

Abap Objects Introduction To Programming Sap Applications

Step into ABAP with this beginner's guide. First understand ABAP syntax and find out how to add data and logic to your applications. Then delve into backend programming: learn to work with the ABAP data dictionary, create database objects, and process and store data. Round out your skill set by practicing error handling, modularization, string manipulation, and more. With guided examples, step-by-step instructions, and detailed code you'll become an ABAP developer in no time

Highlights: Procedural programming
Object-oriented programming
Flow control
Arithmetic operations
Data dictionary
Defining variables and constants
Creating tables
Database read/write
Modularization
Debugging
SAP List Viewer (ALV)

* Offers custom enhancement exercises for the SAP standard * Reviews examples for purchasing, inventory management, invoice verification, and much more * Provides an overview of more than 140 user exits, BAdIs, and enhancements

Whether you are a Materials Management consultant or a programmer, you'll learn how to personalize and improve your processes by means of user exits, business add-ins (BAdIs), and enhancement spots with this book. The author uses his real-life experience and understanding of the frustrating challenges that users face, and provides ideal options to enhance and optimize the SAP standard through custom developments. This book shows you how to implement these customizations for Materials Management (MM) in SAP ERP and describes how these customizations influence the behavior of the user exits with custom ABAP programs. Included throughout the book are exercises to illustrate the exact procedures and coding examples needed, as well as valuable tips and tricks.

Practical Introduction Learn how you can use and activate the various enhancement options of the SAP system in order to create applications that are unique to your individual needs.

Important Application Areas Find tried and tested approaches for each of the major areas of Materials Management, as well as for the validation and substitution of accounting documents.

Cross-Release Description Apply programming examples for Release 4.6C and higher. You'll learn about alternative solution options if an enhancement has prerequisites or was implemented in a later release.

Complete Overview Discover the most useful user-exits, business add-ins, and enhancement spots that are involved in Materials Management. A comprehensive appendix also provides an easy-to-reference list.

Using research in neurobiology, cognitive science and learning theory, this text loads patterns into your brain in a way that lets you put them to work immediately, makes you better at solving software design problems, and improves your ability to speak the language of patterns with others on your team.

Previous edition: ABAP development for SAP HANA / Thorsten Schneider, Eric Westenberger, and Hermann Gahm. 2014.

'ABAP Objects' comprehensively covers the new object oriented generation of SAP's programming language ABAP.

ABAP (Advanced Business Application Programming) is a powerful programming language created specifically for developing SAP applications. "ABAP Objects" is the new object-oriented generation of this language, designed to respond to the needs of

SAP's future strategies and environments. Written by two leading experts and approved by SAP's ABAP Language Group, "ABAP Objects" provides an in-depth and comprehensive introduction to SAP application programming for Release 4.6. The focus is on ABAP Objects, which is treated here not as an add-on, but as an integral part of the ABAP language. An indispensable guide for novice and experienced programmers alike, " ABAP Objects " includes coverage of these essential topics: The new ABAP Workbench and the most important features of the ABAP language. The fundamentals of ABAP programming, including the ABAP runtime environment. The core ABAP language elements. The two ABAP programming models - classical and object-oriented - and their relevant statements. Advanced concepts of OO programming with ABAP Objects. Programming the SAP user interface. Database access with OpenSQL. ABAP glossary and a complete list of system fields. The book also includes two CDs carrying a fully operational SAP Basis System, and containing all the example programs from the book. 0201750805B04022002

- Explore practical exercises for programming in SAP Business Workflow
- Utilize step-by-step instructions for adapting data flows, agent determination, event definitions, and more
- Learn from examples, problem solutions, and tips and tricks for daily practice

ABAP developers require special programming skills for workflow-related ABAP development, as well as very specific process knowledge. With this book, you will acquire both! You'll learn the aspects of the tools that are directly related to the developer's tasks, understanding when it is necessary to use custom code and how to write this code. In the many activities and tutorials this book provides, you'll discover how your work differs from the workflow engine of classic application development, as well as how to influence the behavior of a workflow with its own ABAP programs. Additionally, you'll learn how to customize the workflow environment beyond standard programming.

