DIFFERENCE BETWEEN POPULAR NOSQL DATABASES

NoSQL Database

NoSQL, which stand for "Not only SQL", is an alternative to traditional relational **databases** in which data is placed in tables & data schema is carefully designed before the **database** is built

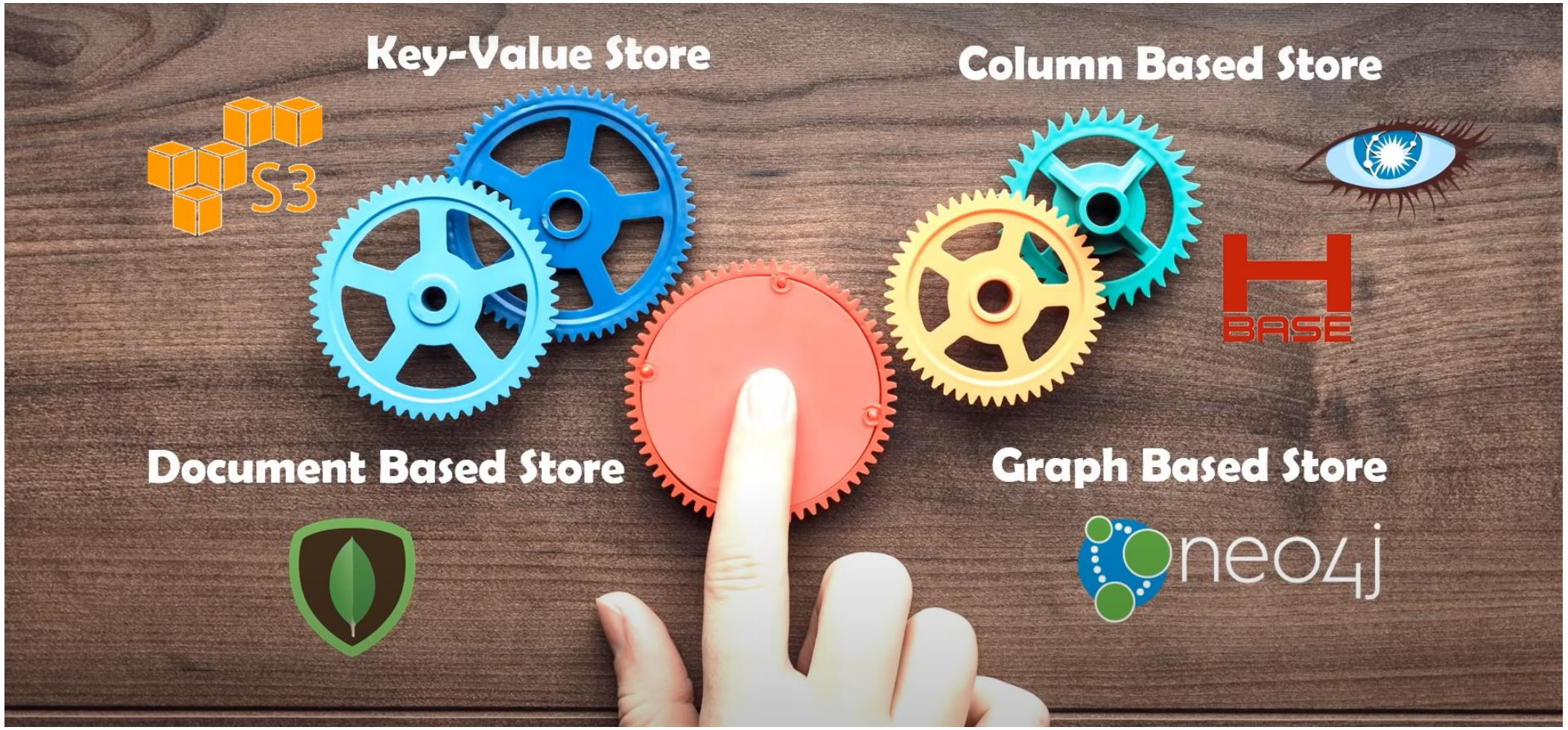
Need for NoSQL Database

Capable of running on a larger number of nodes

Non-locking Concurrency Mechanism

Scalable Replication & Distribution

Schema-less data model


Key-Value Store
S3
Column Based Store
HBASE
Document Based Store
Graph Based Store
neo4j

1. **Description**
2. Data Model
3. Implementation Language
4. Query Language
5. Performance
6. Security
7. Replication Methods
8. Competitive Advantages
9. Application Areas
10. Market Metrics

