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## Chapter 10

# Electronic Games and Entertainment

### Want to Get Away?

Video games have come a long way from using a simple joystick to guide Pac-Man on his mission to find food and avoid ghosts. This is illustrated by a 2007 Southwest Airlines commercial in which two friends are playing a baseball video game on a Nintendo Wii-like console. The batting friend tells the other to throw his pitch—and he does, excitedly firing his controller into the middle of the plasma television, which then falls off the wall. Both friends stare in shock at the shattered flat screen as the narrator asks, “Want to get away?”

Figure 10.1



Such a scene is unlikely to have taken place in the early days of video games when Atari reigned supreme and the action of playing solely centered on hand-eye coordination. The learning curve was relatively nonexistent; players maneuvered a joystick to shoot lines of aliens in the sky, or they turned the wheel on a paddle to play a virtual game of table tennis.

But as video games became increasingly popular, they also became increasingly complex. Consoles upgraded and evolved on a regular basis, and the games kept up. Players called each other with loopholes and tips on how to get Mario and Luigi onto the next level, and now they exchange their tricks on gaming blogs. Games like *The Legend of Zelda* and *Final Fantasy* created alternate worlds and intricate story lines, providing multiple-hour epic adventures.

Long criticized for taking kids out of the backyard and into a sedentary spot in front of the television, many video games have circled back to their simpler origins and, in doing so, have made players more active. Casual gamers who could quickly figure out how to put together puzzle pieces in *Tetris* can now just as easily figure out how to “swing” a tennis racket with a Wiimote. Video games are no longer a convenient scapegoat for America’s obesity problems; *Wii Fit* offers everything from yoga to boxing, and *Dance Dance Revolution* estimates calories burned while players dance.

The logistics of video games continue to change, and as they do, gaming has begun to intersect with every other part of culture. Players can learn how to “perform” their favorite songs with *Guitar Hero* and *Rock Band*. Product placement akin to what is seen in movies and on television is equally prevalent in video games such as the popular *Forza Motorsport* or *FIFA* series. As the Internet allows for players across the world to participate simultaneously, video games have the potential to one day look like competitive reality shows. Michael Dolan, “The Video Game Revolution: The Future of Video Gaming,” *PBS*, <http://www.pbs.org/kcts/videogamerevolution/impact/future.html>. Arguably, video games even hold a place in the art world, with the increasing complexity of animation and story lines. Jona Tres Kap, “The Video Game Revolution: But is it Art?” *PBS*, <http://www.pbs.org/kcts/videogamerevolution/impact/art.html>.

And now, with endless possibilities for the future, video games are attracting new and different demographics. Avid players who grew up with video games may be the first ones to purchase 3-D televisions for the 3-D games of the future. M. H. Williams, “Study Shows Casual and Core Gamers Are Ready for 3-D Gaming,” *Industry Gamers*, June 15, 2010, <http://www.industrygamers.com/news/study-shows-casual-and-core-gamers-are-ready-for-3d-gaming/>. But casual players, perhaps of an older demographic, will be drawn to the simplicity of a game like *Wii Bowling*. Video games have become more accessible than ever. Social media websites like Facebook offer free video game applications, and smartphone users can download apps for as little as a dollar, literally putting video games in one’s back pocket. Who needs a cumbersome Scrabble board when it’s available on a touch screen anytime, anywhere?

Video games have become ubiquitous in modern culture. Understanding them as a medium allows a fuller understanding of their implications in the realms of entertainment, information, and communication. Studying their history reveals new perspectives on the ways video games have affected mainstream culture.

## 10.1 The Evolution of Electronic Games

### LEARNING OBJECTIVES

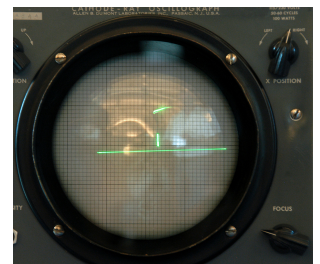
1. Identify the major companies involved in video game production.
2. Explain the important innovations that drove the acceptance of video games by mainstream culture.
3. Determine major technological developments that influenced the evolution of video games.

*Pong*, the electronic table-tennis simulation game, was the first video game for many people who grew up in the 1970s and is now a famous symbol of early video games. However, the precursors to modern video games were created as early as the 1950s. In 1952 a computer simulation of tic-tac-toe was developed for EDSAC, one of the first stored-information computers, and in 1958 a game called *Tennis for Two* was developed at Brookhaven National Laboratory as a way to entertain people coming through the laboratory on tours. Simon Egenfeldt-Nielsen, *Understanding Video Games: The Essential Introduction* (New York: Taylor & Francis, 2008), 50.

These games would generate little interest among the modern game-playing public, but at the time they enthralled their users and introduced the basic elements of the cultural video game experience. In a time before personal computers, these games allowed the general public to access technology that had been restricted to the realm of abstract science. *Tennis for Two* created an interface where anyone with basic motor skills could use a complex machine. The first video games functioned early on as a form of media by essentially disseminating the experience of computer technology to those who did not have access to it.

As video games evolved, their role as a form of media grew as well. Video games have grown from simple tools that made computing technology understandable to forms of media that can communicate cultural values and human relationships.

Figure 10.2



*Tennis for Two* was a rudimentary game designed to entertain visitors to the Brookhaven National Laboratory.

## The 1970s: The Rise of the Video Game

The 1970s saw the rise of video games as a cultural phenomenon. A 1972 article in *Rolling Stone* describes the early days of computer gaming:

Reliably, at any nighttime moment (i.e. non-business hours) in North America hundreds of computer technicians are effectively out of their bodies, locked in life-or-death space combat computer-projected onto cathode ray tube display screens, for hours at a time, ruining their eyes, numbing their fingers in frenzied mashing of control buttons, joyously slaying their friend and wasting their employers' valuable computer time. Something basic is going on. Stewart Brand, "Space War," *Rolling Stone*, December 7, 1972.

This scene was describing *Spacewar!*, a game developed in the 1960s at the Massachusetts Institute of Technology (MIT) that spread to other college campuses and computing centers. In the early 1970s, very few people owned computers. Most computer users worked or studied at university, business, or government facilities. Those with access to computers were quick to utilize them for gaming purposes.

### Arcade Games

The first coin-operated **arcade game**<sup>1</sup> was modeled on *Spacewar!* It was called *Computer Space*, and it fared poorly among the general public because of its difficult controls. In 1972, *Pong*, the table-tennis simulator that has come to symbolize early computer games, was created by the fledgling company **Atari**<sup>2</sup>, and it was immediately successful. *Pong* was initially placed in bars with pinball machines and other games of chance, but as video games grew in popularity, they were placed in any establishment that would take them. By the end of the 1970s, so many video arcades were being built that some towns passed zoning laws limiting them. Steven Kent, "Super Mario Nation," *American Heritage*, September 1997, [http://www.americanheritage.com/articles/magazine/ah/1997/5/1997\\_5\\_65.shtml](http://www.americanheritage.com/articles/magazine/ah/1997/5/1997_5_65.shtml).

The end of the 1970s ushered in a new era—what some call the golden age of video games—with the game *Space Invaders*, an international phenomenon that exceeded all expectations. In Japan, the game was so popular that it caused a national coin shortage. Games like *Space Invaders* illustrate both the effect of arcade games and their influence on international culture. In two different countries on opposite sides of the globe, Japanese and American teenagers, although they could not speak to one another, were having the same experiences thanks to a video game.

1. A coin-operated video game placed in public establishments.
2. The video game company that was responsible for the arcade game *Pong* and that led the home console market in the 1970s and 1980s.

## Video Game Consoles

The first video game **console**<sup>3</sup> for the home began selling in 1972. It was the Magnavox Odyssey, and it was based on prototypes built by Ralph Behr in the late 1960s. This system included a *Pong*-type game, and when the arcade version of *Pong* became popular, the Odyssey began to sell well. Atari, which was making arcade games at the time, decided to produce a home version of *Pong* and released it in 1974. Although this system could only play one game, its graphics and controls were superior to the Odyssey, and it was sold through a major department store, Sears. Because of these advantages, the Atari home version of *Pong* sold well, and a host of other companies began producing and selling their own versions of *Pong*. Leonard Herman, “Early Home Video Game Systems,” in *The Video Game Explosion: From Pong to PlayStation and Beyond*, ed. Mark Wolf (Westport, CT: Greenwood Press, 2008), 54.

A major step forward in the evolution of video games was the development of **game cartridges**<sup>4</sup> that stored the games and could be interchanged in the console. With this technology, users were no longer limited to a set number of games, leading many video game console makers to switch their emphasis to producing games. Several groups, such as Magnavox, Coleco, and Fairchild, released versions of cartridge-type consoles, but Atari’s 2600 console had the upper hand because of the company’s work on arcade games. Atari capitalized off of its arcade successes by releasing games that were well known to a public that was frequenting arcades. The popularity of games such as *Space Invaders* and *Pac-Man* made the Atari 2600 a successful system. The late 1970s also saw the birth of companies such as Activision, which developed third-party games for the Atari 2600. Mark J. P. Wolf, “Arcade Games of the 1970s,” in *The Video Game Explosion* (see note 7), 41.

## Home Computers

The birth of the home computer market in the 1970s paralleled the emergence of video game consoles. The first computer designed and sold for the home consumer was the Altair. It was first sold in 1975, several years after video game consoles had been selling, and it sold mainly to a hobbyist market. During this period, people such as Steve Jobs, the founder of Apple, were building computers by hand and selling them to get their start-up businesses going. In 1977, three important computers—Radio Shack’s TRS-80, the Commodore PET, and the Apple II—were produced and began selling to the home market. Jeremy Reimer, “Total share: 30 years of personal computer market share figures,” *Ars Technica* (blog), December 14, 2005, <http://arstechnica.com/old/content/2005/12/total-share.ars/2>.

The rise of personal computers allowed for the development of more complex games. Designers of games such as *Mystery House*, developed in 1979 for the Apple II, and *Rogue*, developed in 1980 and played on IBM PCs, used the processing power of

3. A video game system designed to be attached to a television to simulate arcade video games.

4. Interchangeable cartridges containing video games for use in home consoles.

early home computers to develop video games that had extended plots and story lines. In these games, players moved through landscapes composed of basic graphics, solving problems and working through an involved narrative. The development of video games for the personal computer platform expanded the ability of video games to act as media by allowing complex stories to be told and new forms of interaction to take place between players.

### The 1980s: The Crash

Atari's success in the home console market was due in large part to its ownership of already-popular arcade games and the large number of game cartridges available for the system. These strengths, however, eventually proved detrimental to the company and led to what is now known as the **video game crash of 1983**<sup>5</sup>. Atari bet heavily on its past successes with popular arcade games by releasing *Pac-Man* for the Atari 2600. *Pac-Man* was a successful arcade game that did not translate well to the home console, leading to disappointed consumers and lower-than-expected sales. Additionally, Atari produced 10 million of the lackluster *Pac-Man* games on its first run, despite the fact that active consoles were only estimated at 10 million. Similar mistakes were made with a game based on the movie *E.T.: The Extra-Terrestrial*, which has gained notoriety as one of the worst games in Atari's history. It was not received well by consumers despite the success of the movie, and Atari had again bet heavily on its success. Piles of unsold *E.T.* game cartridges were reportedly buried in the New Mexico desert under a veil of secrecy. Nick Montfort and Ian Bogost, *Racing the Beam: The Atari Video Computer System* (Cambridge, MA: MIT Press, 2009), 127.

As retail outlets became increasingly wary of home console failures, they began stocking fewer games on shelves. This action, combined with an increasing number of companies producing games, led to overproduction and a resulting fallout in the video game market in 1983. Many smaller game developers did not have the capacity to withstand this downturn and went out of business. Although Coleco and Atari were able to make it through the crash, neither company regained its former share of the video game market. It was 1985 when the video game market picked up again. Steven Kent, "Super Mario Nation," *American Heritage*, September 1997, [http://www.americanheritage.com/articles/magazine/ah/1997/5/1997\\_5\\_65.shtml](http://www.americanheritage.com/articles/magazine/ah/1997/5/1997_5_65.shtml).

