, this broad-based approach encompasses software practices, cognitive science, and information presentation. The book also

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looks at
perception and
cognition of
diagrams, view
composition,
color theory,
and
presentation
techniques.
Providing
practical
methods for
investigating

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and organizing
complex

information,

The Art of

Software

Modeling

demonstrates

the effective

use of modeling

techniques to

improve the

development

process and

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establish a
functional,
useful, and
maintainable
software
system.

R Markdown: The
Definitive
Guide is the
first official
book authored
by the core R
Markdown

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developers that provides a comprehensive and accurate reference to the R Markdown ecosystem. With R Markdown, you can easily create reproducible data analysis reports,

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presentations,
dashboards,
interactive
applications,
books,
dissertations,
websites, and
journal
articles, while
enjoying the
simplicity of
Markdown and
the great power

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of R and other
languages. In

this book, you
will learn

Basics: Syntax
of Markdown and

R code chunks,
how to generate

figures and

tables, and how

to use other

computing

languages Built-

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in output

formats of R

Markdown: PDF/H

TML/Word/RTF/Ma

rkdown

documents and i

oslides/Slidy/B

eamer/PowerPoin

t presentations

Extensions and

applications:

Dashboards,

Tufte handouts,

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xaringan/reveal

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.js

presentations,
websites,
books, journal
articles, and
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tutorials

Advanced

topics:

Parameterized
reports, HTML
widgets,

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document
templates,
custom output
formats, and
Shiny
documents.

Yihui Xie is a
software
engineer at
RStudio. He has
authored and co-
authored
several R

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packages,
including
knitr,
rmarkdown,
bookdown,
blogdown,
shiny,
xaringan, and
animation. He
has published
three other
books, *Dynamic
Documents with*

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R and knitr,
bookdown:

Authoring Books
and Technical
Documents with
R Markdown, and
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Creating
Websites with R
Markdown. J.J.
Allaire is the
founder of
RStudio and the

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creator of the RStudio IDE. He is an author of several packages in the R Markdown ecosystem including rmarkdown, flexdashboard, learnr, and radix. Garrett Golemund is

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the co-author
of R for Data
Science and
author of Hands-
On Programming
with R. He
wrote the
lubridate R
package and
works for
RStudio as an
advocate who
trains

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engineers to do
data science
with R and the
Tidyverse.

The accessible,
easy-to-follow
guide that
demystifies
documentation
management When
it comes to
receiving
documentation

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to confirm good
science, U.S.

and

international
regulators

place high

demands on the
healthcare

industry. As a
result,

companies

developing and

manufacturing

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therapeutic products must implement a strategy that allows them to properly manage their records and documents, since they must comply with rigorous standards and be available

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for regulatory
review or
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moment's
notice. Written
in a user-
friendly Q&A
style for quick
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Maze provides
answers to 750

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questions the authors encounter frequently in their roles as consultants and trainers. In simple terms, this handy guide breaks down the key components that facilitate

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management, and
shows why it
needs to be a
core discipline
in the industry
with

information on:
Compliance with
regulations in
pharmaceutical,
biological, and

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device record
keeping

Electronic
systems, hybrid
systems, and
the entire
scope of
documentation
that companies
must manage How
to write and
edit documents
that meet

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regulatory
compliance

Making the
transition to
an electronic
system,
including how
to validate and
document the
process Anyone
responsible for
managing
documents in

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the health
field will find
this book to be
a trusted
partner in
unraveling the
bureaucratic
web of
confusion,
while it
initiates a
plan on how to
put an

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effective,
lasting system
in place—one
that will stand
up to any type
of scrutiny.

A complete,
timely update
to the classic
work on
capturing
software
architecture in

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writing •

- Updated to use UML 2.0 throughout, with a complete Java/SOA-based case study, and covers architecture documentation in agile/lightweight/spiral environments.

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- Covers goals, strategies, rules, and hands-on best practices, and provides proven templates for generating coherent documentation.

- Foreword by Grady Booch.

