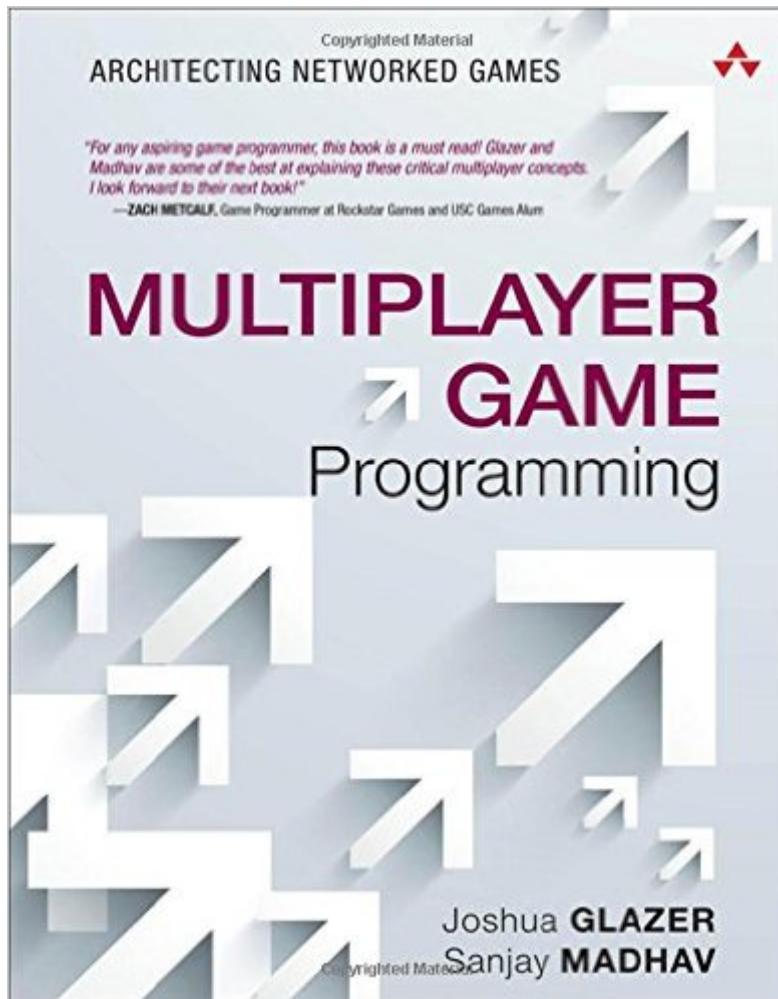


The book was found

Multiplayer Game Programming: Architecting Networked Games (Game Design)



Synopsis

The Practical Guide to Building Reliable Networked Multiplayer Games

Networked multiplayer games are a multibillion dollar business: some games now attract tens of millions of players. In this practical, code-rich guide, Joshua Glazer and Sanjay Madhav guide you through every aspect of engineering them. Drawing on their immense experience as both game developers and instructors, the authors lead you through building a robust multiplayer architecture, and creating every engine-level system. You'll learn through in-depth working code examples for two complete games: an action game and a real time strategy (RTS) game.

First, Madhav and Glazer review the essentials of networking and network programming from the standpoint of game developers. Next, they walk through managing game data transmission, updating game objects across the network, and organizing the devices that join your game. You'll learn how to ensure reliable performance despite the Internet's inherent inconsistencies, and how to design game code for maximum security and scalability. The authors conclude by addressing two increasingly crucial issues: incorporating gamer services and hosting your games in the cloud.

This guide's content has been extensively tested through the authors' multiplayer game programming courses at USC. It is equally valuable both to students and to working game programmers moving into networked games.

Coverage includes

- How games have evolved to meet the challenges of networked environments
- Using Internet communication protocols and standards in game development
- Working with Berkeley Socket, the most widely used networking construct in multiplayer gaming
- Formatting game data for efficient Internet transmission
- Synchronizing states so all players share the same world
- Organizing networking topologies for large-scale games
- Overcoming latency and jitter problems that cause delays or lost data
- Scaling games without compromising performance
- Combating security vulnerabilities and software cheats
- Leveraging the networking functionality of the popular Unreal 4 and Unity game engines
- Integrating gamer services such as matchmaking, achievements, and leaderboards
- Running game servers in the cloud

About the Website C++ source code for all examples is available at github.com/MultiplayerBook. Instructors will also find a full set of PowerPoint slides and a sample syllabus.