### The Rise of Nintendo

Nintendo, a Japanese card and novelty producer that had begun to produce electronic games in the 1970s, was responsible for arcade games such as *Donkey Kong* in the early 1980s. Its first home console, developed in 1984 for sale in Japan, tried to succeed where Atari had failed. The Nintendo system used newer, better

5. The economic failure of the video game industry in 1983, caused by an oversupply of games and waning demand.

microchips, bought in large quantities, to ensure high-quality graphics at a price consumers could afford. Keeping console prices low meant Nintendo had to rely on games for most of its profits and maintain control of game production. This was something Atari had failed to do, and it led to a glut of low-priced games that caused the crash of 1983. Nintendo got around this problem with proprietary circuits that would not allow unlicensed games to be played on the console. This allowed Nintendo to dominate the home video game market through the end of the decade, when one-third of homes in the United States had a Nintendo system. Gary Cross and Gregory Smits, "Japan, the U.S. and the Globalization of Children's Consumer Culture," *Journal of Social History* 38, no. 4 (2005).

Nintendo introduced its Nintendo Entertainment System (NES) in the United States in 1985. The game *Super Mario Brothers*, released with the system, was also a landmark in video game development. The game employed a narrative in the same manner as more complicated computer games, but its controls were accessible and its objectives simple. The game appealed to a younger demographic, generally boys in the 8–14 range, than the one targeted by Atari. Stephen Kline, Nick Dyer-Witheford, and Greig De Peuter, *Digital Play: The Interaction of Technology, Culture, and Marketing* (Montreal: McGill-Queen's University Press, 2003), 119. Its designer, Shigeru Miyamoto, tried to mimic the experiences of childhood adventures, creating a fantasy world not based on previous models of science fiction or other literary genres. Rus McLaughlin, "IGN Presents the History of Super Mario Bros.," *IGN Retro*, November 8, 2007, <http://games.ign.com/articles/833/833615p1.html>. *Super Mario Brothers* also gave Nintendo an iconic character who has been used in numerous other games, television shows, and even a movie. The development of this type of character and fantasy world became the norm for video game makers. Games such as *The Legend of Zelda* became franchises with film and television possibilities rather than simply one-off games.

As video games developed as a form of media, the public struggled to come to grips with the kind of messages this medium was passing on to children. These were no longer simple games of reflex that could be compared to similar non-video games or sports; these were forms of media that included stories and messages that concerned parents and children's advocates. Arguments about the larger meaning of the games became common, with some seeing the games as driven by ideas of conquest and gender stereotypes, whereas others saw basic stories about traveling and exploration. Mary Fuller and Henry Jenkins, "Nintendo and New World Travel Writing: A Dialogue," *Cybersociety: Computer-Mediated Communication and Community*, ed. Steven G. Jones (Thousand Oaks, CA: Sage Publications, 1995), 57–72.



### Other Home Console Systems

Other software companies were still interested in the home console market in the mid-1980s. Atari released the 2600jr and the 7800 in 1986 after Nintendo's success, but the consoles could not compete with Nintendo. The Sega Corporation, which had been involved with arcade video game production, released its Sega Master System in 1986. Although the system had more graphics possibilities than the NES, Sega failed to make a dent in Nintendo's market share until the early 1990s, with the release of Sega Genesis. Aphra Kerr, "Spilling Hot Coffee? Grand Theft Auto as Contested Cultural Product," in *The Meaning and Culture of Grand Theft Auto: Critical Essays*, ed. Nate Garrelts (Jefferson, NC: McFarland, 2005), 17.

### Computer Games Flourish and Innovate

The enormous number of games available for Atari consoles in the early 1980s took its toll on video arcades. In 1983, arcade revenues had fallen to a 3-year low, leading game makers to turn to newer technologies that could not be replicated by home consoles. This included arcade games powered by laser discs, such as *Dragon's Lair* and *Space Ace*, but their novelty soon wore off, and laser-disc games became museum pieces. Aljean Harmetz, "Video Arcades Turn to Laser Technology as Queues Dwindle," *Morning Herald* (Sydney), February 2, 1984. In 1989, museums were already putting on exhibitions of early arcade games that included ones from the early 1980s. Although newer games continued to come out on arcade platforms, they could not compete with the home console market and never achieved their previous successes from the early 1980s. Increasingly, arcade gamers chose to stay at home to play games on computers and consoles. Today, dedicated arcades are a dying breed. Most that remain, like the Dave & Buster's and Chuck E. Cheese's chains, offer full-service restaurants and other entertainment attractions to draw in business.

Home games fared better than arcades because they could ride the wave of personal computer purchases that occurred in the 1980s. Some important developments in video games occurred in the mid-1980s with the development of online games. Multiuser dungeons, or MUDs, were role-playing games played online by multiple users at once. The games were generally text-based, describing the world of the MUD through text rather than illustrating it through graphics. The games allowed users to create a character and move through different worlds, accomplishing goals that awarded them with new skills. If characters attained a certain level of proficiency, they could then design their own area of the world. *Habitat*, a game developed in 1986 for the Commodore 64, was a graphic version of this type of game. Users dialed up on modems to a central host server and then controlled characters on screen, interacting with other users. Jeremy Reimer, "The Evolution

of Gaming: Computers, Consoles, and Arcade,” *Ars Technica* (blog), October 10, 2005, <http://arstechnica.com/old/content/2005/10/gaming-evolution.ars/4>.

During the mid-1980s, a demographic shift occurred. Between 1985 and 1987, games designed to run on business computers rose from 15 percent to 40 percent of games sold. Philip Elmer-Dewitt and others, “Computers: Games that Grownups Play,” *Time*, July 27, 1987, <http://www.time.com/time/magazine/article/0,9171,965090,00.html>. This trend meant that game makers could use the increased processing power of business computers to create more complex games. It also meant adults were interested in computer games and could become a profitable market.

### **The 1990s: The Rapid Evolution of Video Games**

Video games evolved at a rapid rate throughout the 1990s, moving from the first 16-bit systems (named for the amount of data they could process and store) in the early '90s to the first Internet-enabled home console in 1999. As companies focused on new marketing strategies, wider audiences were targeted, and video games' influence on culture began to be felt.

#### **Console Wars**

Nintendo's dominance of the home console market throughout the late 1980s allowed it to build a large library of games for use on the NES. This also proved to be a weakness, however, because Nintendo was reluctant to improve or change its system for fear of making its game library obsolete. Technology had changed in the years since the introduction of the NES, and companies such as NEC and Sega were ready to challenge Nintendo with 16-bit systems. Andy Slaven, *Video Game Bible, 1985-2002*, (Victoria, BC: Trafford), 70-71.

The Sega Master System had failed to challenge the NES, but with the release of its 16-bit system, Sega Genesis, the company pursued a new marketing strategy. Whereas Nintendo targeted 8- to 14-year-olds, Sega's marketing plan targeted 15- to 17-year olds, making games that were more mature and advertising during programs such as the MTV Video Music Awards. The campaign successfully branded Sega as a cooler version of Nintendo and moved mainstream video games into a more mature arena. Nintendo responded to the Sega Genesis with its own 16-bit system, the Super NES, and began creating more mature games as well. Games such as Sega's *Mortal Kombat* and Nintendo's *Street Fighter* competed to raise the level of violence possible in a video game. Sega's advertisements even suggested that its game was better because of its more violent possibilities. Gamespot, "When Two Tribes Go to War: A History of Video Game Controversy," <http://www.gamespot.com/features/6090892/p-5.html>.

Figure 10.3



Sega's commercials suggested that it was a more violent version of Nintendo.

By 1994, companies such as 3DO, with its 32-bit system, and Atari, with its allegedly 64-bit Jaguar, attempted to get in on the home console market but failed to use effective marketing strategies to back up their products. Both systems fell out of production before the end of the decade. Sega, fearing that its system would become obsolete, released the 32-bit Saturn system in 1995. The system was rushed into production and did not have enough games available to ensure its success. [CyberiaPC.com](http://www.cyberiapc.com/vgg/sega_saturn.htm), "Sega Saturn (History, Specs, Pictures)," [http://www.cyberiapc.com/vgg/sega\\_saturn.htm](http://www.cyberiapc.com/vgg/sega_saturn.htm). Sony stepped in with its PlayStation console at a time when Sega's Saturn was floundering and before Nintendo's 64-bit system had been released. This system targeted an even older demographic of 14- to 24-year-olds and made a large effect on the market; by March of 2007, Sony had sold 102 million PlayStations. Edge staff, "The Making Of: Playstation," *Edge*, April 24, 2009, <http://www.next-gen.biz/features/the-making-of-playstation>.

### Computer Games Gain Mainstream Acceptance

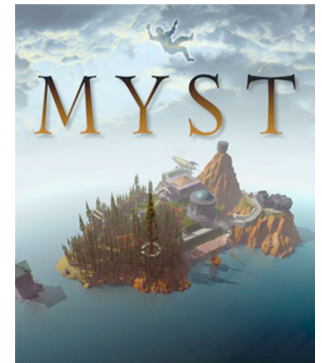
Computer games had avid players, but they were still a niche market in the early 1990s. An important step in the mainstream acceptance of personal computer games was the development of the **first-person shooter**<sup>6</sup> genre. First popularized by the 1992 game *Wolfenstein 3D*, these games put the player in the character's perspective, making it seem as if the player were firing weapons and being attacked. *Doom*, released in 1993, and *Quake*, released in 1996, used the increased

6. A video game genre developed in the 1990s that puts the player in the perspective of a character who primarily uses guns to defeat enemies.

processing power of personal computers to create vivid three-dimensional worlds that were impossible to fully replicate on video game consoles of the era. These games pushed realism to new heights and began attracting public attention for their graphic violence.

Another trend was reaching out to audiences outside of the video-game-playing community. *Myst*, an adventure game where the player walked around an island solving a mystery, drove sales of CD-ROM drives for computers. *Myst*, its sequel *Riven*, and other nonviolent games such as *SimCity* actually outsold *Doom* and *Quake* in the 1990s. Stephen C. Miller, “News Watch; Most-Violent Video Games Are Not Biggest Sellers,” *New York Times*, July 29, 1999, <http://www.nytimes.com/1999/07/29/technology/news-watch-most-violent-video-games-are-not-biggest-sellers.html>. These nonviolent games appealed to people who did not generally play video games, increasing the form’s audience and expanding the types of information that video games put across.

Figure 10.4



*Myst* challenged the notion that only violent games could be successful.

### Online Gaming Gains Popularity

A major advance in game technology came with the increase in Internet use by the general public in the 1990s. A major feature of *Doom* was the ability to use multiplayer gaming through the Internet. Strategy games such as *Command and Conquer* and *Total Annihilation* also included options where players could play each other over the Internet. Other fantasy-inspired role-playing games, such as *Ultima Online*, used the Internet to initiate the **massively multiplayer online role-playing game (MMORPG)**<sup>7</sup> genre. Jeremy Reimer, “The Evolution of Gaming: Computers, Consoles, and Arcade,” *Ars Technica* (blog), October 10, 2005, <http://arstechnica.com/old/content/2005/10/gaming-evolution.ars/4>. These games used the Internet as their platform, much like the text-based MUDs, creating a space where individuals could play the game while socially interacting with one another.

