



Nominate a project for the MongoDB Innovation Awards today!



The database for modern applications

MongoDB is a general purpose, document-based, distributed database built for modern application developers and for the cloud era.

No database makes you more productive.



Try MongoDB free in the cloud!

Start free

Used by millions of developers to power the world's most innovative products and services

[View customer stories](#)



THE DOCUMENT MODEL

As a programmer, you think in objects. Now your database does too.

MongoDB is a document database, which means it stores data in JSON-like documents. We believe this is the most natural way to think about data, and is much more expressive and powerful than the traditional row/column model.

```
{
```



```
{
  "_id": "5cf0029caff5056591b0ce7d",
  "firstname": "Jane",
  "lastname": "Wu",
  "address": {
    "street": "1 Circle Rd",
    "city": "Los Angeles",
    "state": "CA",
    "zip": "90404"
  },
  "hobbies": ["surfing", "coding"]
}
```

Rich JSON Documents

The most natural and productive way to work with data.

Supports arrays and nested objects as values.

Allows for flexible and dynamic schemas.



```
> db.users.find({ "address.zip" : "90404" })
{ "_id": "5cf0029caff5056591b0ce7d", "firstname": "Jane", "lastname": "Wu" }
{ "_id": "507f1f77bcf86cd799439011", "firstname": "Jon", "lastname": "Wu" }
{ "_id": "5349b4ddd2781d08c09890f3", "firstname": "Jim", "lastname": "Wu" }
{ "_id": "5bf142459b72e12b2b1b2cd", "firstname": "Jeff", "lastname": "Wu" }
{ "_id": "5cf003283b23d04a40d5f88a", "firstname": "Jerry", "lastname": "Wu" }
{ "_id": "5bf142459b72e12b2b1b2cd", "firstname": "Jai", "lastname": "Wu" }
{ "_id": "5cf0036deaa1742dd225ea35", "firstname": "Jess", "lastname": "Wu" }
{ "_id": "54495ad94c934721ede76d90", "firstname": "Jill", "lastname": "Wu" }
{ "_id": "566eb3c704c7b31facbb0007", "firstname": "Janet", "lastname": "Wu" }
{ "_id": "5a999cc461d36489a27f2563", "firstname": "Jan", "lastname": "Wu" }
```


Powerful query language

Rich and expressive query language that allows you to filter and sort by any field, no matter how nested it may be within a document.

Support for aggregations and other modern use-cases such as geo-based search, graph

search, and text search.

Queries are themselves JSON, and thus easily composable. No more concatenating strings to dynamically generate SQL queries.



```
session.start_transaction()
order = { line_items : [ { item : 5, quantity: 6 } ] }
db.orders.insertOne( order, session=session );
for x in order.line_items:
    db.inventory.update(
        { _id : x.item } ,
        { $inc : { number : -1 * x.quantity } },
        session=session
    )
session.commit_transaction()
```

All the power of a relational database, and more...

Distributed multi-document ACID transactions with snapshot isolation.

Support for joins in queries.

Two types of relationships instead of one: reference and embedded.

MADE FOR THE CLOUD

MongoDB Atlas - the global cloud database

MongoDB Atlas is the multi-cloud database service for MongoDB available on AWS, Google Cloud, and Azure. Best-in-class automation and built-in proven practices provide continuous availability, elastic scalability, and support with regulatory compliance. [Learn more →](#)

Multi-cloud data distribution

Distribute or partition your data across 75+ cloud regions on Amazon Web Services, Microsoft Azure, and Google Cloud.

[Learn more →](#)

Secure for sensitive data

Sophisticated security controls and advanced functionality to satisfy both new and existing privacy and compliance measures.

[Learn more →](#)

Designed for developer productivity

Build apps faster with drivers, integrations, and native tools to manipulate, visualize, and analyze your data.

[Learn more →](#)

Reliable for mission-critical workloads

Highly available with distributed fault tolerance and backup options to meet your data recovery objectives.

[Learn more →](#)

Built for optimal performance

On-demand scaling, resource optimization tools, and real-time insights on your database performance.

[Learn more →](#)

Managed for operational efficiency

Fully automated infrastructure provisioning, database setup, maintenance, and version upgrades.

[Learn more →](#)

Ready to get started?

Launch a new cluster or migrate to MongoDB Atlas with zero downtime.

Get Started



A RICH PLATFORM

More than just a database

MongoDB is a true data platform with a comprehensive suite of tools to make working with data remarkably easy for everyone, from developers to analysts to data scientists.

Charts

The fastest way to create visualizations of MongoDB data.

Built for the document model.

Visualize live data from any of your MongoDB instances. Available on MongoDB Atlas.

[Learn more →](#)

BI Connector

Allow any BI tool that can speak the MySQL protocol to work with your MongoDB data.

Leverage the BI tools your organization already uses.

Perform federated analytics, combining data from MongoDB and other databases.

[Learn more →](#)

Compass

Search, visualize, and work with your data through an intuitive GUI.

Manipulate your data with a powerful visual editing tool.

Understand performance issues with visual explain plans and manage your indices.

[Learn more →](#)

Ready to get started?

Launch a new cluster or migrate to MongoDB Atlas with zero downtime.

Get Started

Resources

[NoSQL Database Explained](#)

[MongoDB Architecture Guide](#)

[MongoDB Enterprise Advanced](#)

[MongoDB Atlas](#)

[MongoDB Realm](#)

[MongoDB Engineering Blog](#)

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English



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