

# Sync vs Async Communication

Request and wait for a response  
Fire and forget with messages/events

@lorenz/23

## Synchronous



Request-response model

Send a request and wait for some response  
Example: API requests

## Asynchronous



Fire and forget model

Send message/event and forget  
Example: Event Driven Architecture

# For Beginners Async Communication

**Ann Beheler**



## For Beginners Async Communication:

**Beginning JavaScript** Jeremy McPeak, 2015-02-18 The bestselling JavaScript guide updated with current features and best practices Beginning JavaScript 5th Edition shows you how to work effectively with JavaScript frameworks functions and modern browsers and teaches more effective coding practices using HTML5 This new edition has been extensively updated to reflect the way JavaScript is most commonly used today introducing you to the latest tools and techniques available to JavaScript developers Coverage includes modern coding practices using HTML5 markup the JSON data format DOM APIs the jQuery framework and more Exercises with solutions provide plenty of opportunity to practice and the companion website offers downloadable code for all examples given in the book Learn JavaScript using the most up to date coding style Understand JSON functions events and feature detection Utilize the new HTML5 elements and the related API Explore new features including geolocation local storage and more JavaScript has shaped the Web from a passive medium into one that is rich dynamic and interactive No matter the technology on the server side it s JavaScript that makes it come alive in the browser To learn JavaScript the way it s used today Beginning JavaScript 5th Edition is your concise guide

*Django for Beginners, Fifth Edition* William S. Vincent, 2024-07-11 Completely updated for Django 5 Django for Beginners is a project based introduction to Django the popular Python based web framework It is suitable for total beginners who have never built a website before and professional programmers looking for a fast paced guide to modern web development and Django fundamentals The completely revised fifth edition takes a practical approach introducing concepts through six projects designed to simulate real world scenarios From a Hello World website to a message board application a blogging platform and a newspaper CMS you ll learn about Django s architecture and how to add new functionality step by step This book is for readers with basic Python knowledge and programmers transitioning to Django from other web frameworks It is a fast paced guide that aligns with current best practices and modern web development with Django ensuring you re learning the most relevant and applicable skills In the book you ll learn how to Build 6 websites from scratch including a Blog platform and Newspaper CMS Deploy online using security best practices Implement signup login logout password change and password reset Customize the look and feel of your sites Write tests and run them for all your code Add permissions and authorizations to make your app more secure If you re curious about Python based web development Django for Beginners is a best practices guide to writing testing and deploying your own websites quickly

*Beginning ASP.NET for Visual Studio 2015* William Penberthy, 2016-01-26 The complete guide to the productivity and performance enhancements in ASP NET Beginning ASP NET for Visual Studio 2015 is your ultimate guide to the latest upgrade of this historically popular framework Fully updated to align with the vNext release this new edition walks you through the new tools and features that make your workflow smoother and your applications stronger You ll get up to speed on the productivity and performance improvements and learn how Microsoft has committed itself to more continuous innovation by increasing its release cadence for all

products and services going forward Coverage includes Async aware debugging ADO NET idle connection resiliency managed return value inspection ASP NET app suspension on demand large object heap compaction multi core JIT and more The news of an off cycle update to ASP NET came as a surprise but its announcement garnered cheers at the 2014 Microsoft BUILD conference This guide shows you what all the fuss is about and how Microsoft overhauled the latest ASP NET release Get acquainted with the new developer productivity features Master the new tools that build better applications Discover what s new in Windows Store app development Learn how Microsoft fixed the issues that kept you from v5 Over 38 million websites are currently using ASP NET and the new upgrade is already leading to increased adoption Programmers need to master v6 to remain relevant as web development moves forward Beginning ASP NET for Visual Studio 2015 walks you through the details and shows you what you need to know so you can get up and running quickly