### Portable Game Systems

The development of portable game systems was another important aspect of video games during the 1990s. Handheld games had been in use since the 1970s, and a system with interchangeable cartridges had even been sold in the early 1980s. Nintendo released the Game Boy in 1989, using the same principles that made the NES dominate the handheld market throughout the 1990s. The Game Boy was released with the game *Tetris*, using the game’s popularity to drive purchases of the

7. A genre of video games that allows a large number of players to simultaneously engage in a role-playing game.

unit. The unit's simple design meant users could get 20 hours of playing time on a set of batteries, and this basic design was left essentially unaltered for most of the decade. More advanced handheld systems, such as the Atari Lynx and Sega Game Gear, could not compete with the Game Boy despite their superior graphics and color displays. Joe Hutsko, "88 Million and Counting; Nintendo Remains King of the Handheld Game Players," *New York Times*, March 25, 2000, <http://www.nytimes.com/2000/03/25/business/88-million-and-counting-nintendo-remains-king-of-the-handheld-game-players.html>.

The decade-long success of the Game Boy belies the conventional wisdom of the console wars that more advanced technology makes for a more popular system. The Game Boy's static, simple design was readily accessible, and its stability allowed for a large library of games to be developed for it. Despite using technology almost a decade old, the Game Boy accounted for 30 percent of Nintendo of America's overall revenues at the end of the 1990s. Joe Hutsko, "88 Million and Counting; Nintendo Remains King of the Handheld Game Players," *New York Times*, March 25, 2000, <http://www.nytimes.com/2000/03/25/business/88-million-and-counting-nintendo-remains-king-of-the-handheld-game-players.html>.

## **The Early 2000s: 21st-Century Games**

### **The Console Wars Continue**

1999 saw Sega's last effort in the console wars with its Sega Dreamcast. This console could connect to the Internet, emulating the sophisticated computer games of the 1990s. The new features of the Sega Dreamcast were not enough to save the brand, however, and Sega discontinued production in 2001, leaving the console market entirely. "Sega Dreamcast," slide in "A Brief History of Game Console Warfare," *Business Week*, [http://images.businessweek.com/ss/06/10/game\\_consoles/](http://images.businessweek.com/ss/06/10/game_consoles/).

A major problem for Sega's Dreamcast was Sony's release of the PlayStation 2 (PS2) in 2000. The PS2 could function as a DVD player, expanding the role of the console into an entertainment device that did more than play video games. This console was incredibly successful, enjoying a long production run, with more than 106 million units sold worldwide by the end of the decade. "PlayStation 2," slide in "A Brief History of Game Console Warfare." *Business Week*, [http://images.businessweek.com/ss/06/10/game\\_consoles/](http://images.businessweek.com/ss/06/10/game_consoles/)

In 2001, two major consoles were released to compete with the PS2: the Xbox and the Nintendo GameCube. The Xbox was an attempt by Microsoft to enter the market with a console that expanded on the functions of other game consoles. The unit had features similar to a PC, including a hard drive and an ethernet port for online play through its service, Xbox Live. The popularity of the first-person shooter game *Halo*,

an Xbox exclusive release, boosted sales as well. Nintendo's GameCube did not offer DVD playback capabilities, choosing instead to focus on gaming functions. Both of these consoles sold millions of units but did not come close to the sales of the PS2.

### Computer Gaming Becomes a Niche Market

As consoles developed to rival the capabilities of personal computers, game developers began to focus more on games for consoles. From 2000 to the end of the decade, the popularity of personal computer games has gradually declined. The computer gaming community, while still significant, is focused on game players who are willing to pay a lot of money on personal computers that are designed specifically for gaming, often including multiple monitors and user modifications that allow personal computers to play newer games. This type of market, though profitable, is not large enough to compete with the audience for the much cheaper game consoles. Kristin Kalning, "Is PC Gaming Dying? Or Thriving?" *MSNBC*, March 26, 2008, <http://www.msnbc.msn.com/id/23800152/wid/11915773/>.

### The Evolution of Portable Gaming

Nintendo continued its control of the handheld game market into the 2000s with the 2001 release of the Game Boy Advance, a redesigned Game Boy that offered 32-bit processing and compatibility with older Game Boy games. In 2004, anticipating Sony's upcoming handheld console, Nintendo released the Nintendo DS, a handheld console that featured two screens and Wi-Fi capabilities for online gaming. Sony's PlayStation Portable (PSP) was released the following year and featured Wi-Fi capabilities as well as a flexible platform that could be used to play other media such as MP3s. Penelope Patsuris, "Sony PSP vs. Nintendo DS," *Forbes*, June 7, 2004, [http://www.forbes.com/2004/06/07/cx\\_pp\\_0607mondaymatchup.html](http://www.forbes.com/2004/06/07/cx_pp_0607mondaymatchup.html). These two consoles, along with their newer versions, continue to dominate the handheld market.

One interesting innovation in mobile gaming occurred in 2003 with the release of the Nokia N-Gage. The N-Gage was a combination of a game console and mobile phone that, according to consumers, did not fill either role very well. The product line was discontinued in 2005, but the idea of playing games on phones persisted and has been developed on other platforms. Brad Stone, "Play It Again, Nokia. For the Third Time," *New York Times*, August 27, 2007, <http://www.nytimes.com/2007/08/27/technology/27nokia.html>. Apple currently dominates the industry of mobile phone games; in 2008 and 2009 alone, iPhone games generated \$615 million in revenue. Peter Farago, "Apple iPhone and iPod Touch Capture U.S. Video Game Market Share," *Flurry* (blog), March 22, 2010, <http://blog.flurry.com/bid/31566/Apple-iPhone-and-iPod-touch-Capture-U-S-Video-Game-Market-Share>. As mobile phone gaming grows in popularity and as the supporting technology becomes

increasingly more advanced, traditional portable gaming platforms like the DS and the PSP will need to evolve to compete. Nintendo is already planning a successor to the DS that features 3-D graphics without the use of 3-D glasses that it hopes will help the company retain and grow its share of the portable gaming market.

### Video Games Today

The trends of the late 2000s have shown a steadily increasing market for video games. Newer control systems and family-oriented games have made it common for many families to engage in video game play as a group. Online games have continued to develop, gaining unprecedented numbers of players. The overall effect of these innovations has been the increasing acceptance of video game culture by the mainstream.

### Home Consoles

The current state of the home console market still involves the three major companies of the past 10 years: Nintendo, Sony, and Microsoft. The release of Microsoft's Xbox 360 led this generation of consoles in 2005. The Xbox 360 featured expanded media capabilities and integrated access to Xbox Live, an online gaming service. Sony's PlayStation 3 (PS3) was released in 2006. It also featured enhanced online access as well as expanded multimedia functions, with the additional capacity to play Blu-ray discs. Nintendo released the Wii at the same time. This console featured a motion-sensitive controller that departed from previous controllers and focused on accessible, often family-oriented games. This combination successfully brought in large numbers of new game players, including many older adults. By June 2010, in the United States, the Wii had sold 71.9 million units, the Xbox 360 had sold 40.3 million, and the PS3 trailed at 35.4 million. VGChartz, "Weekly Hardware Chart: 19th June 2010," <http://www.vgchartz.com>. In the wake of the Wii's success, Microsoft and Sony have introduced their own motion-sensitive systems. J. P. Mangalindan, "Is Casual Gaming Destroying the Traditional Gaming Market?" *Fortune*, March 18, 2010, <http://tech.fortune.cnn.com/2010/03/18/is-casual-gaming-destroying-the-traditional-gaming-market/>.

### KEY TAKEAWAYS

- In a time before personal computers, early video games allowed the general public to access technology that had been restricted to the realm of abstract science. *Tennis for Two* created an interface where anyone with basic motor skills could use a complex machine. The first video games functioned early on as a form of media by essentially disseminating the experience of computer technology to those without access to it.
- Video games reached wider audiences in the 1990s with the advent of the first-person shooter genre and popular non-action games such as *Myst*. The games were marketed to older audiences, and their success increased demand for similar games.
- Online capabilities that developed in the 1990s and expanded in the 2000s allowed players to compete in teams. This innovation attracted larger audiences to gaming and led to new means of social communication.
- A new generation of accessible, family-oriented games in the late 2000s encouraged families to interact through video games. These games also brought in older demographics that had never used video games before.

### EXERCISES

Video game marketing has changed to bring in more and more people to the video game audience. Think about the influence video games have had on you or people you know. If you have never played video games, then think about the ways your conceptions of video games have changed. Sketch out a timeline indicating the different occurrences that marked your experiences related to video games. Now compare this timeline to the history of video games from this section. Consider the following questions:

1. How did your own experiences line up with the history of video games?
2. Did you feel the effects of marketing campaigns directed at you or those around you?
3. Were you introduced to video games during a surge in popularity? What games appealed to you?



## 10.2 Influential Contemporary Games

### LEARNING OBJECTIVES

1. Identify the effect electronic games have on culture.
2. Select the most influential and important games released to the general public within the last few years.
3. Describe ways new games have changed the video game as a form of media.

With such a short history, the place of video games in culture is constantly changing and being redefined. Are video games entertainment or art? Should they focus on fostering real-life skills or developing virtual realities? Certain games have come to prominence in recent years for their innovations and genre-expanding attributes. These games are notable for not only great economic success and popularity but also for having a visible influence on culture.

### ***Guitar Hero and Rock Band***

The musical series *Guitar Hero*, based on a Japanese arcade game of the late 1990s, was first launched in North America in 2005. In the game, the player uses a guitar-shaped controller to match the rhythms and notes of famous rock songs. The closer the player approximates the song, the better the score. This game introduced a new genre of games in which players simulate playing musical instruments. *Rock Band*, released in 2007, uses a similar format, including a microphone for singing, a drum set, and rhythm and bass guitars. These games are based on a similar premise as earlier rhythm-based games such as *Dance Dance Revolution*, in which players keep the rhythm on a dance pad. *Dance Dance Revolution*, which was introduced to North American audiences in 1999, was successful but not to the extent that the later band-oriented games were. In 2008, music-based games brought in an estimated \$1.9 billion.

*Guitar Hero* and *Rock Band* brought new means of marketing and a kind of cross-media stimulus with them. The songs featured in the games experienced increased downloads and sales—as much as an 840 percent increase in some cases. Matt Peckham, Music Sales Rejuvenated by *Rock Band*, *Guitar Hero*,” *PC World*, December 22, 2008, <http://www.washingtonpost.com/wp-dyn/content/article/2008/12/22/AR2008122200798.html>. The potential of this type of game did not escape its developers or the music industry. Games dedicated solely to one band were developed, such as *Guitar Hero: Aerosmith* and *The Beatles: Rock Band*. These games were a mix of music documentary, greatest hits album, and game. They included footage from early concerts, interviews with band members, and, of course, songs that allowed users to play along. When *Guitar Hero: Aerosmith* was released, the band’s catalog experienced a 40 percent increase in sales. Denise Quan, “Is ‘Guitar Hero’ Saving Rock ‘n’ Roll?” *CNN*, August 28, 2008, <http://www.cnn.com/2008/SHOWBIZ/Music/08/20/video.l.games.music/>.

Figure 10.5



*Rock Band* includes a microphone and a drum set along with a guitar.

The rock band Metallica made its album *Death Magnetic* available for *Guitar Hero III* on the same day it was released as an album. Denise Quan, “Is ‘Guitar Hero’ Saving Rock ‘n’ Roll?” *CNN*, August 28, 2008, <http://www.cnn.com/2008/SHOWBIZ/Music/08/20/video.l.games.music/>. Other innovations include *Rock Band Network*, a means for bands and individuals to create versions of their own songs for *Rock Band* that can be downloaded for a fee. The sporadic history of the video game industry makes it unclear if this type of game will maintain market share or even maintain its popularity, but it has clearly opened new avenues of expression as a form of media.

