# Metaverse and Web 3.0

An introduction to a new paradigm of internet

- It all started with Web 1.0
  - o 1990 Tim Berners-Lee's Web
    - "I just had to take the hypertext idea and connect it to the TCP and DNS ideas and—ta-da!—the World Wide Web." Tim Berners-Lee, Physicist, CERN, Switzerland.
  - Static HTML pages
    - Little or no interaction
    - Not a lot of user-generated content
    - Mostly text based
    - Lacking animations or effects.

#### **WEB 1.0**

# **Read-Only Web**



- Web 2.0 from 2004 till now
- Known as social web (Facebook, Twitter, YouTube, TikTok etc)
- It's all about creating, sharing, subscribing, and streaming content
  - Likes and comments cannot be ignored here
- More interactive:
  - content is not provided by the owner of website merely
  - o mostly generated & consumed by the end-users

### **WEB 2.0**

# The era we live in today



- Web 3.0 is the future of the Web (or at least predicted)
- Focuses on:
  - Increased Compatibility
  - Decentralized implementation of user-generated content
  - Tokenization relying on Blockchain (or similar decentralized) technology
  - Users may earn tokens to demonstrate the ownership of their content
  - More interactive

- Backed by decentralized technologies:
  - Changes are only possible by voting mechanisms of the participating members.
  - Its neither Static like Web 1.0
  - Nor reliant on Big Tech corporations like Web 2.0

**Decentralisation WEB 3.0** NFT's Change can be made Metaverse **Decentralisation** 

through voting

# Decentralization - Web 3.0?

- In today's web, the content is managed/controlled by big corporations
  - Example: Twitter disabled Trump's account
- Web 3 aims to remove these gatekeepers for a model which is:
  - Autonomous
  - User-centric
  - User-oriented ownership

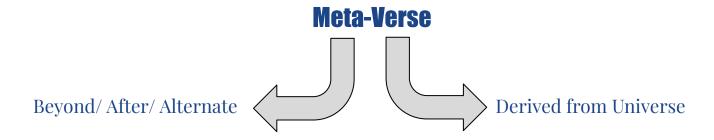
# Decentralization - Web 3.0?



# Tokenization - Web 3.0?

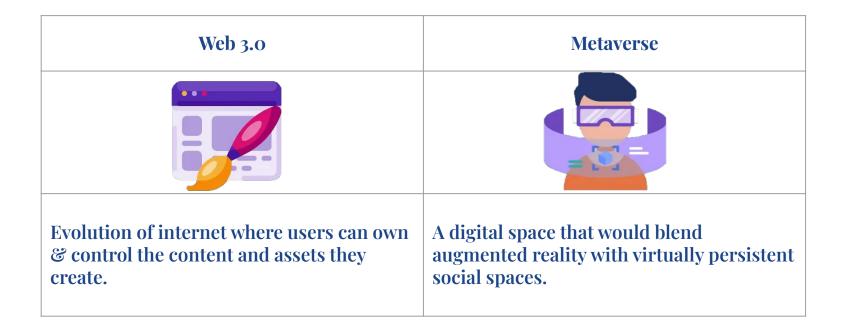
- Allows to receive network tokens
  - Based on adding value to the network
  - Reward for value addition
  - No need to get monetized on the conditions of Big Techs
- These tokens may be used as a currency in other social spaces to:
  - Buy other tokens
  - Own digital assets
  - Own physical assets (real estate may be)

#### Combination of 2 words



**Metaverse**: When used together - it means Beyond Universe, or an Alternate Universe

# Metaverse & Web 3.0

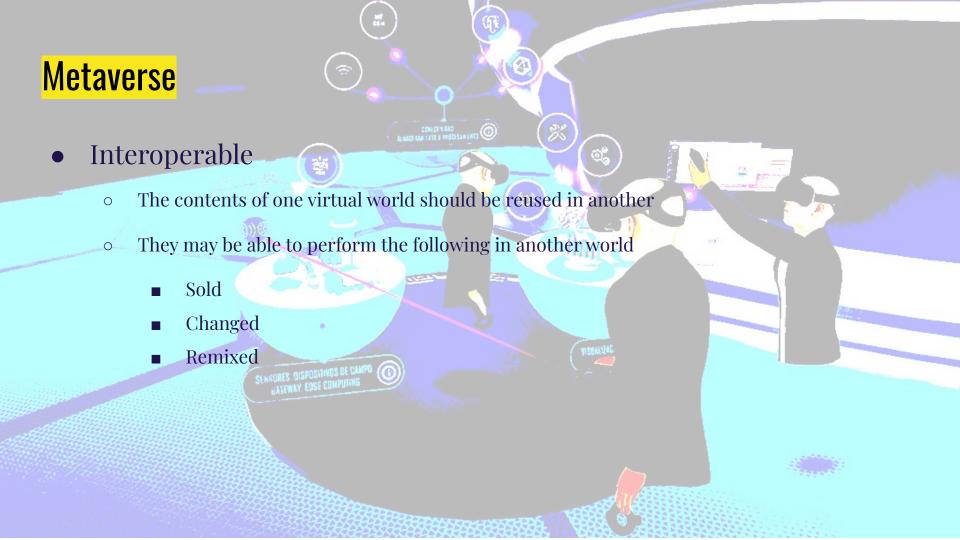


## **Metaverse - Definition**

#### An interaction of internet space with following characteristics:

- Scaleable
- Interoperable
- Real-time rendered 3D virtual worlds (or social spaces) using:
  - Virtual reality
  - Augmented reality
- Synchronous
- Persistent
- Decentralized

- Scalability
  - We are talking about virtual worlds, not just web pages
  - Often termed as social spaces, which contains a universe within itself
  - o A user should not be restricted to create the amount of content



- Real-time rendered
  - Metaverse is commonly being called as 3D internet
    - 3d objects like Avatar will be common here
  - Supported by:
    - Augmented Reality
    - Virtual Reality
- Its virtual space must be fed by continuous data

- Synchronous
  - Shared experiences among different virtual worlds is desirable
  - Interoperable virtual spaces must be synchronised for seamless user experience.
  - Also, imagine a broadcast stream of avatars using different social spaces

- Persistence
  - The worlds must remain persistent
  - For example, a wood caught fire in a game, but after 30 seconds, the wood was all green because the page rendered again for a refresh
  - The experiences must be sustained across all the users

- Decentralized
  - Token earned or transaction of assets should not be controlled by a signal governing body
  - Using smart contracts, digital assets need to be maintained
  - NFTs marketplace will hold a great share within Metaverse

## **Conclusion**



Web 1.0

"Read Only",
Decentralized



Web 2.0
Participatory,
Centralized



Web 3
No Intermediaries,
Decentralized

# **Conclusion**

