

Online Multiplayer

Lee Sheldon

Online Multiplayer Games William Sims Bainbridge, 2010

This lecture introduces fundamental principles of online multiplayer games, primarily massively multiplayer online role-playing games (MMORPGs), suitable for students and faculty interested both in designing games and in doing research on them. The general focus is human-centered computing, which includes many human-computer interaction issues and emphasizes social computing, but also, looks at how the design of socio-economic interactions extends our traditional notions of computer programming to cover human beings as well as machines. In addition, it demonstrates a range of social science research methodologies, both quantitative and qualitative, that could be used by students for term papers, or by their professors for publications. In addition to drawing upon a rich literature about these games, this lecture is based on thousands of hours of first-hand research experience inside many classic examples, including World of Warcraft, The Matrix Online, Anarchy Online, Tabula Rasa, Entropia Universe, Dark Age of Camelot, Age of Conan, Lord of the Rings Online, Tale in the Desert, EVE Online, Star Wars Galaxies, Pirates of the Burning Sea, and the non-game virtual world Second Life. Among the topics covered are historical-cultural origins of leading games, technical constraints that shape the experience, rolecoding and social control, player personality and motivation, relationships with avatars and characters, virtual professions and economies, social relations inside games, and the implications for the external society. Table of Contents: Introduction / Historical-Cultural Origins / Technical Constraints / Rolecoding and Social Control / Personality and Motivation / Avatars and Characters / Virtual Professions and Economies / Social Relations Inside Games / Implications for External Society

Development and Deployment of Multiplayer Online Games, Vol. I 'No Bugs' Hare, 2017-07 Trying to develop your own multiplayer online game can be overwhelming, especially as information on multiplayer specifics is very scarce. The nine-volume Development and Deployment of Multiplayer Games series is an attempt to summarize a body of knowledge that is known in the industry, but is rarely published, let alone published together. The series is highly praised by prominent representatives of the multiplayer gamedev industry. An Early Praise page within the book lists several testimonials by people from billion-dollar and/or AAA companies with job titles ranging from Managing Director and CTO to Backend Technical Director and Principal Software Engineer. Genres: From Social Games to MMOFPS, with Stock Exchanges In Between. Development and Deployment of Multiplayer Online Games aims to cover pretty much all the MOG genres - ranging from social games to MMORPGs and MMOFPS. While there are certainly differences between the genres, around 80% of the discussed concepts apply across the board. Level: Intermediate+. This series is not trying to teach very basics of the programming (and is not a book to copy-paste your MOG from). Rather, it is intended for those intermediate developers who want to progress into senior ones, and all the way up to CTOs and architects. In particular, there is no explanation of what event-driven programming is about, what the difference is between optimistic locking and pessimistic locking, why do you need a source control system, and so on. Instead, there will be discussions on how the concept of futures fits into event-driven programming, when the use of optimistic locking makes sense for games, and how to use source control in the presence of unmergeable files. This Volume: Vol. I Vol. I starts Part ARCH(itecture), and includes three Chapters. Chapter 1

discusses Game Design Document (GDD) - mostly concentrating on its multiplayer specifics of GDDs. Chapter 2 explores the all-important aspects of cheating - which is virtually non-existent in single-player games and games between friends, but plays an enormous role in multiplayer games; the resulting analysis leads to Authoritative Server architectures (note that discussion on implementing anti-cheating measures is much longer than it is possible to fit into Vol. I, and will take the whole Vol. VIII). The largest chapter of Vol. I, Chapter 3, is dedicated to typical multiplayer communication flows. Along the course of this discussion, it will cover lots of different topics, including such different things as Client-Side Prediction, Low-Latency Compressible State Sync, Lag Compensation and its dangers, and Inter-DB Async Transfer with Transactional Integrity

Online Multiplayer Games William Sims

Bainbridge, 2022-05-31 This lecture introduces fundamental principles of online multiplayer games, primarily massively multiplayer online role-playing games (MMORPGs), suitable for students and faculty interested both in designing games and in doing research on them. The general focus is human-centered computing, which includes many human-computer interaction issues and emphasizes social computing, but also, looks at how the design of socio-economic interactions extends our traditional notions of computer programming to cover human beings as well as machines. In addition, it demonstrates a range of social science research methodologies, both quantitative and qualitative, that could be used by students for term papers, or by their professors for publications. In addition to drawing upon a rich literature about these games, this lecture is based on thousands of hours of first-hand research experience inside many classic examples, including World of Warcraft, The Matrix Online,

