Video and Computer Games, Part II: Games Over Time

A survey of some of the most influential and outstanding games and how games have changed over time

James Tam

Some Categories Of Video Games

- Sports
 - Fitness
- Fighting
- Music
- Simulation
- Shoot 'Em Up
- · First person shooter
- Dog fighting
- Platform

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Some Categories Of Video Games (2)

- Adventure
- Interactive fiction
- Multiplayer adventure
- Role playing
- Maze
- Trading
- Strategy
- Survival horror
- Edutainment

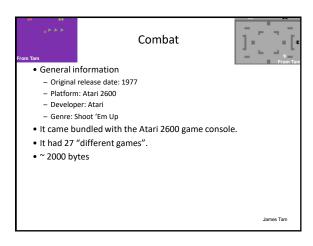
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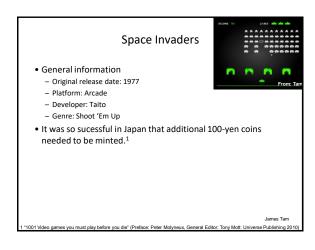
Games Of The 1970s

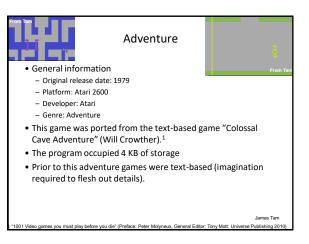
- Pong
- Combat
- Space Invaders
- Adventure
- Asteroids

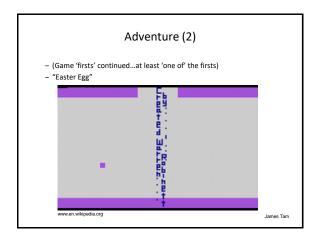
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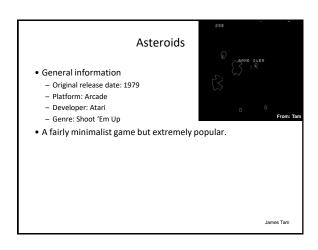
Pong General information Original release date: 1972 Platform: Various Developer: Atari Genre: Sports Started out as an arcade game that was placed in bars and game arcades. Urban legend (?)¹ First protype installed in Andy Capp's Tavern in Sunnyvale California (very quickly 'broken'). Simple game but small details matter E.g. adding just the right 'English' could affect your return serve.



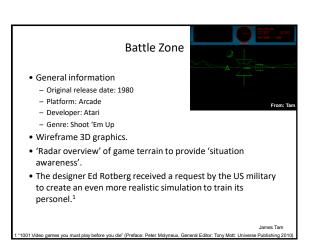


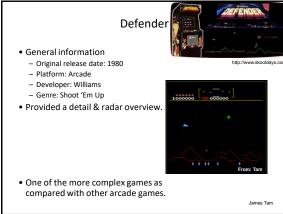


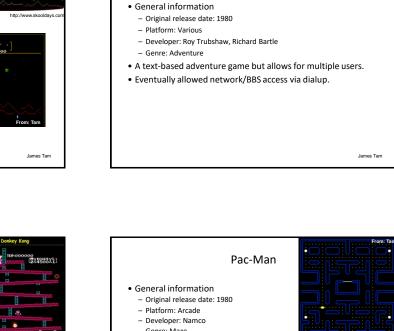








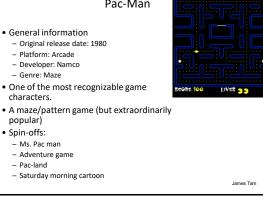




General information
Original release date: 1981
Platform: Arcade
Developer: Nintendo
Genre: Platform

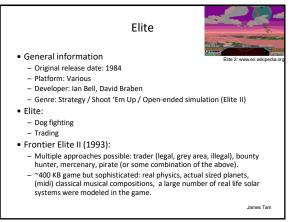
Two main characters: Donkey Kong and Jumpman¹
(later "Mario") reappeared in many spin-offs:
Mario, Super Mario, Donkey Kong country
A classic 'platform game'

