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

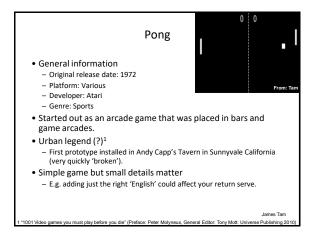
- Sports
- Fitness
- Fighting
- Music
- $\bullet \ Simulation$
- Shoot 'Em Up
- First person shooter
- Dog fighting
- Platform

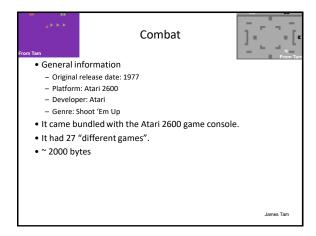
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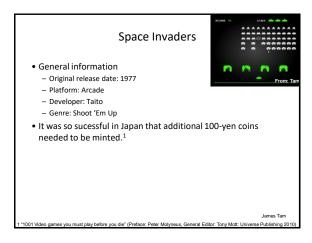
Some Categories Of Video Games (2)

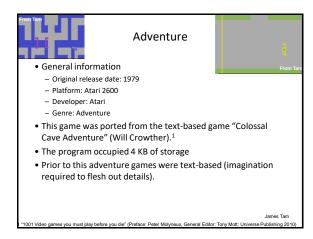
- Adventure
 - Interactive fiction
 - Multiplayer adventure
- Role playing
- Maze
- Trading
- StrategySurvival horror
- Edutainment

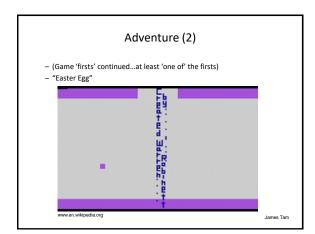
Games Of The 1970s • Pong • Combat • Space Invaders • Adventure • Asteroids











Asteroids • General information - Original release date: 1979 - Platform: Arcade - Developer: Atari - Genre: Shoot 'Em Up • A fairly minimalist game but extremely popular.

Games Of The 1980s

- Battle Zone
- Defender
- MUD (Multi User Dungeon)
- Donkey Kong
- Pac-Man
- Dragon's Lair
- Elite
- Dungeon Master
- Dungeon And Dragons Adaptations
- Double Dragon
- The 'Simulation' Games (SimCity)

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Battle Zone • General information - Original release date: 1980 - Platform: Arcade - Developer: Atari - Genre: Shoot 'Em Up • Wireframe 3D graphics. • 'Radar overview' of game terrain to provide 'situation awareness'. • The designer Ed Rotberg received a request by the US military to create an even more realistic simulation to train its personel.¹

Defender General information Original release date: 1980 Platform: Arcade Developer: Williams Genre: Shoot 'Em Up Provided a detail & radar overview. One of the more complex games as compared with other arcade games.

MUD (Multi User Dungeon)

- General information
 - Original release date: 1980
 - Platform: Various
 - Developer: Roy Trubshaw, Richard Bartle
 - Genre: Adventure
- \bullet A text-based adventure game but allows for multiple users.
- Eventually allowed network/BBS access via dialup.

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Donkey Kong 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'

Pac-Man

- General information
 - Original release date: 1980
 - Platform: Arcade
 - Developer: Namco
 - Genre: Maze
- One of the most recognizable game characters
- A maze/pattern game (but extraordinarily popular)
- Spin-offs:
 - Ms. Pac man
 - Adventure game
 - Pac-land
 - Saturday morning cartoon



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Dragon's Lair



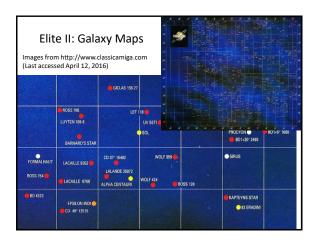
- General information
 - Original release date: 1983
 - Platform: Arcade
 - Developer: Cinematronics
 - Genre: Adventure / Interactive fiction
- Incredible cartoon-like graphics in an arcade game:
 - Laser disc.
- Much of the game is a matter of timing and/or trial and error.