Anarchy Online, Tabula Rasa, Entropia Universe, Dark Age of Camelot, Age of Conan, Lord of the Rings Online, Tale in the Desert, EVE Online, Star Wars Galaxies, Pirates of the Burning Sea, and the non-game virtual world Second Life. Among the topics covered are historical-cultural origins of leading games, technical constraints that shape the experience, rolecoding and social control, player personality and motivation, relationships with avatars and characters, virtual professions and economies, social relations inside games, and the implications for the external society. Table of Contents: Introduction / Historical-Cultural Origins / Technical Constraints / Rolecoding and Social Control / Personality and Motivation / Avatars and Characters / Virtual Professions and Economies / Social Relations Inside Games / Implications for External Society

MMOs from the Inside Out Richard A. Bartle, 2015-12-26

This is an astonishing collection of ideas, information, and instruction from one of the true pioneers of Massively-Multiplayer Online Role-Playing Games. *MMOs from the Inside Out: The History, Design, Fun, and Art of Massively-Multiplayer Role-playing Games* speaks to the designers and players of MMOs, taking it as axiomatic that such games are inspirational and boundless forces for good. The aim of this book is to enthuse an up-coming generation of designers, to inspire and educate players and designers-to-be, and to reinvigorate those already working in the field who might be wondering if it's still all worthwhile. Playing MMOs is about fun, immersion, and identity. Creating MMOs is about imagination, expression, and art. MMOs are so packed with potential that today's examples are little more than small, pioneering colonies on the shore of a vast, uncharted continent. What wonders wait beyond the horizon? What treasures will explorers bring back to amaze us? *MMOs from the Inside Out* is for people with a spark of

creativity: it pours gasoline on that spark. It: Explains what MMOs are, what they once were, and what they could – and should – become. Delves into why players play, and why designers design. Encourages, enthuses, enrages, engages, enlightens, envisions, and enchants. Doesn't tell you what to think, it tells you to think. What You Will Learn: Myriad ways to improve MMOs – and to decide for yourself whether these are improvements. What MMOs are; who plays them, and why. How MMOs became what they are, and what this means for what they will become. That you have it in you to make MMOs yourself. Whom This Book is For: MMOs from the Inside Out is a book for those who wish to know more about game design in general and MMO design in particular. It's for people who play MMOs, for people who design MMOs, and for people who study MMOs. It's for people with a yearning to see beyond the world around them and to make manifest the worlds of their imagination.

Making Multiplayer Online Games Stephen Gose, 2016-11-07 This book includes game design and implementation chapters using either Phaser JavaScript Gaming Frameworks v2.6.2, CE, v3.16+, AND any other JS Gaming Frameworks for the front- and back-end development. It is a Book of 5 Rings Game Design - HTML5, CSS, JavaScript, PHP, and SQL. It further analyzes several freely available back-end servers and supporting middleware (such as PHP, Python, and several CMS). This game design workbook takes you step-by-step into the creation of Massively Multiplayer Online Game as a profitable business adventure - none of this theoretical, local workstation proof of concept! It uses any popular JavaScript Gaming Framework -- not just limited to Phaser.JS!! -- on the client-side browser interfacing into a unique, server-side, application using WebSockets. It is the only book of its kind since January 2017 for the Phaser MMO

Gaming Framework! * Part I leads you through the world of networks, business consideration, MMoG analysis and setting up your studio workshop. I have 40 years of networking career experience in highly sensitive (i.e., Government Embassies) data communications. I am a certified Cisco Academy Instructor and have taught networking, networking security, game design/development, and software engineering for the past 14 years at the college level. * Part II Guides you into Multi-player Online Game architecture contrasted to normal single-player games. This lays the foundation for Multi-Player Game Prototypes and reviews a missing aspect in current MMoG development not seen in many online tutorials and example code. * Part III contains 3 chapters focused on production and development for the client-side code, client-proxy, server-side code, and MMoG app. This content sets the foundation for what many Phaser tutorials and Phaser Starter-Kits on the market today overlook and never tell you! Upon completion of Part III, you will have your bespoke MMoG with integrated micro-service, and if you choose, web workers and block-chain. * Part IV (Bonus Content) This section includes proprietary Game Rule Books and EULA source code included as a part of your book purchase. It features four (4) Game Recipes -- step-by-step instructions -- listed by complexity 1 = easiest (elementary skills) to 4 = most complex (requiring advanced skills across several IT technology disciplines). Each external "Walk-Through Tutorial" guides you in different aspects of MMoG development. * How to migrate single-player games into a 2-player online delivery mode (not using hot-seat)! * How to use dynamic client-side proxy servers and migrate this game from its current single-player mode (with AI Bot) into an online 2-player mode (not using hot-seat)! * How to include Asynchronous Availability during gameplay and

