



Real Python

# Getting Started With Django Channels Real Python

**Antonio Melé**



## **Getting Started With Django Channels Real Python:**

**Getting started with Django 6** Andres, Django is a framework with many options it allows us to create applications with the language of the moment Python a modular programming language with an impeccable syntax that we can also use in a web environment It offers us a modular scheme between projects and applications an important set of packages to extend the already complete framework and with this the creation of scalable projects It is a framework that by using Python brings us its benefits of a clean clear precise syntax a modular and scalable environment through packages This book is for anyone who wants to start developing with Django you may come from another framework or even PHP in both cases it is a great idea to learn from one of the most advanced and complete web frameworks you can find For those who want to know the framework and who know other web frameworks but do not have the necessary knowledge to venture into these For people who want to improve a skill in web development who want to grow as a developer and who want to keep climbing their way with other frameworks similar to this one For those who want to learn or improve a skill and with this increase their chances of employment or to carry out a personal project This book has a total of 18 chapters it is recommended that you read in the order in which they are arranged and as we explain the components of the framework go directly to the practice replicate test and modify the codes that we show in this book Chapter 1 In this chapter we are going to present the software necessary to create projects in Django Python as a programming language and in which the framework is developed a code editor such as VSS until preparing the environment Chapter 2 In this chapter we are going to create the virtual environment to develop the application we will create the project in Django we will learn about its basic structure and the use of applications and projects in Django Chapter 3 In this chapter we will give an introduction to Python knowing its basic characteristics and functionalities such as variables data types functions classes among others Chapter 4 In this chapter we are going to create a simple CRUD type application and learn about all the elements of the framework that this implies such as management of forms templates views and models in addition to the management of CSRF tokens migrations databases among others Chapter 5 In this chapter we are going to work with Django Admin to provide an interface for managing site content that is the typical CRUDs we will learn how to customize them at the class level validations interpret requests among others Chapter 6 In this chapter we are going to introduce the use of forms in Django definition validations saving and structure in general Chapter 7 In this chapter we are going to present the different functionalities that templates have in Django Chapter 8 In this chapter we are going to introduce some functions that we can use with QuerySets when building queries Chapter 9 In this chapter we are going to build a Rest API with the Django Rest Framework Chapter 10 In this chapter we are going to consume the above Rest Api with an app in Vue 3 and NaiveUI lists forms will be created and integrated with Tailwind css Chapter 11 In this chapter we are going to learn about class based views by performing the typical operations that are needed in modern web development Chapter 12 In this chapter we are going to learn how to work with files in Django

specifically reading and generating excel and CSV and generating PDFs Chapter 13 In this chapter we are going to show the code of an application created with Alpine js to create a to do list component Chapter 14 In this chapter we are going to adapt the Alpine js application presented in the previous chapter so that it works together with Django Chapter 15 In this chapter we are going to use Django Channels to learn how to create systems with full duplex communication and be able to create our own websockets and consume them we will see how to create single and multiple channel applications as well as how to consume a consumer from an app in Vue Chapter 16 In this chapter we are going to create a personalized authentication module with login registration recover passwords sending emails uploading the avatar among others Chapter 17 In this chapter we are going to learn how to use the signals system to intercept events in Django such as creation of entities in the database and execute custom code Chapter 18 In this chapter we will introduce the use of testing to create automated functions and test different modules of our application

