

# Learning Java by Building Android Games

**Third Edition**

Learn Java and Android from scratch by building five exciting games

John Horton



# Learning Java By Building Android Games

**Emilie Sanchez**



## **Learning Java By Building Android Games:**

**Learning Java by Building Android Games** John Horton, 2021-03-26 Get ready to learn Java the fun way by developing games for the Android platform with this new and updated third edition Key Features Learn Java Android and object oriented programming from scratch Find out how to build games including Sub Hunter Retro Pong Bullet Hell Classic Snake and Scrolling Shooters Create and design your own games by learning all the concepts that a game developer must know Book Description Android is one of the most popular mobile operating systems today It uses the most popular programming language Java as one of the primary languages for building apps of all types Unlike most other Android books this book doesn't assume that you have any prior knowledge of Java programming instead helps you get started with building Android games as a beginner This new improved and updated third edition of Learning Java by Building Android Games helps you to build Android games from scratch Once you've got to grips with the fundamentals the difficulty level increases steadily as you explore key Java topics such as variables loops methods object oriented programming OOP and design patterns while working with up to date code and supporting examples At each stage you'll be able to test your understanding by implementing the concepts that you've learned to develop a game Toward the end you'll build games such as Sub Hunter Retro Pong Bullet Hell Classic Snake and Scrolling Shooter By the end of this Java book you'll not only have a solid understanding of Java and Android basics but will also have developed five cool games for the Android platform What you will learn Set up a game development environment in Android Studio Respond to a player's touch and program intelligent enemies who can challenge the player in different ways Explore collision detection sprite sheets animation simple tracking and following AI parallax backgrounds and particle explosions Animate objects at 60 FPS and manage multiple independent objects using OOP Work with design patterns such as OOP singleton strategy and entity component Work with the Android API the SoundPool API Paint Canvas Bitmap classes and detect version numbers Who this book is for Learning Java by Building Android Games is for anyone who is new to Java Android or game programming and wants to develop Android games The book will also serve as a refresher for those who already have experience using Java on Android or any other platform but are new to game development

*Learning Java by Building Android Games* John Horton, 2015-05-09 Get ready for a fun filled experience of learning Java by developing games for the Android platform About This Book Acquaint yourself with Java and object oriented programming from zero previous experience Build four cool games for your phone and tablet from retro arcade style games to memory and education games and gain the knowledge to design and create your own games too Walk through the fundamentals of building games and use that experience as a springboard to study advanced game development or just have fun Who This Book Is For If you are completely new to either Java Android or game programming and are aiming to publish Android games then this book is for you This book also acts as a refresher for those who already have experience in Java on another platforms or other object oriented languages In Detail Android is the fastest growing

operating system OS with one of the largest installed bases of any mobile OS Android uses one of the most popular programming languages Java as the primary language for building apps of all types So you should first obtain a solid grasp of the Java language and its foundation APIs to improve the chances of succeeding as an Android app developer This book will show you how to get your Android development environment set up and you will soon have your first working game The difficulty level grows steadily with the introduction of key Java topics such as loops methods and OOP You ll then use them in the development of games You will learn how to build a math test game a Simon like memory game a retro pong style game and for the grand finale a Snake style retro arcade game with real Google Play leaderboards and achievements The book has a hands on approach and is packed with screenshots [Learning Java by Building Android Games](#) John Horton,2015-01-29 If you are completely new to either Java Android or game programming and are aiming to publish Android games then this book is for you This book also acts as a refresher for those who already have experience in Java on another platforms or other object oriented languages *Learning Java by Building Android Games* John Horton,2018-08-29 Get ready for a fun filled experience of learning Java by developing games for the Android platform Key Features Learn Java Android and object oriented programming from scratch Build games including Sub Hunter Retro Pong Bullet Hell Classic Snake and a 2D Scrolling Shooter Create and design your own games such as an open world platform game Book Description Android is one of the most popular mobile operating systems presently It uses the most popular programming language Java as the primary language for building apps of all types However this book is unlike other Android books in that it doesn t assume that you already have Java proficiency This new and expanded second edition of Learning Java by Building Android Games shows you how to start building Android games from scratch The difficulty level will grow steadily as you explore key Java topics such as variables loops methods object oriented programming and design patterns including code and examples that are written for Java 9 and Android P At each stage you will put what you ve learned into practice by developing a game You will build games such as Minesweeper Retro Pong Bullet Hell and Classic Snake and Scrolling Shooter games In the later chapters you will create a time trial open world platform game By the end of the book you will not only have grasped Java and Android but will also have developed six cool games for the Android platform What you will learn Set up a game development environment in Android Studio Implement screen locking screen rotation pixel graphics and play sound effects Respond to a player s touch and program intelligent enemies who challenge the player in different ways Learn game development concepts such as collision detection animating sprite sheets simple tracking and following AI parallax backgrounds and particle explosions Animate objects at 60 frames per second FPS and manage multiple independent objects using Object Oriented Programming OOP Understand the essentials of game programming such as design patterns object oriented programming Singleton strategy and entity component patterns Learn how to use the Android API including Activity lifecycle detecting version number SoundPool API Paint Canvas and Bitmap classes Build a side scrolling shooter and an open world 2D platformer

