# Evolution of Multiplayer

Inventing new ways to play together

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# History of Multiplayer

Non-Networked Multiplayer Games

## History of Multiplayer 70's Arcade Games

Early games, consisting up to 2 players alternating turns.

Computer Space (1971) - the first commercially released video game.

#### Computer Space



# History of Multiplayer 70's Arcade Games



Pong (1972) - the first successful commercially released video game.

Multiplayer gaming has been born!

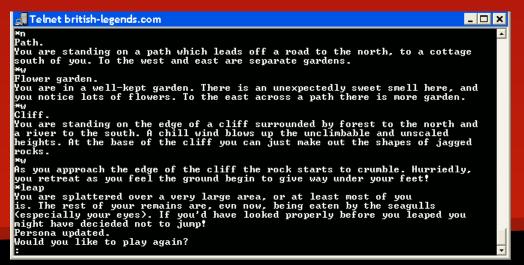
## History of Multiplayer Golden Age

1 to 2 player games (alternating turns)

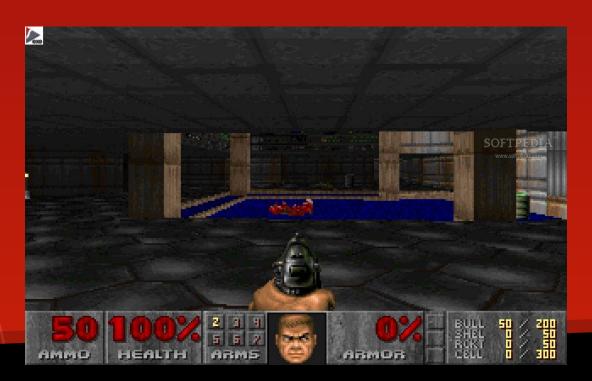


Space Invaders (1978)
Asteroids (1979)
Pac-Man (1980)

Island of Kesmai (1985) - It is considered a major forerunner of modern MMORPGs. This game became available in 1985 for \$12.00 per hour via the CompuServe online service and supported up to one hundred players.



Doom (1993) - considered as one of the pioneering first-person shooter series. Supported by LAN up to 4 players.



Warcraft (1994) -Introduced multiplayer facilities were essential for future RTS titles.

Allows two players to compete in multiplayer contests by modem or local networks.





#### The Lost Vikings -

The player controls three different characters (only one at any given time), and must make use of their individual abilities and work as a team to solve puzzles and progress.

Golden Eye (1997)



The multiplayer mode allows two, three, or four players to compete against each other in five different types of split screen death-match games.



Games are up to 4 players simultaneously.















# Seamless Multiplayer

#### Seamless Multiplayer What is it?

- Players can jump in and out of other player's worlds, playing as an NPC.
- Some games use persistent worlds, that is shared by all players.
- Other games have players always able to interact with each other without being NPCs.

#### Seamless Multiplayer Examples



Watch Dogs Play as NPCs



Journey
Encounter other players
while online

#### Seamless Multiplayer Example



Destiny

Persistent, shared world that is shared by all online players

## Seamless Multiplayer Watch\_Dogs



- Players are able to jump into other worlds and play as NPCs.
- This causes the main player to never know if the NPC is an Al or other player.

#### Seamless Multiplayer Journey



- Players can encounter others while playing through their single player game.
- Players cannot communicate with each other, but are allowed to assist each other.

#### Seamless Multiplayer Destiny



- Players are in a shared world that persists even when they are not playing.
- They have the ability to play with or without others by joining up and carrying out missions together.

## Why Seamless Multiplayer?

- The option to play with others has always been appealing, as evident with co-op and online multiplayer.
- Seamless multiplayer is like co-op campaigning or versus mode whenever you want, without switching out of single player mode.
- The ability to jump right in gives players more options and opportunities to play with others.

## Winless Multiplayer

#### Winless Multiplayer What is it?

No possible way to win the game.

Players fight together to survive.

Once all players have died, the game ends

#### Winless Multiplayer Examples



Call of Duty: Zombies Mode Endless Waves of Zombies

#### Winless Multiplayer Examples



Halo 3: ODST - Firefight Mode Winless Sets of Enemies

## Winless Multiplayer Zombies Mode

Players work together to fight waves of zombies.





### Winless Multiplayer Firefight Mode

- Players fight through endless sets of rounds of enemies.
- A new, harder set starts once all the rounds of the previous set is completed.



#### Why Winless Modes?

- The player's goal is to survive as long as they can.
- This motivates players to keep improving.
- Other goals such as obtaining new weapons or new skills motivate the players to continue playing.