[Python for Entrepreneurs: Beginner's Guide to Coding and Automating Your Business](#) Diego Rafael Montoya ,2025-07-01 Launch Automate Grow Your Business with Python Are you an entrepreneur who s tired of manual work broken systems or third party fees Python for Entrepreneurs is your comprehensive hands on guide that shows you how to build custom tools automate repetitive tasks and unlock growth potential without needing a developer What You ll Build Learn Automate Business Processes Write scripts to scrape competitor data send personalized emails generate invoices or post to social media freeing up hours every day Streamline Online Operations Connect APIs e g Stripe Mailchimp Google Sheets so your systems talk to each other no coding expertise required Launch a Basic Web App Learn Flask essentials so you can create a mini CRM booking tool dashboard or client portal and scale it over time Gain Coding Confidence Start from foundational basics variables loops functions and build your skills through practical examples Hands On Projects Included Step by step tutorials guide you from zero code to full business automations with downloadable templates to accelerate your journey Why This Book Is a Must Have Entrepreneur Focused Approach Not a generic coding manual every lesson geared toward solving real business problems Immediate ROI Instead of paying developers or subscribing to services build your own tools and systems your way No Technical Experience No Problem Learn Python in plain language with small projects that deliver results fast Who Will Benefit Most Small business owners tired of manual data entry invoicing or outreach Solopreneurs ready to build their own digital tools and save on monthly fees Startup founders who want to prototype ideas and impress investors Freelancers seeking to automate scheduling billing and delivery workflows Benefits You ll Gain Time Savings Reduce manual tasks from hours to minutes Cost Savings Skip pricey SaaS tools build tools tailored to your business Scalability Control Own your systems no vendor lock in Career Edge Python is one of the top in demand languages globally Bonus Features Cheat sheets for common business automations and API integrations Clear jargon free explanations so you learn fast and effectively Real world examples used by entrepreneurs validated by communities like Coding for Entrepreneurs Ready to take control of your business Tap into the

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**Django in Action** Christopher Trudeau, 2024-08-06 Django in Action is the perfect way to get started for new Django developers creating their first Python based web apps As you work through the book you ll create and upgrade a web application as you explore useful and exciting Django plug ins and tackle challenging exercises that help lock in your new skills

**Django Web Development with Python** Mark John Perez Lado, 2025-08-22 Step into the world of professional web development with Django the Python framework trusted by developers worldwide Whether you are a complete beginner or a programmer looking to level up this book guides you from the basics of Python web development to deploying fully functional real world web applications Packed with hands on examples practical exercises and step by step walkthroughs it makes even complex concepts easy to understand no prior web experience required Inside this definitive guide you ll discover Getting Started Understand why Django is the preferred framework how it compares to Flask and FastAPI and the roadmap for your learning journey Development Environment Setup Install Python VS Code virtual environments and Django with confidence Building Projects Create your first Django project and apps set up models and databases and interact with data using Django ORM Admin Templates User Authentication Master the admin panel design responsive templates manage static files and secure your applications with login and user management CRUD Advanced Features Build fully functional Create Read Update Delete operations implement forms class based views middleware pagination file uploads and email integration REST APIs Learn to create test and consume APIs using Django REST Framework for modern web and mobile apps Deployment Launch your projects on platforms like PythonAnywhere Render Railway app or VPS with Gunicorn and Nginx Best Practices Beyond Django Optimize performance write reusable apps and integrate with React Vue Angular Flutter and real time apps using Django Channels and Celery Final Project Consolidate your skills by building a complete deployable blog application from scratch This book is a must read for anyone serious about web development offering the knowledge and tools to turn ideas into live scalable web applications Learn by doing gain confidence and start building professional Django apps today

**Python Web Development with Django** Jeff Forcier, Paul Bissex, Wesley J Chun, 2008-10-24 Using the simple robust Python based Django framework you can build powerful Web solutions with remarkably few lines of code In Python Web Development with Django three experienced Django and Python developers cover all the techniques tools and concepts you need to make the most of Django 1.0 including all the major features of the new release The authors teach Django through in depth explanations plus provide extensive sample code supported with images and line by line explanations You ll discover how Django leverages Python s development speed and flexibility to help you solve a wide spectrum of Web development problems and learn

Django best practices covered nowhere else You'll build your first Django application in just minutes and deepen your real world skills through start to finish application projects including Simple Web log blog Online photo gallery Simple content management system Ajax powered live blogger Online source code sharing syntax highlighting tool How to run your Django applications on the Google App Engine This complete guide starts by introducing Python Django and Web development concepts then dives into the Django framework providing a deep understanding of its major components models views templates and how they come together to form complete Web applications After a discussion of four independent working Django applications coverage turns to advanced topics such as caching extending the template system syndication admin customization and testing Valuable reference appendices cover using the command line installing and configuring Django development tools exploring existing Django applications the Google App Engine and how to get more involved with the Django community Introduction 1 Part I Getting Started Chapter 1 Practical Python for Django 7 Chapter 2 Django for the Impatient Building a Blog 57 Chapter 3 Starting Out 77 Part II Django in Depth Chapter 4 Defining and Using Models 89 Chapter 5 URLs HTTP Mechanisms and Views 117 Chapter 6 Templates and Form Processing 135 Part III Django Applications by Example Chapter 7 Photo Gallery 159 Chapter 8 Content Management System 181 Chapter 9 Liveblog 205 Chapter 10 Pastebin 221 Part IV Advanced Django Techniques and Features Chapter 11 Advanced Django Programming 235 Chapter 12 Advanced Django Deployment 261 Part V Appendices Appendix A Command Line Basics 285 Appendix B Installing and Running Django 295 Appendix C Tools for Practical Django Development 313 Appendix D Finding Evaluating and Using Django Applications 321 Appendix E Django on the Google App Engine 325 Appendix F Getting Involved in the Django Project 337 Index 339 Colophon 375