using advanced OOP concepts and programming patterns Who this book is for Learning Java by Building Android Games is for you if you are completely new to Java Android or game programming and want to make Android games This book also acts as a refresher for those who already have experience of using Java on Android or any other platform without game development experience

**Android Programming for Beginners** John Horton, 2015-12-31 Learn all the Java and Android skills you need to start making powerful mobile applications About This Book Kick start your Android programming career or just have fun publishing apps to the Google Play marketplace A first principles introduction to Java via Android which means you ll be able to start building your own applications from scratch Learn by example and build three real world apps and over 40 mini apps throughout the book Who This Book Is For Are you trying to start a career in programming but haven t found the right way in Do you have a great idea for an app but don t know how to make it a reality Or maybe you re just frustrated that to learn Android you must know java If so Android Programming for Beginners is for you You don t need any programming experience to follow along with this book just a computer and a sense of adventure What You Will Learn Master the fundamentals of coding Java for Android Install and set up your Android development environment Build functional user interfaces with the Android Studio visual designer Add user interaction data captures sound and animation to your apps Manage your apps data using the built in Android SQLite database Find out about the design patterns used by professionals to make top grade applications Build deploy and publish real Android applications to the Google Play marketplace In Detail Android is the most popular OS in the world There are millions of devices accessing tens of thousands of applications It is many people s entry point into the world of technology it is an operating system for everyone Despite this the entry fee to actually make Android applications is usually a computer science degree or five years worth of Java experience Android Programming for Beginners will be your companion to create Android applications from scratch whether you re looking to start your programming career make an application for work be reintroduced to mobile development or are just looking to program for fun We will introduce you to all the fundamental concepts of programming in an Android context from the Java basics to working with the Android API All examples are created from within Android Studio the official Android development environment that helps supercharge your application development process After this crash course we ll dive deeper into Android programming and you ll learn how to create applications with a professional standard UI through fragments make location aware apps with Google Maps integration and store your user s data with SQLite In addition you ll see how to make your apps multilingual capture images from a device s camera and work with graphics sound and animations too By the end of this book you ll be ready to start building your own custom applications in Android and Java Style and approach With more than 40 mini apps to code and run Android Programming for Beginners is a hands on guide to learning Android and Java Each example application demonstrates a different aspect of Android programming Alongside these mini apps we push your abilities by building three larger applications to demonstrate Android application development

in context Mastering Android Game Development Raul Portales,2015-06-30 Gaming has historically been a strong driver of technology whether we re talking about hardware or software performance the variety of input methods or graphics support and the Android game platform is no different Android is a mature yet still growing platform that many game developers have embraced as it provides tools APIs and services to help bootstrap Android projects and ensure their success many of which are specially designed to help game developers This book is a progressive hands on guide to developing highly interactive and complex Android games from scratch You will learn all the aspects of developing a game using a space shooter game as the example that will evolve with you through the chapters You will learn all about frame by frame animations and resource animations You will also create beautiful and responsive menus and dialogs and explore the different options for playing sound effects and music in Android You will then learn the basics of creating a particle system and how to use the Leonids library Finally we will configure and use Google Play Services on the developer console and port our game to the big screen