Written by SAP consultants, this title provides the stepping stone for individuals waiting to break into the SAP arena. It serves as a reference guide to the seasoned consultant, a tutorial to the individual trying to learn ABAP/4, and as an explanation of the new functionality, including SAP's integration into the Web. Sample applications are provided on the CD-ROM.

Whether you're new to ABAP, or you've been developing for years, this is the resource for you. Build your foundation with basic programming concepts and tools, then take it to the next level with modifications and enhancements for your ABAP code. Design reports and screens, develop applications using dialog programming, create interfaces, and more. Your ultimate reference guide to the world of ABAP is here!

- Everything ABAP Learn everything there is to know about ABAP. Start with keywords, syntax, tools, data types, and events. Then level up and master user interaction, exception handling, dialog and dynamic programming, and more.
- Programming Techniques Get to know techniques like object-oriented and procedural programming and how they relate to ABAP. Master modularization, inheritance, data encapsulation, and leverage existing features and functionality without having to reinvent the wheel!
- Debugging and Testing Writing code is one thing, making it work is another! Learn how to debug code using the classic and new debuggers, and put your programs to the test using tools like ABAP Unit and the code inspector.

- 1) Architecture and environment
- 2) Syntax, keywords, structures, and tables
- 3) User interaction
- 4) Modularization
- 5)

Persistent data 6) Dialog and dynamic programming 7) Reports and forms 8) Interface development 9) Modifications and enhancements 10) Debugging and testing
SAP BTP, ABAP environment requires specialized knowledge of language limits and development environment--let this book be your guide! Begin by provisioning a trial instance and setting up ABAP Development Tools in Eclipse. Then, walk step-by-step through building an app using the ABAP RESTful application programming model, developing backend services, and creating SAP Fiori apps. Connect your cloud-based ABAP applications to on-premise and cloud systems and learn how to manage and maintain those applications. ABAP's not dead, it's in the cloud! Highlights include: 1) ABAP Development Tools in Eclipse 2) SAP BTP, Cloud Foundry environment 3) ABAP RESTful application programming model 4) Application development 5) Backend services 6) SAP Fiori 7) Consuming APIs 8) Identity and access management 9) Application lifecycle management 10) Monitoring and security

SAP ABAP (Advanced Business Application Programming) offers a detailed tutorial on the numerous features of the core programming platform, used for development for the entire SAP software suite. SAP ABAP uses hands on business oriented use cases and a valuable dedicated e-resource to demonstrate the underlying advanced concepts of the OO ABAP environment and the SAP UI. SAP ABAP covers the latest version (NetWeaver 7.3 and SAP application programming release 6.0) of the platform for demonstrating the customization and implementation phases of the SAP software implementation. Void of theoretical treatments and preoccupation with language syntax, SAP ABAP is a comprehensive, practical one stop solution, which demonstrates and conveys the language's commands and features through hands on examples. The accompanying e-resource is a take off point to the book. SAP ABAP works in tandem with the accompanying e-resource to create an interactive learning environment where the book provides a brief description and an overview of a specified feature/command, showing and discussing the corresponding code. At the reader's option, the user can utilize the accompanying e-resource, where a step-by-step guide to creating and running the feature's object is available. The presentation of the features is scenario oriented, i.e. most of the features are demonstrated in terms of small business scenarios. The e-resource contains the scenario descriptions, screen shots, detailed screen cams and ABAP program source to enable the reader to create all objects related to the scenario and run/execute them. The underlying concepts of a feature/command are conveyed through execution of these hands-on programs. Further exercises to be performed independently by the reader are also proposed. The demonstration/illustration objects including the programs rely on some of the SAP application tables being populated, for example an IDES system which is now a de facto system for all SAP training related activities.

