



# Introduction to MongoDB

# About MongoDB

- MongoDB is a document oriented database.
- The word Mongo is derived from Humongous.
- Developed in C++
- MongoDB is a NoSQL database
- MongoDB documents are stored in BSON
  - Binary JSON

# MongoDB History

- MongoDB was developed in 2007 by 10gen.
  - In 2013 10gen changed its name to MongoDB, Inc.
- Originally Developed as a PAAS - Platform as a Service
- In 2009 MongoDB was introduced as an Open Source Database server

# MongoDB History

- MongoDB early adopters include SourceForge, Foursquare, craigslist, and eBay
- Today MongoDB is used by many large companies. Including: MetLife, Facebook, Expedia, and Google
- At [Springframework.guru](http://Springframework.guru) MongoDB posts are very popular

# Why Use MongoDB?

- MongoDB is great for high insert systems
  - Such as sensor readings, social media systems, advertising systems
- Good when you need schema flexibility
- Can also support a high number of reads per second

# Why Avoid MongoDB?

- MongoDB has no concept of transactions.
  - No A.C.I.D.
  - No locking for transactional support, hence faster inserts
- Not good for concurrent updates.
- Lots of jokes about MongoDB losing data.

# MongoDB Terminology

RDMS	MongoDB
Database	Database
Table	Collection
Row	Document
Column	Field
Table Join	Embedded Documents
Primary Key	Primary Key
Aggregation	Aggregation Pipeline