**Beginning C++ Game Programming** John Horton,2016-10-07 Learn C from scratch and get started building your very own games About This Book This book offers a fun way to learn modern C programming while building exciting 2D games This beginner friendly guide offers a fast paced but engaging approach to game development Dive headfirst into building a wide variety of desktop games that gradually increase in complexity It is packed with many suggestions to expand your finished games that will make you think critically technically and creatively Who This Book Is For This book is perfect for you if any of the following describes you You have no C programming knowledge whatsoever or need a beginner level refresher course if you want to learn to build games or just use games as an engaging way to learn C if you have aspirations to publish a game one day perhaps on Steam or if you just want to have loads of fun and impress friends with your creations What You Will Learn Get to know C from scratch while simultaneously learning game building Learn the basics of C such as variables loops and functions to animate game objects respond to collisions keep score play sound effects and build your first playable game Use more advanced C topics such as classes inheritance and references to spawn and control thousands of enemies shoot with a rapid fire machine gun and realize random scrolling game worlds Stretch your C knowledge beyond the beginner level and use concepts such as pointers references and the Standard Template Library to add features like split screen coop immersive directional sound and custom levels loaded from level design files Get ready to go and build your own unique games In Detail This book is all about offering you a fun introduction to the world of game programming C and the OpenGL powered SFML using three fun fully playable games These games are an addictive frantic two button tapper a multi level zombie survival shooter and a split screen multiplayer puzzle platformer We will start with the very basics of programming such as variables loops and conditions and you will become more skillful with each game as you move through the key C topics such as OOP Object Orientated Programming C pointers and an introduction to the Standard Template Library While building these games you will also learn exciting game programming concepts like particle

effects directional sound spatialization OpenGL programmable Shaders spawning thousands of objects and more Style and approach This book offers a fun example driven approach to learning game development and C In addition to explaining game development techniques in an engaging style the games are built in a way that introduces the key C topics in a practical and not theory based way with multiple runnable playable stages in each chapter

**The Beginner's Guide to Android Game Development** James S. Cho,2014 Android Game Development Made Easy If you've always wanted to make Android games but didn't know where to start this book is for you Whether you are an absolute beginner with no programming experience or an experienced Java developer wanting to get started with game development this comprehensive book will help you accomplish your goals and teach you how to build your own games from scratch no game engines needed In this beginner friendly guide you will find focused step by step approaches designed to help you learn and practice one fundamental concept at a time You will study Java and write object oriented applications You will experiment with the building blocks of Android and create fun interactive 2D games with touch controls You will even learn how to integrate social features such as a global leaderboard and publish your game to be shared with the billion Android users across the world This book provides access to an extensive library of sample Java and Android game projects via its companion website so that you can continue learning on your own and grow as a game programmer With this up to date guide in your hand you will be able to successfully navigate common pitfalls and get up and running with your own projects in no time Tested on Android Lollipop All the code in the book has been tested on the Android Lollipop SDK 5.0 and is available under the open source MIT license at the book's companion site

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*Android: Game Programming* John Horton,Raul Portales,2016-09-26 Extend your game development skills by harnessing the power of Android SDK About This Book Gain the knowledge to design and build highly interactive and amazing games for your phone and tablet from scratch Create games that run at super smooth 60 frames per second with the help of these easy to follow projects Understand the internals of a game engine by building one and seeing the reasoning behind each of the components Who This Book Is For If you are completely new to Java Android or game programming this book is for you If you want to publish Android games for fun or for business and are not sure where to start then this book will show you what to do step by step from the start What You Will Learn Set up an efficient professional game development environment in Android Studio Explore object oriented programming OOP and design scalable reliable and well written Java games or apps on almost any Android device Build simple to advanced game engines for different types of game with cool features such as sprite sheet

character animation and scrolling parallax backgrounds Implement basic and advanced collision detection mechanics Process multitouch screen input effectively and efficiently Implement a flexible and advanced game engine that uses OpenGL ES 2 to ensure fast smooth frame rates Use animations and particle systems to provide a rich experience Create beautiful responsive and reusable UIs by taking advantage of the Android SDK Integrate Google Play Services to provide achievements and leaderboards to the players

