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Community Experience Distilled

ANDROID GAME Programming by Example

Harness the power of the **ANDROID** SDK by building three
immersive and captivating games

John Horton

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PUBLISHING community experience distilled

Android Game Programming By Example

Kishan Takoordyal



Android Game Programming By Example:

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

Learning Android Game Programming Richard A. Rogers, Rick Rogers, 2012 Provides information on creating games for Android mobile devices covering such topics as implementing the game loop integrating user input building virtual worlds with tile maps and creating a scoring framework

[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 [Sams Teach Yourself Android Game Programming in 24 Hours](#) Jonathan Harbour,2012-11-15 In just 24 sessions of one hour or less Sams Teach Yourself Android Game Programming in 24 Hours will help you master mobile game development for Android 4 Using a straightforward step by step approach you ll gain hands on expertise with the entire process from getting access to the hardware via the Android SDK to finishing a complete example game You ll learn to use the Android SDK and open source software to design and build fast highly playable games for the newest Android smartphones and tablets Every lesson builds on what you ve already learned giving you a rock solid foundation for real world success Step by step instructions carefully walk you through the most common Android game programming tasks Quizzes and exercises at the end of each chapter help you test your knowledge By the Way notes present interesting information related to the discussion Did You Know tips offer advice or show you easier ways to perform tasks Watch Out cautions alert you to possible problems and give you advice on how to avoid them Jonathan Harbour is a writer and instructor whose love for computers and video games dates back to the Commodore PET and Atari 2600 era He has a Master s in Information Systems Management His portfolio site at <http://www.jharbour.com> includes a discussion forum He also authored Sams Teach Yourself Windows Phone 7 Game Programming in 24 Hours His love of science fiction led to the remake of a beloved classic video game with some friends resulting in Starflight The Lost Colony <http://www.starflightgame.com> Learn how to Install and configure the free development tools including the Android 4 SDK Java Development Kit and Eclipse or NetBeans Use the Android graphics system to bring your game characters to life Load and manage bitmaps and use double buffering for better performance Incorporate timing and animation with threaded game loops Tap into the touch screen for user input Learn to use Android sensors such as the

accelerometer gyroscope compass light detector and thermometer Integrate audio into your games using the media player Build your own game engine library to simplify gameplay code in your projects Animate games with sprites using atlas images and fast matrix transforms Employ object oriented programming techniques using inheritance and data hiding Create an advanced animation system to add interesting behaviors to game objects Detect collisions and simulate realistic movement with trigonometry Experiment with an evolving engine coding technique that more naturally reflects how games are written

Android Games Fred Yang, 2014-09-17 This book is the 3rd volume in the Quickstart series of Android Games Practical Programming With practical tips illustrations diagrams and images this book walks you through the basics of game programming and gives you exactly what you need to get started with an action game project Ozman Quest from scratch There is also an online Apphex Forums apphex.com for the book that you can go to to download the code projects ask questions and look for technical support Our support team is always there so you can get help directly from the community

What This Book Covers Unit 1 Fundamentals starts with the basics of Android programming You ll gain extensive knowledge of the underlying terms and concepts commonly used in Android programming such as Activity Thread Handler Context View Surface View App Manifest App Resources Screen Density and System Permissions Unit 2 Project Framework discusses the storyline and framework of the game Ozman Quest built for this book You ll be able to write the main thread and game view for your app Meanwhile you ll learn how to produce fade in fade out and slide in slide out animations to offer smooth transitions between contents or views Unit 3 Sprites and Objects elaborates the basic implementation process of creating sprites major characters weapons powerups and other objects This unit also covers the fundamentals of Canvas Coordinate System in game programming Unit 4 Animation introduces the foundations of game animation You ll learn how to produce smooth animations of objects sprites using Bitmap sheets or separate PNG images Unit 5 Artificial Intelligence begins by introducing the basics of artificial intelligence in game programming You ll learn how to implement A A star as well as Alert Non alert pathfinding algorithms for Android This unit also covers the implementation process of collision detection between objects Unit 6 Maps explores the basics of tiles layers maps and the design process that surrounds these terms You ll be able to easily make game maps by using a WYSIWYG based 4D array of map data Unit 7 SQLite Database describes the foundations of integrating SQLite database into Android apps You ll learn how to write a customized database handler to interact with the SQLite database and how to implement CRUD Create Read Update and Delete operations on the SQLite database Unit 8 Achievements and Leaderboards discusses the basic steps on how to implement Google Play achievement and leaderboard features within your app This unit also shows you how to build a scoring system within your app

Who This Book Is For This book is for aspiring programmers and artists trying to get into the game industry quickly and looking for a practical guide to kick start their projects It assumes a passable understanding of Java including how to write classes and handle basic inheritance structures

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 *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

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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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