migrate this gameplay mode (with AI Bot) into an online Asynchronous Availability 3-player mode using postal mail or email game turns! The FREE game rule book will help deconstruct this game mechanics.

Multiplayer Online Games Guo Freeman, 2018-02-12
Multiplayer Online Games (MOGs) have become a new genre of play culture, integrating communication and entertainment in a playful, computer-mediated environment that evolves through user interaction. This book comprehensively reviews the origins, players, and social dynamics of MOGs, as well as six major empirical research methods used in previous works to study MOGs (i.e., observation/ethnography, survey/interviews, content and discourse analysis, experiments, network analysis, and case studies). It concludes that MOGs represent a highly sophisticated, networked, multimedia and multimodal Internet technology, which can construct entertaining, simultaneous, persistent social virtual worlds for gamers. Overall, the book shows that what we can learn from MOGs is how games and gaming, as ubiquitous activities, fit into ordinary life in today's information society, in the moments where the increased use of media as entertainment, the widespread application of networked information technologies, and participation in new social experiences intersect. Key Features: Contains pertinent knowledge about online gaming: its history, technical features, player characteristics, social dynamics, and research methods Sheds light on the potential future of online gaming, and how this would impact every aspect of our everyday lives – socially, culturally, technologically, and economically Asks promising questions based on cutting-edge research in the field of online game design and development

Massively Multiplayer Online Role-Playing Games R.V. Kelly 2, 2014-11-04 This book is about the fastest growing

form of electronic game in the world—the Massively Multiplayer Online Role Playing Game (MMORPG). The evolution of these self-contained three-dimensional virtual worlds, often inhabited by thousands of players, is described here. This work also delves into the psychology of the people who inhabit the game universe and explores the development of the unique cultures, economies, moral codes, and slang in these virtual communities. It explains how the games are built, the spin-offs that players create to enhance their game lives, and peeks at the future of MMORPGs as they evolve from a form of amusement to an educational, scientific, and business tool. Based on hundreds of interviews over a three-year period, the work explores reasons people are attracted to and addicted to these games. It also surveys many existing and upcoming games, identifying their unique features and attractions. Two appendices list online addiction organizations and MMORPG information sites.

Networking and Online Games Grenville Armitage, Mark Claypool, Philip Branch, 2006-08-04 The computer game industry is clearly growing in the direction of multiplayer, online games. Understanding the demands of games on IP (Internet Protocol) networks is essential for ISP (Internet Service Provider) engineers to develop appropriate IP services. Correspondingly, knowledge of the underlying network's capabilities is vital for game developers. *Networking and Online Games* concisely draws together and illustrates the overlapping and interacting technical concerns of these sectors. The text explains the principles behind modern multiplayer communication systems and the techniques underlying contemporary networked games. The traffic patterns that modern games impose on networks, and how network performance and service level limitations impact on game designers and player experiences, are

covered in-depth, giving the reader the knowledge necessary to develop better gaming products and network services. Examples of real-world multiplayer online games illustrate the theory throughout. **Networking and Online Games:** Provides a comprehensive, cutting-edge guide to the development and service provision needs of online, networked games. Contrasts the considerations of ISPs (e.g. predicting traffic loads) with those of game developers (e.g. sources of lag/jitter), clarifying coinciding requirements. Explains how different technologies such as cable, ADSL (Asymmetric Digital Subscriber Line) and wireless, etc., affect online game-play experience, and how different game styles impose varying traffic dynamics and requirements on the network. Discusses future directions brought by emerging technologies such as UMTS (Universal Mobile Telephone Service), GPRS (General Packet Radio Service), Wireless LANs, IP service Quality, and NAPT/NAT (Network Address Port Translation/Network Address Translation). Illustrates the concepts using high-level examples of existing multiplayer online games (such as Quake III Arena, Wolfenstein Enemy Territory, and Half-Life 2). **Networking and Online Games** will be an invaluable resource for games developers, engineers and technicians at Internet Service Providers, as well as advanced undergraduate and graduate students in Electrical Engineering, Computer Science and Multimedia Engineering.