### The *Grand Theft Auto* series

The first game in the *Grand Theft Auto* (*GTA*) series was released in 1997 for the PC and Sony PlayStation. The game had players stealing cars—not surprising given its title—and committing a variety of crimes to achieve specific goals. The game’s extreme violence made it popular with players of the late 1990s, but its true draw was the variety of options that players could employ in the game. Specific narratives and goals could be pursued, but if players wanted to drive around and explore the city, they could do that as well. A large variety of cars, from sports cars to tractor trailers, were available depending on the player’s goals. The violence could likewise be taken to any extreme the player wished, including stealing cars, killing pedestrians, and engaging the police in a shoot-out. This type of game is known as a **sandbox game**<sup>8</sup>, or open world, and it is defined by the ability of users

8. A video game in which the player chooses among a number of different objectives.

to freely pursue their own objectives. Ryan Donald, review of Grand Theft Auto (PlayStation), *CNET*, 28 April 2000, [http://reviews.cnet.com/legacy-game-platforms/grand-theft-auto-playstation/4505-9882\\_7-30971409-2.html](http://reviews.cnet.com/legacy-game-platforms/grand-theft-auto-playstation/4505-9882_7-30971409-2.html).

The *GTA* series has evolved over the past decade by increasing the realism, options, and explicit content of the first game. *GTA III* and *GTA IV*, as well as a number of spin-off games, such as the recent addition *The Ballad of Gay Tony*, have made the franchise more profitable and more controversial. These newer games have expanded on the idea of an open video game world, allowing players to have their characters buy and manage businesses, play unrelated mini-games (such as bowling and darts), and listen to a wide variety of in-game music, talk shows, and even television programs. However, increasing freedom also results in increasing controversy, as players can choose to solicit prostitutes, visit strip clubs, perform murder sprees, and assault law enforcement agents. Lawsuits have attempted to tie the games to real-life instances of violence, and *GTA* games are routinely the target of political investigations into video game violence. Tatiana Morales, "Grand Theft Auto Under Fire," *CBS News*, July 14, 2005, <http://www.cbsnews.com/stories/2005/07/13/earlyshow/living/parenting/main708794.shtml>.

### ***World of Warcraft***

*World of Warcraft* (WoW), released in 2004, is a massively multiplayer online role-playing game (MMORPG) loosely based on the *Warcraft* strategy franchise of the 1990s. The game is conducted entirely online, though it is accessed through purchased software, and players purchase playing time. Each player chooses an avatar, or character, that belongs to one of several races, such as orcs, elves, and humans. These characters can spend their time on the game by completing quests, learning trades, or simply interacting with other characters. As characters gain experience, they obtain skills and earn virtual money. Players also choose whether they can attack other players without prior agreement by choosing a PvP (player versus player) **server**<sup>9</sup>. The normal server allows players to fight each other, but it can only be done if both players consent. A third server is reserved for those players who want to role-play, or act in character.

9. A computer in a network that provides a service to other computers linked to it.

Various organizations have sprung up within the WoW universe. Guilds are groups that ascribe to specific codes of conduct and work together to complete tasks that cannot be accomplished by a lone individual. The guilds are organized by the players; they are not maintained by WoW developers. Each has its own unique identity and social rules, much like a college fraternity or social club. Voice communication technology allows players to speak to each other as they complete missions and increases the social bonding that holds such organizations together. Carson Barker, "Team Players: Guilds Take the Lonesome Gamer Out of Seclusion ... Kind Of," *Austin Chronicle*, July 28, 2006, <http://www.austinchronicle.com/gyrobase/Issue/story?oid=oid%3A390551>.

Figure 10.6



*World of Warcraft* allows players to team up with their avatars to go on quests or just socialize.

Image used by permission. © 2011 Blizzard Entertainment, Inc.

WoW has taken the medium of video games to unprecedented levels. Although series such as *Grand Theft Auto* allow players a great deal of freedom, everything done in the games was accounted for at some point. WoW, which depends on the actions of millions of players to drive the game, allows people to literally live their lives through a game. In the game, players can earn virtual gold by mining it, killing enemies, and killing other players. It takes a great deal of time to accumulate gold in this manner, so many wealthy players choose to buy this gold with actual dollars. This is technically against the rules of the game, but these rules are unenforceable. Entire real-world industries have developed from this trade in gold. Chinese companies employ workers, or "gold farmers"<sup>10</sup>, who work 10-hour shifts finding gold in WoW so that the company can sell it to clients. Other players make money by finding deals on virtual goods and then selling them for a profit. One WoW player even "traveled" to Asian servers to take advantage of cheap prices, conducting a virtual import-export business. Rowenna Davis, "Welcome to the New Gold Mines," *Guardian* (London), March 5, 2009, <http://www.guardian.co.uk/technology/2009/mar/05/virtual-world-china?intcmp=239>.

The unlimited possibilities in such a game expand the idea of what a game is. It is obvious that an individual who buys a video game, takes it home, and plays it during his or her leisure is, in fact, playing a game. But if that person is a "gold farmer" doing repetitious tasks in a virtual world to make a real-world living, the situation is not as clear. WoW challenges conventional notions of what a game is by allowing the players to create their own goals. To some players, the goal may be to gain a high level for their character; others may be interested in role-playing, whereas others are focused on making a profit. This kind of flexibility leads to the

10. Players in *World of Warcraft* who work to get virtual gold so that they can sell it for actual money.

development of scenarios never before encountered in game-play, such as the development of economic classes.

### ***Call of Duty: Modern Warfare***

The *Call of Duty* series of first-person shooter games is notable for its record-breaking success in the video game market, generating more than \$3 billion in retail sales through late 2009. Tom Ivan, “Call of Duty Series Tops 55 Million Sales,” *Edge*, November 27, 2009, <http://www.edge-online.com/news/call-of-duty-series-tops-55-million-sales>. *Call of Duty: Modern Warfare 2* was released in 2009 to critical acclaim and a great deal of controversy. The game included a 5-minute sequence in which the player, as a CIA agent infiltrating a terrorist cell, takes part in a massacre of innocent civilians. The player was not required to shoot civilians and could skip the sequence if desired, but these options did not stop international attention and calls to ban the game. Games Radar, “The Decade in Gaming: The 10 Most Shocking Moments of the Decade,” December 29, 2009, <http://www.gamesradar.com/f/the-10-most-shocking-game-moments-of-the-decade/a-20091221122845427051/p-2>. Proponents of the series argue that *Call of Duty* has a Mature rating and is not meant to be played by minors. They also point out that the games are less violent than many modern movies. However, the debate has continued, escalating as far as the United Kingdom’s House of Commons. Games Radar, “The Decade in Gaming: The 10 Most Shocking Moments of the Decade,” December 29, 2009, <http://www.gamesradar.com/f/the-10-most-shocking-game-moments-of-the-decade/a-20091221122845427051/p-2>.

### ***Wii Sports and Wii Fit***

The Nintendo Wii, with its dedicated motion-sensitive controller, was sold starting in 2006. The company had attempted to implement similar controllers in the past, including the Power Glove in 1989, but it had never based an entire console around such a device. The Wii’s simple design was combined with basic games such as *Wii Sports* to appeal to previously untapped audiences. *Wii Sports* was included with purchase of the Wii console and served as a means to demonstrate the new technology. It included five games: baseball, bowling, boxing, tennis, and golf. *Wii Sports* created a way for group play without the need for familiarity with video games. It was closer to outdoor social games such as horseshoes or croquet than it was to *Doom*. There was also nothing objectionable about it: no violence, no in-your-face intensity—just a game that even older people could access and enjoy. *Wii Bowling* tournaments were sometimes organized by retirement communities, and many people found the game to be a new way to socialize with their friends and families. Dave Wischnowsky, “Wii Bowling Knocks Over Retirement Home,” *Chicago Tribune*, February 16, 2007, <http://www.chicagotribune.com/news/local/chi-070216nintendo,0,2755896.story>.

*Wii Fit* combined the previously incompatible terms “fitness” and “video games.” Using a touch-sensitive platform, players could do aerobics, strength training, and yoga. The game kept track of players’ weights, acting as a kind of virtual trainer. Matt Vella, “Wii Fit Puts the Fun in Fitness,” *Business Week*, May 21, 2008, [http://www.businessweek.com/innovate/content/may2008/id20080520\\_180427.htm](http://www.businessweek.com/innovate/content/may2008/id20080520_180427.htm). *Wii Fit* used the potential of video games to create an interactive version of an exercise machine, replacing workout videos and other forms of fitness that had never before considered Nintendo a competitor. This kind of design used the inherent strengths of video games to create a new kind of experience.

Nintendo found most of its past success marketing to younger demographics with games that were less controversial than the 1990s first-person shooters. *Wii Sports* and *Wii Fit* saw Nintendo playing to its strengths and expanding on them with family-friendly games that encouraged multiple generations to use video games as a social platform. This campaign was so successful that it is being imitated by rival companies Sony and Microsoft, which have released the Sony PlayStation Move and the Microsoft Kinect.

### KEY TAKEAWAYS

- *Guitar Hero* and *Rock Band* created a new means of marketing for the music industry. Music featured on the games experienced increased downloads and sales.
- The *Grand Theft Auto* series was revolutionary and controversial for its open-ended field. Players could choose from a number of different options, allowing them to set their own goals and create their own version of the game.
- *World of Warcraft* has brought the MMORPG genre to new heights of popularity. The large number of users has made the game evolve to a level of complexity unheard of in video games.
- *Wii Sports* and *Wii Fit* brought video games to audiences that had never been tapped by game makers. Older adults and families used *Wii Sports* as a means of family bonding, and *Wii Fit* took advantage of motion-controlled game playing to enter the fitness market.

## EXERCISES

Think about the ways in which the games from Section 10.2 "Influential Contemporary Games" were innovative and groundbreaking. Consider the following questions:

1. What new social, technological, or cultural areas did they explore?
2. Pick one of these areas—social, technological, or cultural—and write down ways in which video games could have a future influence in this area.

## 10.3 The Impact of Video Games on Culture

### LEARNING OBJECTIVES

1. Describe gaming culture and how it has influenced mainstream culture.
2. Analyze the ways video games have affected other forms of media.
3. Describe how video games can be used for educational purposes.
4. Identify the arguments for and against the depiction of video games as an art.

An NPD poll conducted in 2007 found that 72 percent of the U.S. population had played a video game that year. Chris Faylor, “NPD: 72% of U.S. Population Played Games in 2007; PC Named “Driving Force in Online Gaming,” Shack News, April 2, 2008, <http://www.shacknews.com/onearticle.x/52025>. The increasing number of people playing video games means that video games are having an undeniable effect on culture. This effect is clearly visible in the increasing mainstream acceptance of aspects of gaming culture. Video games have also changed the way that many other forms of media, from music to film, are produced and consumed. Education has also been changed by video games through the use of new technologies that help teachers and students communicate in new ways through educational games such as *Brain Age*. As video games have an increasing influence on our culture, many have voiced their opinions on whether this form of media should be considered an art.

### Game Culture

To fully understand the effects of video games on mainstream culture, it is important to understand the development of **gaming culture**<sup>11</sup>, or the culture surrounding video games. Video games, like books or movies, have avid users who have made this form of media central to their lives. In the early 1970s, programmers got together in groups to play *Spacewar!*, spending a great deal of time competing in a game that was rudimentary compared to modern games. Stewart Brand, “Space War,” *Rolling Stone*, December 7, 1972. As video arcades and home video game consoles gained in popularity, youth culture quickly adapted to this type of media, engaging in competitions to gain high scores and spending hours at the arcade or with the home console.

11. The unique set of aesthetics and principles that characterize video games.

In the 1980s, an increasing number of kids were spending time on consoles playing games and, more importantly, increasingly identifying with the characters and



products associated with the games. Saturday morning cartoons were made out of the *Pac-Man* and *Super Mario Bros.* games, and an array of nongame merchandise was sold with video game logos and characters. The public recognition of some of these characters has made them into cultural icons. A poll taken in 2007 found that more Canadians surveyed could identify a photo of Mario, from *Super Mario Bros.*, than a photo of the current Canadian prime minister. Cohn & Wolfe Toronto, “Italian Plumber More Memorable Than Harper, Dion,” news release, November 13, 2007, [http://www.newswire.ca/en/releases/mmnr/Super\\_Mario\\_Galaxy/index.html](http://www.newswire.ca/en/releases/mmnr/Super_Mario_Galaxy/index.html).