In Detail Gaming has historically been a strong driver of technology whether we're talking about hardware or software performance the variety of input methods or graphics support and the Android game platform is no different Android is a mature yet still growing platform that many game developers have embraced as it provides tools APIs and services to help bootstrap Android projects and ensure their success many of which are specially designed to help game developers Since Android uses one of the most popular programming languages Java as the primary language to build apps of all types you will start this course by first obtaining a solid grasp of the Java language and its foundation APIs This will improve your chances of succeeding as an Android app developer We will show you how to get your Android development environment set up and you will soon have your first working game The course covers all the aspects of game development through various engrossing and insightful game projects You will learn all about frame by frame animations and resource animations using a space shooter game create beautiful and responsive menus and dialogs and explore the different options to play sound effects and music in Android You will also learn the basics of creating a particle system and will see how to use the Leonids library By the end of the course you will be able to configure and use Google Play Services on the developer console and port your game to the big screen This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Learning Java by Building Android Games by John Horton Android Game Programming by Example by John Horton Mastering Android Game Development by Raul Portales Style and approach This course is a step by step guide where you will learn to build Android games from scratch It takes a practical approach where each project is a game It starts off with simple arcade games and then gradually the complexity of the games keep on increasing as you uncover the new and advanced tools that Android offers

*Learning Android Game Programming* Richard A. Rogers, 2011-12-01 Build the Next Great Android Game Learning Android Game Programming is your hands on start to finish guide to creating winning games for today's rapidly growing Android mobile device marketplace If you have even basic Android development experience Rick Rogers will help you build on your knowledge to quickly create low budget 2D mobile games that sell The book starts with an up to the minute overview of today's Android mobile games marketplace reviews each leading genre and teaches you the foundational concepts of game development You'll design a simple game then master every step of game development with AndEngine the powerful open source free game development engine Every chapter teaches with sample code you can actually use including many examples drawn from the published game Virgins Versus Vampires V3 With this book you'll learn how to Use free Android tools for

creating code artwork and sound Implement the game loop that is at the heart of Android games Bring your game to life with scene transitions and entity modifiers Make the most of bitmap and vector graphics sprites and animation Integrate user input via touch multitouch keyboard voice recognition accelerometer location and compass Build infinite virtual worlds with tile maps Create save and reuse powerful particle effects Find acquire modify and use background music and sound effects Implement highly realistic physics effects with Box2D Use AI techniques to make your games smarter and more fun Build a scoring framework based on collisions between your game elements Download the free version of Virgins Versus Vampires V3 from Android Market today as you learn how to build the game in this book

**Learning Android Game Development**  
Harvard Kindem, 2016-11-30 Android Game development made easy About This Book Be introduced to core game development topics by getting hands on with real world 2D game development Through this uniquely designed guide you ll be a game developer in no time If you re looking to move into Android game development this is the book for you especially if you are looking to take pride in developing games from scratch Who This Book Is For This book is ideal for Android developers who are just starting out with game development as it does not assume any prior knowledge of game development techniques or principles but it does not teach Java or deal with any basic Android orientation While it is accessible for beginners it s recommended to know your way around Android before starting out What You Will Learn Understand the challenges of making games in Android versus desktop Use the fundamentals of OpenGL and its pipeline Write reusable building blocks that are essential to making games Write and use common algorithms that are used in games Be able to write GLSL shaders to write amazing visuals Understand what make games fun to play Distribute your first game In Detail Focused on 2D game development Learning Android Game Development is an entry level look at how to make games on the Android platform You ll learn to build complete slick and intuitive Android games as we turn you from a beginner who has little experience into a competent 2D Android game developer This book will improve your knowledge of the Android platform and will show you how you can start making games using your existing Java knowledge We cover the basics of creating your game adding in GUIs and game menus creating online leader boards and adding in login pages with Google or Facebook By the end of the book you ll have created your first Android game and learned how to publish it to the Google Play store

[Android Programming for Beginners](#) John Horton, 2021-04-09 Learn the Java and Android skills you need to start developing powerful mobile applications with the help of actionable steps Key Features Kick start your Android programming career or just have fun publishing apps to the Google Play marketplace Get a first principles introduction to using Java and Android and prepare to start building your own apps from scratch Learn by example by building four real world apps and dozens of mini apps