Reviews the programming language and covers topics including inheritance, polymorphism, Class::Struct and Class::Methodmaker modules, Perl ties and closures, operator overloading, encapsulation, and multiple dispatch.

ABAP developers, are you looking to clean up your code? Then pick up this official companion to the Clean ABAP GitHub repository. This book is brimming with best practices, straight from the experts, to help you write effective ABAP code. Start by learning when to apply each clean ABAP practice. Then, dive into detailed code examples and explanations for using classes, methods, names, variables, internal

tables, and more. From writing code to troubleshooting and testing, this is your complete style guide! In this book, you'll learn about:

- a. Clean ABAP Concepts** What is clean ABAP and why is it important to write clean code? Understand clean ABAP concepts with insight from the experts, including special considerations for legacy code and performance.
- b. Best Practices** Walk through the what, why, and how behind clean ABAP best practices. Learn to improve your code, including using classes and interfaces appropriately, handling method design and control flow, designing and running unit tests, and much more.
- c. Practical Examples** See clean ABAP practices in action! Improve your understanding of how to write effective code. Use detailed examples for each best practice that demonstrate the difference between clean and messy code. Highlights include: 1) Classes and interfaces 2) Methods 3) Names 4) Variables and literals 5) Internal tables 6) Control flow 7) Comments 8) Formatting 9) Error handling 10) Unit testing 11) Packages

You do not require much effort to be proficient in SAP ABAP language if you have access to right learning resource. With this book, you can begin with your first SAP ABAP program in minutes. The book makes ABAP program as simple as reading the specification doc, analyze the requirements and start coding. This book will give you a quick tour on basic concepts like an internal table, structures & field symbols, data dictionary, and so on. Whether you're writing programs for HR, SD, FI, or one of the many other modules within SAP the guidelines in this book will help across all your SAP modules. To save users efforts, the abstract of SAP ABAP is put together in an understandable format. Images, examples, and code will teach you how to create database tables and lists, work with fields and calculations, and debug your code for errors in no time. For Beginners this book can be a gateway to learn SAP ABAP. They can use this edition as a personal guide. They can learn various control command and practice them in real ABAP environment. All high level and fundamental topics of SAP ABAP required for development of SAP application are covered.

Table Content

Chapter 1: Introduction Data Types Control Statements Logical Operator

Chapter 2: Data Dictionary Domains Data Elements Tables Structures Aggregated Objects of ABAP Dictionary

Chapter 3: Macro,Include,Subroutines,Function Modules & Groups SAP-ABAP Macro Include Programs Subroutines Function Modules Function Groups

Chapter 4: Native and Open SQL Basic Open SQL Commands Open SQL Return Codes Open SQL - Performance Rules

Chapter 5: SAP Internal Tables Types of Internal Tables Creating Internal Tables Populating Internal Tables Reading Internal Tables Deleting Internal Tables

Chapter 6: ABAP Table Controls

Chapter 7: ABAP Report Programming Selection Screen Events in an ABAP Report Program Formatting the report Interactive Programming Logical Databases

Chapter 8: ABAP Dialog Programming Difference between Report and Dialog Programs Components of Dialog Program

Chapter 9: Subscreens

Chapter 10: Process on Value & Process on Help Process on Help-Request (POH) : F1 Help Process on Value (POV): F4

Chapter 11: ALV - ABAP List Viewer Programming Simple Report Block Report Hierarchical Reports

Chapter 12: All About SAP Scripts Components of SAP Script Layout Set Control Commands Output Types Standard Texts and Graphics

Chapter 13: Smart Forms Smart Forms and SapScripts Comparison Architecture of SAP Smart Form Smartforms Guide Windows in Smart Forms Smart Forms Programming Flow

Chapter 14: Customer and User Exits Types of Customer Exits Examples of Customer Exits