*Practical Django 2 and Channels 2* Federico Marani, 2018-12-14 Learn how to rapidly build your own ecommerce site by applying Django's battle tested components This book demonstrates Django's features and conventions to help you develop modern web applications quickly You'll adopt a learn by doing approach and gain a deeper understanding Django by working through a project in which the real time component will be critical The book starts with the basics and explains the difference between a Django project and a Django app the most important settings how to change them and the fundamentals of packaging You'll then be introduced to all the standard tools of Django along with a sample project The book then moves on to Channels a recent addition to the Django ecosystem It extends the framework with support for real time operations such as Websockets and other asynchronous features Practical Django 2 and Channels 2 provides the practical concepts needed to create complex database driven websites as easily as possible What You'll Learn Build and deploy a simple company site with Django Develop more complex data heavy sites using the Django ORM Integrate Django with Channels Unit test your solutions Who This Book Is For Python developers and web developers wanting to learn Django 2 and Channels 2

**Ultimate Django for Web App Development Using Python: Build Modern, Reliable, and Scalable Production-Grade Web Applications with Django and Python** Leonardo

Luis,2024-01-22 Craft Scalable and Dynamic Web Apps using Django and Python Key Features Real World Practices and Solutions for Crafting Dynamic and Scalable Django Solutions Build a Comprehensive Task Management System Hands On Explore Advanced API Testing and Deployment Techniques with Real World Applications Book Description This comprehensive guide is an indispensable resource for developers seeking to elevate their web development skills in Django and Python The book begins by establishing a strong foundation and understanding of Django s architecture emphasizing the Model View Template MVT pattern and a pivotal service layer for creating scalable web applications The book then progresses to practical aspects guiding readers through the development of a Task Management App This hands on approach reinforces fundamental concepts and showcases Django s flexibility and efficiency in real world scenarios The advanced sections of the book will help you tackle complex challenges covering topics like preventing double form submissions implementing offline pessimistic and optimistic locking techniques mastering API development with Django Ninja and ensuring application reliability through exhaustive testing with pytest The book culminates in practical insights for deploying Django applications with Docker and Kubernetes this guide equips you to tackle real world challenges effectively What you will learn Unlock the potential of Django 4 2 and Python for robust web development expertise Seamlessly build and deploy a complete Django project implementing essential features like authentication authorization and multi tenant capabilities Develop and secure APIs with Django Ninja following best practices for a streamlined process Gain mastery in testing with pytest ensuring the creation of reliable bug free Django applications Elevate your skills and create web solutions with confidence using the latest tools and techniques in Django development Table of Contents1 Introduction to Django and Python 2 Setting Up Your Development Environment 3 Getting Started with Django Projects and Apps 4 Django Models and PostgreSQL 5 Django Views and URL Handling 6 Using the Django Template Engine 7 Forms in Django 8 User Authentication and Authorization in Django 9 Django Ninja and APIs 10 Testing with pytest 11 Deploying Django Applications with Gunicorn and Docker 12 Final Thoughts and Future Directions Index