As the kids who first played *Super Mario Bros.* began to outgrow video games, companies such as Sega, and later Sony and Microsoft, began making games to appeal to older demographics. This has increased the average age of video game players, which was 35 in 2009. Entertainment Software Association, *Essential Facts About the Computer and Video Game Industry: 2009 Sales, Demographic, and Usage Data*, 2009, [http://www.theesa.com/facts/pdfs/ESA\\_EF\\_2009.pdf](http://www.theesa.com/facts/pdfs/ESA_EF_2009.pdf). The Nintendo Wii has even found a new demographic in retirement communities, where *Wii Bowling* has become a popular form of entertainment for the residents. Dave Wischnowsky, “Wii Bowling Knocks Over Retirement Home,” *Chicago Tribune*, February 16, 2007, <http://www.chicagotribune.com/news/local/chi-070216nintendo,0,2755896.story>. The gradual increase in gaming age has led to an acceptance of video games as an acceptable form of mainstream entertainment.

## The Subculture of Geeks

The acceptance of video games in mainstream culture has consequently changed the way that the culture views certain people. “Geek” was the name given to people who were adept at technology but lacking in the skills that tended to make one popular, like fashion sense or athletic ability. Many of these people, because they often did not fare well in society, favored imaginary worlds such as those found in the fantasy and science fiction genres. Video games were appealing because they were both a fantasy world and a means to excel at something. Jim Rossignol, in his 2008 book *This Gaming Life: Travels in Three Cities*, explained part of the lure of playing *Quake III* online:

Cold mornings, adolescent disinterest, and a nagging hip injury had meant that I was banished from the sports field for many years. I wasn't going to be able to indulge in the camaraderie that sports teams felt or in the extended buzz of victory through dedication and cooperation. That entire swathe of experience had been cut off from me by cruel circumstance and a good dose of self-defeating apathy. Now, however, there was a possibility for some kind of redemption: a sport for the quick-fingered and the computer-bound; a space of possibility in which I could mold friends and strangers into a proficient gaming team. Jim Rossignol, *This Gaming Life: Travels in Three Cities* (Ann Arbor, MI: University of Michigan Press, 2008), 17.

Video games gave a group of excluded people a way to gain proficiency in the social realm. As video games became more of a mainstream phenomenon and video game skills began to be desired by a large number of people, the popular idea of geeks changed. It is now common to see the term “geek” used to mean a person who understands computers and technology. This former slur is also prominent in the media, with headlines in 2010 such as “Geeks in Vogue: Top Ten Cinematic Nerds.” Craig Sharp, “Geeks in Vogue: Top Ten Cinematic Nerds,” *Film Shaft*, April 26, 2010, <http://www.filmshaft.com/geeks-in-vogue-top-ten-cinematic-nerds/>.

Many media stories focusing on geeks examine the ways in which this subculture has been accepted by the mainstream. Geeks may have become “cooler,” but mainstream culture has also become “geekier.” The acceptance of geek culture has led to acceptance of geek aesthetics. The mainstreaming of video games has led to acceptance of fantasy or virtual worlds. This is evident in the popularity of film/book series such as *The Lord of the Rings* and *Harry*

Potter. Comic book characters, emblems of geek culture, have become the vehicles for blockbuster movies such as *Spider-Man* and *The Dark Knight*. The idea of a fantasy or virtual world has come to appeal to greater numbers of people. Virtual worlds such as those represented in the *Grand Theft Auto* and *Halo* series and online games such as *World of Warcraft* have expanded the idea of virtual worlds so that they are not mere means of escape but new ways to interact. Lars Konzack, “Geek Culture: The 3rd Counter-Culture,” (paper, FNG2006, Preston, England, June 26–28, 2006), <http://www.scribd.com/doc/270364/Geek-Culture-The-3rd-CounterCulture>.

## The Effects of Video Games on Other Types of Media

Video games during the 1970s and 1980s were often **derivatives**<sup>12</sup> of other forms of media. *E.T.*, *Star Wars*, and a number of other games took their cues from movies, television shows, and books. This began to change in the 1980s with the development of cartoons based on video games, and in the 1990s and 2000s with live-action feature films based on video games.

### Television

Television programs based on video games were an early phenomenon. *Pac-Man*, *Pole Position*, and *Q\*bert* were among the animated programs that aired in the early 1980s. In the later 1980s, shows such as *The Super Mario Bros. Super Show!* and *The Legend of Zelda* promoted Nintendo games. In the 1990s, *Pokémon*, originally a game developed for the Nintendo Game Boy, was turned into a television series, a card game, several movies, and even a musical. Internet Movie Database, “Pokémon,” <http://www.imdb.com/>. Recently, several programs have been developed that revolve entirely around video games—the web series *The Guild*, for instance, tells the story of a group of friends who interact through an unspecified MMORPG.

Nielsen, the company that tabulates television ratings, has begun rating video games in a similar fashion. In 2010, this information showed that video games, as a whole, could be considered a kind of **fifth network**<sup>13</sup>, along with the television networks NBC, ABC, CBS, and Fox. Mike Shields, “Nielsen: Video Games Approach 5th Network Status,” *Adweek*, March 25, 2009, [http://www.adweek.com/aw/content\\_display/news/agency/e3i4f087b1aeac6f008d0ecadfeffe4a191](http://www.adweek.com/aw/content_display/news/agency/e3i4f087b1aeac6f008d0ecadfeffe4a191). Advertisers use Nielsen ratings to decide which programs to support. The use of this system is changing public perceptions to include video game playing as a habit similar to television watching.

12. Media that uses the narratives and aesthetics of other forms of media.

13. Term used to describe the potential for video games to rival the top four television networks.

Video games have also influenced the way that television is produced. The Rocket Racing League, scheduled to be launched in 2011, will feature a “virtual racetrack.” Racing jets will travel along a virtual track that can only be seen by pilots and spectators with enabled equipment. Applications for mobile devices are being developed that will allow spectators to race virtual jets alongside the ones flying in real time. Adam Hadhazy, “NASCAR of the Skies’ to Feature Video Game-Like Interactivity,” *TechNewsDaily*, April 26, 2010, <http://www.technewsdaily.com/nascar-of-the-skies-to-feature-video-game-like-interactivity-0475/>. This type of innovation is only possible with a public that has come to demand and rely on the kind of interactivity that video games provide.

### Film

The rise in film adaptations of video games accompanies the increased age of video game users. In 1995, *Mortal Kombat*, a live-action movie based on the video game, grossed over \$70 million at the box office, placing it 22nd in the rankings for that year. Box Office Mojo, “Mortal Kombat,” <http://boxofficemojo.com/movies/?id=mortalkombat.htm>. *Lara Croft: Tomb Raider*, released in 2001, starred well-known actress Angelina Jolie and ranked No. 1 at the box office when it was released, and 15th overall for the year. Box Office Mojo, “Lara Croft: Tomb Raider,” <http://www.boxofficemojo.com/movies/?id=tombraider.htm>. Films based on video games are an increasingly common sight at the box office, such as producer Jerry Bruckheimer’s *Prince of Persia*, or the recent sequel to *Tron*, based on the idea of a virtual gaming arena.

Another aspect of video games’ influence on films is how video game releases are marketed and perceived. The release date for anticipated game *Grand Theft Auto IV* was announced and marketed to compete with the release of the film *Iron Man*. *Grand Theft Auto IV* supposedly beat *Iron Man* by \$300,000,000 million in sales. This kind of comparison is, in some ways, misleading. Video games cost much more than a ticket to a movie, so higher sales does not mean that more people bought the game than the movie. Also, the distribution apparatus for the two media is totally different. Movies can only be released in theaters, whereas video games can be sold at any retail outlet. Associated Press, “Grand Theft Auto IV’ Beats ‘Iron Man’ by \$300 Million,” *Fox News*, May 9, 2008, <http://www.foxnews.com/story/0,2933,354711,00.html>. What this kind of news story proves, however, is that the general public considers video games as something akin to a film. It is also important to realize that the scale of production and profit for video games is similar to that of films. Video games include music scores, actors, and directors in addition to the game designers, and the budgets for major games reflect this. *Grand Theft Auto IV* cost an estimated \$100 million to produce. Gillian Bowditch, “Grand Theft Auto Producer is Godfather of Gaming,” *Times* (London), April 27, 2008, <http://www.timesonline.co.uk/tol/news/uk/scotland/article3821838.ece>.

## Music

Video games have been accompanied by music ever since the days of the arcade. Video game music was originally limited to computer beeps turned into theme songs. The design of the Nintendo 64, Sega Saturn, and Sony PlayStation made it possible to use sampled audio on new games, meaning songs played on physical instruments could be recorded and used on video games. Beginning with the music of the *Final Fantasy* series, scored by famed composer Nobuo Uematsu, video game music took on film score quality, complete with full orchestral and vocal tracks. This innovation proved beneficial to the music industry. Well-known musicians such as Trent Reznor, Thomas Dolby, Steve Vai, and Joe Satriani were able to create the soundtracks for popular games, giving these artists exposure to new generations of potential fans. “Video Games Music Big Hit,” *Wilmington (NC) Morning Star*, February 1, 1997, 36. Composing music for video games has turned into a profitable means of employment for many musicians. Schools such as Berklee College of Music, Yale, and New York University have programs that focus on composing music for video games. The students are taught many of the same principles that are involved in film scoring. Joseph P. Khan, “Berklee is Teaching Its Students to Compose Scores for Video Games,” *Boston Globe*, January 19, 2010, [http://www.boston.com/news/education/higher/articles/2010/01/19/berklee\\_is\\_teaching\\_students\\_to\\_compose\\_scores\\_for\\_video\\_games/](http://www.boston.com/news/education/higher/articles/2010/01/19/berklee_is_teaching_students_to_compose_scores_for_video_games/).

Many rock bands have allowed their previously recorded songs to be used in video games, similar to a hit song being used on a movie soundtrack. The bands are paid for the rights to use the song, and their music is exposed to an audience that otherwise might not hear it. As mentioned earlier, games like *Rock Band* and *Guitar Hero* have been used to promote bands. The release of *The Beatles: Rock Band* was timed to coincide with the release of digitally remastered reissues of the Beatles’ albums.

Another phenomenon relating to music and video games involves musicians covering video game music. A number of bands perform only video game covers in a variety of styles, such as the popular Japanese group the Black Mages, which performs rock versions of *Final Fantasy* music. Playing video game themes is not limited to rock bands, however. An orchestra and chorus called Video Games Live started a tour in 2005 dedicated to playing well-known video game music. Their performances are often accompanied by graphics projected onto a screen showing relevant sequences from the video games. Jason Michael Paul Productions, “About,” *Play! A Video Game Symphony*, <http://www.play-symphony.com/about.php>.

## Machinima

Recently, the connection between video games and other media has increased with the popularity of **machinima**<sup>14</sup>, animated films and series created by recording character actions inside video games. Beginning with the short film “Diary of a Camper,” filmed inside the game *Quake* in 1996, fans of video games have adopted the technique of machinima to tell their own stories. Although these early movies were released only online and targeted a select niche of gamers, professional filmmakers have since adopted the process, using machinima to storyboard scenes and to add a sense of individuality to computer-generated shots. This new form of media is increasingly becoming mainstream, as television shows such as *South Park* and channels such as MTV2 have introduced machinima to a larger audience. Jonathan Strickland, “How Machinima Works,” [HowStuffWorks.com](http://entertainment.howstuffworks.com/machinima3.htm), <http://entertainment.howstuffworks.com/machinima3.htm>.