Locating Customer Exits What is a USER EXIT? Chapter 15: BADI Chapter 16: All About ABAP Query Queries InfoSets USER Groups Translation/QUERY Component Chapter 17: SAP BDC - Batch Data Communication Introduction to Batch input Methods of Batch Input

This step-by-step developer's guide has everything you need to build SAP HANA-optimized ABAP applications. Explore the environment and tools you'll be using and master development techniques that govern the code-to-data paradigm in SAP HANA. Then jump into backend programming using ABAP Database Connectivity, SQLScript, ABAP-managed database procedures, core data services, and more. Once you've coded your apps, maintain them with runtime statistics, traces, and code analysis. Build it your way!

- Getting Started Begin by exploring the architecture and features of SAP HANA, and setting up your development environments, including SAP HANA Studio and ABAP Development Tools. Understand the code pushdown techniques that govern ABAP development on SAP HANA.
- Database Programming Create, execute, and manage SAP HANA database procedures using native SQL, ABAP Database Connectivity, SQLScript, ABAP-managed database procedures, and more.
- Modeling Use calculation views and CDS views to model SAP HANA data. Create business objects with the Business Object Processing Framework (BOPF).
- Optimizing Applications Use runtime statistics, ABAP and SQL traces, ABAP code analysis, and system-wide analysis tools to make sure your ABAP applications are performing efficiently.

- SAP HANA
- ABAP database connectivity (ADBC)
- ABAP-managed database procedures (AMDP)
- SQL and SQLScript
- Data modeling
- Core data services (CDS)
- Native SQL and ABAP SQL
- Business object processing framework (BOPF)
- ABAP Test Cockpit
- Runtime statistics and analysis
- SAP BTP, ABAP Environment

This book is written in simple, easy to understand format with lots of screenshots and step-by-step explanations. If you are an ABAP developer and consultant looking forward to build advanced SAP programming applications with ABAP, then this is the best guide for you. Basic knowledge of ABAP programming would be required.

"General Rules : Learn the general principles that you should take into account when you create new programs and classes. Structure and Style : Find the answers to your questions on style, including naming, commentation, and structure of programs and procedures. Architecture : Explore guidelines on individual aspects of architecture, such as object orientation, error handling, user interfaces, data storage, and much more. Secure and Robust ABAP : Ensure your ABAP programs run predictably with no surprises by gaining in-depth knowledge on data types and data objects, calculations and accesses, internal tables, and more. Tips and Hints : Explore tips and hints throughout the book, as well as examples of good and bad ABAP programming, to help you adopt effective working techniques and principles."--Editor.

ABAP Objects Introduction to Programming SAP Applications Addison-Wesley Professional

This book helps newcomers to ABAP gain an instant sense of achievement, while hurtling up the learning curve towards the development their own source code. The author's practical "on the job" approach ensures that you'll quickly familiarize yourself with all of the most important aspects of ABAP programming. Using straightforward examples, you'll begin learning how to build your own programming solutions starting

right on the first page. From the single-line ABAP report to modularized flow control and complex data transfer structure, step-by-step instructions with volumes of commented code samples and screenshots serve to ensure your rapid progress in the world of ABAP programming. Getting started with ABAP Learn everything you'll need to get started: Architecture of the SAP system, development tools, and structure of ABAP reports Your first ABAP report Create your first report, maintain its properties, create its source code, and execute it Follow along with an extended real-life example Starting on the first page, a simple, ongoing example guides you through the book as you create database tables and lists, calculate with numbers, and find program errors with the ABAP Debugger Take your skills to the next level Make case distinctions, implement control structures and branches, and learn about logical expressions, selection screens, and the modularization of programs Learn ABAP the easy way Benefit from concise learning units, helpful tips and tricks, numerous screenshots, and comprehensive sample code Highlights Include: * Data Dictionary and ABAP Editor * Fields and Calculations * Calculating with Date and Time, Quantities, and Currencies * Transparent Database Tables, Internal Tables * Flow Control and Logical Expressions * Selection Screens