**Book Description** Do you want to make a career in programming but don t know where to start Do you have a great idea for an app but don t know how to make it a reality Or are you worried that you ll have to learn Java programming to become an Android developer Look no further This new and expanded third edition of Android Programming for Beginners will be your guide to

creating Android applications from scratch The book starts by introducing you to all the fundamental concepts of programming in an Android context from the basics of Java to working with the Android API You ll learn with the help of examples that use up to date API classes and are created within Android Studio the official Android development environment that helps supercharge your mobile application development process After a crash course on the key programming concepts you ll explore Android programming and get to grips with creating applications with a professional standard UI using fragments and storing user data with SQLite This Android Java book also shows you how you can make your apps multilingual draw on the screen with a finger and work with graphics sound and animations By the end of this Android programming book you ll be ready to start building your own custom applications in Android and Java What you will learn Understand the fundamentals of coding in Java for Android Install and set up your Android development environment Build functional user interfaces with the Android Studio visual designer Add user interaction data captures sound and animation to your apps Manage your apps data using the built in Android SQLite database Explore the design patterns used by professionals to build top grade applications Build real world Android applications that you can deploy to the Google Play marketplace Who this book is for This Android book is for you if you are completely new to Java Android or programming and want to get started with Android app development If you have experience of using Java on Android this book will serve as a refresher to help you advance your knowledge and make progress through the early projects covered in the book

**Android Games Design Patterns** yang hu, 2020-05-28 Android is one of the most popular mobile operating systems It uses the most popular programming language Java as the primary language for building apps of all types This book teaches you to build Android games from 0 by design patterns What you will learn Set up a game development environment in Android Studio and play sound effects Respond to a player s touch and program intelligent enemies Learn game development concepts such as collision detection animating sprite sheets and simple tracking Animate objects at 50 frames per second and manage multiple independent objects using object oriented programming This book briefly explain the concept and real practice examples in games you will learn easy and fun *Beginning Mobile Application Development in the Cloud* Richard Rodger, 2011-11-01 Learn how to build apps for mobile devices on Cloud platforms The marketplace for apps is ever expanding increasing the potential to make money With this guide you ll learn how to build cross platform applications for mobile devices that are supported by the power of Cloud based services such as Amazon Web Services An introduction to Cloud based applications explains how to use HTML5 to create cross platform mobile apps and then use Cloud services to enhance those apps You ll learn how to build your first app with HTML5 and set it up in the Cloud while also discovering how to use jQuery to your advantage Highlights the skills and knowledge you need to create successful apps for mobile devices with HTML5 Takes you through the steps for building web applications for the iPhone and Android Details how to enhance your app through faster launching touch vs click storage capabilities and a cache Looks at how best to use JSON FourSquare

jQuery AJAX and more Shares tips for creating hybrid apps that run natively If you re interested in having your application be one of the 200 000 apps featured in the iPhone store or the 50 000 in the Android store then you need this book **Building a Game App with the Android SDK.** ,2016 Practice Android programming with this simple mobile game project Learn how to build Android games using Java and the built in features in the Android SDK *Learn Java the Easy Way* Bryson Payne,2017 *Learning AndEngine* Martin Varga,2014-09-10 If you are a beginner to AndEngine or mobile game development in general and you are looking for a simple way to start making games for Android this book is for you You should already know the basics of Java programming but no previous game development experience is required Pro Java 9 Games Development Wallace Jackson,2017-11-14 Use Java 9 and JavaFX 9 to write 3D games for the latest consumer electronics devices Written by open source gaming expert Wallace Jackson this book uses Java 9 and NetBeans 9 to add leading edge features such as 3D textures animation digital audio and digital image compositing to your games Along the way you ll learn about game design including game design concepts genres engines and UI design techniques To completely master Java 3D game creation you will combine this knowledge with a number of JavaFX 9 topics such as scene graph hierarchy 3D scene configuration 3D model design and primitives model shader creation and 3D game animation creation With these skills you will be able to take your 3D Java games to the next level The final section of Pro Java 9 Games Development puts the final polish on your abilities You ll see how to add AI logic for random content selection methods harness a professional scoring engine and player proof your event handling After reading Pro Java 9 Games Development you will come away with enough 3D expertise to design develop and build your own professional Java 9 games using JavaFX 9 and the latest new media assets What You ll Learn Design and build professional 3D Java 9 games using NetBeans 9 Java 9 and JavaFX 9 Integrate new media assets such as digital imagery and digital audio Integrate the new JavaFX 9 multimedia engine API Create an interactive 3D board game modeled textured and animated using JavaFX Optimize game assets for distribution and learn how to use the Java 9 module system Who This Book Is For Experienced Java developers who may have some prior game development experience This book can be for experienced game developers new to Java programming