## Video Games and Education

One sign of the mainstreaming of video games is the increase of educational institutions that embrace them. As early as the 1980s, games such as *Number Munchers* and *Word Munchers* were designed to help children develop basic math and grammar skills. In 2006, the Federation of American Scientists completed a study that approved of video game use in education. The study cited the fact that video game systems were present in most households, kids favored learning through video games, and games could be used to facilitate analytical skills. Ben Feller, “Group: Video Games Can Reshape Education,” *MSNBC*, October 18, 2006, <http://www.msnbc.msn.com/id/15309615/from/ET/>.

Another study, published in the science journal *Nature* in 2002, found that regular video game players had better developed visual-processing skills than people who did not play video games. Participants in the test were asked to play a first-person shooter game for one hour a day for 10 days, and were then tested for specific visual attention skills. The playing improved these skills in all participants, but the regular video game players had a greater skill level than the non-game players. According to the study, “Although video-game playing may seem to be rather mindless, it is capable of radically altering visual attention processing.” C. Shawn Green and Daphne Bavelier, “Action Video Game Modifies Visual Selective Attention,” *Nature* 423, no. 6939 (2003): 534–537.

Figure 10.7



Educational video games have proven to be useful tools for educators.

14. Animated films created by recording character actions inside of video games.

Other educational institutions have begun to embrace video games as well. The Boy Scouts of America have created a “belt loop,” something akin to a merit badge, for

tasks including learning to play a parent-approved game and developing a schedule to balance video game time with homework. David Murphy, "Boy Scouts Develop 'Vide Game' Merit Badge," *PC Magazine*, May 2, 2010, <http://www.pcmag.com/article2/0,2817,2363331,00.asp>. The federal government has also seen the educational potential of video games. A commission on balancing the federal budget suggested a video game that would educate Americans about the necessary costs of balancing the federal budget. Richard Wolf, "Nation's Soaring Deficit Calls for Painful Choices," *USA Today*, April 14, 2010, [http://www.usatoday.com/news/washington/2010-04-12-deficit\\_N.htm](http://www.usatoday.com/news/washington/2010-04-12-deficit_N.htm). The military has similarly embraced video games as training simulators for new soldiers. These simulators, working off of newer game technologies, present several different realistic options that soldiers could face on the field. The games have also been used as recruiting tools by the U.S. Army and the Army National Guard. Associated Press, "Military Training Is Just a Game," *Wired*, October 3, 2003, <http://www.wired.com/gaming/gamingreviews/news/2003/10/60688>.

The ultimate effect of video game use for education, whether in schools or in the public arena, means that video games have been validated by established cultural authorities. Many individuals still resist the idea that video games can be beneficial or have a positive cultural influence, but their embrace by educational institutions has given video games validation.

### Video Games as Art

While universally accepted as a form of media, a debate has recently arisen over whether video games can be considered a form of art. Roger Ebert, the well-known film critic, has historically argued that "video games can never be art," citing the fact that video games are meant to be won, whereas art is meant to be experienced. Roger Ebert, "Video Games Can Never Be Art," *Chicago Sun-Times*, April 16, 2010, [http://blogs.suntimes.com/ebert/2010/04/video\\_games\\_can\\_never\\_be\\_art.html](http://blogs.suntimes.com/ebert/2010/04/video_games_can_never_be_art.html).

His remarks have generated an outcry from both video gamers and developers. Many point to games such as 2009's *Flower*, in which players control the flow of flower petals in the wind, as examples of video games developing into art. *Flower* avoids specific plot and characters to allow the player to focus on interaction with the landscape and the emotion of the game-play. That Game Company, "Flower," <http://thatgamecompany.com/games/flower/>. Likewise, more mainstream games such as the popular *Katamari* series, released in 2004, are built around the idea of creation, requiring players to pull together a massive clump of objects in order to create a star.

Video games, once viewed as a mindless source of entertainment, are now being featured in publications such as *The New Yorker* magazine and *The New York Times*. Max Fisher, “Are Video Games Art?” *Atlantic Wire*, April 19, 2010, <http://www.theatlanticwire.com/features/view/feature/Are-Video-Games-Art-1085/>. With the development of increasingly complex musical scores and the advent of machinima, the boundaries between video games and other forms of media are slowly blurring. While they may not be considered art by everyone, video games have contributed significantly to modern artistic culture.

### KEY TAKEAWAYS

- The aesthetics and principles of gaming culture have had an increasing effect on mainstream culture. This has led to the gradual acceptance of marginalized social groups and increased comfort with virtual worlds and the pursuit of new means of interaction.
- Video games have gone from being a derivative medium that took its cues from other media, such as books, films, and music, to being a form of media that other types derive new ideas from. Video games have also interacted with older forms of media to change them and create new means of entertainment and interaction.
- Educational institutions have embraced the use of video games as valuable tools for teaching. These tools include simulated worlds in which important life skills can be learned and improved.
- While video games may not be accepted by everyone as a form of art, there is no doubt that they contribute greatly to artistic media such as music and film.

### EXERCISES

Think about the ways in which video games have influenced and affected other forms of media. Then consider the following questions:

1. Are there things video games will never be able to offer?
2. Write down several examples of ways in which other forms of media are not replicated by video games. Then speculate on ways video games could eventually emulate these forms.



## 10.4 Controversial Issues

### LEARNING OBJECTIVES

1. Describe controversial issues related to modern video games.
2. Analyze the issues and problems with rating electronic entertainment.
3. Discuss the effects of video game addiction.
4. Examine the gender issues surrounding video games.

The increasing realism and expanded possibilities of video games has inspired a great deal of controversy. However, even early games, though rudimentary and seemingly laughable nowadays, raised controversy over their depiction of adult themes. Although increased realism and graphics capabilities of contemporary video games have increased the shock value of in-game violence, international culture has been struggling to come to terms with video game violence since the dawn of video games.

### Violence

Violence in video games has been controversial from their earliest days. **Death Race**<sup>15</sup>, an arcade game released in 1976, encouraged drivers to run over stick figures, which then turned into Xs. Although the programmers claimed that the stick figures were not human, the game was controversial, making national news on the television talk show *Donahue* and the television news magazine *60 Minutes*. Video games, regardless of their realism or lack thereof, had added a new potential to the world of games and entertainment: the ability to simulate murder.

The enhanced realism of video games in the 1990s accompanied a rise in violent games as companies expanded the market to target older demographics. A great deal of controversy exists over the influence of this kind of violence on children, and also over the rating system that is applied to video games. There are many stories of real-life violent acts involving video games. The 1999 **Columbine High School massacre**<sup>16</sup> was quickly linked to the teenage perpetrators' enthusiasm for video games. The families of Columbine victims brought a lawsuit against 25 video game companies, claiming that if the games had not existed, the massacre would not have happened. Mark Ward, "Columbine Families Sue Computer Game Makers," *BBC News*, May 1, 2001, <http://news.bbc.co.uk/2/hi/science/nature/1295920.stm>. In 2008, a 17-year-old boy shot his parents after they took away his video game system, killing his mother. Mike Harvey, "Teenager Daniel Petric Shot Parents Who

15. A 1978 arcade game that drew protest over its depiction of violence.

16. The 1999 high school shooting that many people connected with the first-person shooter genre of video games.

Took Away Xbox,” *Times* (London), January 13, 2009, [http://www.timesonline.co.uk/tol/news/world/us\\_and\\_americas/article5512446.ece](http://www.timesonline.co.uk/tol/news/world/us_and_americas/article5512446.ece). Also in 2008, when 6 teens were arrested for attempted carjacking and robbery, they stated that they were reenacting scenes from *Grand Theft Auto*. Lee Cochran, “Teens Say: Video Game Made Them Do It,” *ABC News*, June 27, 2008, <http://abcnews.go.com/TheLaw/story?id=5262689>.

There is no shortage of news stories that involve young men committing crimes relating to an obsession with video games. The controversy has not been resolved regarding the influences behind these crimes. Many studies have linked aggression to video games; however, critics take issue with using the results of these studies to claim that the video games caused the aggression. They point out that people who enact video-game-related crimes already have psychopathic tendencies, and that the results of such research studies are correlational rather than causal—a naturally violent person is drawn to play violent video games. Jill U. Adams, “A Closer Look: Effects of Violent Video Games,” *Los Angeles Times*, May 3, 2010, <http://www.latimes.com/news/health/la-he-closer-20100503,0,5586471.story>. Other critics point out that violent games are designed for adults, just as violent movies are, and that parents should enforce stricter standards for their children.

The problem of children’s access to violent games is a large and complex one. Video games present difficult issues for those who create the ratings. One problem is the inconsistency that seems to exist in rating video games and movies. Movies with violence or sexual themes are rated either R or NC-17. Filmmakers prefer the R rating over the NC-17 rating because NC-17 ratings hurt box office sales, and they will often heavily edit films to remove overly graphic content. The **Entertainment Software Rating Board (ESRB)**<sup>17</sup>, rates video games. The two most restrictive ratings the ESRB has put forth are “M” (for Mature; 17 and older; “may contain mature sexual themes, more intense violence, and/or strong language”) and “AO” (for Adults Only; 18 and up; “may include graphic depictions of sex and/or violence”). If this rating system were applied to movies, a great deal of movies now rated R would be labeled AO. An AO label can have a devastating effect on game sales; in fact, many retail outlets will not sell games with an AO rating. Paul Hyman, “Video Game Rating Board Don’t Get No Respect,” *Hollywood Reporter*, April 8, 2005, [http://www.hollywoodreporter.com/hr/search/article\\_display.jsp?vnu\\_content\\_id=1000874859](http://www.hollywoodreporter.com/hr/search/article_display.jsp?vnu_content_id=1000874859). This creates a situation where a video game with a sexual or violent scene as graphic as the ones seen in R-rated movies is difficult to purchase, whereas a pornographic magazine can be bought at many convenience stores. This issue reveals a unique aspect of video games. Although many of them are designed for adults, the distribution system and culture surrounding video games is still largely youth-oriented.

17. The organization that creates ratings for video games.

## Video Game Addiction

Another controversial issue is the problem of video game addiction. As of the print date, the American Medical Association (AMA) has not created an official diagnosis of video game addiction, citing the lack of long-term research. However, the AMA uses the term “**video game overuse**<sup>18</sup>” to describe video game use that begins to affect other aspects of an individual’s life, such as relationships and health. Studies have found that socially marginalized people have more of a tendency to overuse games, especially online role-playing games like *World of Warcraft*. Other studies have found that patterns of time usage and social dysfunction in players who overuse games are similar to those of other addictive disorders. Mohamed Khan, *Emotional and Behavioral Effects of Video Games and Internet Overuse*, American Medical Association, Council on Science and Public Health, 2007, <http://www.ama-assn.org/ama1/pub/upload/mm/443/csaph12a07-fulltext.pdf>.

Groups such as Online Gamers Anonymous have developed a 12-step program similar to that of Alcoholics Anonymous to help gamers deal with problems relating to game overuse. This group is run by former online gamers and family members of those affected by heavy game use. On-line Gamers Anonymous, “About OLGA & OLG-Anon,” <http://www.olganon.org>. This problem is not new, but it has become more prevalent. In the early 1990s, many stories surfaced of individuals dropping out of college or getting divorced because of addiction to MUDs. R. W. Greene, “Is Internet Addiction for Worrywarts or a Genuine Problem?” CNN, September 23, 1998, <http://www.cnn.com/TECH/computing/9809/23/netaddict.idg/index.html>. In addition, heavy video gaming, much like heavy computer use in an office setting, can result in painful repetitive stress injuries. Even worse are the rare, but serious, cases of death resulting from video game overuse. In the early 1980s, two deaths were linked to the video game *Berzerk*. The players, both in their late teens, suffered fatal heart attacks while struggling to achieve top scores. Arcade History, “Berzerk, the Video Game,” <http://www.arcade-history.com/?n=berzerk&page=detail&id=236>. The issue of video game addiction has become a larger one because of the ubiquity of video games and Internet technology. In countries that have a heavily wired infrastructure, such as South Korea, the problem is even bigger. In 2010, excessive game use was problematic enough that the South Korean government imposed an online gaming curfew for people under the age of 18 that would block certain sites after midnight. This decision followed the death of a 3-month-old baby from starvation while her parents played an online game at an Internet café. Geoffrey Cain, “South Korea

Figure 10.8



Video game use can become an obsession with some people.