## Passive Multiplayer

#### Passive Multiplayer What is it?

"Why play alone when you can play alone together?"

- Online, but not "played" online.
- Players do not interact directly
- Data is shared
- Single-Player with Multiplayer Elements

#### Passive Multiplayer 3DS StreetPass

#### Nintendo 3DS StreetPass

- Utilizes 3DS short-range communication
- Collect Data of other players you pass
- Use their character in games





### Passive Multiplayer 3DS StreetPass





#### Passive Multiplayer Examples

#### Dark Souls

Orange SoapstoneMessages

Blood Stains

http://analogaddiction.files.wordpress.com/2013/11/dark-souls-2-message.jpg http://img2.wikia.nocookie.

net/\_\_cb20131115182725/darksouls/images/8/85/Bl oodstain.jpg





#### Passive Multiplayer Examples

#### Dragon's Dogma

- Pawn System(Similar to StreetPass)
- Ur-Dragon

#### Super Mario Bros. U

- Miiverse Messages
- Ghost Players





#### Passive Multiplayer Examples

#### Need for speed: Hot Pursuit

"Autolog" Feature - Race times and event times uploaded to server, then seen by friends.

#### Kerbal Space Program

LiveFeed Passive [Mod]

Allows players to see others' current status, ship, etc. Chat interaction only.

## Goalless Multiplayer

#### Goalless Multiplayer What is it?

- Offers no goal
- Players make a goal
- Designed for players to make their own

play style

## Goalless Multiplayer Examples





#### Minecraft

**Unbounded Creativity** 

Destructible Environment

### **Animal Crossing**

**Bounded Creativity** 

Fixed Environment

## Goalless Multiplayer Animal Crossing



- Maintain your village
- Befriend animal neighbors
- Decorate and upgrade your home

## Goalless Multiplayer Multiplayer



- Everyone visits one person's village
- Can do the same things as in single player
- No real purpose aside from sharing/playing together

## Goalless Multiplayer Player-Made Goals

- Net Tag
- Bug or Fish Catching Contest
- Hide & Seek





## Goalless Multiplayer Minecraft



- Survival Game
- Find Resources, Fight Monsters, Craft
- Build and Reshape your World

## Goalless Multiplayer Multiplayer



- Everyone visits one person's world
- Can do the same things as in single player
- No real purpose aside from sharing/playing together

## Goalless Multiplayer Player-Made Goals

- Install adventure maps to play
- Maps made by others
- Similar to textbased games



## Goalless Multiplayer Player-Made Goals



8:35

## Goalless Multiplayer Designing Gameplay

- Animal Crossing added timer & hammer tools
- New Leaf added minigames
- Minecraft added creative mode



## Goalless Multiplayer Griefing

### Common among goalless multiplayer



## Goalless Multiplayer Griefing



- Players get bored
- Start ruining things

## Goalless Multiplayer Combating Griefing

- Quit Without Saving Feature
- World Backups
- Kicking/Banning
- Permissions



## Always Online

## Always Online "Feature"

Companies have advertised "Always Online" as a feature that benefits the social interactions between players.

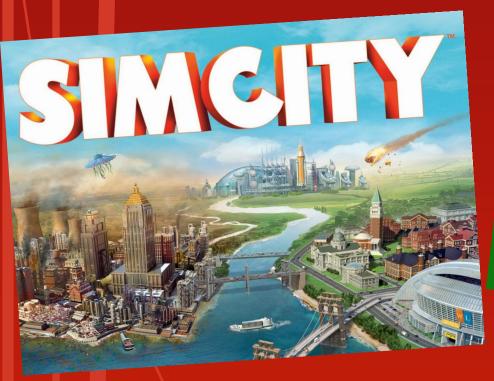
Perhaps, but it mainly just serves as lazy Digital Rights Management.

## Digital Rights Management

The game cannot be played without an internet connection.

-Verify account holder's purchase of content

## Digital Rights Management

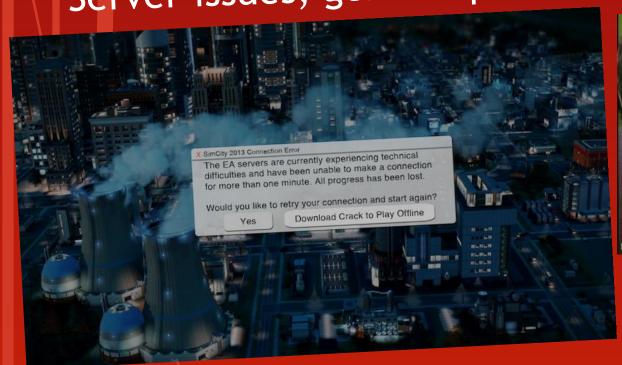




## Digital Rights Management

Problems:

Server issues, general public backlash





### Always Online

Game can persist without any online players:

This allows for Asynchronous Multiplayer

## Asynchronous Multiplayer

Players can play a game "together" without actually being online at the same time

## Asynchronous Multiplayer



One player takes a turn, then waits for another player to come online and take their turn.

