

# 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

# Async Communication Advanced

**A Gutmann**



## **Async Communication Advanced:**

**Low-Power Processors and Systems on Chips** Christian Pigué, 2018-10-03 The power consumption of microprocessors is one of the most important challenges of high performance chips and portable devices In chapters drawn from Pigué's recently published *Low Power Electronics Design* this volume addresses the design of low power microprocessors in deep submicron technologies It provides a focused reference for specialists involved in systems on chips from low power microprocessors to DSP cores reconfigurable processors memories ad hoc networks and embedded software *Low Power Processors and Systems on Chips* is organized into three broad sections for convenient access The first section examines the design of digital signal processors for embedded applications and techniques for reducing dynamic and static power at the electrical and system levels The second part describes several aspects of low power systems on chips including hardware and embedded software aspects efficient data storage networks on chips and applications such as routing strategies in wireless RF sensing and actuating devices The final section discusses embedded software issues including details on compilers retargetable compilers and coverification tools Providing detailed examinations contributed by leading experts *Low Power Processors and Systems on Chips* supplies authoritative information on how to maintain high performance while lowering power consumption in modern processors and SoCs It is a must read for anyone designing modern computers or embedded systems

*Low-Power Electronics Design* Christian Pigué, 2018-10-03 The power consumption of integrated circuits is one of the most problematic considerations affecting the design of high performance chips and portable devices The study of power saving design methodologies now must also include subjects such as systems on chips embedded software and the future of microelectronics *Low Power Electronics Design* covers all major aspects of low power design of ICs in deep submicron technologies and addresses emerging topics related to future design This volume explores in individual chapters written by expert authors the many low power techniques born during the past decade It also discusses the many different domains and disciplines that impact power consumption including processors complex circuits software CAD tools and energy sources and management The authors delve into what many specialists predict about the future by presenting techniques that are promising but are not yet reality They investigate nanotechnologies optical circuits ad hoc networks e textiles as well as human powered sources of energy *Low Power Electronics Design* delivers a complete picture of today's methods for reducing power and also illustrates the advances in chip design that may be commonplace 10 or 15 years from now

**Mastering Asynchronous Programming in Python: Unlock the Secrets of Expert-Level Skills** Larry Jones, 2025-03-03 *Mastering Asynchronous Programming in Python: Unlock the Secrets of Expert Level Skills* is an essential resource for seasoned programmers looking to enhance their software development capabilities Delve into the intricacies of asynchronous programming a paradigm that enables non blocking task execution and opens doors to creating high performance scalable applications From foundational principles to advanced strategies this book provides a

comprehensive guide to harnessing Python's robust asynchronous features. Each chapter navigates through critical themes such as event loops, coroutines, and the seamless integration of `asyncio` with third-party libraries. The book goes beyond basics, exploring sophisticated design patterns and debugging practices tailored for asynchronous environments. Readers gain actionable insights into optimizing code for concurrent execution, ultimately leading to responsive and efficient applications. The text strikes a balance between theoretical concepts and practical implementations, ensuring a deep and thorough understanding. Whether you are aiming to refactor existing codebases or innovate new asynchronous applications, this book is your definitive guide. Armed with cutting-edge techniques and expert knowledge, you will be well-prepared to tackle complex programming challenges in today's fast-paced tech landscape. Equip yourself with the skills to drive innovation in software performance and scalability, mastering the art of asynchronous programming with Python.

**Design Patterns in Practice: Unlock the Secrets of Expert-Level Skills** Larry Jones, 2025-03-17. Unlock the secrets of expert-level software design with *Design Patterns in Practice: Unlock the Secrets of Expert Level Skills*. This comprehensive guide delves into the essentials of design patterns, equipping experienced programmers with the tools needed to elevate their development capabilities. By exploring a broad range of patterns from creational to concurrency and architectural, this book provides a detailed roadmap for enhancing the flexibility, maintainability, and scalability of your software systems. Each chapter meticulously dissects a category of design patterns, shedding light on their real-world applications and demonstrating how they can be leveraged to solve complex design problems. With a strong emphasis on practical implementation, the book examines patterns, contexts, benefits, and trade-offs, offering readers valuable insights and strategies for overcoming challenges and avoiding common pitfalls. You'll gain depth in understanding and handling domain-specific patterns tailored to tackle industry-specific challenges and enhance performance across diverse fields. Whether you're revisiting familiar patterns with fresh perspectives or venturing into advanced integrative techniques, *Design Patterns in Practice* promises to transform your approach to software architecture. By the end of this compelling read, you'll be adept at orchestrating robust solutions through an artful combination of patterns, thereby achieving superior design mastery and delivering high-performance applications. This book is an indispensable resource for any developer aiming to achieve excellence in the art of software design.