18. The term used in lieu of “video game addiction” by the American Medical Association while further research is conducted to determine the correct classification.

Cracks Down on Gaming Addiction,” *Time*, April 20, 2010, <http://www.time.com/time/world/article/0,8599,1983234,00.html>.

Another side of video game addiction is told well by Jim Rossignol in his book *This Gaming Life: Travels in Three Cities*. The book describes Rossignol’s job as a journalist for a financial company and his increasing involvement with *Quake III*. Rossignol trained a team of players to compete in virtual online tournaments, scheduling practices and spending the hours afterward analyzing strategies with his teammates. His intense involvement in the game led to poor performance at his job, and he was eventually fired. After being fired, he spent even more time on the game, not caring about his lack of a job or shrinking savings. The story up to this point sounds like a testimonial about the dangers of game addiction. However, because of his expertise in the game, he was hired by a games magazine and enjoyed full-time employment writing about what he loved doing. Rossignol does not gloss over the fact that games can have a negative influence, but his book speaks to the ways in which gaming—often what would be described as obsessive gaming—can cause positive change in people’s lives. Jim Rossignol, *This Gaming Life: Travels in Three Cities* (Ann Arbor, MI: University of Michigan Press, 2008), 4–11.

## Sexism

It is no secret that young adult men make up the majority of video gamers. A study in 2009 found that 60 percent of gamers were male, and the average age of players was 35. Entertainment Software Association, *Essential Facts About the Computer and Video Game Industry: 2009*. While the gender gap has certainly narrowed in the past 30 years, video gaming is still in many ways a male-dominated medium.

Figure 10.9



Games such as *Tomb Raider* and *Dead or Alive Xtreme* have been criticized for their demeaning depiction of women.

Male influence can be seen throughout the industry. Women make up less than 12 percent of game designers and programmers, and those who do enter the field often find themselves facing subtle—and not so subtle—sexism. Media Awareness Network, “Gender Stereotyping,” [http://www.media-awareness.ca/english/parents/video\\_games/concerns/gender\\_videogames.cfm](http://www.media-awareness.ca/english/parents/video_games/concerns/gender_videogames.cfm). When *Game Developer* magazine released its list of top 50 people in the video game industry for 2010, bloggers were quick to note that no female developers appeared in the list. Cory Doctorow, “Gamasutra’s Most Important Gamers List Is a Boy’s Club,” *BoingBoing* (blog), April 14, 2010, <http://boingboing.net/2010/04/14/gamasutras-most-impo.html>. In 2007, scandal erupted over a pornographic comic featuring Jade Raymond, current managing

director of the French video game publisher Ubisoft, that surfaced on an online forum. The motivation behind the comic was to allege that Raymond did not deserve her position at Ubisoft because she earned it based on her looks, rather than on her abilities and experience.

Sexism in video games has existed since the early days of the medium. The plot of the infamous *Custer's Revenge*, released for the Atari 2600 in 1982, centered on the rape of a Native American woman. Popular NES games such as *Super Mario Bros.* and *The Legend of Zelda* featured a male figure rescuing a damsel in distress. Both the protagonist and antagonist in the original *Tomb Raider* game had hourglass figures with prominent busts and nonexistent waists, a trend that continues in the franchise today. In 2003, the fighting series *Dead or Alive* released a spin-off game titled *Dead or Alive Xtreme Beach Volleyball* that existed to showcase the well-endowed female characters in swim attire. Michael Strauss, "A Look at Female Characters in Video Games," Associated Content, July 16, 2010, [http://www.associatedcontent.com/article/5487226/a\\_look\\_at\\_female\\_characters\\_in\\_video\\_pg2.html?cat=19](http://www.associatedcontent.com/article/5487226/a_look_at_female_characters_in_video_pg2.html?cat=19). The spin-off was so popular that two more similar games were released.

Some note that video games are not unique in their demeaning portrayal of women. Like movies, television, and other media forms, video games often fall back on gender stereotyping in order to engage consumers. Defenders point out that many male video game characters are also depicted lewdly. Games such as *God of War* and *Mortal Kombat* feature hypersexualized men with bulging muscles and aggressive personalities who rely on their brawn rather than their brains. How are men affected by these stereotypes? Laboratory studies have shown that violence and aggression in video games affect men more than women, leading to higher levels of male aggression. Bruce D. Bartholow and Craig A. Anderson, "Effects of Violent Video Games on Aggressive Behavior: Potential Sex Differences," *Journal of Experimental Social Psychology* 38, no. 3 (2002): 283–290. While sexism is certainly present in video games, it seems sexual stereotyping affects both genders negatively.

In recent years, game designers have sought to move away from these clichéd representations of gender. The popular game *Portal*, released in 2007, features a female protagonist clad in a simple orange jumpsuit who relies on her wits to solve logic puzzles. Series such as *Half-Life* and *Phoenix Wright: Ace Attorney* star male heroes who are intellectuals instead of warriors. Other games, like the *Mass Effect* series and *Halo: Reach*, allow gamers to choose the gender of the main character without altering elements of the plot or game-play. However, despite recent strides forward, there is no doubt that as the video game industry continues to evolve, so too will the issue of gender.

### KEY TAKEAWAYS

- Video game violence has been an issue since the 1976 game *Death Race*. The potential of video games to simulate murder created a new issue in entertainment media.
- A great number of news stories link video games with violent crimes. Studies have found a correlation between aggressive behavior and video games, but critics claim that these studies do not prove that video games cause violent acts.
- The video game rating system informs purchasers about the content of a game. The highest rating, Adults Only, hurts video game sales, so companies try to make games that are rated Mature. Critics charge that video game ratings are inconsistent with other schemes, such as the movie rating system.
- Video game addiction is associated more with online games, although many instances of single-player obsessions exist as well. It has become a high-profile issue with the rise in popularity of online gaming.
- The American Medical Association has not developed a diagnosis for video game addiction. Instead, it uses the term “video game overuse” to describe a state where an individual’s gaming habits have a detrimental effect on his or her personal life.
- Sexism and gender issues are hot topics in the video game industry, as female gamers and developers often struggle for equal footing. Controversy has arisen over character stereotypes; however, modern games are beginning to break through conventional barriers of gender.

### EXERCISES

Choose video game violence or video game addiction and search for it on the Internet. Examine the research that is associated with the issue you chose. Then consider the following questions:

1. What is your opinion of the issue in light of the research?
2. Has your issue been researched thoroughly?
3. Visit message boards and forums and search for journal articles related to video game addiction or violence. What actions would you suggest to research these issues more fully?

## 10.5 Blurring the Boundaries Between Video Games, Information, Entertainment, and Communication

### LEARNING OBJECTIVES

1. Identify how video games allow previously marginalized groups to enjoy new social experiences.
2. Explain how virtual worlds can be used to facilitate learning.
3. Describe the different ways video games have been used to communicate messages.

Early video games were easily identifiable as games. They had basic goals and set rules of play. As games have developed in complexity, they have allowed for newer options and an expanded idea of what constitutes a game. At the same time, the aesthetics and design of game culture have been applied to tools and entertainment phenomena that are not technically games. The result is a blurring of the lines between games and other forms of communication, and the creation of new means of mixing information, entertainment, and communication.

### Video Games and the Social World of Sports

Video games have developed in complexity and flexibility to the point that they are providing new kinds of social interactions. This is perhaps clearest when games are compared to physical sports. Most of the abstract reasons for involvement in sports—things like teamwork, problem solving, and leadership—are also reasons to play video games that allow online team interaction. Sports are often portrayed as a social platform where people can learn new skills. Amateur sports teams provide an important means of socialization and communication for many people, allowing individuals from different gender, ethnic, and class backgrounds to find a common forum for communication. Video games have similar capacities; players who engage in online team battles must communicate with one another effectively and learn to collectively solve problems. In fact, video games could arguably provide a more inclusive platform for

Figure 10.10



*Team video games can provide many of the benefits of physical sports.*

*Image used by permission. © 2011 Blizzard Entertainment, Inc.*

socializing because they do not exclude most socially or physically challenged individuals. The social platform of online games is certainly no utopia, as competitive endeavors of any sort inevitably create opportunities for negative communication, but it allows people of different genders, races, and nationalities to play on equal footing, a feat that is difficult, if not impossible, in the physical realm.

### Virtual Worlds and Societal Interaction

Massively multiplayer online role-playing games (MMORPGs) such as *World of Warcraft*, *EverQuest*, and *EVE Online* allow for an unprecedented variety of goals to be pursued. According to one study on online communities,

[t]hat means games are no longer meant to be a solitary activity played by a single individual. Instead, the player is expected to join a virtual community that is parallel with the physical world, in which societal, cultural, and economical systems arise. Panayiotis Zaphiris, Chee Siang Ang, and Andrew Laghos, "Online Communities," in *The Human-Computer Interaction Handbook: Fundamentals, Evolving Technologies, and Emerging Applications*, ed. Andrew Sears and Julie Jacko (New York: Taylor & Francis Group, 2008), 607.

MMORPGs can function as a kind of hybrid of social media and video games in this respect. In some instances, these games could function entirely as social media, and not as games. Consider a player who has no desire to achieve any of the prescribed goals of a game, such as going on quests or accomplishing tasks. This individual could simply walk around in social areas and talk to new people. Is the player still playing a game at this point, or has the game turned into a type of social media?

**Virtual worlds**<sup>19</sup> such as *Second Life*<sup>20</sup> are good examples of the thin line between games and social media. In this virtual world, users create avatars to represent themselves. They can then explore the world and take part in the culture that characterizes it. The *Second Life* website FAQ (frequently asked questions) tries to illustrate the differences between a virtual world and a video game:

While the *Second Life* interface and display are similar to most popular massively multiplayer online role playing games (or MMORPGs), there are two key, unique differences:

19. A digitized space in which an online community can interact.

20. A virtual world in which users create avatars and participate in an online community.

**Creativity:** The *Second Life* virtual world provides almost unlimited freedom to its Residents. This world really is whatever you make it. If you want to hang out with your friends in a garden or nightclub, you can. If you want to go shopping or fight



dragons, you can. If you want to start a business, create a game or build a skyscraper you can. It's up to you.

**Ownership:** Instead of paying a monthly subscription fee, Residents can start a Basic account for FREE. Additional Basic accounts cost a one-time flat fee of just \$9.95. If you choose to get land to live, work and build on, you pay a monthly lease fee based on the amount of land you have. You also own anything you create—Residents retain intellectual property rights over their in-world creations. Second Life, “Frequently Asked Questions: Is Second Life a game?” <http://secondlife.com/whatis/faq.php#02>.

Virtual worlds may differ from traditional video games in key ways, but these differences will likely be further blurred as games develop. Regardless of the way these worlds are classified, they are based heavily on the aesthetics and design of video games.

Virtual worlds are societies in which communication can be expanded to relay information in ways that cannot be done with other forms of media. Universities have set up virtual classrooms in *Second Life* that employ techniques for teaching that are otherwise impossible. Curriculum can be set up to take advantage of the virtual world's creative capacity. Stacy Kluge and Liz Riley, “Teaching in Virtual Worlds: Issues and Challenges,” *Issues in Informing Science and Information Technology* 5 (2008): 128. For example, a class on architecture could lead students through a three-dimensional recreation of a Gothic cathedral, a history class could rely on an interactive battlefield simulation to explain the mechanics of a famous battle, or a physics class could use simulations to demonstrate important principles.

