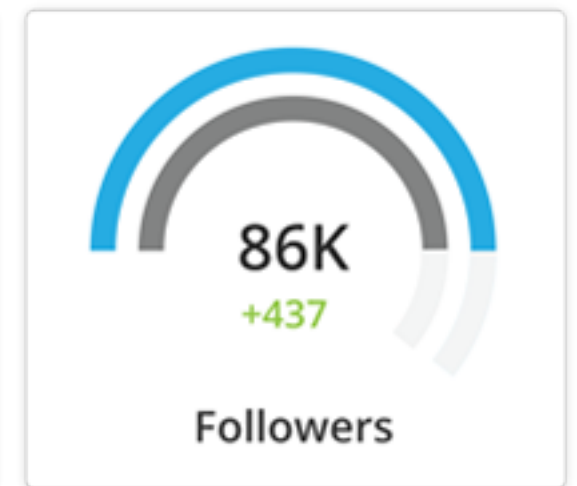


# Intro to MongoDB

CDL  
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# Hi

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# What is MongoDB?

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Let's explain each.



# Document database

- NoSQL
- schema less
- JSON
- keep same structure as in the app

# Scalability

- replication
  - same data on different nodes
- sharding
  - different data on different nodes

<https://docs.mongodb.com/manual/replication/>  
<https://docs.mongodb.com/manual/sharding/>

# Querying

- partial documents serve as queries
- complex operators
  - ranges, contains, text, is one of
- "batteries included" cursors

# Indexing

- optimize for queries that you need
- smart use of RAM
- where the magic happens
- multiple types
  - single, compound, geospatial, text, sparse

Learn by doing.  
Demo time!

# But first

- Docker <https://www.docker.com/>
- Docker-compose <https://docs.docker.com/compose/>
- HTTP APIs
- mongoengine <http://mongoengine.org/>

# Our demo

- fetch reviews from PC Garage
- detect their sentiment using an API
- store them in Mongo
- query the data