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Key Spaces

Column Family

Flexible Schema

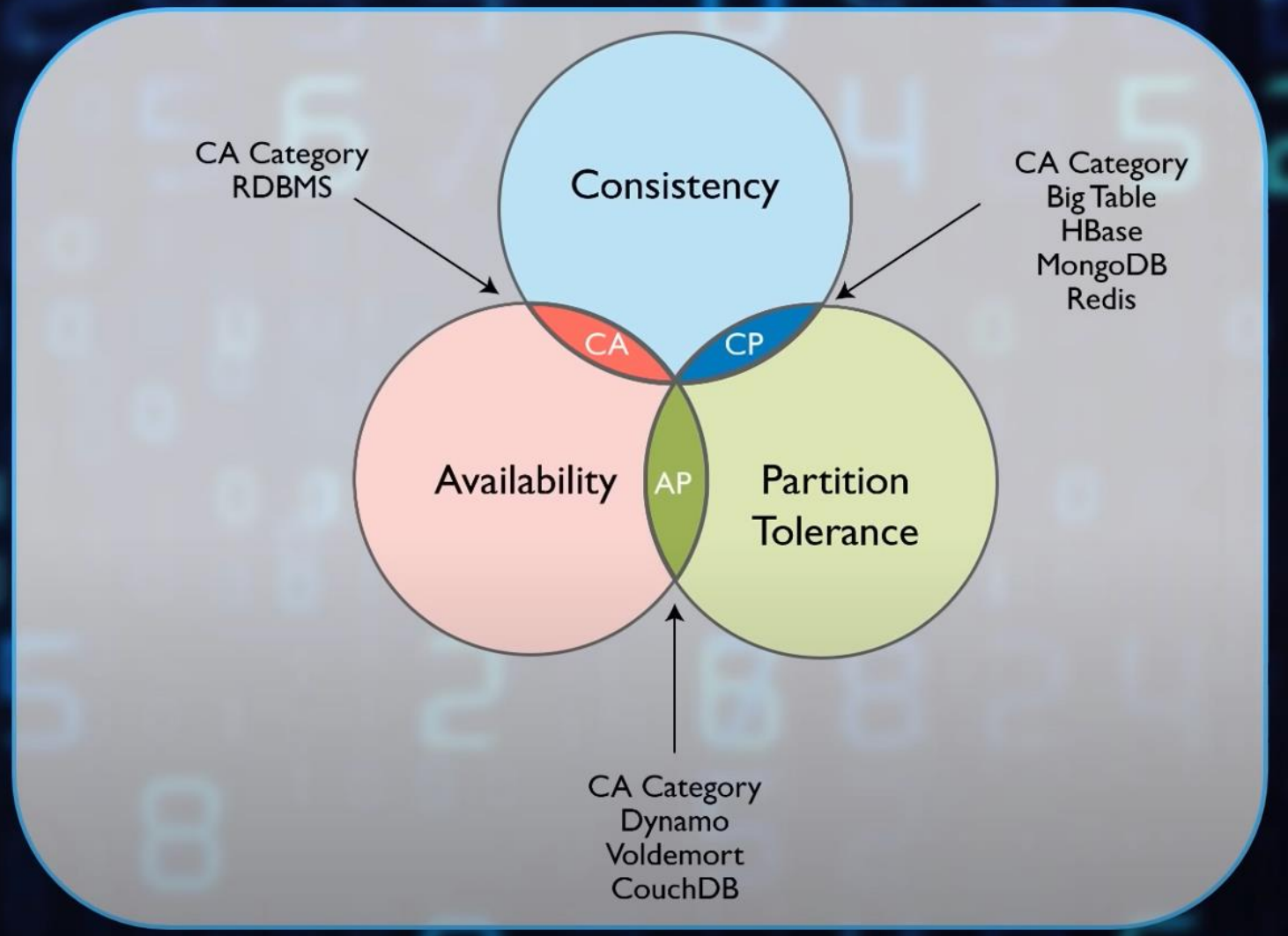
BASE

Column Oriented Database

C → Consistency

A → Availability

P → Partition Tolerance



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Comparatively better

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- *TLS/SSL Encryption*
- *Client Authentication*
- *Authorization*

- *Encryption*
- *Authentication*
- *Authorization*
- *Governance*
- *Auditing*

HBASE

- *Thrift server role*
- *Authentication*
- *Authorization*

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Selective Replication Factor

Master Slave Replication

HBASE

Selective Replication Factor

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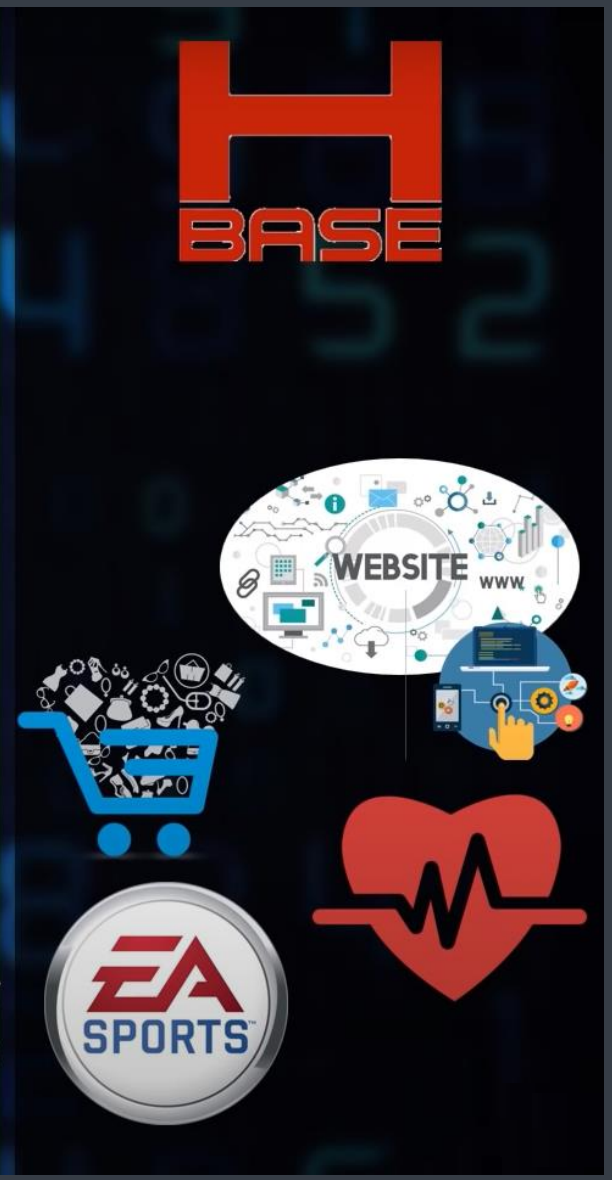

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40% of Fortune 100 companies

40 million downloads

HBASE

7% of the companies in the world