Unity Android Game Development by Example Beginner's Guide Thomas Finnegan, 2013-12 Unity Android Game Development by Example Beginner's Guide consists of different game application examples No prior experience with programming Android or Unity is required You will learn everything from scratch and will have an organized flow of information specifically designed for complete beginners to Unity Great for developers new to Unity Android or both this book will walk you through everything you need to know about game development for the Android mobile platform No experience with programming Android or Unity is required Most of the assets used in each chapter project are provided with the book but it is assumed that you have some access to basic image and model creation software You will also need access to an Android powered device

Beginning Android Games Mario Zechner, J. F. DiMarzio, Robert Green, 2016-12-08 Learn all of the basics needed to join the ranks of successful Android game developers You ll start with game design fundamentals and Android programming basics and then progress toward creating your own basic game engine and playable game apps that work on Android smartphones and tablets Beginning Android Games Third Edition gives you everything you need to branch out and write your

own Android games for a variety of hardware Do you have an awesome idea for the next break through mobile gaming title Beginning Android Games will help you kick start your project This book will guide you through the process of making several example game apps using APIs available in Android What You ll Learn Gain the fundamentals of game programming in the context of the Android platform 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 People with a basic knowledge of Java who want to write games on the Android platform It also offers information for experienced game developers about the pitfalls and peculiarities of the platform

Android Games Practical Programming by Example Fred Yang, 2014-05-12 This book offers a step by step Android game development guide that s easy to follow with practical tips illustrations diagrams and images including a full game project explained gradually in each unit After reading the whole 7 units in this book you gain the basic knowledge and experience to create stunning Android games that can help you make money on the Play Store and turn your passion for games into a full time gig What This Book Covers Unit 1 Setting up Development Environment begins by teaching you how to set up an Android development environment on your computer no matter which OS you have You ll learn how to install Android developer tools bundle and configure environment variables Lastly we ll introduce a set of Android tools that help you debug and profile your apps Unit 2 Project Framework discusses the storyline and framework of your first game Raccoon Rob You ll be able to implement the activity s lifecycle callback methods and utilize handlers to switch views in game This unit also goes into detail on how to write the main thread and view for your app Unit 3 Sprites and Objects explains how to create sprites main characters monsters and objects You ll also learn how to implement the animations of sprites and objects using the Bitmap sheets Unit 4 Layers and Maps explores the basics of layers layerlists maps and the design process that surrounds these terms You ll be able to easily make game maps This unit also guides you on how to build a leaderboard and scoring system in game Unit 5 Game Controls covers the foundations and implementation process of AI artificial intelligence as well as collision detection between objects You ll also learn how to make a virtual D Pad on the screen to move the main character on the maps and use an owl icon to control the game state Unit 6 Sound Effects introduces the basics of sound effects and the implementation process that surrounds them You ll learn how to add audio and sounds to games using the Android sound pools and how to add background music to games using media players Unit 7 Publishing Games explains the app submission process on the Google Play Store This unit will guide you through the process of building testing and publishing games onto the Google Play Store You ll also learn how to monetize your games by two ways promoting ads and selling in app features Who This Book Is For This book is for aspiring artists and programmers trying to break into the game industry quickly and looking for a practical guide to kick start their projects It assumes a passable understanding of Java including how to write classes and handle basic inheritance structures

Learning Android Game Programming Rick Rogers,2011 Beginning Unity Android Game Development Kishan

Takoordyal,2020-06-29 Master the art of programming games for Android using the Unity3D game engine This book will help you understand basic concepts of game development in Unity By the end of Beginning Unity Android Game Development you will have the knowledge to confidently build an Android game The book starts by explaining simple programming concepts to make beginners comfortable with the jargon You will then learn to navigate around the Unity interface and use basic tools hand move rotate scale and rect You will also be acquainted with the creation of basic 3D objects in the game while understanding the purpose of several of Unity s windows In the last chapters you will learn to create a simple game for Android using the concepts studied in the previous chapters Scripts will be written to handle the behaviors of the player and enemies as well as to handle other aspects of the game The author shares tips along the way to help improve in game performance such as switching to the universal rendering pipeline when targeting mobile platforms At the end of the book you will have a solid knowledge in making basic Android games that can be upgraded later to make more complex games

What You Will Learn Explore basic Unity and C programming concepts and scripting for Android games Navigate around the Unity interface and use its basic tools Make the most of popular components and features of Unity Write an Android game with optimizations

Who This Book Is For Absolute beginners learning to program games for the Android platform using Unity3D Basic knowledge of programming would be beneficial for the reader but is not required