Take your SAP ABAP skills to the next level by mastering ABAP programming techniques with the help of real-world examples Key Features Become adept at building interfaces and explore ABAP tools and techniques Discover the modern functionalities available in the latest version of ABAP Learn the process of creating stunning HTML5 applications using SAPUI5 Book Description Advanced Business Application Programming (ABAP) is an established and complex programming language in the IT industry. This book is designed to help you use the latest ABAP techniques and apply legacy constructions using practical examples. You'll start with a quick refresher on language and database concepts, followed by agile techniques for adding custom code to a modern ABAP system. After this, you will get up to speed with the complete ABAP toolset for importing data to and from different environments. Next, you'll learn how to print forms and work with the different ABAP tools for Extensible Markup Language (XML) manipulation. While covering further chapters, you'll gain insights into building stunning UI5 interfaces, in addition to learning how to develop simple apps using the Business Object Processing Framework (BOPF). You will also pick up the technique of handling exceptions and performing testing in ABAP. In the concluding chapters, you can look forward to grasping various techniques for optimizing the performance of programs using a variety of performance analysis tools. By the end of this book, you will have the expertise you need to confidently build maintainable programs in Systems, Applications, and Products (SAP). What you will learn Create stable and error-free ABAP programs Leverage new ABAP concepts including object-oriented programming(OOP) and Model-View-Controller (MVC) Learn to add custom code to your existing SAP program Speed up your ABAP programs by spotting bottlenecks Understand techniques such as performance tuning and optimization Develop modern and beautiful user interfaces (UIs) in an ABAP environment Build multiple classes with any nesting level Who this book is for This book is for developers who want to learn and use ABAP skills to become an industry expert. Familiarity with object-oriented programming concepts is expected. Conquer your fear and anxiety learning how the concepts behind object-oriented design

apply to the ABAP programming environment. Through simple examples and metaphors this book demystifies the object-oriented programming model. Object-Oriented Design with ABAP presents a bridge from the familiar procedural style of ABAP to the unfamiliar object-oriented style, taking you by the hand and leading you through the difficulties associated with learning these concepts, covering not only the nuances of using object-oriented principles in ABAP software design but also revealing the reasons why these concepts have become embraced throughout the software development industry. More than simply knowing how to use various object-oriented techniques, you'll also be able to determine whether a technique is applicable to the task the software addresses. This book:

- div Shows how object-oriented principles apply to ABAP program design
- Provides the basics for creating component design diagrams
- Teaches how to incorporate design patterns in ABAP programs

What You'll Learn

- Write ABAP code using the object-oriented model as comfortably and easily as using the procedural model
- Create ABAP design diagrams based on the Unified Modeling Language
- Implement object-oriented design patterns into ABAP programs
- Reap the benefits of spending less time designing and maintaining ABAP programs
- Recognize those situations where design patterns can be most helpful
- Avoid long and exhausting searches for the cause of bugs in ABAP programs

Who This Book Is For

Experienced ABAP programmers who remain unfamiliar with the design potential presented by the object-oriented aspect of the language

Getting ready to take your ABAP C_TAW12_740 certification exam? Find everything you need to ace the 7.4 test in this SAP-endorsed resource! Practice makes perfect, and you'll have practice aplenty with sample questions and answers on every topic covered on the exam. In addition, you can revisit key terminology and learn exactly what to expect from the test. Soothe your pre-exam jitters and make the grade!

This book teaches you how to integrate third-party programs with your SAP systems while avoiding the many pitfalls that can arise from different programming languages and interface technologies. It provides a comprehensive description of the communication protocols that are supported by SAP, which components of the SAP NetWeaver Application Server implement them, and how these components must be configured to enable communication with external systems.

Overview of Interface Programming

Uncover basic principles of interface programming, answers to frequently asked questions about security, and information on various technologies.