**Python Web Development with Django** Jeff Forcier,Jeff,Wesley Chun,2008 *Building Your First Web Application with Django and Python* Linsel Tadashi,2025-03-30 Kickstart your web development journey with Building Your First Web Application with Django and Python This step by step guide is perfect for beginners eager to dive into the world of web development using two of the most powerful tools Django and Python Whether you re a complete novice or have some programming experience this book provides an accessible and comprehensive approach to creating dynamic database driven web applications Django a high level Python web framework enables you to build robust and scalable web applications quickly and efficiently This guide takes you through the entire process of setting up your development environment building a fully functional web app and deploying it to a live server With clear explanations practical examples and hands on tutorials you ll gain a deep understanding of Django s features and how to apply them to real world projects Inside you ll learn How to set up Django and Python for web development Creating

models views and templates in Django for dynamic content rendering Building interactive forms and handling user input with Django forms How to work with databases including creating and managing data with Django s ORM Object Relational Mapping Implementing user authentication and authorization for secure applications Deploying your web application to a live server using popular hosting platforms Best practices for debugging testing and optimizing your Django applications By the end of this book you will have created your first fully functional web application and will be ready to take your web development skills to the next level Building Your First Web Application with Django and Python is the ideal starting point for anyone looking to break into the exciting world of web development Key Features A beginner friendly guide to building web applications with Django and Python Step by step instructions for setting up your environment and developing web apps Practical examples of creating and deploying a fully functional web app Learn about Django s ORM form handling and user authentication Hands on projects to reinforce concepts and provide real world experience Get started today and build your first web application with Django and Python This book will be your trusted companion as you embark on your journey into web development

[Django for Beginners](#) Kristian B Schuster,2025-08-03 Django for Beginners Build Powerful Web Apps with Python and Django Are you curious about web development but feel overwhelmed by complex code intimidating jargon or where to even begin You re not alone and you re exactly who this book is for Django for Beginners offers a clear supportive and confidence building path into the world of coding especially for complete beginners with no prior technical experience This hands on guide demystifies web development by teaching you how to build real world applications using Python one of the most beginner friendly programming languages and Django a powerful web framework used by developers around the world Whether you ve never written a single line of code or are just getting started with Python this book will help you turn your curiosity into working web apps step by step What You ll Gain from This Book Friendly beginner focused teaching No technical background needed Every concept is explained in simple relatable terms Build real web apps From your first Hello World to dynamic websites and user authentication you ll create projects that are actually useful Learn by doing Every chapter includes clear exercises practical examples and confidence boosting projects that reinforce what you learn Modern development skills Discover how to use tools like Git virtual environments Django REST Framework and cloud deployment Mistakes are normal The book guides you through common pitfalls encourages experimentation and celebrates your progress along the way Inside You ll Learn How To Set up your development environment with Python and Django Build your first Django project from scratch Create dynamic web pages using Django templates Work with databases and create powerful CRUD functionality Add user authentication and security features Deploy your web apps to the real world with confidence By the end of this journey you won t just understand how Django works you ll have real coding skills and the ability to build and share your own web apps Along the way you ll gain the confidence to keep learning take on new challenges and unlock opportunities in web development and beyond Start Your Coding Journey Today If you ve ever thought

I wish I could build websites but I don't know where to start this book is your perfect first step Let Django for Beginners be your supportive step by step companion and transform your curiosity into real practical skills

**55- Python for beginners**  
Jason Walker,101-01-01

**Django 3 By Example - Third Edition** Antonio Melé,2020-03-31 Learn Django 3 with four end to end web projects Key Features Learn Django 3 by building real world web applications from scratch in Python using coding best practices Integrate other technologies into your application with clear step by step explanations and comprehensive example code Implement advanced functionalities like a full text search engine a user activity stream or a recommendation engine Add real time features with Django Channels and WebSockets Book Description If you want to learn the entire process of developing professional web applications with Python and Django then this book is for you In the process of building four professional Django projects you will learn about Django 3 features how to solve common web development problems how to implement best practices and how to successfully deploy your applications In this book you will build a blog application a social image bookmarking website an online shop and an e learning platform Step by step guidance will teach you how to integrate popular technologies enhance your applications with AJAX create RESTful APIs and set up a production environment for your Django projects By the end of this book you will have mastered Django 3 by building advanced web applications What you will learn Build real world web applications Learn Django essentials including models views ORM templates URLs forms and authentication Implement advanced features such as custom model fields custom template tags cache middleware localization and more Create complex functionalities such as AJAX interactions social authentication a full text search engine a payment system a CMS a RESTful API and more Integrate other technologies including Redis Celery RabbitMQ PostgreSQL and Channels into your projects Deploy Django projects in production using NGINX uWSGI and Daphne Who this book is for This book is intended for developers with Python knowledge who wish to learn Django in a pragmatic way Perhaps you are completely new to Django or you already know a little but you want to get the most out of it This book will help you to master the most relevant areas of the framework by building practical projects from scratch You need to have familiarity with programming concepts in order to read this book Some previous knowledge of HTML and JavaScript is assumed

