



First hardware EVER

Cathode Ray Tube Amusement Device, using analog circuits and a CRT display 1970

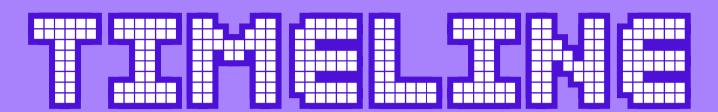
Arcade Machines & Home Consoles

Start of Arcade Era, games like Pong, PacMan, Space Invaders was created

**Personal Computer** 

Personal Computer
becomes popular
gaming platform Bloom of the Arcade
(aka 8-bit games)
They are called 8-bit
games cus the consoles
has 8MB of ram







3D Graphics & Home consoles

Nintendo introduced affordable 3D gaming with CD-ROM technology, paving the way for high-capacity storage, analog stick controls and fully 3D worlds like Super Mario 64

**GPUs and PC gaming** 

NVIDIA GeForce 256
was the first Graphic
card ever made around
that time, Xbox and PS3
brought HD graphics,
online marketplaces,
and powerful multi-core
processors.



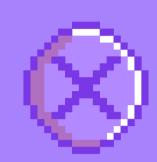
VR & AR

Virtual Reality and
Augmented Reality,
Oculus quest and
Playstation VR
Then onwards, hardware
no longer becomes the
limitation on the
development of visual &
audio aspects for video
games



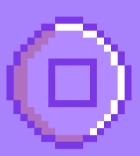
CHIP-TUNE

LINK TO VIDEO



# ORCHESTRAL MUSIC REALISTIC SOUND EFFECTS

LINK TO VIDEO

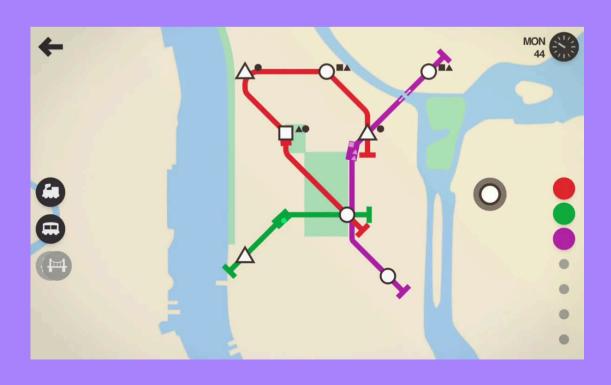


#### SPATIAL AUDIO INTERACTIVE SOUNDSCAPE

LINK TO VIDEO







### IPPET OH FRI



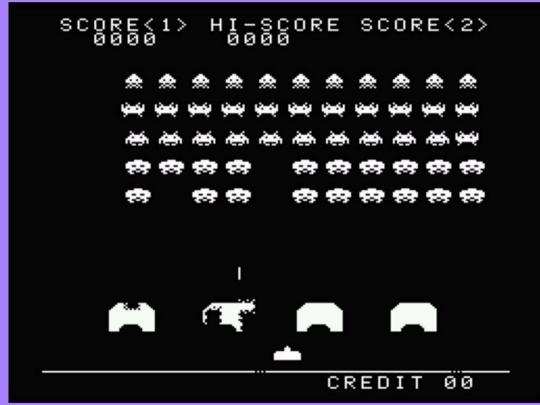
2D Pixel Art



3D Models & Photorealistic Textures



Hyper-realism & Stylised



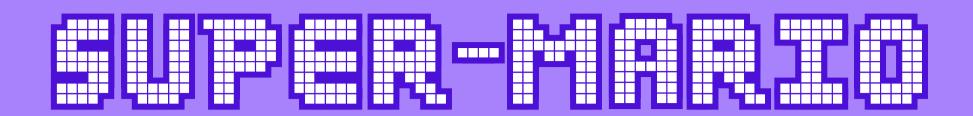


Space Invader (1978)

Red Dead Redemption 2 (2018)

Cyberpunk 2077 (2020)











SUPER MARIO BROS 1985

LINK TO VIDEO

SUPER MARIO BROS WONDER

LINK TO VIDEO