**Beginning ChatGPT for Python** Lydia Evelyn, Bruce Hopkins, 2024-11-22 Unlock the future of software development and empower yourself to elevate your Python applications by harnessing the power of AI as this field continues to grow and evolve Perfect for beginner to intermediate Python programmers this book breaks down the essentials of using ChatGPT and OpenAI APIs You ll start with the basics learning to authenticate send prompts generate responses test in the Playground and handle errors with ease Each chapter includes hands on exercises that bring concepts to life demonstrating different API functionalities and practical applications You ll master models like GPT 4o GPT 4 GPT 3 5 Whisper and DALL E enabling you to enhance your applications with cutting edge AI Discover how generative AI tools like ChatGPT can automate tedious tasks rather than replace jobs Leverage ChatGPT s powerful Natural Language Processing NLP capabilities to handle various formats of unstructured text within your Python apps Quickly see how easy it is to use ChatGPT as your AI pair programmer boosting your productivity and speed This step by step guide will have you creating intelligent chatbots that can automatically process messages from Slack or Discord With Beginning ChatGPT for Python you ll master the ChatGPT and OpenAI APIs building intelligent applications that offer a personalized and engaging user experience What You ll Learn Connect with the ChatGPT and OpenAI APIs and send effective prompts Harness parameters like temperature and top\_p to create unique and engaging responses from ChatGPT Create an intelligent assistant bot for Slack that automates tasks and enhances productivity Develop a bot that can moderate conversations and manage communities on Discord Add context to your prompts to get more accurate and relevant responses Who This Book Is For Python developers and enthusiasts who aspire to employ OpenAI and ChatGPT in the creation of intelligent applications to enhance productivity

**Beginning Ajax with ASP.NET** Wallace B. McClure, 2006-09-05 By leveraging a number of existing and popular technologies Ajax allows Web applications to make quick updates to the user interface without reloading the entire browser page It is an ideal resource for developers who want to get started with Ajax oriented Web developments using current technologies in particular Atlas

DOS for Beginners Dan Kauffman, 1990

Communications and Networking for the IBM PC Larry E. Jordan, Bruce Churchill, 1983 Treats in General

the Applications of the IBM PC in Data Communications in Detail Local Area Networking *Communications and Networking for the IBM PC and Compatibles* Larry E. Jordan, Bruce Churchill, 1992 Complete full spectrum guide to network planning and implementation by practicing systems professionals Features step by step explanations of every aspect of data communications including cost benefit installation and troubleshooting procedures *The ARRL Handbook for Radio Communications*, 2003 *Communications and Networking for the IBM PC & Compatibles* Larry E. Jordan, Bruce Churchill, 1987 **Data Communications Software Design** Malcolm G. Lane, 1985 **Communication Electronics** Louis Frenzel, 1999-11 Communication Electronics 3 e is a comprehensive introduction to communication circuits and systems for students with a background in basic electronics All of the chapters have been revised and updated to include the latest circuitry systems and applications **The ARRL Handbook for Radio Amateurs, 2003** American Radio Relay League, 2002 Includes a searchable index of QST product reviews a database on over 1000 equipment and parts suppliers and several other programs **Computer Architecture, Tutorial** Daniel D. Gajski, 1987 This tutorial is intended for computer system architects designers and managers who need a broad range of knowledge on advanced topics in computer architecture The book can be used as a textbook or as a research and design reference The goal of this tutorial is to present the state of the art in advanced computer architecture Part I deals with the concepts underlying current architectures Part II covers a variety of approaches and techniques being used in the design of advanced computer systems **The ARRL Handbook for the Radio Amateur**, 2001 **Introduction to Data Communications Using Novell NetWare (4.11)** Ann Beheler, 1999 For Introductory courses in Data Communications or Novell Netware Describes major data communications devices and systems Shows the use of both wide area and local area networks Explains network design fundamentals Discusses important Novell Netware 4.11 topics ranging from overview through user creation login script creation printing file system rights Novell Directory Services rights and troubleshooting Publisher **New York Court of Appeals. Records and Briefs.** New York (State)., *Tutorial Supercomputers* Kai Hwang, 1984 IBM? RISC System/6000 Jim Hoskins, 1996-05-03 If you re thinking about investing in a RISC Sytem 6000 this comprehensive buyer s guide should be an essential resource IBM insider Jim Hoskins offers detailed information on selecting integrating and operating teh right model for businesses of any size He reviews the latest line announced this fall exploring both hardware and peripheral options **PC**, 1988-07

For Beginners Async Communication: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. For Beginners Async Communication : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. For Beginners Async Communication : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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