**Beginning Android Games Development** Ted Hagos,Mario Zechner,J.F. DiMarzio,Robert Green,2020-09-11 Do you have an awesome idea for the next break through mobile gaming title This updated edition will help you kick start your project as it guides you through the process of creating several example game apps using APIs available in Android You will learn the basics needed to join the ranks of successful Android game app developers the book starts with game design fundamentals using Canvas and Android SDK 10 or earlier programming basics You then will progress toward creating your own basic game engine and playable game apps that work on Android 10 or earlier smartphones and tablets You take your game through the chapters and topics in the book to learn different tools such as OpenGL ES And you will learn about publishing and marketing your games to monetize your creation What You Will Learn Gain knowledge on the fundamentals of

game programming in the context of Android Use Android s APIs for graphics audio and user input to reflect those fundamentals Develop two 2D games from scratch based on Canvas API and OpenGL ES Create a full featured 3D game Publish your games get crash reports and support your users Complete your own playable 2D OpenGL games Who This Book Is For Those with basic knowledge of Java who want to write games on the Android platform and experienced game developers who want to know about the pitfalls and peculiarities of the platform The Android Game Developer's Handbook Avisekhar Roy,2019-07-08 Discover an all in one handbook to developing immersive and cross platform Android games About This Book Practical tips and tricks to develop powerful Android games Learn to successfully implement microtransactions and monitor the performance of your game once it s out live Integrate Google s DIY VR tool and Google Cardboard into your games to join in on the VR revolution Who This Book Is For This book is ideal for any game developer with prior knowledge of developing games in Android A good understanding of game development and a basic knowledge on Android platform application development and JAVA C will be appreciated What You Will Learn Learn the prospects of Android in Game Development Understand the Android architecture and explore platform limitation and variations Explore the various approaches for Game Development using Android Learn about the common mistakes and possible solutions on Android Game Development Discover the top Cross Platform Game Engines and port games on different android platform Optimize memory and performance of your game Familiarize yourself with different ways to earn money from Android Games In Detail Gaming in android is an already established market and growing each day Previously games were made for specific platforms but this is the time of cross platform gaming with social connectivity It requires vision of polishing design and must follow user behavior This book would help developers to predict and create scopes of improvement according to user behavior You will begin with the guidelines and rules of game development on the Android platform followed by a brief description about the current variants of Android devices available Next you will walk through the various tools available to develop any Android games and learn how to choose the most appropriate tools for a specific purpose You will then learn JAVA game coding standard and style upon the Android SDK Later you would focus on creation maintenance of Game Loop using Android SDK common mistakes in game development and the solutions to avoid them to improve performance We will deep dive into Shaders and learn how to optimize memory and performance for an Android Game before moving on to another important topic testing and debugging Android Games followed by an overview about Virtual Reality and how to integrate them into Android games Want to program a different way Inside you ll also learn Android game Development using C and OpenGL Finally you would walk through the required tools to polish and finalize the game and possible integration of any third party tools or SDKs in order to monetize your game when it s one the market Style and approach The book follows a handbook approach focused on current and future game development trend from every possible aspect including monetization and sustainability in the market Table of Contents Android Game Development Introduction to

Different Android Platforms Different Android Development Tools Android Development Style and Standards in the Industry Understanding the Game Loop and Frame Rate Improving Performance of 2D 3D Games Working with Shaders Performance and Memory Optimization Testing Code and Debugging Scope for Android in VR Games Android Game Development Using C and OpenGL Polishing Android Games Third Party Integration Monetization and Services

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### **Learning Java By Building Android Games Introduction**

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