**Building Real-time Web Applications with Python (WebSockets, Channels)**  
Pythquill Publishing,2025-06-24 What You Will Learn in This Book Master the fundamentals of real time web applications understanding their core principles benefits and how they differ from traditional web models Comprehend the limitations of the HTTP protocol for persistent bidirectional communication and the historical workarounds like polling and Server Sent Events Gain a deep understanding of WebSockets RFC 6455 including their handshake process data transfer mechanisms and security considerations establishing a strong foundation for modern real time communication Become proficient in asynchronous programming with Python's asyncio learning about event loops coroutines tasks and how to write efficient non blocking code essential for scalable real time systems Build robust WebSocket servers and clients using Python's websockets

library learning to manage connections handle messages and implement basic real time features like chat Implement secure authentication and authorization mechanisms for WebSocket applications safeguarding your real time data and controlling access to resources Develop strategies for scaling and deploying Python WebSocket applications including using load balancers message brokers like Redis Pub Sub reverse proxies and containerization with Docker Integrate real time capabilities into your Django projects using Django Channels understanding its architecture consumers routing and channel layers Create dynamic and interactive features within Django applications by leveraging consumers and routing to handle WebSocket connections and messages Utilize Channel Layers and Groups in Django Channels to efficiently broadcast messages to multiple clients and manage real time group communication Seamlessly integrate Django's ORM and authentication system with Channels consumers enabling real time interactions with your database and user sessions Implement advanced features in Django Channels such as sending messages from outside consumers handling background tasks and creating custom middleware Develop effective testing strategies for real time applications specifically learning to unit test consumers and channel layer interactions in Django Channels Successfully deploy Django Channels applications using ASGI servers like Daphne or Uvicorn configuring Nginx for WebSocket proxying and managing channel layer backends in production Implement crucial security measures for real time Python applications including protection against Cross Site WebSocket Hijacking and Denial of Service attacks along with robust input validation Optimize the performance of your real time systems identifying bottlenecks fine tuning WebSocket message handling and effectively using monitoring tools Design resilient and scalable real time architectures considering principles like decoupling idempotency and robust error handling Analyze real world case studies such as live dashboards collaborative editing and multiplayer game backends to understand practical applications of real time technologies Explore the future landscape of real time web technologies and Python's evolving role preparing you for upcoming trends and continued learning

*Django 5 for the Impatient* Daniel Correa, Greg Lim, 2024-09-27 Get up and running with Django quickly by delving into practical code examples and build real world Django applications Key Features Develop web applications with Python and Django quickly Understand Django features with concise explanations and learn how to use them in a practical way Create a movie store app with a responsive user interface and deploy it to the cloud Purchase of the print or Kindle book includes a free PDF eBook Book Description Learning Django can be a challenging and time consuming activity without the right guidance With hundreds of tutorials loads of documentation and unclear explanations out there it's easy to lose sight of what's most important This book stands out by teaching you how to use Django in just a few days with a focused approach In this second edition you'll go on a fun practical and pragmatic journey to learning full stack development with Django 5 You'll start building your first Django app within minutes As you progress you'll learn from concise explanations that will help you get to grips with some of the most important Django features including URLs views templates models CSS inclusion image storage Django admin panel and

more You ll also understand how to design Django MVT Model View Template architectures and implement them Additionally you ll use Django to develop a movie store application and deploy it to the internet By the end of this book you ll be able to build and deploy your own Django web applications confidently What you will learn Understand and use Django key features including URLs templates models and forms Implement responsive user interfaces using Bootstrap Manage data storage in databases effectively Explore the powerful built in admin interface with Django Harness Django s powerful built in authentication system Deploy your Django project on the internet for users Who this book is for This book is for Python developers of any experience level who want to build full stack web applications using Django Anyone new to Django can get started with this book

