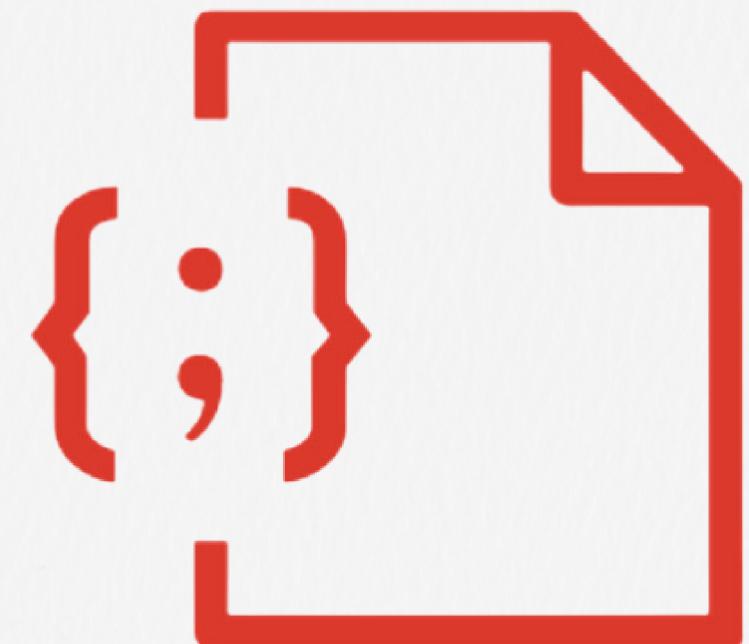


RedisJSON

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- RedisJSON is a module that **adds JSON capabilities to Redis**.
- You can **store, update, and query JSON objects** directly within Redis.
- Useful for applications that require efficient manipulation of JSON formatted data, as it supports complex queries and operations directly on the JSON stored in Redis.
- With RedisJSON, you can achieve document store-like functionality, making it easier to work with modern, JSON-centric applications.



RediSearch

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- RediSearch is a **full-text search and secondary index engine** for Redis.
- It **extends Redis with powerful search capabilities**, allowing you to index, query, and search your Redis datasets at speed.
- RediSearch **supports complex queries**, including full-text searches, aggregation, filtering, and geospatial queries.
- It's designed to **handle high volumes of data with minimal latency**, making it suitable for applications requiring real-time search features.



Redis OM

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- Redis OM is **designed to make it easier to work with Redis data structures** by providing a higher-level abstraction for modeling, storing, and querying data in Redis
- Redis OM (pronounced “ōm”) is **object mapping** (and more) for Redis
- More detail
 - <https://redis.io/docs/connect/clients/om-clients/stack-python/>
- Access
 - REDIS_OM_URL=redis://@redis:6379/0

redisōM

HashModel vs. JsonModel

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- **Data Structure and Complexity:** JsonModel is geared towards complex, hierarchical data with the ability to store nested objects and arrays. HashModel is best for simpler, flat data structures.
- **Query Capabilities:** RedisJSON (and by extension, JsonModel) supports more advanced querying and manipulation of stored data, including operations on nested elements. HashModel operations are generally more basic, focusing on the fields directly within a Hash.
- **Storage Efficiency:** For small or simple objects, HashModel may be more memory-efficient. JsonModel provides more flexibility and functionality at the cost of potentially increased memory usage for storing JSON strings.

How to install Redis OM

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```
1 RUN pip install redis redlock-py redis-om
```