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Elite



- General information
- Original release date: 1984
- Platform: Various
- Developer: Ian Bell, David Braben
- Genre: Strategy / Shoot 'Em Up / Open-ended simulation (Elite II)
- Elite:
 - Dog fighting
 - Trading
- Frontier Elite II (1993):
 - Multiple approaches possible: trader (legal, grey area, illegal), bounty hunter, mercenary, pirate (or some combination of the above).
 - ~400 KB game but sophisticated: real physics, actual sized planets, (midi) classical musical compositions, a large number of real life solar systems were modeled in the game.



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.

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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.

nages: From Tam

Double Dragon

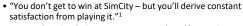


- General information
 - Original release date: 1987
 - Platform: Arcade (later various)
 - Developer: Technos
 - Genre: Fighting
- Environment can be fully 'interacted' with:
 - Using everyday objects as weapons
 - Using the opponent's objects
 - 'Friendly fire' possible
 - Precursor to ever more interactive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

The 'Simulation' Games (SimCity)

- General information
 - Original release date: 1989
 - Platform: Various
 - Developer: Maxis
 - Genre: Strategy simulation
- City building and management





• 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.

Games Of The 1990s

- Loom
- 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 notes

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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.



www.neskay

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Alone In The Dark

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



www.gnomeslair.com

- \bullet It helped launched the "Survival Horror" genre of games.
- 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



Image MK2?

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

 Socuel games
 - $\,-\,$ 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

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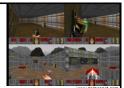
Myst



- 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 ${\sf GameSpot}).$
- 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..." $^{\rm 1}$
- 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.

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

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)

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Dungeon Keeper

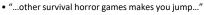


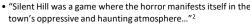
- General information
 - Original release date: 1997
 - Platform: PC
 - Developer: Bullfrog Productions
 - Genre: Strategy
- There were many adventure and RPG games that involved dungeon exploration: fight monsters, avoid traps, solve puzzles, collect treasure.
- Dungeon Keeper was a complete role reversal.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

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Silent Hill: Series

- General information
 - Original release date: 1999 (Silent Hill #1)
 - Platform: Various
 - Developer: Konami
 - Genre: Survival Horror





- "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: Tony Mott: Universe Publishing 2010)

Tristan Donovan, Vellow 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

 Doad
 - Zombie hunters carry keyboards instead of weapons.

Silent Hill 3: http://lparchive.org		
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weapons.		
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Games Of The 2000s

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

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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.

www.unsubject.wordpress.

- 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).
- \bullet 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)

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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.

Iamos Tar

1 "Deeless The history of sides annual" (Triaton Deesses Valley, Act 2010

Guitar Hero



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



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Nintendogs



- General information
- Original release date: 2005
- Platform: Nintendo DS
- 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.



Wii Games

p://wii.ign.com

- Wii Sports
- General information
- Original release date: 2005Platform: Nintendo Wii
- Developer: Nintendo
- Genre: Sports
- Wii Fit
- General information
 - Original release date: 2007
 - Platform: Nintendo WiiDeveloper: 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.
- $\bullet~$ E.g., "balance board" weighs the player in order to determine a starting point $_{\text{lames Tam}}$

Crysis



http://examin.teniles.en.coftenin.eas

- 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 awareness of the issue.



South Park © Viacom

- \bullet 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

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.



References

- A History of Modern Computing" (Paul Ceruzzi: MIT Press 2003, Chapter 8)
- "1001 Video games you must play before you die" (Preface: Peter Molyneux, General Editor: Tony Mott: Universe Publishing 2010)
- "All your bases belong to us: How fifty years of videogame conquered pop culture" (Harold Goldberg: Three rivers press 2011)
- "The golden age of video games: birth of a multi billion dollar industry" (Roberto Dillon, Taylor and Francis Group 2011)
- "Replay: The history of video games" (Tristan Donovan, Yellow Ant 2010)

James Tan

References (2) • "The ultimate history of video games: the story behind the craze that touched our lives and changed world, from Pong to Pokemon and beyond..." (Steven L. Kent, Three rivers press 2001) • www.imdb.com (Last accessed April 3, 2012) • www.gamespot.com (Last accessed April 4, 2012) • www.mobygames.com (Last accessed April 4, 2012) 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 After This Section You Should Now Know (2)