

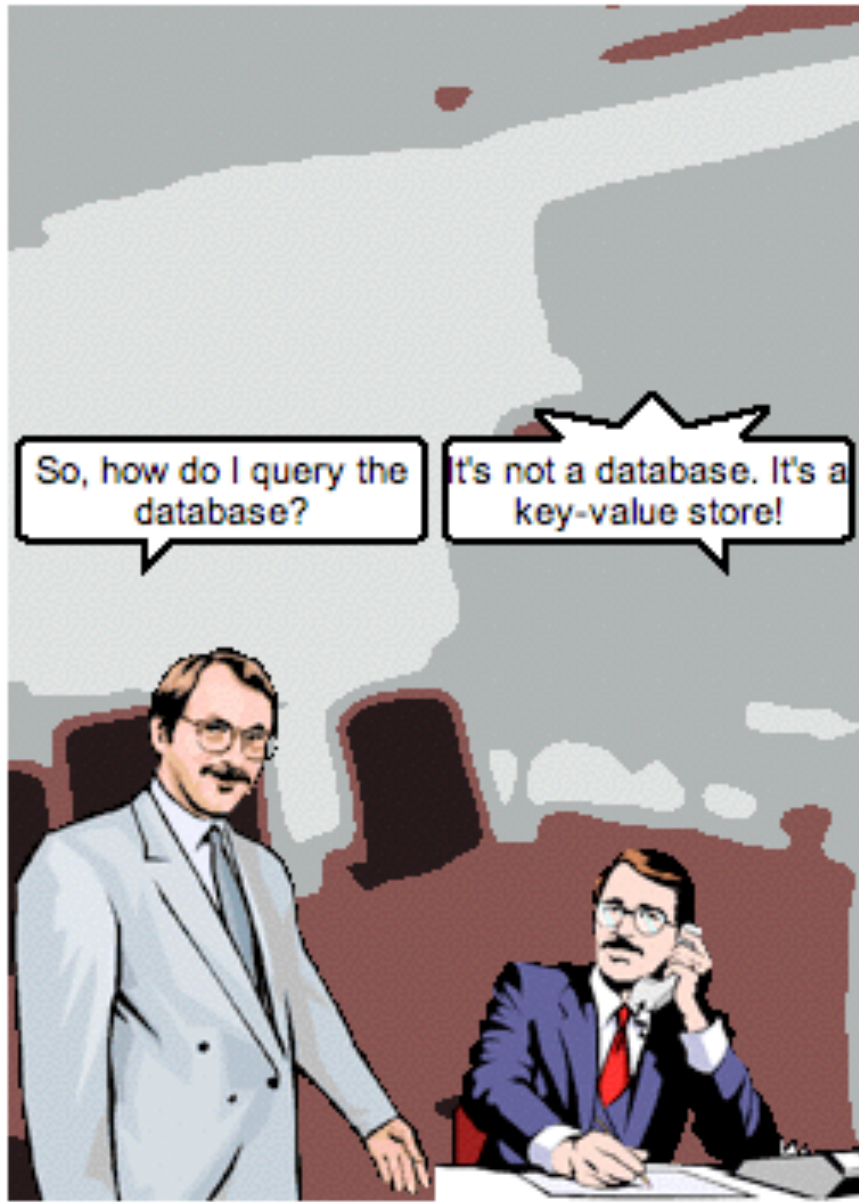
# Introduction to Mango

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# Fault-tolerance

by @jrecursive









# Animal DB



# animaldb??

```
{  
  "_id": "elephant",  
  "_rev": "3-f812228f45b5f4e496250556195372b2",  
  "wiki_page": "http://en.wikipedia.org/wiki/African_elephant",  
  "min_weight": 4700,  
  "max_weight": 6050,  
  "min_length": 3.2,  
  "max_length": 4,  
  "class": "mammal",  
  "diet": "herbivore"  
}
```

# Creating an index

POST /animaldb/\_index

```
{
  "index": {
    "fields": ["min_weight"]
  }
}
```

# Querying min\_weight > 10

POST /animaldb/\_find

```
{  
  "selector": {  
    "min_weight": {"$gt": 10}  
  }  
}
```



Querying  
min\_weight == 40

POST /animaldb/\_find

```
{  
  "selector": {  
    "min_weight": {"$eq": 40}  
  }  
}
```

# View based equivalent

PUT /animaldb/\_design/example

```
function (doc) {  
    emit(doc.min_weight, doc);  
}
```

# View based equivalent

GET /animaldb/\_design/example?key=40

```
function (doc) {  
    emit(doc.min_weight, doc);  
}
```

# View based equivalent

GET /animaldb/\_design/example?startkey=11

```
function (doc) {  
    emit(doc.min_weight, doc);  
}
```



Demo time!



# Nice features

- easier for newcomers
- faster (native Erlang behind the scenes)

Availability: API

Apache CouchDB 2.0  
Cloudfant

Availability: Frontend

Fauxton

Cloudant Dash



# Code

<https://gist.github.com/robertkowalski/cf66febc51ccf25e1c43>

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