

# 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 Horton John

**John Horton**



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

*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, 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

**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

*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 [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

[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 DescriptionAndroid 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 *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 Programming with Kotlin for Beginners** John

Horton,2019-04-30 Build smart looking Kotlin apps with UI and functionality for the Android platform Key FeaturesStart your Android programming career or just have fun publishing apps on Google Play marketplaceThe first principle introduction to Kotlin through Android to start building easy to use appsLearn by example and build four real world apps and dozens of mini appsBook Description Android is the most popular mobile operating system in the world and Kotlin has been declared by Google as a first class programming language to build Android apps With the imminent arrival of the most anticipated Android update Android 10 Q this book gets you started building apps compatible with the latest version of Android It adopts a project style approach where we focus on teaching the fundamentals of Android app development and the essentials of Kotlin by building three real world apps and more than a dozen mini apps The book begins by giving you a strong grasp of how Kotlin and Android work together before gradually moving onto exploring the various Android APIs for building stunning apps for Android with ease You will learn to make your apps more presentable using different layouts You will dive deep into Kotlin programming concepts such as variables functions data structures Object Oriented code and how to connect your Kotlin code to the UI You will learn to add multilingual text so that your app is accessible to millions of more potential users You will learn how animation graphics and sound effects work and are implemented in your Android app By the end of the book you will have sound knowledge about significant Kotlin programming concepts and start building your own fully featured Android apps What you will learnLearn how Kotlin and Android work togetherBuild a graphical drawing app using Object Oriented Programming OOP principlesBuild beautiful practical layouts using ScrollView RecyclerView NavigationView ViewPager and CardViewWrite Kotlin code to manage an apps data using different strategies including JSON and the built in Android SQLite databaseAdd user interaction data captures sound and animation to your appsImplement dialog boxes to capture input from the userBuild a simple database app that sorts and stores the user s dataWho this book is for This book is for people who are new to Kotlin Android and want to develop Android apps It also acts as a refresher for those who have some experience in programming with Android and Kotlin **Android Programming for Beginners** John

Horton,2018-10-31 Learn all the Java and Android skills you need to start making powerful mobile applications with practical and actionable steps Key FeaturesKick start your Android programming career or just have fun publishing apps to the Google Play marketplaceA first principles introduction to Java via Android which means you ll be able to start building your own applications from scratchLearn by example and build four real world apps and dozens of mini apps throughout the bookBook Description 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 in order to learn Android you must know Java If so then this book is for you This new and expanded second edition of Android Programming for Beginners will be your companion to create Android Pie applications from scratch We will introduce you to all the fundamental concepts of programming in an Android context from the basics of Java to working with the Android API All examples use the up to date



API classes and 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 and store your user s data with SQLite In addition you ll see how to make your apps multilingual draw to the screen with a finger 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 What you will learn Master the fundamentals of coding Java for Android Pie 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 Who this book is for This book is for you if you are completely new to Java Android or programming and want to make Android applications This book also acts as a refresher for those who already have experience of using Java on Android to advance their knowledge and make fast progress through the early projects

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

Mastering AndEngine Game Development Maya Posch, 2015-09-28 Move beyond basic games and explore the limits of AndEngine About This Book Extend the basic AndEngine features without modifying any of AndEngine s code Understand advanced technologies and gain the skills to create the ultimate games in AndEngine Theory supported with practical examples to stimulate your imagination and creativity Who This Book Is For This book is aimed at developers who have gone through all the basic AndEngine tutorials and books and are looking for something more It s also very suitable for developers with knowledge of other game engines who are looking to develop with AndEngine Knowledge of Java C and Android development are a prerequisite for getting the most out of this book What You Will Learn Extend AndEngine to use and render 3D models Integrate and use various physics engines with AndEngine Advanced animations and their implementation

in AndEngine Lighting theory and its application for both 2D and 3D objects Using skeletal animation with AndEngine Use GLSL shaders with AndEngine for effects and anti aliasing Add sounds and effects to AndEngine using both basic and 3D audio libraries Efficient network implementations with AndEngine for multi players In Detail AndEngine is a popular and easy to use game framework best suited for Android game development After learning the basics of creating an Android game using AndEngine it s time you move beyond the basics to explore further For this you need to understand the theory behind many of the technologies AndEngine uses This book aims to provide all the skills and tools you need to learn more about Android game development using AndEngine With this book you will get a quick overview of the basics of AndEngine and Android application development From there you will learn how to use 3D models in a 2D scene render a visual representation of a scene s objects and create interaction between these objects You will explore frame based animations and learn to use skeletal animations As the book progresses you will be guided through exploring all the relevant aspects of rendering graphics with OpenGL ES generating audio using OpenSL ES and OpenAL making the best use of Android s network API implementing anti aliasing algorithms shaders dynamic lighting and much more With all this you will be ready to enhance the look and feel of your game with its user interface sound effects and background music After an in depth study of 2D and 3D worlds and multi player implementations you will be a master in AndEngine and Android game development Style and approach This book takes an in depth tour of the many aspects of Android game development with the use of AndEngine Each topic is covered extensively to act both as a practical guide as well as a reference **Android 9 Development**