Classic and Modern SAP Information

The authors introduce you to classic and modern SAP interfaces and protocols, enabling you to solve any problem you may encounter.

Interface Technologies

Benefit from a detailed examination of the central interface technologies: RFC, BAPIs, ALE, IDocs, and SOAP.

Descriptive Examples

Learn how to apply your knowledge to real-life situations with many programmed examples in ABAP, Java, C, and C#.

Comprehensive Coverage

This book serves as an ideal companion with numerous screenshots and a detailed index. You'll discover how best to connect your systems to those of your partners - without problems or external assistance.

Easily master JavaScript (JS) with this quick guide and develop mobile and desktop applications for SAP Fiori. This book equips ABAP/SAP developers with the essential topics to get started with JS. The focus of JavaScript Essentials for SAP ABAP Developers is on the parts of the JS language that are useful from the perspective of an ABAP developer. The book starts with a brief intro to HTML, the basics of JS, and how to create and run a simple JS program. It then dives into the details of the language, showing how to make simple programs. It covers loops in detail, mathematical operations, and string and regular expressions in JS, as well as a taste of functions, followed by objects and object-oriented programming in JavaScript. The book provides: Sample code and screenshots to help you fully understand JS A chapter on JS best practices and recommendations Differences and comparisons of the elements and data structures of ABAP and JavaScript to help you quickly master the material What You'll Learn Create and run a simple JavaScript program Understand loops, operations, and expressions Master the Create and Use functions Use objects and object-oriented programming in JS Apply the best practices of JS programming Who This Book Is For SAP programmers and developers, ABAP users and developers, and university students learning ABAP and JavaScript

- Presents the most recent ABAP technologies and tools through the eyes of a developer
- Includes new content on syntax enhancements, Web Dynpro, SAP BusinessObjects integration, XML processing, Rich Islands, and more
- Companion CD includes an HTML version of the first edition, as well as code samples

Next Generation ABAP Development is a book designed to keep seasoned developers up-to-date with the latest techniques and technologies available in ABAP. In the second edition of this best-selling title, follow along with a lead ABAP developer as he learns how to assess and employ the new tools and features of ABAP within SAP NetWeaver 7.0 to 7.0 enhancement package 2 (EhP2). You'll be able to witness the entire process of building applications: design, development, and testing of all areas. In addition, you'll also become familiar with end-to-end object-oriented design techniques.

New Tools and Features Keep your ABAP knowledge up-to-date by mastering the new tools and features of ABAP within SAP NetWeaver 7.0 to 7.0 EhP2.

Real-World Examples Learn about new possibilities in ABAP by exploring example scenarios related to the fictional development project discussed throughout the book.

Brand New Content Explore completely new content about ABAP syntax enhancements, Web Dynpro, XML processing, SAP BusinessObjects integration, and more.

ABAP Troubleshooting and Web Services Find expanded and updated information about ABAP troubleshooting and Web Services.

CD Content Benefit from a CD that contains code samples and an HTML version of the first edition of this book.

Highlights

- Workbench tools and package hierarchy
- ABAP syntax enhancements
- Data Dictionary objects
- Data persistence layer
- Shared memory objects
- ABAP and SAP NetWeaver Master Data Management
- XML processing and XSLT
- SAP Interactive Forms by Adobe

Use design patterns to step up your object-oriented ABAP game, starting with MVC! Want to create objects only when needed? Call objects only when required, minimizing runtime and memory costs? Reduce errors and effort by only coding an object once? Future-proof your code with a flexible design? Design patterns are the answer! With this guide, you'll get practical examples for every design pattern that will have you writing readable, flexible, and reusable code in no time!