Play Between Worlds T. L. Taylor, 2009-02-13 A study of Everquest that provides a snapshot of multiplayer gaming culture, questions the truism that computer games are isolating and alienating, and offers insights into broader issues of work and play, gender identity, technology, and commercial culture. In Play Between Worlds, T. L. Taylor examines multiplayer gaming life as it is lived on the borders, in the gaps—as players slip in and out of complex

social networks that cross online and offline space. Taylor questions the common assumption that playing computer games is an isolating and alienating activity indulged in by solitary teenage boys. Massively multiplayer online games (MMOGs), in which thousands of players participate in a virtual game world in real time, are in fact actively designed for sociability. Games like the popular Everquest, she argues, are fundamentally social spaces. Taylor's detailed look at Everquest offers a snapshot of multiplayer culture. Drawing on her own experience as an Everquest player (as a female Gnome Necromancer)—including her attendance at an Everquest Fan Faire, with its blurring of online—and offline life—and extensive research, Taylor not only shows us something about games but raises broader cultural issues. She considers power gamers, who play in ways that seem closer to work, and examines our underlying notions of what constitutes play—and why play sometimes feels like work and may even be painful, repetitive, and boring. She looks at the women who play Everquest and finds they don't fit the narrow stereotype of women gamers, which may cast into doubt our standardized and preconceived ideas of femininity. And she explores the questions of who owns game space—what happens when emergent player culture confronts the major corporation behind the game.

MMOs from the Outside In Richard A. Bartle, 2015-12-30
This follow-up volume to *MMOs from the Inside Out* is a further collection of bold ideas, information, and instruction from one of the true pioneers of Massively-Multiplayer Online Role-Playing Games. Whereas its predecessor looked at how MMOs can change the world, *MMOs from the Outside In: How Psychology, Law, Culture and Real Life see Massively-Multiplayer Role-playing Games* looks at how the world can change MMOs – and not always for the better. The aim of this book is to inform an up-coming generation

of designers, to alert and educate players and designers-to-be, and to caution those already working in the field who might be growing complacent about society's acceptance of their chosen career. Playing and creating MMOs does not happen in a bubble. MMOs are so packed with potential that those who don't understand them can be afraid, and those who do understand them can neglect their wider impact. Today's examples are little more than small, pioneering colonies on the shore of a vast, uncharted continent. What monsters lurk beyond the horizon? What horrors will explorers bring back to torment us? MMOs from the Outside In is for people with a spark of curiosity: it pours gasoline on that spark. It: • Explains how MMOs are perceived, how they could – and perhaps should – be perceived, and how they can contribute to wider society. • Delves into what researchers think about why players play. • Encourages, enthuses, enrages, engages, enlightens, envisions, and enchants. • Doesn't tell you what to think, it tells you to think. What You Will Learn: • The myriad challenges facing MMOs – and to decide for yourself how to address these challenges. • What MMOs bring to the world that it didn't have before. • How MMOs are regarded, and what this means for how they will be regarded in future. • That playing and designing MMOs has implications for those who don't play or design them. Whom This Book is For: MMOs from the Outside In is a book for those who wish to know more about the wider influence of game design in general and MMO design in particular. It's for people who play MMOs, for people who design MMOs, and for people who study MMOs. It's for people with a yearning to see beyond the worlds of their imagination and to change the world around them.

New Perspectives on the Social Aspects of Digital Gaming Rachel Kowert, Thorsten Quandt, 2017-02-10
Expanding on the work in the volume *Multiplayer*, this new

book explores several other areas related to social gaming in detail. The aim is to go beyond a typical edited book concept, and offer a very concise volume with several focal points that are most relevant for the current debate about multiplayer games, both in academia and society. As a result, the volume offers the latest research findings on online gaming, social forms of gaming, identification, gender issues and games for change, primarily applying a social-scientific approach.

Unity Multiplayer Games Alan Stagner, 2013-11 An easy-to-follow, tutorial manner that uses the learning-by-example approach. If you are a developer who wants to start making multiplayer games with the Unity game engine, this book is for you. This book assumes you have some basic experience with programming. No prior knowledge of the Unity IDE is required.