**Python Programming Crash Course** Hein Smith, Brayden Smith Smith, 2020-04-04 Learn to use Python Your hands on Quick start guide to Python Programming If you are really serious about Python Programming and want to get into the real Python programming world within the next 7 days of your Life If YES then you are in the right place Why Because this is the only book that comes with Interactive Codes thoroughly tested and proofread by experts Expert Tips and Tricks stand out from the crowd and Exercises with their Solutions make the concepts stick to your mind Python Programming Crash Course is an easy to follow book that will introduce you to the Python language without leaving any stones unturned Even if you have absolutely no coding experience Python for Beginners will not only give you the foundations you need to become an expert in Python it will also help you set the stage to learning more advanced coding methods in Python and even in other programming languages Python is the perfect tool to use in order to learn coding from the ground up It s able to run on any computing platform from Mac to Windows while also being extremely easy to use and learn Even more important Python is finding applications that go well beyond mere pedagogy By learning the basics of Python you are setting the stage for becoming an expert with a skill that is important across industries from airlines to hospitals to self driving cars This book is presented for complete beginners As a result it is suitable for virtually any skill level If you have never programmed once before in your entire life Python for beginners is going to be the book for you enabling you not only to master the basics of Python but also to learn many of the general principles of computer programming that can be applied to any programming language Among the many topics covered in this book we will talk about What is the Python language and why you want to learn it Setting up the Python environment and writing your first program Variable types and data structures used in Python including primitive types and Dictionaries and sets Control flow tools Comparison operators looping and if statements Handling exceptions Dealing with modules and functions Object oriented programming Includes discussions of advanced ideas like an inheritance Overloading operators Handling basic mathematics Searching and pattern matching Basic networking Sockets servers and clients Modules Working with packages Modifiers Simple database access GUI Programming including windows message boxes and other items Remember you can never compare a well structured paid book with free online resources like Youtube Channels Discussion Forums and other online courses mostly out dated

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functions and data structures without memorization Best practices and pro tips for writing readable scalable code used by real developers Debugging and problem solving strategies to think like a programmer and overcome any coding challenge A step by step roadmap that builds your skills naturally preparing you for advanced projects and professional growth By the time you reach the final page you won t just know Python you ll use it You ll have built real working programs that prove your progress and unlock endless opportunities in tech data and automation If you ve ever felt lost trying to learn to code this book is the missing link the one that makes Python finally click Stop just reading about programming Start doing it Start creating Start your journey with Python in Action today

**Learning Django Web Development** Ratan Kumar, Sanjeev Jaiswal, 2015-06-19 This book is for web developers who want to get started with Django for web development Basic knowledge of Python programming is required but no knowledge of Django is expected

*Getting Started with Streamlit for Data Science* Tyler Richards, 2021-08-20 Create deploy and test your Python applications analyses and models with ease using Streamlit Key Features Learn how to showcase machine learning models in a Streamlit application effectively and efficiently Become an expert Streamlit creator by getting hands on with complex application creation Discover how Streamlit enables you to create and deploy apps effortlessly Book Description Streamlit shortens the development time for the creation of data focused web applications allowing data scientists to create web app prototypes using Python in hours instead of days Getting Started with Streamlit for Data Science takes a hands on approach to helping you learn the tips and tricks that will have you up and running with Streamlit in no time You ll start with the fundamentals of Streamlit by creating a basic app and gradually build on the foundation by producing high quality graphics with data visualization and testing machine learning models As you advance through the chapters you ll walk through practical examples of both personal data projects and work related data focused web applications and get to grips with more challenging topics such as using Streamlit Components beautifying your apps and quick deployment of your new apps By the end of this book you ll be able to create dynamic web apps in Streamlit quickly and effortlessly using the power of Python What you will learn Set up your first development environment and create a basic Streamlit app from scratch Explore methods for uploading downloading and manipulating data in Streamlit apps Create dynamic visualizations in Streamlit using built in and imported Python libraries Discover strategies for creating and deploying machine learning models in Streamlit Use Streamlit sharing for one click deployment Beautify Streamlit apps using themes Streamlit Components and Streamlit sidebar Implement best practices for prototyping your data science work with Streamlit Who this book is for This book is for data scientists and machine learning enthusiasts who want to create web apps using Streamlit Whether you re a junior data scientist looking to deploy your first machine learning project in Python to improve your resume or a senior data scientist who wants to use Streamlit to make convincing and dynamic data analyses this book will help you get there Prior knowledge of Python programming will assist with understanding the concepts covered

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### **Getting Started With Django Channels Real Python Introduction**

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