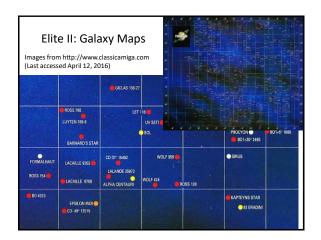
Donkey Kong



MUD (Multi User Dungeon)







Dungeon Master

- General information
 - Original release date: 1987
 - Platform: Various (Amiga, Atari)
 - Developer: FTL Games
 - Genre: Role playing
- Real-time, first person, 3D action (non-modal).
- Non-linear, open-ended.





Dungeon And Dragons Adaptations



- The premier paper and pencil role playing company: TSR (Tactical Strategic Rules)
- Collaborated with SSI (Strategic Simulations Inc.) to produce the "Gold Box" games (1980s - 1990s) that faithfully implemented almost all the rules of the complex paper and pencil game into a turn-based tactical RPG (Role Playing Game).
 - Forgotten Realms: Pool of Radiance, Curse of the Azure Bonds, Secret of the Silver Blades, Pools of Darkness.
 - Savage Frontier (external development): Gateway to the Savage Frontier, Treasures of the Savage Frontier, Neverwinter Nights (a MMORG running on AOL).
 - Dragonlance series: Champions of Krynn, Death Knights of Krynn, The Dark Queen of Krynn.

Double Dragon



- General information
 - Original release date: 1987
- Platform: Arcade (later various)
- Developer: Technos
- Genre: Fighting
- Environment can be fully 'interacted' with:
 - Using everyday objects as weapons
 - Using the opponent's objects
 - 'Friendly fire' possible
 - Precursor to ever more interactive worlds

The 'Simulation' Games (SimCity)

- General information
 - Original release date: 1989
 - Platform: Various
 - Developer: Maxis
 - Genre: Strategy simulation
- City building and management
- Periodically an occasional natural disaster thrown in for 'fun'.
- "You don't get to win at SimCity but you'll derive constant satisfaction from playing it."1
- Many other simulation games were produced by Maxis: SimCity 2000, The Sims 1 (biggest all time PC game) 2 & 3, SimLife with the same open-ended format.

Video games you must play before you die" (Preface: Peter Molyneux, General Editor: Tony Mott: U

Games Of The 1990s

- Civilization
- Alone In The Dark
- Mortal Kombat
- Myst
- Doom
- Virtua Fighter
- Hired Guns
- Beatmania
- Dungeon Keeper
- Silent Hill: Series

• Typing Of The Dead

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Loom

- General information - Original release date: 1991
 - Platform: Various
 - Developer: LucasArts
 - Genre: Adventure
- Spell craft through combinations of musical



Civilization

- General information
 - Original release date: 1991
 - Platform: PC
 - Developer: Microprose
 - Genre: Strategy simulation
- Many sequels released I-V (2010).
- An open-ended "civilization management" game.
- · Begin with a historical civilization – e.g., Roman, Mongol etc.
- · "Decision tree"
- E.g., Researching the wheel unlocks access to other technologies later.



Alone In The Dark

- General information
 - Original release date: 1992
 - Platform: Various
 - Developer: Infogames
 - Genre: Survival Horror



• Inspired by the fictional works of H.P. Lovecraft it in turn inspired a number of sequels (I – III in series) as well as influencing other games (e.g., Resident Evil).



Mortal Kombat

- General information
 - Original release date: 1992
 - Platform: Various
 - Developer: Midway
 - Genre: Fighting
- 'Photorealistic' visuals.
 - Gory graphics & super-human special abilities "Fatality!"

 - Sequel games strove to make light of the early game's gore:
 - "Friendship!"
 - "Babality"
 - Two senators Joseph Lieberman and Herb Kohl who headed a US government inquiry into "video game violence and the corruption of society" contributed to the formation of the Entertainment Software Rating Board.
 - Other games (e.g., "Postal") also influenced the senators

Image MK2?

