JONAS.IO
SCHMEDTMANN

NODE.JS, EXPRESS & MONGODB

THE COMPLETE BOOTCAMP

@JONASSCHMEDTMAN

SECTION

INTRODUCTION TO MONGODB

LECTURE

WHAT IS MONGODB?

MONGODB: AN OVERVIEW

DATABASE

COLLECTIONS

(“Tables”)

DOCUMENTS

(“Rows”)

👉 NoSQL

blog	post
users	user
reviews	review

WHAT IS MONGODB?

MONGODB

"MongoDB is a document database with the scalability and flexibility that you want with the querying and indexing that you need"

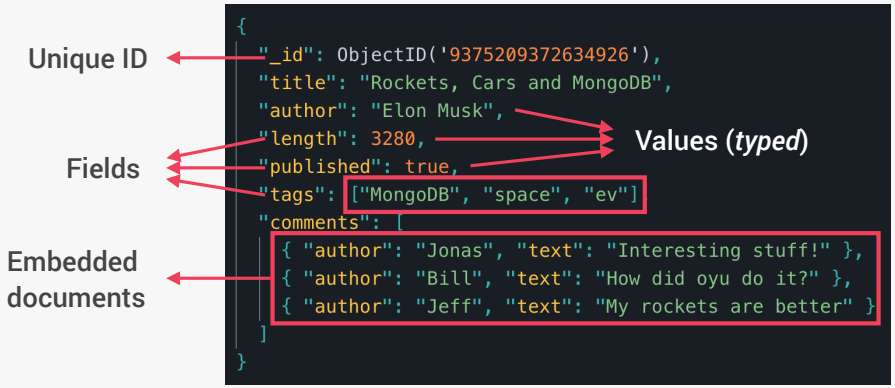
KEY MONGODB FEATURES:

- **Document based:** MongoDB stores data in documents (field-value pair data structures, NoSQL);
- **Scalable:** Very easy to distribute data across multiple machines as your users and amount of data grows;
- **Flexible:** No document data schema required, so each document can have different number and type of fields;
- **Performant:** Embedded data models, indexing, sharding, flexible documents, native duplication, etc.
- Free and open-source, published under the SSPL License.

DOCUMENTS, BSON AND EMBEDDING

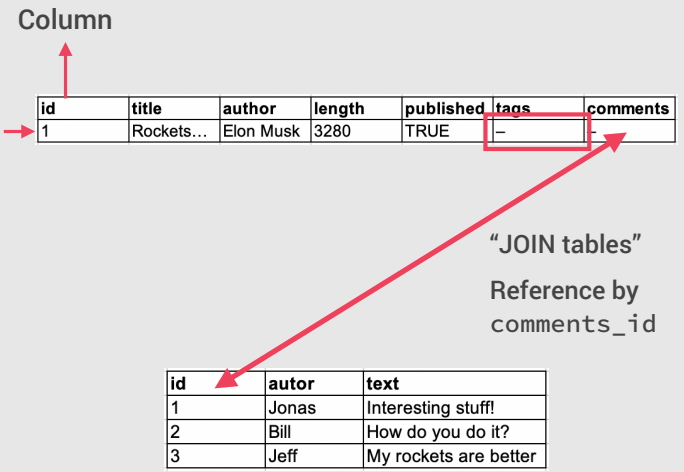
DOCUMENT STRUCTURE

👉 **BSON:** Data format MongoDB uses for data storage. Like JSON, **but typed**. So MongoDB documents are typed.



👉 **Embedding/Denormalizing:** Including related data into a single document. This allows for quicker access and easier data models (it's not always the best solution though).

RELATIONAL DATABASE



👉 **Data is always normalized**