ActionScript for Multiplayer Games and Virtual Worlds Jobe Makar, 2009-09-22 The demand for multiplayer games and virtual worlds has exploded over the last few years. Not only do companies want them for site stickiness through social networking, but developers have tremendous interest in exploring this niche area. While developing multiplayer content is challenging, it isn't as difficult as you might think, and it is fun and highly rewarding! ActionScript for Multiplayer Games and Virtual Worlds explains fundamental multiplayer concepts from connecting to a server to real-time latency hiding techniques. In this book you'll learn: How to connect users to achieve real-time interaction When to make decisions on the server versus the game client Time synchronization techniques How to use dead reckoning smoothing to hide network latency About tile-based games the isometric view Techniques for customizing and rendering avatars in a virtual world In addition, you'll learn everything that goes into building: A

real-time multiplayer tank battle game A real-time
multilayer cooperative game A virtual world

Massively Multiplayer Games For Dummies Scott Jennings, 2005-11-23 Intrigued by MMGs? Here's the place to start Compare games, create a character, choose a guild to join, and have some fun! So your friend keeps talking about playing this cool game with millions of people on the Internet, and you really want to join in? Great idea! This book will let you in on the lingo, provide a little background on MMGs, help you choose a character, and prepare you for a trip into the fantasy world. Discover how to * Choose a game you'll enjoy * Start developing a character * Survive player vs. player combat * Find useful gameplay guides * Slay more monsters * Team up with other players

Multiplayer Thorsten Quandt, Sonja Kröger, 2013-10-30 In the past decade, digital games have become a widely accepted form of media entertainment, moving from the traditional 'core gamer' community into the mainstream media market. With millions of people now enjoying gaming as interactive entertainment there has been a huge increase in interest in social multiplayer gaming activities. However, despite the explosive growth in the field over the past decade, many aspects of social gaming still remain unexplored, especially from a media and communication studies perspective. **Multiplayer: Social Aspects of Digital Gaming** is the first edited volume of its kind that takes a closer look at the various forms of human interaction in and around digital games, providing an overview of debates, past and present. The book is divided into five sections that explore the following areas: Social Aspects of Digital Gaming Social Interactions in Virtual Worlds Online Gaming Co-located and Console Gaming Risks and Challenges of Social Gaming This engaging interdisciplinary book will appeal to upper level students, postgrads and researchers

in games research, specifically those focusing on new media and digital games, as well as researchers in media studies and mass communication.

The Essential Guide to Creating Multiplayer Games with Godot 4.0 Henrique Campos, 2023-12-22 Level up your Godot 4 networking skills with this comprehensive guide featuring dedicated servers and persistent worlds, illustrated with key images in color Key Features Ensure player synchronization and coexistence in a game world Mitigate latency in your multiplayer games to design a seamless shared experience Optimize and debug your games using profilers and monitors to visualize performance Purchase of the print or Kindle book includes a free PDF eBook Book Description *The Essential Guide to Creating Multiplayer Games with Godot 4.0* guides you in exploring the built-in network API for online multiplayer games, offering practical knowledge through concrete use cases. Throughout the book, you'll assume the role of a network engineer in a fictional indie game studio, tackling real-world requests from your peers and gaining expertise in adding new network features to the studio's games. Following step-by-step instructions, you'll go from making your first network handshake to optimizing online gameplay. You'll learn how to sync players and pass data over the internet as you add online multiplayer features to a top-down shooter adventure game. This book puts you in a fictional game project team where you set up your first online server before advancing to creating an online chat system and transitioning local gameplay to go online. With a focus on implementing multiplayer features, you'll create shared world adventures and learn optimization techniques to allow more players to join your virtual world. By the end of this book, you'll have learned how to set up a client-server network, implement remote procedure calls (RPCs),

sync node properties remotely, and optimize your games to create smooth online multiplayer experiences. What you will learn Understand the fundamentals of networking and remote data exchange between computers Use the Godot game engine's built-in API to set up a network for players Master remote procedure calls and learn how to make function calls on objects remotely Enhance your GDScript proficiency to get the most out of this powerful language Explore industry-standard solutions for common online multiplayer challenges Improve your networking skills and discover how to turn single-player games into multiplayer experiences Who this book is for If you're involved in game development with Godot and want to add multiplayer capabilities to enrich the shared gaming experience, then this book is for you. You'll also find this book useful if you're a network engineer looking to gain hands-on experience with practical projects. To get the most out of this book, a prior understanding of the Godot Engine design philosophy, the GDScript programming language, the SceneTree structure, and how nodes work is essential.