Myst

- General information
- Original release date: 1993
- Platform: Various
- Developer: Cyan Worlds - Genre: Adventure
- · Immersive:
 - "You don't so much play Myst, as experience it." (Jeff Sengstack via GameSpot).
- Despite the success of this game and it's sequels like Riven the development house eventually shut down.

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Doom

- General information
 - Original release date: 1993
 - Platform: Various
 - Developer: id Software
 - Genre: First-Person Shooter

• Objective:

- "...shoot everything that moves and keep moving through wave after successive wave of every variety of infernal evil..."1
- It wasn't the first of the first-person shooters but one of the most popular:
 - Inspired a number of other first person shooters e.g., Halo, Call Duty, Resistance, Far Cry, BioShock, Battlefield 1942 etc.



Virtua Fighter

- General information
 - Original release date: 1993
 - Platform: Arcade
 - Developer: Sega
 - Genre: Fighting
- One of the first games to move to 3D graphics: fluid realistic movement (motion capture of actual martial artists).
- No super-human capabilities found in other games (Mortal Kombat, Street Fighter) since there was a focus on realism.

Hired Guns

- General information
 - Original release date: 1993
 - Platform: Various (Amiga, MS-DOS)
 - Developer: DMA Design Ltd.
 - Genre: Multiplayer adventure, first-person shooter
- A split screen mode allowed up to 4 people to play that game (in front of) a single computer!.
 - Could run on a 7.14 MHz 68000 processor! (Commodore Amiga)

Beatmania

- General information
 - Original release date: 1997
 - Platform: Arcade (and later various)
 - Developer: Konami
 - Genre: Music
- "Follow the beat"



- Lead to many other music games: DDR (Dance Dance Revolution), Guitar Freaks, Drumania.
 - Some games were even placed in US schools (combat obesity)

Dungeon Keeper



- General information
 - Original release date: 1997
 - Platform: PC
 - Developer: Bullfrog Productions
 - Genre: Strategy
- There were many adventure and RPG games that involved dungeon exploration: fight monsters, avoid traps, solve puzzles, collect treasure.
- Dungeon Keeper was a complete role reversal.
- Players designed the dungeon that adventurers would take on.

Silent Hill: Series

- General information
 - Original release date: 1999 (Silent Hill #1)
- Platform: Various
- Developer: Konami
- Genre: Survival Horror
- "...other survival horror games makes you jump..."1
- "Silent Hill was a game where the horror manifests itself in the town's oppressive and haunting atmosphere..."2
 - "Gets under your skin" (JT and various others).
 - What is actually real? Was the whole game just a hallucination???!!!
- The original game lead to several sequels.

1001 Video games you must play before you die" (Preface: Peter Molyneux, General Editor ony Mott: Universe Publishing 2010)

eplay: The history of video games" (Tristan Donovan, Yellow Ant 2010)



Typing Of The Dead

- General information
 - Original release date: 1999
 - Platform: Various
- Developer: WOW / Smilebit
- Genre: First person / Edutainment
- Modified version of the original Sega game: House of the
 - Zombie hunters carry keyboards instead of weapons.





Games Of The 2000s

- Neverwinter Nights
- WOW
- Guitar Hero
- Nintendogs
- Wii games (Fit and Sports)

Neverwinter Nights



- General information
 - Original release date: 2002
 - Platform: Various (PC, Mac)
 - Developer: BioWare
 - Genre: RPG (Role playing game)
- This 2002 version should not be confused with the older online game hosted on AOL in early 1990s.

- It included a single player campaign but it was designed for multiple players.
 - The Aurora toolset, would allow for a person to referee ("Dungeon Master") the online game (like the old paper and pencil version).

