

# GEOBUZZ WELKOM

**GIS zonder GIS server**

**De mogelijkheden van de  
NoSQL database MongoDB**



# TELEFOONS **AAN**

HOUD TIJDENS DEZE  
PRESENTATIE VOORAL UW  
TELEFOON AAN :-)

# TERWIJL **U** PLAATSNEEMT...

## INSTALLEER ALVAST DE APP 'COGO' OP UW TELEFOON, DAT SCHEELT STRAKS WEER TIJD





# COGO **DATA** COLLECTION

- GA NAAR DE APP STORE
- ZOEK OP ‘**COGO DATA COLLECTION**’
- INSTALLEER DE APP





# DAT IS ALLES

# BEDANKT

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# OVER BAASGEO

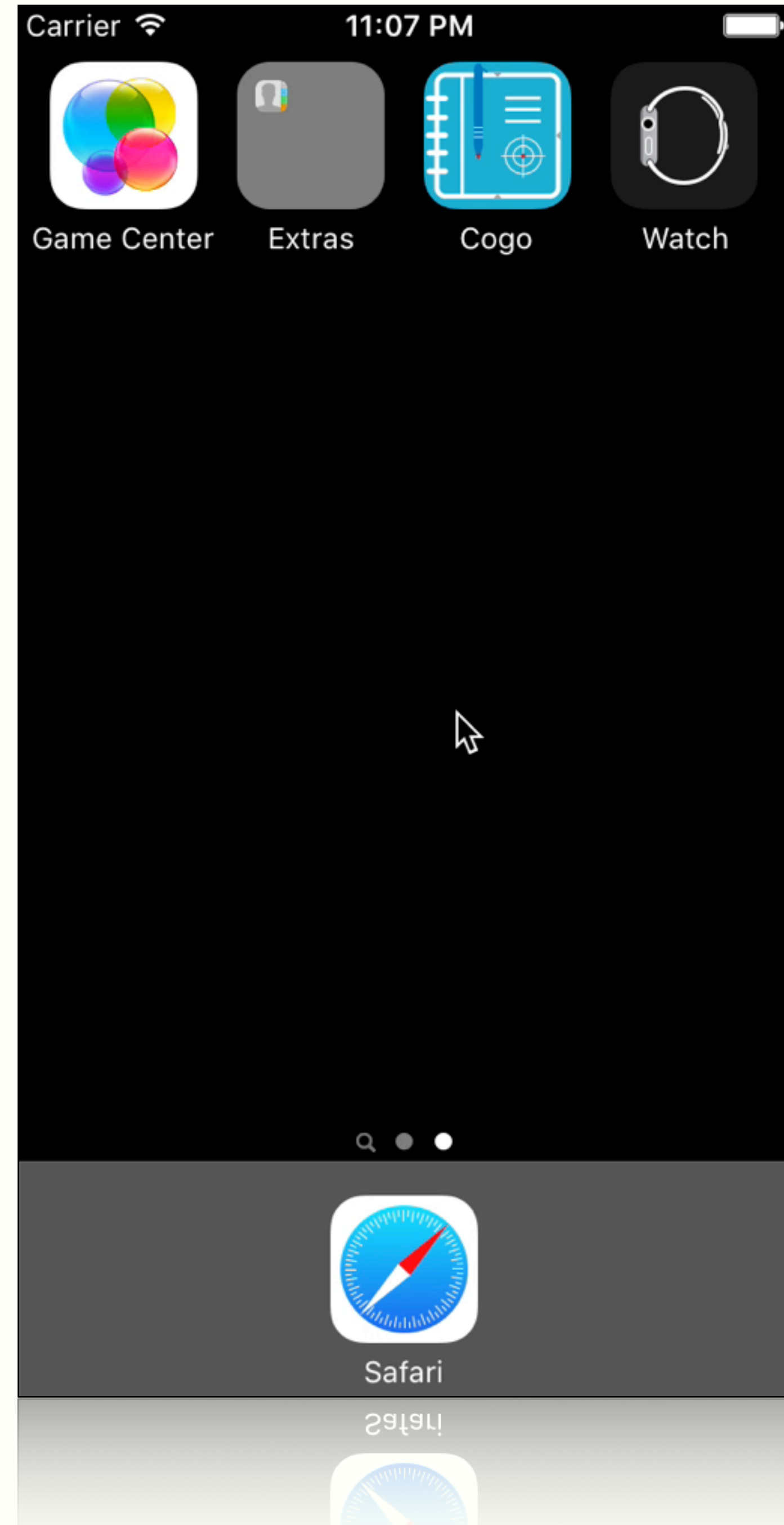
- ