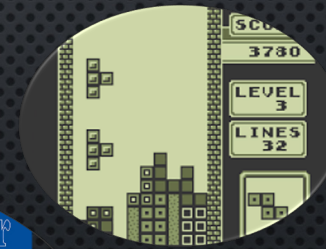




# A BRIEF HISTORY OF COMPUTER GAMES



PART 1



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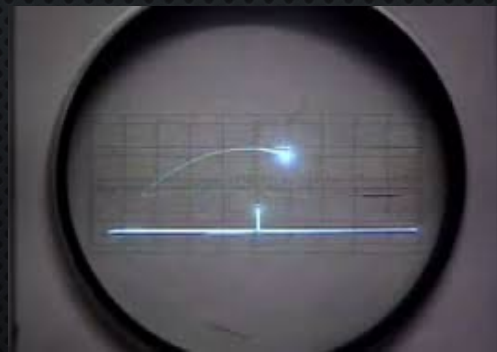
- CATEGORIZATION OF CHANGES
- CHRONOLOGIC REVIEW 1950-2009
- SUMMARY

# CATEGORIZATION OF CHANGES

- CHANGES IN HARDWARE FOR PLAYING GAMES
- CHANGES IN INTERACTION DEVICES
- CHANGES IN THE SOFTWARE DEVELOPMENT TOOLS
- CHANGES IN THE GAME BUSINESS
- CHANGES IN THE DEMOGRAPHICS OF THE PLAYERS
- DIVERSIFICATION
- CHANGES IN THE DESIGN OF GAMES

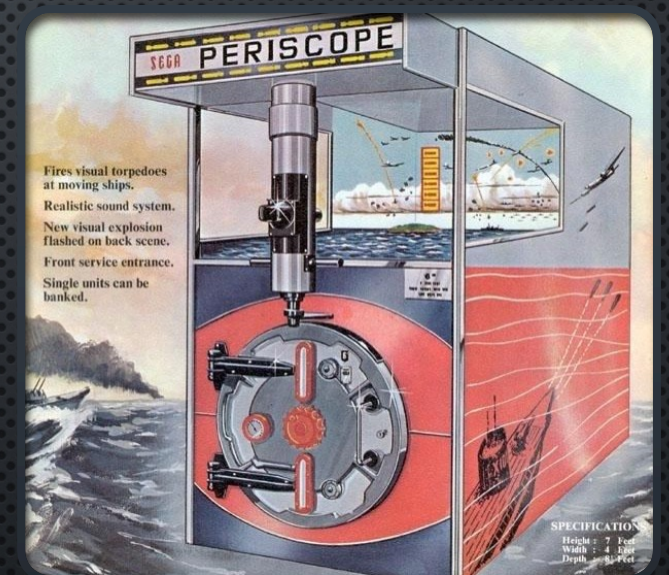
# 1950-1959

- FIRST GAME IN THE WORLD: OXO
- CONSIDERED BY MOST TO BE FIRST: TENNIS FOR TWO
- REQUIRED A LOT OF EQUIPMENT



1960-1969

- SPACEWAR! DEVELOPED BY STUDENT AT SCHOOL COMPUTER
- FIRST ARCADE GAME: PERISCOPE





## 1970-1979

- THE GOLDEN AGE OF ARCADE GAMING
  - ARCADE GAMES WERE EXPENSIVE
  - PONG, BREAKOUT, SPACE INVADERS,
- 1978 FIRST COLOR ARCADE GAMES
- FIRST HOME CONSOLES
  - LIMITED IN HARDWARE
  - IN THE BEGINNING, HARD PROGRAMMED GAME
  - 1976 CARTRIDGES
- ATARI VCS SYSTEM (CONSOLE)
  - BETTER HARDWARE
  - DIDN'T SELL BEFORE BUNDLED WITH SPACE INVADERS
    - GAME MORE IMPORTANT THAN HARDWARE

# 1980-1989



- GAME PRODUCTION INCREASED
  - DONKEY KONG, MARIO BROS., DRAGON'S LAIR, KING'QUEST, THE LEGEND OF ZELDA, METROID, MEGA MAN, FINAL FANTASY, METAL GEAR, ETC.
- PAC-MAN
- GAME CONSOLE MARKET CRASH
  - MANY NEW BUSINESSES CREATING GAMES AND CONSOLES
  - GAME COMPUTERS
  - ATARI E.T. WORST GAME EVER!
  - PRODUCTION MOVED FROM US TO JAPAN
  - NEW BUSINESSES JOINED: NINTENDO

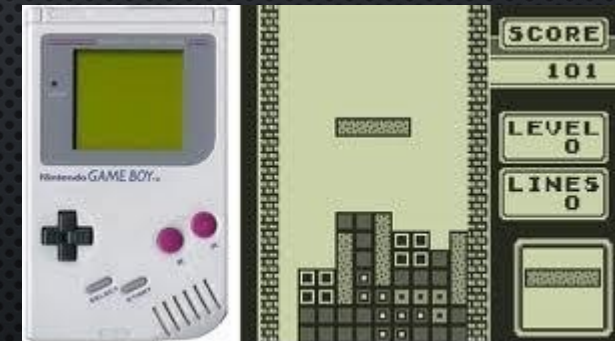


# 1980-1989



- NES AND SUPER MARIO BROTHERS
  - NES WAS WEAKER THAN THE COMPETITION, BUT THE GAMES WERE BETTER
    - GAMES MATTER, NOT THE SPECS

- FIRST HANDHELD GAMING DEVICE
  - GAME BOY
    - TETRIS





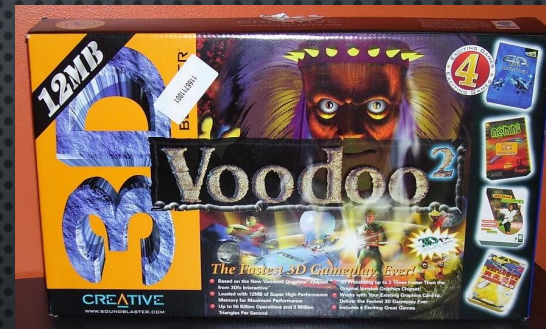
# 1990-1999

- MASSIVE INCREASE IN POWER OF THE GAME CONSOLES
  - ARCADE GAMES POPULARITY DECLINED AS NO LONGER SUPERIOR
- SEGA GENESIS, NINTENDO SUPER NES
- NEXT GENERATION: SATURN, N64, PLAYSTATION
  - 32- OR 64-BIT PROCESSORS
  - 2-4 MB RAM
  - BASIC 3D GRAPHICS
  - SATURN AND PLAYSTATION HAD CD DRIVES
- NINTENDO SUPPORTED 4 PLAYER GAMES



# 1990-1999

- PC GAMING BECAME MATURE
  - MORE POWERFUL THAN CONSOLES
  - MOUSE AND KEYBOARD
    - REAL TIME STRATEGY
    - SIMULATORS
  - INTERNET MODEMS
    - MMORPG
- DIFFICULT TO INSTALL GAMES
  - PLAYERS HAD COMPUTER SKILLS → GAMER IS A NERD
- DIFFICULT TO DEVELOP GAMES TO PC BECAUSE OF HARDWARE DIFFERENCES
  - EASIER WITH DIRECTX FROM WINDOWS 95
- PC GAMES WERE IN THE OFFICE/STUDY WHILE CONSOLE WAS IN LIVING ROOM
  - PC HAD DARKER GAMES
  - CONSOLE MORE FAMILY FRIENDLY



## 1990-1999

- HANDHELD DEVICES
  - GAME BOY COLOR
    - POKÉMON – RPG
    - WIDE AUDIENCE
    - RED/BLUE MADE IT SOCIAL



## 2000-2009

- DREAMCAST, PS2, XBOX, GAMECUBE
  - MODERN HARDWARE
- SEGA DROPPED OUT OF CONSOLE MARKET
- GAMECUBE
  - WORSE HARDWARE, BUT CHEAP AND 4 PLAYER
- PS2
  - COULD PLAY DVDs AND WAS CHEAPER TO BUY THAN A DVD PLAYER
  - BACKWARDS COMPATIBLE
- XBOX WAS BETTER AT MULTIPLAYER, BUT WAS TOO LATE TO THE MARKET
- DIFFICULT TO CREATE GAMES FOR CONSOLES
  - MANY DIFFERENT CONSOLES, DEMAND FOR BETTER GRAPHICS
  - BUDGET ROSE FROM 1 TO 5 MILLIONS PER GAME
  - MISSED DEADLINES AND SEVERAL WENT BANKRUPT