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 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 Games Fred Yang,2014-08 This book is the 2nd volume in the Quickstart series of Android Games Practical Programming It offers a step by step Android game development guide that s easy to follow with practical tips illustrations diagrams and images including a full game project explained gradually in each unit After reading the whole 7 units in this book you gain the basic knowledge and experience to create compelling Android games that can make you money on Google Play and Amazon Appstore The Quickstart series are targeted at the beginners and dedicated to help you quickly code stunning games that work across Android smartphones tablets and Amazon Kindle Fire devices Unlike other Android programming tutorials each volume in the series features a complete code project so that you can easily kick start your project in just a few days

What This Book Covers

Unit 1 Project Framework begins by discussing the storyline and framework of the game X Shuttle built for this book You ll be able to implement the activity s lifecycle callback methods and utilize handlers to switch views in game In the meanwhile you ll learn how to make fade in fade out and slide in slide out animations to ensure smooth transitions between contents or views Last this unit goes into detail on how to write the main thread and game view for your app

Unit 2 Sprites and Objects explores the basic principles of creating sprites main characters meteors alien hordes weapons powerups and other objects You ll learn how to make animations of sprites and objects using Bitmap sheets or separate PNG images This unit also covers the implementation process of collision detection between objects

Unit 3 Game Settings elaborates the implementation process of designing a handy options menu in your app You ll be able to make the sound settings vibrate settings reset option and promo code redeem option in the options menu

Unit 4 Sound Effects introduces the foundations of sound effects and the implementation process that surrounds them You ll learn how to add audio and sounds to your app using the Android sound pools and how to add background music to your app using media players

Unit 5 SQLite Database covers the basics of integrating SQLite database into Android apps You ll learn how to write a customized database handler to interact with the SQLite database and how to implement CRUD Create Read Update and Delete operations on the SQLite database

Unit 6 Achievements and Leaderboards shows you how to utilize the Google Play achievement and leaderboard features in your app This unit also guides you on how to build a scoring system in your app

Unit 7 In App Purchases and Ads explains the implementation process of in app purchases and ads This unit walks you through the details on how to integrate the Google Play in app billing features into your app You ll also learn how to monetize your app by selling in app items and promoting Admob ads

Who This Book Is For This book is for aspiring artists and programmers trying to break into the game industry quickly and looking for a practical guide to kick start their projects It assumes a passable understanding of Java including how to write classes and handle basic inheritance structures

Android Game Programming Matthew Gimson,2016-09-19 This book is a guide for you to develop your own Android game The various steps which are necessary for you to come up with a complete and functional game have been discussed

The book begins by guiding you in creating a new project for the game application You will understand how a game is developed and how it will function from the plan established at this stage The next part of the book discusses the loop to be used for the game in other words how the activities for the game will flow This will help you to get organized On reading this book you will be guided in how to display images on the screen of an Android device The kind of images which are highly preferred is discussed The book will also guide you in how to move these images around the screen The rate of display of an image on the screen is measured in terms of frames per second

Unity Android Game Development by Example

Beginner's Guide Thomas Finnegan,2013-12-20 Unity Android Game Development by Example Beginner s Guide consists of different game application examples No prior experience with programming Android or Unity is required You will learn everything from scratch and will have an organized flow of information specifically designed for complete beginners to Unity Great for developers new to Unity Android or both this book will walk you through everything you need to know about game development for the Android mobile platform No experience with programming Android or Unity is required Most of the assets used in each chapter project are provided with the book but it is assumed that you have some access to basic image and model creation software You will also need access to an Android powered device

Beginning Android 4 Games

Development Mario Zechner,Robert Green,2012-01-25 Beginning Android 4 Games Development offers everything you need to join the ranks of successful Android game developers You ll start with game design fundamentals and programming basics and then progress toward creating your own basic game engine and playable game that works on Android 4 0 and earlier devices This will give you everything you need to branch out and write your own Android games The potential user base and the wide array of available high performance devices makes Android an attractive target for aspiring game developers Do you have an awesome idea for the next break through mobile gaming title Beginning Android 4 Games Development will help you kick start your project The book will guide you through the process of making several example games for the Android platform and involves a wide range of topics The fundamentals of Android game development targeting Android 1 5 4 0 devices The Android platform basics to apply those fundamentals in the context of making a game The design of 2D and 3D games and their successful implementation on the Android platform

Android Game Programming For Dummies

Derek James,2012-11-30 Learn how to create great games for Android phones Android phones are rapidly gaining market share nudging the iPhone out of the top spot Games are the most frequently downloaded apps in the Android market and users are willing to pay for them Game programming can be challenging but this step by step guide explains the process in easily understood terms A companion Web site offers all the programming examples for download Presents tricky game programming topics animation battery conservation touch screen input and adaptive interface issues in the straightforward easy to follow For Dummies fashion Explains how to avoid pitfalls and create fun games based on best programming practices for mobile devices A companion web site includes all programming examples If you have some programming

knowledge Android Game Programming For Dummies will have you creating cool games for the Android platform quickly and easily

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