Book Information

Series: Game Design

Paperback: 384 pages

Publisher: Addison-Wesley Professional; 1 edition (November 29, 2015)

Language: English

ISBN-10: 0134034309

ISBN-13: 978-0134034300

Product Dimensions: 6.9 x 0.9 x 8.9 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 starsÂ See all reviewsÂ (2 customer reviews)

Best Sellers Rank: #111,760 in Books (See Top 100 in Books) #14 inÂ Books > Computers & Technology > Games & Strategy Guides > Game Design #57 inÂ Books > Computers & Technology > Games & Strategy Guides > Game Programming #107 inÂ Books > Textbooks > Computer Science > Graphics & Visualization

Customer Reviews

Crisp, full of useful of to-the-point advice. Great review for somebody who is already an engineer, wanting to understand how to go about building their own game while wasting as little time as possible. The code samples seem great too. Really happy with the book!Caveat emptor: this book is not meant for somebody who doesn't know programming. You're supposed to be already pretty good at it when you pick it up. I already knew about networking and was looking specifically for networking recipes for gaming - this is a very complex subject that is well covered here. This is not the book you want if you are either an artist or a very inexperienced developer. This is not an intro textbook but a reference for the experienced programmer.

This book shows how you can build a server architecture that blends seamlessly into your client code. I highly recommend it for anyone that wants to add some sort of real time multiplayer component to their game.

[Download to continue reading...](#)

Multiplayer Game Programming: Architecting Networked Games (Game Design) Programming #8:C Programming Success in a Day & Android Programming In a Day! (C Programming, C++programming, C++ programming language, Android , Android Programming, Android Games) Microsoft .NET - Architecting Applications for the Enterprise: Architecting Applications for the Enterprise (Developer Reference) Programming #57: C++ Programming Professional Made Easy & Android Programming in a Day (C++ Programming, C++ Language, C++for beginners, C++, Programming ... Programming, Android, C, C Programming) Programming a Multiplayer FPS in DirectX (Game Development Series) Programming #45: Python Programming Professional Made

Easy & Android Programming In a Day! (Python Programming, Python Language, Python for beginners, ... Programming Languages, Android Programming) Warriors Word Scramble: Word Scramble Games - Word Search, Word Puzzles And Word Scrambles (Word Games, Brain Games, Word Search, Word Search Games, Word ... Scramble, Word Scrabble, Unscramble Word) Hoyle's Rules of Games: The Essential Family Guide to Card Games, Board Games, Parlor Games, New Poker Variations, and More The Multiplayer Classroom: Designing Coursework as a Game C#: Design Patterns: The Easy Way Standard Solutions for Everyday Programming Problems; Great for: Game Programming, System Administration, App Programming, ... & Database Systems (Design Patterns Series) Programming: Computer Programming for Beginners: Learn the Basics of Java, SQL & C++ - 3. Edition (Coding, C Programming, Java Programming, SQL Programming, JavaScript, Python, PHP) Raspberry Pi 2: Raspberry Pi 2 Programming Made Easy (Raspberry Pi, Android Programming, Programming, Linux, Unix, C Programming, C+ Programming) Android: Programming in a Day! The Power Guide for Beginners In Android App Programming (Android, Android Programming, App Development, Android App Development, ... App Programming, Rails, Ruby Programming) DOS: Programming Success in a Day: Beginners guide to fast, easy and efficient learning of DOS programming (DOS, ADA, Programming, DOS Programming, ADA ... LINUX, RPG, ADA Programming, Android, JAVA) ASP.NET: Programming success in a day: Beginners guide to fast, easy and efficient learning of ASP.NET programming (ASP.NET, ASP.NET Programming, ASP.NET ... ADA, Web Programming, Programming) C#: Programming Success in a Day: Beginners guide to fast, easy and efficient learning of C# programming (C#, C# Programming, C++ Programming, C++, C, C Programming, C# Language, C# Guide, C# Coding) FORTRAN Programming success in a day: Beginners guide to fast, easy and efficient learning of FORTRAN programming (Fortran, Css, C++, C, C programming, ... Programming, MYSQL, SQL Programming) Prolog Programming; Success in a Day: Beginners Guide to Fast, Easy and Efficient Learning of Prolog Programming (Prolog, Prolog Programming, Prolog Logic, ... Programming, Programming Code, Java) R Programming: Learn R Programming In A DAY! - The Ultimate Crash Course to Learning the Basics of R Programming Language In No Time (R, R Programming, ... Course, R Programming Development Book 1) Parallel Programming: Success in a Day: Beginners' Guide to Fast, Easy, and Efficient Learning of Parallel Programming (Parallel Programming, Programming, ... C++ Programming, Multiprocessor, MPI)

[Dmca](#)