# 2000-2009

- MODERN CONSOLES

- XBOX 360

- VERY POWERFUL
- HALO 3 – ONLINE GAMES MADE IT VERY POPULAR
- XBOX LIVE, MARKETPLACE
- ACHIEVEMENT SYSTEM, GAMERSCORE

- PLAYSTATION 3

- POWERFUL, BLUE RAY PLAYER

- NINTENDO WII

- WAS A LOT WEAKER, AIMED AT CASUAL MARKET
- NEW WAYS OF CONTROLLING, DIDN'T EVEN SUPPORT HD, WEAK HARDWARE, BUT REVOLUTIONARY CONTROLLERS
- CHEAP, EASY TO USE
- LATER THEY RELEASED AN EXERCISE GAME WITH A BALANCING BOARD



# 2000-2009



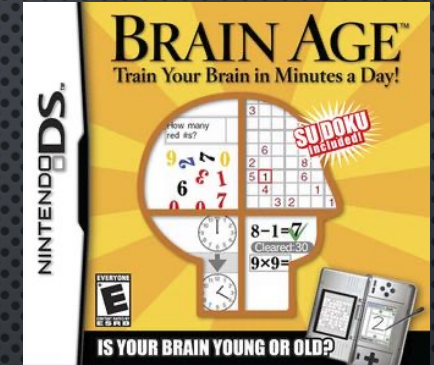
- PC

- HARDCORE GAMERS PREFERRED PC, BETTER GRAPHICS THAN CONSOLE
- EASY TO CRACK AND COPY GAMES
  - PUBLISHERS DROPPED PC GAMES OR RELEASED THEM LATER THAN CONSOLES
- THE SIMS (2000)
- CASUAL GAMES
  - MORE HOUSES HAD PCs AND HAD FAST INTERNET, SO NON-TYPICAL GAMERS STARTED PLAYING
  - EASY TO PLAY AND LEARN GAMES IN SHORT AMOUNTS OF TIME
  - FLASH, OFTEN FROM A WEBSITE
  - OFTEN FREE, MONEY FROM ADS
  - LATER, THROUGH FACEBOOK, LIKE FARMVILL



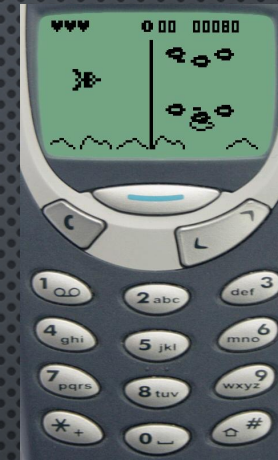
## 2000-2009

- HANDHELD DEVICES
  - NINTENDO DS
    - INTRODUCED NEW WAYS TO PLAY AND DESIGN GAMES
      - DOUBLE SCREEN, BOTTOM WAS TOUCH
      - MICROPHONE
  - NINTENDO BROADENS DEMOGRAPHICS:
    - WOMAN AND ELDER PEOPLE



# 2000-2009

- MOBILE PHONES
  - TINY SCREENS, WEAK SPECS, AND LIMITED INTERACTIONS
  - HARD TO CREATE GAMES
    - DIFFICULT INTERACTIONS
    - LOTS OF DIFFERENT PHONES
- SMARTPHONES
  - REMOVED THESE PROBLEMS
  - MORE PHONE USERS
  - MULTI-TOUCH, ACCELEROMETER
  - APP STORE – DEVELOPERS GOT 70%
    - ONE-PERSON DEVELOPER TEAMS





# SUMMARY

- MASSIVE COMPUTERS → NOW PLAYED ON CONSOLES, PCs, AND PHONES
- BASIC INTERACTIONS → TOUCH, ACCELEROMETERS, MICROPHONES
- SIMPLE ARCADE GAMES → HIGHLY COMPLEX MODERN GAMES
- VERY SIMILAR GAMES → MANY DIFFERENT TYPES OF GAMES
- NO GAME INDUSTRY → MASSIVE GAME INDUSTRY
- ETC., ETC., ETC.,