WOW (World Of WarCraft)



- General information
 - Original release date: 2004
 - Platform: Various (PC, Mac)
 - Developer: Blizzard
 - Genre: MMORPG (\underline{M} assively \underline{M} ultiplayer \underline{O} nline \underline{R} ole- \underline{P} laying \underline{G} ame).
- WOW is a spin-off of the strategy game: WarCraft.
- It wasn't the first online RPG but the designers learned from its predecessors (e.g., Ultima online, Diablo).
 - It was relatively simple to learn.
 - Player vs. player combat was more strictly controlled.
 - Monster killing ("hack and slash") were de-emphasized, 'quests' were favored (tasks / missions / jobs).

"Replay: The history of video games" (Tristan Donovan, Yellow Ant 2010)

WOW: Required Online Resources (2009)1

- 10 million subscribers world wide.
- · Technical resources:
 - 20,000 computers to run the game.
 - 13,250 copies of the game running on Blizzard's servers storing an excess of 1.3 Petabytes of data (> 1,300 TB).
- Human resources:
 - 2,396 support staff.
 - 451 (in addition to the above) staff to develop game content or to catalog historical events.

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1 "Replay: The history of video games" (Tristan Donovan, Yellow Ant 20

Guitar Hero



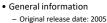
- General information
- Original release date: 2005
- Platform: Sony PS2
- Developer: Harmonix
- Genre: Music / Edutainment



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Nintendogs





- Platform: Nintendo DS
- Platform: Nintendo D
- Developer: Nintendo
- Genre: Simulation (pet raising)
- An extremely open-ended simulation: no levels, points, score or fixed goals.
- Interaction is based on touch and sound: much like a real pet.

James Tam



Wii Games

- Wii Sports
- General information
- Original release date: 2005
- Platform: Nintendo WiiDeveloper: Nintendo
- Genre: Sports
- Wii Fit
- General information
 - Original release date: 2007
 - Platform: Nintendo Wii
 - Developer: Nintendo
 - Genre: Fitness
- Many sports games have the player 'competing' abstractly because the method of interaction and control doesn't map at all to the activity (e.g., mashing buttons and moving a joystick).
- In the Wii Sports there is a more direct mapping to how the activity is played in real life vs. how the game is played.
- Often the mapping is more direct for activities that require large movements (e.g., tennis) vs. those that require more subtle motion (e.g., shooting pool).
- The contrived goal in Wii Fit however is to increase the fitness level of the player.
- E.g., "balance board" weighs the player in order to determine a starting point tames Tam

Crysis



http://crusis.trailor.on.coftonia

- General information
 - Original release date: 2007
 - Platform: PC
 - Developer: Crytek
 - Genre: First-Person Shooter
- Realistic graphics ("video realism") to mimic the human eye rather than a camera using various techniques: depth, motion and blur.
 - Required some high end hardware (graphic cards, multi-core processors etc.) but fans were willing to pay the price.

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Negative Aspects of Gaming

- Gaming addition¹:
 - It's not clear when the term was first used.
 - However popularization of games into the mainstream brought greater



South Park © Viacom

- Virtual world spilling into the real world and vice versa.
 - Virtual feuds becoming real-world feuds.
 - Not all spill over effects were always negative!
 - Buying virtual goods with real money, trying to get actual money from the virtual.
 - Gamer for hire!

1 https://www.psychiatry.org

mes Tam

Predictions: The Future Of Gaming?

 Dedicated gaming devices (hand held devices and consoles) vs. generic devices (smart phones).



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Predictions: The Future Of Gaming? (2)

Social network gaming.



James Tam

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James Tan

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James Tam

After This Section You Should Now Know

- Computer games over time
 - The major games in different time periods
 - What were their distinguishing characteristics
 - What events were tied in the development and release of the games
 - Technical requirements (wherever applicable)
 - What were sequel or spin off games
- How games and reality would spillover into each other
- Predictions of future trends in gaming

James Tam

After This Section You Should Now Know (2)

James Tan