This book's

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first edition
offered

breakthrough,
start-to-finish
guidance for
software
architects who
want to
document their
architectures
in a way that
others can
understand and

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accurately
implement.

Already a
classic - and
still a best-
seller - this
book has now
been thoroughly
updated to
reflect today's
most important
software
trends. Both an

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overview and a
hands-on guide,
this book
introduces the
uses of
software
architecture
documentation;
provides rules
for sound
documentation;
shows how to
document both

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interfaces and behavior; and offers proven templates for generating coherent documentation.

This edition's extensive updates

include: • •The use of UML 2.0 throughout. •A

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new case study
based on Java
and SOA.

- Coverage of architectures generated via agile, lightweight, and spiral methods.

- Updates for consistency with SEI's

growing
portfolio of
architecture
courses.

- Clearer terminology and explanations throughout.

- Coverage of frameworks such as TOGAF, DODAF, and FEAF.
- Coverage

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of
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documentation
tools such as
wikis and
Lattix DSMs.

- New techniques for documenting variability across product lines.
- Best practices for reviewing and validating

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documentation.

- Comparisons of 'Views and Beyond' vs '4+1'

approaches.

- Improved alignment with the IEEE-471 standard. This book continues to stand alone in helping

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architects
document their
architectures
so they will
actually be
implemented as
intended.

Software
architecture
documentation
in practice
Testing Across
the Entire

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Software

Development

Life Cycle

Chapter 5.

Architecture

Decisions: Who,

How, and When?

bookdown

Just Enough

Software Test

Automation

The Missing

Manual

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This book presents the analysis, design, documentation, and quality of software solutions based on the OMG UML v2.5.

Notably it covers 14 different modelling constructs including use case diagrams, activity diagrams, business-level class diagrams,

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*corresponding
interaction diagrams
and state machine
diagrams. It presents
the use of UML in
creating a Model of
the Problem Space
(MOPS), Model of
the Solution Space
(MOSS) and Model of
the Architectural
Space (MOAS). The
book touches*

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important areas of contemporary software engineering ranging from how a software engineer needs to invariably work in an Agile development environment through to the techniques to model a Cloud-based solution.

This book is an

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*extract from a much larger book entitled **Designing with LibreOffice**. It is intended for those who only want information on using styles and templates with LibreOffice, the popular free-licensed office suite. It consists of Chapters 2, 3 and 11 in the*

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larger book. This book is the first of five extracts from the complete book. The extracts are: Part 1: Styles and Templates, Part 2: Choosing Fonts, Part 3: Character and Paragraph Styles, Part 4: Page, Frame, and List Styles, Part 5: Slide Shows,

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*Diagrams, and
Spreadsheets.*

*Together, the five
smaller books will
contain most, but not
all, of the information
from the larger book.
Any changes are
minimal, and made
for continuity or
changes in structure
made necessary by
the changes in*

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format.

Today, software engineers need to know not only how to program effectively but also how to develop proper engineering practices to make their codebase sustainable and healthy. This book emphasizes this difference between

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*programming and
software engineering.*

*How can software
engineers manage a
living codebase that
evolves and responds
to changing*

*requirements and
demands over the
length of its life?*

*Based on their
experience at Google,
software engineers*

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Titus Winters and Hyrum Wright, along with technical writer Tom Manshreck, present a candid and insightful look at how some of the world's leading practitioners construct and maintain software. This book covers Google's unique engineering culture,

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*processes, and tools
and how these aspects
contribute to the
effectiveness of an
engineering
organization. You'll
explore three
fundamental
principles that
software
organizations should
keep in mind when
designing,*

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*architecting, writing,
and maintaining
code: How time
affects the
sustainability of
software and how to
make your code
resilient over time
How scale affects the
viability of software
practices within an
engineering
organization What*

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*trade-offs a typical
engineer needs to
make when
evaluating design and
development
decisions*

*Software Quality
Assurance*

*Answers to Questions
You Didn't Even
Know to Ask*

*The Art of Software
Modeling*

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