**Cookbook** Rick Boyer,2018-10-19 Build feature rich reliable Android Pie apps with the help of more than 100 proven industry standard recipes and strategies Key FeaturesUncover the latest features in Android 9 Pie to make your applications stand outDevelop Android Pie applications with the latest mobile technologies from set up to securityGet up to speed with Android Studio 3 and its impressive new featuresBook Description The Android OS has the largest installation base of any operating system in the world There has never been a better time to learn Android development to write your own applications or to make your own contributions to the open source community With this extensively updated cookbook you ll find solutions for working with the user interfaces multitouch gestures location awareness web services and device features such as the phone camera and accelerometer You also get useful steps on packaging your app for the Android Market Each recipe provides a clear solution and sample code you can use in your project from the outset Whether you are writing your first app or your hundredth this is a book that you will come back to time and time again with its many tips and tricks on the rich features of Android Pie What you will learnDevelop applications using the latest Android framework while maintaining backward compatibility with the support libraryCreate engaging applications using knowledge gained from recipes on graphics animations and multimediaWork through succinct steps on specifics that will help you complete your project fasterAdd location awareness to your own app with examples using the latest Google Play services APIUtilize Google Speech

Recognition APIs for your app Who this book is for If you are new to Android development and want to take a hands on approach to learning the framework or if you are an experienced developer in need of clear working code to solve the many challenges in Android development you will benefit from this book Either way this is a resource you ll want to keep on your desk as a quick reference to help you solve new problems as you tackle more challenging projects

**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

**Android Game Programming by Example** John Horton, 2015-06-30 Android gaming is a hot topic these days but one of the few areas of technology that does not have an abundance of clear and useful documentation online However there is an ever increasing demand for Android games This book will help you get up to speed

with the essentials of game development with Android The book begins by teaching you the setup of a game development environment on a fundamental level Moving on the book deals with concepts such as building a home screen UI implementing game objects and painting the scene at a fixed resolution Gradually it builds up to the implementation of a flexible and advanced game engine that uses OpenGL ES 2 for fast smooth frame rates This is achieved by starting with a simple game and gradually increasing the complexity of the three complete games built step by step By the end of the book you will have successfully built three exciting games over the course of three engrossing and insightful projects Godot Engine Game Development Projects Chris Bradfield,2018-06-29 A project based guides to learn animation advanced shaders environments particle rendering and networked games with Godot 3 0 Key Features Learn the art of developing cross platform games Leverage Godot s node and scene system to design robust reusable game objects Integrate Blender easily and efficiently with Godot to create powerful 3D games Book DescriptionGodot Engine Game Development Projects is an introduction to the Godot game engine and its new 3 0 version Godot 3 0 brings a large number of new features and capabilities that make it a strong alternative to expensive commercial game engines For beginners Godot offers a friendly way to learn game development techniques while for experienced developers it is a powerful customizable tool that can bring your visions to life This book consists of five projects that will help developers achieve a sound understanding of the engine when it comes to building games Game development is complex and involves a wide spectrum of knowledge and skills This book can help you build on your foundation level skills by showing you how to create a number of small scale game projects Along the way you will learn how Godot works and discover important game development techniques that you can apply to your projects Using a straightforward step by step approach and practical examples the book will take you from the absolute basics through to sophisticated game physics animations and other techniques Upon completing the final project you will have a strong foundation for future success with Godot 3 0 What you will learn Get started with the Godot game engine and editor Organize a game project Import graphical and audio assets Use Godot s node and scene system to design robust reusable game objects Write code in GDScript to capture input and build complex behaviors Implement user interfaces to display information Create visual effects to spice up your game Learn techniques that you can apply to your own game projects Who this book is for Godot Engine Game Development Projects is for both new users and experienced developers who want to learn to make games using a modern game engine Some prior programming experience in C and C is recommended *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

**Android: Programming for Developers** John Horton,Helder Vasconcelos,Raul Portales,2017-06-27 Develop your own responsive reactive and ready to deploy Android applicationsAbout This Book Kick start your Android programming career or just have fun publishing apps to the Google Play marketplace Explore the high level Android asynchronous constructs available on the Android SDK Learn the internals of a game engine by building oneWho This Book Is ForIf you are an iOS developer or any other developer programmer and you want to try your hands on developing applications on the Android platform this course is for you No prior programming experience is needed as this course will guide you right from the beginning to the advanced concepts of Android programming What You Will Learn Mastering the fundamentals of coding Java for Android Installing and setting up your Android development environment Building functional user interfaces with the Android Studio visual designer Adding user interaction data captures sound and animation to your apps Managing your apps data using the built in Android SQLite database Getting familiar with the android process model and low level concurrent constructs delivered by the Android SDK Interacting with nearby devices over Bluetooth and WiFi communications channels Creating and composing tasks with RxJava to execute complex asynchronous work in a predictable way Handling user inputs from virtual joysticks to gamepads Implementing collision detection using different techniques and discover how to optimize it for complex games Building deploying and publishing real Android applications to the Google Play marketplaceIn DetailAndroid 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 The Android Programming for Developers course will take you on a journey to become an efficient Android programmer by thoroughly understanding the key concepts of Android programming and develop market ready applications The course begins with helping you create Android applications from scratch The first module Android Programming for Beginners introduces you to all the fundamental concepts of programming in an Android context from the Java basics to working with the Android API At

the completion of this module you ll be ready to start building your own custom applications in Android and Java After getting familiar with the basic programming concepts the second module Asynchronous Android Programming shows you how to make your applications more reliable This will be achieved using high level and advanced asynchronous techniques and concepts Through this module you will learn to construct scalable and performant applications to take advantage of multi thread asynchronous techniques With a good grasp on the basics you move on the final module Mastering Android Game Development This progressive module will help you learn to use animations and particle systems to provide a rich experience By the end of the course you will create beautiful responsive and reusable UIs by taking advantage of the Android SDK Style and approach The comprehensive course will run you through the basic concepts for newbies move on to the UI design teach you game development on Android and finally make you proficient in application development on Android Each of these aspects has been covered in individual modules to help you develop your skills after the completion of a module and get ready for the next

*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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[Learning Android Game Development](#) Havard 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 scratchWho This Book Is ForThis 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 gameIn DetailFocused 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

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