

# BlockBase – Day 1

Mentored by FEC

▶ [How do blockchains work – Blockchain Basics](#)

## BLOCKCHAIN DEMO :

Open This Website and play around! [SHA256 Hash](#)

### Hash

- **Data:** Input text field that gets hashed
- **Hash:** The resulting SHA256 output (64-character hexadecimal string)

### Block

- **Block #:** Sequential block identifier (1,2,3)
- **Nonce:** Random number (like 72608) used in mining process
- **Hash:** Unique identifier generated from block contents

### Blockchain

- **Prev:** Previous block's hash value
- **Hash:** Current block's hash value

### Distributed

- **Peer A/B:** Independent nodes maintaining blockchain copies
- **Block #, Nonce, Data, Prev, Hash:** Same components across all peers
- **Mine:** Process performed independently by each peer

▶ What is Web 3.0? (Explained with Animations)