Understand ABAP objects—the object-oriented extension of the SAP language ABAP—in the latest release of SAP NetWeaver 7.5, and its newest advancements. This book begins with the programming of objects in general and the basics of the ABAP language that a developer needs to know to get started. The most important topics needed to perform daily support jobs and ensure successful projects are covered. ABAP is a vast community with developers working in a variety of functional areas. You will be able to apply the concepts in this book to your area. SAP ABAP Objects is goal directed, rather than a collection of theoretical topics. It doesn't just touch on the surface of ABAP objects, but goes in depth from building the basic foundation (e.g., classes and objects created locally and globally) to the intermediary areas (e.g., ALV programming, method chaining, polymorphism, simple and nested interfaces), and then finally into the advanced topics (e.g., shared memory, persistent objects). You will know how to use best practices to make better programs via ABAP objects. What You'll Learn Know the latest advancements in ABAP objects with the new SAP Netweaver system Understand object-oriented ABAP classes and their components Use object creation and instance-methods calls Be familiar with the functions of the global class builder Be exposed to advanced topics Incorporate best practices for making object-oriented ABAP programs Who This Book Is For ABAP developers, ABAP programming analysts, and junior ABAP developers. Included are: ABAP developers for all modules of SAP, both new learners and developers with some experience or little programming experience in general; students studying ABAP at the college/university level; senior non-ABAP programmers with considerable experience who are willing to switch to SAP/ABAP; and any functional consultants who want or have recently switched to ABAP technical.

"Stay on the cutting edge of ABAP technology! Learn what's new with the latest ABAP releases--7.52 and 7.53--and see what other SAP technologies are now bringing to the table. Learn about abapGit and transporting objects between systems, designing exception classes, and new test tools for core data services, SAPUI5, and Web Dynpro ABAP. Take your ABAP coding to the next level"-- Combine your skills in ABAP, SAP Fiori, core data services, and more to master the end-to-end development process for SAP S/4HANA applications. Learn to use the ABAP programming model for SAP Fiori to build applications from scratch, or use SAP Fiori elements to get a head start! Then, deploy your applications to SAP Fiori launchpad and get the best practices you need to operate applications post-development, including Git version control, application tests, and setting up an integration pipeline. a. Getting Started Get the development

foundation you need and master SAP S/4HANA architecture, SAP Fiori, design-led development strategies, and the ABAP programming model for SAP Fiori. b. End-to-End Development Use step-by-step instructions to develop in SAP S/4HANA using core data services, SAP Gateway, OData, service adaptation description language, and BOPF. Create list reports and object pages, overview pages, analytical list pages, freestyle applications, and more. c. Operating Applications Once your applications are developed and exported, get the best practices you need to operate them: Git version control, automated backend and frontend testing, and continuous integration for SAPUI5 and ABAP. 1) ABAP programming model for SAP Fiori 2) SAP Fiori 3) Git 4) SAP Web IDE 5) ABAP Test Cockpit 6) Core data services (CDS) 7) Business Object Processing Framework (BOPF) 8) Service Adaptation Description Language (SADL) 9) OData services 10) SAP S/4HANA Cloud SDK

A survey of works by French artists of the Impressionist movement focuses on Pissarro, Sisley, Manet, Morisot, Monet, Renoir, Cassatt, Degas, and Toulouse-Lautrec

Gain an in-depth understanding of the large number of common problems found in ABAP programs and have a robust methodology for fixing problems when you find them. This book also shows you how to prevent them from occurring in new programs. A large chunk of the world's biggest organizations use SAP software and virtually all of them have very large amounts of custom code. However, a lot of that custom code is not as good as it could be. In this book we look at why object-oriented programming is the basic building block for improved program quality and at the test-driven development that this enables. We cover the three pillars of clarity, stability, and high performance on which a high-quality ABAP program stands. You will then move on to the user interface, which needs its own set of standards for high quality. In the final chapters, you will learn about specialist topics such as user exits, making sure code will run on the latest releases of SAP, and how to add your own automated custom code quality checks. What You Will Learn Know why object-oriented programming and test-driven development are the cornerstones of high-quality custom code Ensure that the three pillars of clarity, stability, and high performance are fulfilled Make sure your applications are user friendly Ensure that your custom code works on newer SAP releases Create your own custom code quality checks Who This Book Is For ABAP developers who started yesterday or have been programming for 20 years

