



CH20: Games go 3D & ID Software Reshapes A Medium

- Ivan Sutherland (1965)
 - Visual Displays
 - Virtual Reality
- 3D Video Games
 - Polygon 3D visuals
 - Atari (1983) coined-operated I, Robot (David Theurer)
- 3D Graphics
 - Mathematical Equations: alter player's perspective-recalculate position & size of polygon relative to player's location in virtual world)

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- Flight Simulators led the way
- Virtuality
 - Leading Leisure
 - Intertwine virtual reality & video games
 - Design sit-down & stand-up arcades
 - Dactyl Nightmare - 4 player Arcade (separate arcades machines (\$65k))
- Id Software
 - Catacombs 3D (PC-based game) 1st Texturized map game, 1st person

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- Meanwhile.....
 - Andrew Fluegelman & Shareware
 - Commander Keen: Invasion of Vorticons
 - Three Part Game: 1st part (free) / 2nd & 3rd parts (pay)
- Paul Neurath
 - Looking Glass Studios (1982)
 - Theory into Games
- Chris Green

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- Chris Green
 - 3D Graphics Engine
 - Neurah told Remero
- John Carmack
 - Created Id's 3D Graphics Engine
 - Catacomb 3-D
 - Wolfenstein 3D (improved 3D GE)
- Bombshell
 - Id licenses the 3D technology to others
 - Doom (1993)



CH 21: The Playstation & Girl Gaming

- Secret Project (1989-1991)
 - Sony & Nintendo
 - CD-ROM
 - Broken alliance
- Nintendo
 - Felt Sony was using the project to get into the game business
- Ken Kutaragi (Sony, 1991)
 - Get Sony into games
 - CD + 3D

CH 21:

The PlayStation & Girl Gaming

- Ken Kutaragi (Sony, 1991)
 - Get Sony into games
 - CD + 3D
- Trip Hawkins
 - Against dominance & power of console industry
 - Cartridge systems and restrictive licenses
- 3DO System
 - Advance the game industry
 - Graphics, storage, multimedia, liberal licensing
 - Open and democratic licenses
- Panasonic 3DO: did not fair to well
 - \$699.95
 - Developers went to the competitors
 - Sony on the rise

CH 21:

The PlayStation & Girl Gaming

- Sega: prove the 3D technology can work
- Sony: capitalized 3D technology
- Sega slipped: Couldn't match Sony's \$2 billion dollar market
- Girl Power (1997)
 - Purple Moon
- Tomb Raider
 - Heath Smith: Sega 1st, then Sony
 - Sony won


CH 21: The PlayStation & Girl Gaming

- Tomb Raider



CH 21: The PlayStation & Girl Gaming

- Nintendo
 - 3D graphics
 - Cartridge-based
- Sony
 - Capitalized again
 - Final Fantasy Series



CH 21: The PlayStation & Girl Gaming

- Final Fantasy