Communities of Play Celia Pearce, 2011-09-30 The odyssey of a group of "refugees" from a closed-down online game and an exploration of emergent fan cultures in virtual worlds. Play communities existed long before massively multiplayer online games; they have ranged from bridge clubs to sports leagues, from tabletop role-playing games to Civil War reenactments. With the emergence of digital networks, however, new varieties of adult play communities have appeared, most notably within online games and virtual worlds. Players in these networked worlds sometimes develop a sense of community that transcends the game itself. In *Communities of Play*, game researcher and designer Celia Pearce explores emergent fan cultures in networked digital worlds—actions by players that do not

coincide with the intentions of the game's designers. Pearce looks in particular at the Uru Diaspora—a group of players whose game, *Uru: Ages Beyond Myst*, closed. These players (primarily baby boomers) immigrated into other worlds, self-identifying as “refugees”; relocated in *There.com*, they created a hybrid culture integrating aspects of their old world. Ostracized at first, they became community leaders. Pearce analyzes the properties of virtual worlds and looks at the ways design affects emergent behavior. She discusses the methodologies for studying online games, including a personal account of the sometimes messy process of ethnography. Pearce considers the “play turn” in culture and the advent of a participatory global playground enabled by networked digital games every bit as communal as the global village Marshall McLuhan saw united by television. Countering the ludological definition of play as unproductive and pointing to the long history of pre-digital play practices, Pearce argues that play can be a prelude to creativity.

The Multiplayer Classroom Lee Sheldon, 2020-03-09

Go beyond gamification's badges and leaderboards with the new edition of the book, first published in 2011, that helped transform education. Going far beyond the first edition of *The Multiplayer Classroom*, forthrightly examining what worked and what didn't over years of development, here are the tools to design any structured learning experience as a game to engage your students, raise their grades, and ensure their attendance. Suitable for use in the classroom or the boardroom, this book features a reader-friendly style that introduces game concepts and vocabulary in a logical way. Also included are case studies, both past and present, from others teaching in their own multiplayer classrooms around the world. You don't need any experience making games or even playing games to use this book. You don't even need a computer. Yet, you will join many hundreds of

educators who have learned how to create multiplayer games for any age on any subject. Lee Sheldon began his writing career in television as a writer-producer, eventually writing more than 200 shows ranging from Charlie's Angels (writer) to Edge of Night (head writer) to Star Trek: The Next Generation (writer-producer). Having written and designed more than 40 commercial and applied video games, Lee spearheaded the first full writing for games concentration in North America at Rensselaer Polytechnic Institute and the second writing concentration at Worcester Polytechnic Institute, where he is now a professor of practice. Lee is a regular lecturer and consultant on game design and writing in the United States and abroad. His most recent commercial game, the award-winning The Lion's Song, is currently on Steam.

Developing Online Games Jessica Mulligan, Bridgette Patrovsky, 2003 A soup-to-nuts overview of just what it takes to successfully design, develop and manage an online game. Learn from the top two online game developers through the real-world successes and mistakes not known to others. There are Case studies from 10+ industry leaders, including Raph Koster, J. Baron, R. Bartle, D. Schubert, A. Macris, and more! Covers all types of online games: Retail Hybrids, Persistent Worlds, and console games. Developing Online Games provides insight into designing, developing and managing online games that is available nowhere else. Online game programming guru Jessica Mulligan and seasoned exec Bridgette Patrovsky provide insights into the industry that will allow others entering this market to avoid the mistakes of the past. In addition to their own experiences, the authors provide interviews, insight and anecdotes from over twenty of the most well-known and experienced online game insiders. The book includes case studies of the successes and failures of

today's most well-known online games. There is also a special section for senior executives on how to budget an online game and how to assemble the right development and management teams. The book ends with a look at the future of online gaming: not only online console gaming (Xbox Online, Playstation 2), but the emerging mobile device game market (cell phones, wireless, PDA).

Flash Multiplayer Virtual Worlds Makzan, 2010-08-16
Build immersive, full-featured interactive worlds for games, online communities, and more.

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Online Multiplayer Introduction

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