First and only book on the Java 5, including new Java EE 5, for SAP/ABAP programmers The author has given the first course of its kind in Belgium, and employs his experience and approach in this book More Java development or exposure to Java needed by SAP/ABAP programmers and developers as evidenced by NetWeaver, for example

* Understand SAP CRM's technical landscape and how it differs from the rest of the SAP Business Suite * Learn about the SAP CRM data model and how to load and extract data * Explore the most useful enhancements in SAP CRM If you've ever had to work on the SAP CRM backend, this book is the resource you've been waiting for. You'll establish a working knowledge of SAP CRM architecture, and then learn how to use the development tools and options that SAP provides to tailor the system. You'll also follow a simple development example throughout the book that will help you apply the programming logic you've learned to real-world situations. SAP CRM Basics Build an essential SAP CRM foundation: learn about technical design, data modeling and BAdIs, and development tools and techniques. Data Modeling Tools Once you understand the SAP CRM data model, discover how to use the Application Enhancement Tool, marketing attributes, and more to extend and enhance the data model to meet business requirements without coding. Code Logic Find the code you need to effectively work with SAP CRM, and also learn detailed coding logic to be able to create your own code. Configuration and Enhancements Learn how to input business logic with the BTE framework, enhance the open channel for Campaign Management, and much more. Common Enhancement Requests Understand the requests that businesses commonly make in sales,

service, marketing, and analytic processes, and learn how to modify the SAP CRM system with the right tools to fix these gaps.

* Includes a comprehensive description of all important ABAP commands * Provides an introduction to the concepts of object orientation * Offers step-by-step techniques to develop your first working ABAP application In its newly revised and updated second edition, ABAP Basics is an ideal companion on your journey towards your first working ABAP applications. Whether you are already familiar with another programming language or ABAP is your first, this book provides you with comprehensive and structured basics on programming business-critical software. Get to know all relevant programming concepts and methods from scratch and implement them based on a holistic, real-life example. Procedural and object-oriented language elements are presented with step-by-step instructions, screenshots, and tried-and-tested tips. With every chapter, this book extends the sample application so that you are able to reproduce a comprehensive ABAP application with all its details. Introduction to ABAP Programming Get to know the most important ABAP statements and concepts of object orientation in order to write your first functional applications. Language Requirements Learn the programming language of SAP, while understanding the connections between ABAP programming and other programs. Standard Solutions Read about typical problems and their solutions, while referencing solution screenshots and step-by-step instructions. Latest Updates Explore updated content, such as a new overview to SAP software and architecture, as well as updated references to terminology, source references, and programming errors. Practice Scenario Use the practice scenario provided in this book to embark on a real-life programming project. Highlights Include * Object Navigator * Procedural Language Elements * Database Access * User Interface and Screen Input/Output * Object-Oriented Language Elements * Software Architecture and Software Design * SAP Programming Guidelines and Tools ABAP's object-oriented concepts let you develop flexible, self-contained software, completely independent of standard SAP applications. But doing so is challenging, even for experienced software architects. This book addresses this issue by showing you, in a hands-on, step-by-step manner, how to successfully navigate the development process with ABAP Objects. First, uncover the requirements critical for designing application systems, and how to model the application object. Then, you'll benefit from expert guidance on the application system in general, including how to split an application into packages, define dependencies, and develop interfaces. Finally, with the authors' help, you'll tackle the greatest challenge of them all: implementing the application layer. GUI programming, SAP Business Partner, and special application programming techniques are also carefully explained in detail. Complete with chapters on information acquisition and managing development projects, this comprehensive programming guide is a must for every serious ABAP developer.

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