*The Telecommunications Illustrated Dictionary* J.K. Petersen, 2002-05-29. From fundamental physics concepts to the World Wide Web, the *Telecommunications Illustrated Dictionary*, Second Edition, describes protocols, computer and telephone devices, basic security concepts, and Internet-related legislation, along with capsule biographies of the pioneering inventors who developed the technologies that changed our world. The new edition offers even more than the acclaimed and bestselling first edition, including thousands of new definitions and existing definitions updated and expanded. Expanded coverage from telegraph and radio technologies to modern wireline and mobile telephones, optical technologies, PDAs, and GPS-equipped devices. More than 100 new charts and illustrations. Expanded appendices with categorized RFC listings. Categorized charts of

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l when the half reactions listed above are combined into a balanced chemical equation the ratio of the coefficients  $\text{Cu} + \text{S} + \text{MnO}_4^- + 4\text{H}^+ + \text{aq}$  is

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web google classroom for the following redox equation  $\text{MnO}_4^- + 4\text{H}^+ + \text{aq} + 2\text{e}^- \rightarrow \text{Mn}^{2+} + 2\text{aq} + \text{H}_2\text{SO}_4 + 4\text{H}^+ + \text{aq}$  what will be the stoichiometric coefficient of  $\text{H}_2\text{SO}_4$  if the above equation is balanced in an acidic medium stuck use a hint report a problem do 4 problems

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web balance this redox reaction by the half reaction method by assuming an acidic solution  $\text{Cr}^{2+} + \text{Fe}^{3+} \rightarrow \text{Cr}^{3+} + \text{Fe}^{2+}$  balance the redox reaction in exercise 9 by the half reaction method by assuming a basic solution

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web solution 1 the two half reactions balanced as if in acidic solution  $2\text{CN}^- + \text{Au} \rightarrow 2\text{e}^- + 2\text{H}^+ + \text{H}_2\text{O}_2 + 2\text{Au}^{3+}$  make electrons equal convert to basic solution  $4\text{CN}^- + 2\text{Au} + 2\text{OH}^- \rightarrow 2\text{e}^- + 2\text{H}_2\text{O} + \text{O}_2 + \text{H}_2\text{O}_2 + 2\text{OH}^-$  3 the final answer

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web the half equation method separates the oxidation and reduction of a redox reaction in half reactions overall scheme for the half reaction method step 1 split reaction into half reactions reduction and oxidation step 2 balance the charge or oxidation number with electrons step 3 balance c e o by adding c e h<sub>2</sub>o

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web when balancing equations for redox reactions occurring in basic solution it is often necessary to add oh ions or the oh h<sub>2</sub>o pair to fully balance the equation in this video we ll walk through this process for the reaction between clo and cr oh<sub>4</sub> in basic solution created by jay

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web bonus problem here is a balanced net ionic equation  $3\text{Br}^- + 2\text{OH}^- + 5\text{BrO}_3^- + 3\text{H}_2\text{O} \rightarrow \text{BrO}_2^- + 3\text{H}_2\text{O} + 3\text{Br}^-$  the above equation takes place in two stages first bromine reacts with oh ions to form bromide ions and bro ions second the bro ions react to form bromide ions and bromate v ions

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redox equations oxidation state method ion electron method the latter is easier to use with redox reactions in aqueous solution and if necessary can be adapted to many situations that are not in aqueous solution

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web we can balance it for charge by adding two electrons to the right side of the equation so that the net charge on each side is 0 oxidation  $\text{Ni} \rightarrow \text{Ni}^{2+} + 2\text{e}^-$  now that the oxidation half reaction is balanced it tells us that two electrons are produced for every atom of nickel oxidized but where do those electrons go

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web in the redox equation below that occurs in our stomach which of the following pairs identifies the reducing and oxidizing agents respectively  $\text{C}_6\text{H}_8\text{O}_6 + 2\text{HNO}_2 + 2\text{C}_6\text{H}_6\text{O}_6 + 2\text{H}_2\text{O} \rightarrow 2\text{NO} + \text{C}_6\text{H}_8\text{O}_6 + \text{H}_2\text{O} + 2\text{C}_6\text{H}_6\text{O}_6$  choose 1 answer c  $\text{C}_6\text{H}_8\text{O}_6$  and  $\text{NO}_2$  a  $\text{C}_6\text{H}_8\text{O}_6$  and  $\text{NO}_2$  b  $\text{NO}_2$  and  $\text{C}_6\text{H}_8\text{O}_6$  h and  $\text{NO}_2$  c h and

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