## Asynchronous Multiplayer



# Asymmetrical Gameplay

## Asymmetrical Gameplay What is it?

Asymmetrical Gameplay is a form of multiplayer in video games in which multiple players can play the same game simultaneously in different ways.

Source: Wikipedia.org

### Asymmetrical Maps

-Multiplayer maps/arenas that are not symmetrical in shape and/or offer different advantages and disadvantages with player/team start positions.

### Symmetrical Maps



Derelict, Halo

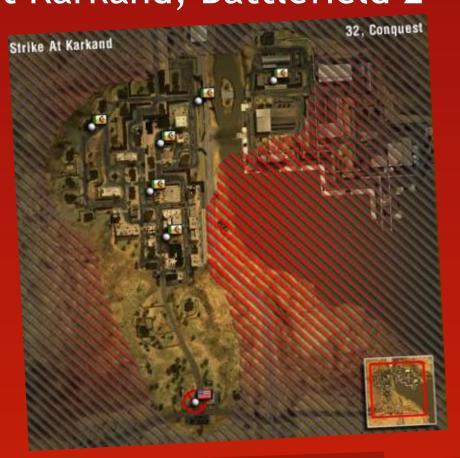


Facing Worlds, Unreal Tournament

Zanzibar, Halo 2



### Strike at Karkand, Battlefield 2



## Asymmetrical Gameplay Abilities

### Asymmetrical Abilities

-Multiplayer where players/teams have unique abilities and play styles from other players/teams.

# Asymmetrical Gameplay Abilities

Terran, Zerg, Protoss; Starcraft



# Asymmetrical Gameplay Abilities

### Champions; League of Legends



# Asymmetrical Gameplay Objectives/Goals

Asymmetrical Objectives/Goals

-Multiplayer where different
players/teams have completely
different objectives than other

players/teams.

# Asymmetrical Gameplay Objectives/Goals

### Terrorists and Counter Terrorists, Counter Strike





# Asymmetrical Gameplay Objectives/Goals

Humans and Zombies, Left 4 Dead 2



## Asymmetrical Gameplay Wii U

Wii U and Asymmetrical Gameplay

-Nintendo designed the Wii U and it's

Tablet controller specifically with

Asymmetrical Gameplay in mind.

## Asymmetrical Gameplay Wii U





VS



## Asymmetrical Gameplay Wii U

### Mario Chase, Nintendo Land



# Asymmetrical Gameplay Advantages

-More Variety

-Additional Skill / Strategy / Depth

-More closely related to the real world

# Asymmetrical Gameplay Disadvantages

- -Harder to balance competitive gameplay
- -Higher learning curve for new players
- -Additional development time/resources
- -More prone to bugs / unexpected interactions

Three major factors:

-Technology

-User Experience

-Business

#### **Technology**

- -Nintendo Wii U
- -Microsoft Smart Glass
- -Playstation Vita

#### **User Experience**

Users are growing tired of playing the same games

Increase in nonstandard multiplayer such such as Asymmetrical gameplay

#### **Technology**

Smart phones;

- -Small intervals of time
- -Sporadic internet connection

#### **User Experience**

Increase in "casual" gamers
-prefer slow paced simple
gameplay

Increase in Passive and Asynchronous multiplayer

#### **Technology**

-Current games push graphics hardware to it's limit

#### **Buisness**

- -Offline multiplayer can be played with one copy of a game
- -Easier to pirate offline games

Decrease in offline multiplayer and increase in always online games.

#### **Technology**

- -Internet speeds and percentage of users with internet access are continually increasing
- -Larger integration of internet with next generation game consoles

#### **User Experience**

- -Most Users (70%\*) do not finish single player games
- -People are social beings and in general like to experience things with others

#### **Business**

Creating single player experiences is expensive:

- -Programmers to program AI
- -Artists to create assets
- -Designers/Authors to create story

Increase in multiplayer games of all kinds including seamless, winless and goalless multiplayer.

\*According to Steam Statistics

# Evolution of Multiplayer

Inventing new ways to play together