Virtual worlds have been used to relay new kinds of information as well. In 2007, specialists developed virtual-reality simulations to help patients with Asperger's syndrome navigate through social situations. Individuals with Asperger's syndrome have difficulty recognizing nonverbal cues and adapting to change. The simulations allowed these patients to create avatars that then played out social situations such as job interviews. The simulations could be adjusted to allow for more complicated interactions, and the users could replay their own performances to better understand the simulation. “Avatars Help Asperger Syndrome Patients Learn to Play the Game of Life,” news release, University of Texas at Dallas News Center, November 18, 2007, <http://www.utdallas.edu/news/2007/11/18-003.html>.

Figure 10.11



Virtual classrooms have been used in *Second Life* as new teaching tools.

The creation of avatars and the ability to replay scenes until the user improves performance is a direct influence of video games.

## Social Media and Games

Social media outlets such as Facebook have also used video games to expand their communication platforms. **FarmVille**<sup>21</sup>, a game in which players plant, harvest, and sell crops and expand their farm plots with the profits, is integrated with Facebook so that all users can connect with their real-life friends in the game. The game adds another aspect of communication—one centered on competition, strategy, and the aesthetics of game-play—to the Facebook platform. In 2010, *FarmVille* had 80 million users, an unprecedented number of people playing a single game. Other games for Facebook include *Lexulous* (formerly *Scrabulous*), a game that mimicked the board game *Scrabble* closely enough that it had to be changed, and *Pet Society*, a game that allows users to raise virtual animals as pets. These games are unique in their demographic scope; they seek to engage literally anyone. By coupling games with social media sites, game designers have pushed the influence of video games to unprecedented levels. Tim Walker, “Welcome to FarmVille: Population 80 million,” *Independent* (London), February 22, 2010, <http://www.independent.co.uk/life-style/gadgets-and-tech/features/welcome-to-farmville-population-80-million-1906260.html>.

Figure 10.12



*FarmVille* is integrated with Facebook and lets players grow and harvest crops to expand their farms.

Due to the increasing popularity of video games, many social networking websites have emerged in recent years that target hard-core gamers and casual gamers alike. The website [GamingPassions.com](http://www.gamingpassions.com) describes itself as a “free online dating and social networking site for the Video Gaming community” that “allows you to meet other video game lovers who ‘get it.’” Gaming Passions, “Welcome to Gaming Passions,” <http://www.gamingpassions.com/>. Others, such as DateCraft, target players who share a love of specific games, such as *World of Warcraft*. These websites allow players to socialize outside of the confines of a video game and provide a way for fans of any game to connect. Guy Fawkes, “Online Dating for Video Gamers,” Associated Content, March 19, 2010, [http://www.associatedcontent.com/article/2806686/online\\_dating\\_for\\_video\\_game\\_players.html?cat=41](http://www.associatedcontent.com/article/2806686/online_dating_for_video_game_players.html?cat=41).

## Mobile Phones and Gaming

The maker of *FarmVille*, a company called Zynga, has released a number of social networking games that can be played via Internet-enabled mobile phones. *Mafia*

21. A game that interacts with the social platform Facebook, in which players grow, harvest, and profit from farming.

*Wars*, a simulated version of organized crime that originated as an online game, lets users manage their money and complete jobs from their mobile phones. This innovation is only a change of platform from the computer to the phone, but it promises to make gaming a common means of social interaction.

Phones are used to communicate directly with another person, whether through text messages, Facebook posts, or phone calls. Adding games to phones creates a new language that people can use to communicate with each other. One can imagine the ways in which a spat between friends or a couple hooking up could be communicated through this medium. During the week of Valentine's Day in 2010, the creators of *FarmVille* reported that users sent more than 500 million copies of virtual gifts to each other. Mathew Ingram, "Farmville Users Send 500M Valentines in 48 Hours," GigaOM, February 10, 2010, <http://gigaom.com/2010/02/10/farmville-users-send-500m-valentines-in-48-hours/>. Competition, aggression, hostility, as well as generosity and general friendliness are given new means of expression with the addition of video games to the mobile platform.

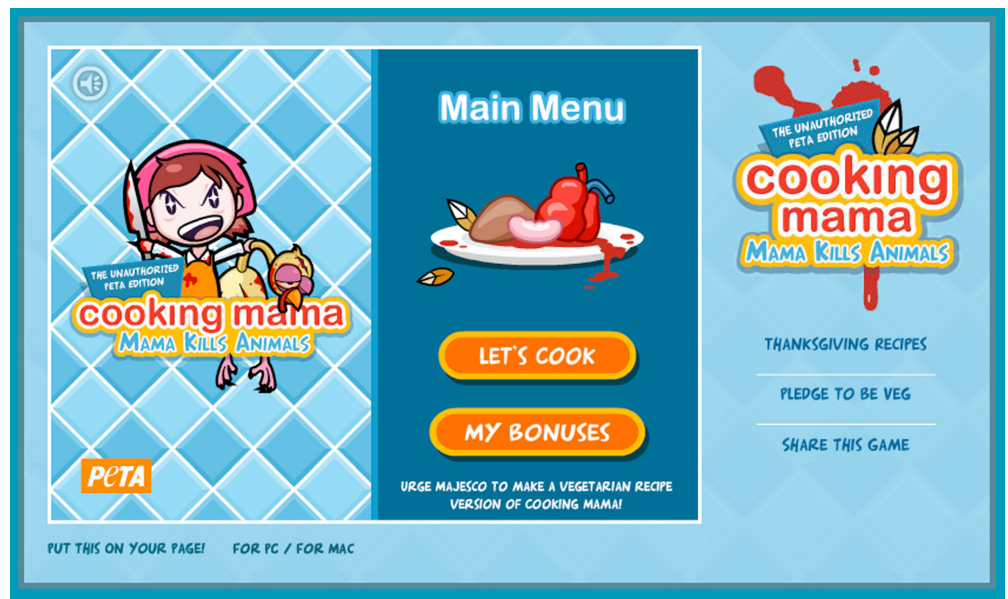
### Video Games and Their Messages

An important genre of games is often overlooked when focusing on the overall history and effect of video games. These games are created to get a specific point across to the player, and are generally low-budget efforts by individuals or small groups. The group Molleindustria puts out a host of these games, including *Oligarchy*, a game in which the player is an oil-drilling business executive who pursues corruption to gain profits, or *Faith Fighter*, in which religious icons fight each other. Molle Industria, <http://www.molleindustria.org/en/home>. *Downing Street Fighter* is a similar game, designed as a satirical representation of the United Kingdom's 2010 elections. Zain Verjee, "Will There Be a Knockout Blow?" *CNN*, May 3, 2010, <http://ukelection.blogs.cnn.com/2010/05/03/will-there-be-a-knock-out-blow/>.

Other games in this genre include a great deal of content that informs players about current events. One example is *Cutthroat Capitalism*, where users play the part of Somali pirates who are carrying out kidnapping and piracy missions. The player must weigh the risks and rewards of their exploits given a variety of economic factors. Scott Carney, "An Economic Analysis of the Somali Pirate Business Model," *Wired*, July 13, 2009, [http://www.wired.com/politics/security/magazine/17-07/ff\\_somali\\_pirates](http://www.wired.com/politics/security/magazine/17-07/ff_somali_pirates). This game allows players to understand the forces at work behind international phenomena such as piracy. Other games include the *Redistricting Game*, a game aimed at encouraging congressional redistricting reform, and *Planet Green Game*, in which players find ways to conserve energy. William McGeeveran, "Video Games With a Message," *Info/Law* (blog), June 18, 2007, <http://blogs.law.harvard.edu/infolaw/2007/06/18/video-games-with-a-message/>.

These games' publishers have used their medium to transmit information in new ways. Political satire in the medium of the video game allows the player to, in effect, play a satirical joke to its logical conclusion, exploring the entire scope of the joke. Advocacy games engage players with an interactive political message, rather than sending out traditional media ads. Mainstream groups such as PETA have also turned to video games to convey messages. During the 2008 Thanksgiving season, the animal-rights group released a parody of the popular *Cooking Mama* games to demonstrate the cruelty of eating meat. Alexander Sliwinski, "PETA Parody Grills Cooking Mama," *Joystiq*, November 17 2008, <http://www.joystiq.com/2008/11/17/peta-parody-grills-cooking-mama/>.

Figure 10.13



The unauthorized PETA edition of *Cooking Mama* tackles the issue of animal cruelty.

Although games of this type are not in a league with game series like *Halo*—either in design or in popularity—they are pushing the boundaries of the video game as a form of media. Political pamphlets were a major source of information and political discourse during the American Revolution. Video games may well come to serve a similar informational function.

### KEY TAKEAWAYS

- Team-oriented video games have allowed new groups to learn skills similar to those learned in physical sports. Team building, competition, and problem solving are all major components of playing on a virtual team.
- Virtual worlds, though not video games in themselves, use the design and principles of video games to create new social spaces. These spaces are being used to create new social platforms and new ways of communicating complex ideas.
- Video games have been added to social networking sites to expand the ways in which people can communicate with each other. The medium of the game allows players to interact with their friends in new ways.

### EXERCISES

Several examples of the ways in which virtual worlds could be used for education were mentioned in this section.

1. Think of ways in which this course could be taught in a virtual world. What advantages would this kind of teaching bring to a course like this?
2. What disadvantages does it carry with it?

## END-OF-CHAPTER ASSESSMENTS

### Review Questions

1. Questions for Section 10.1 "The Evolution of Electronic Games"

1. Identify the companies that headed the video game industry in the 1970s, '80s, '90s, and 2000s.
2. Name three important innovations in video games that appealed to new audiences.
3. Name three technologies that were fundamental to the evolution of video games.
4. Explain the importance of the Internet in the evolution of video games.

2. Questions for Section 10.2 "Influential Contemporary Games"

1. Name three of the games listed in this section and explain how they were innovative.
2. Explain how *World of Warcraft* expanded the video game as a form of media.
3. How are the latest trends in video games expanding the video game?
4. Compare music releases on *Guitar Hero* or *Rock Band* with traditional music releases such as MP3s or physical albums. What are the advantages and disadvantages of these forms?

3. Questions for Section 10.3 "The Impact of Video Games on Culture"

1. Describe some of the aesthetics and ideas of gaming culture.
2. Pick a type of media, such as film or books, and analyze the ways that video games have affected it.
3. Describe one response of mainstream culture to the influence of video games.

4. Questions for Section 10.4 "Controversial Issues"

1. Summarize the points in the public debate over video game violence.

2. When do you think video game use becomes an addiction?
  3. Name one way that the controversy over video game violence could be addressed.
  4. Explain the ways in which video game and movie ratings differ.
5. Questions for Section 10.5 "Blurring the Boundaries Between Video Games, Information, Entertainment, and Communication"
1. Give an example of the ways in which video games have allowed people to experience new things.
  2. Give an example of the ways in which virtual worlds can be used in education.
  3. Compare games that advocate political messages with other forms of political persuasion.

### CRITICAL THINKING QUESTIONS

1. How has youth culture been influenced and even manipulated by the makers of video games?
2. How have video games influenced your communication or learning?
3. Should video games be rated in a different way than movies? Explain your answer.
4. What are the limitations of video games when compared to other forms of media?
5. Do you think the overall influence of video games on culture has been positive or negative? Explain your answer.

## CAREER CONNECTION

Video games are a growing industry, and the budgets to create them are increasing every year. Video games require large production teams. The following jobs are important aspects of video game production:

- Game developer
- Art director
- Programmer
- Sound designer
- Producer
- Game tester
- Animator

Choose one of the jobs listed here or find a different job associated with the games industry and research the requirements for it online. When you have researched your job, answer the following questions:

1. What made you choose this job?
2. What strengths do you have that would help you excel at this job?
3. List the steps that you would take if you were to pursue this job.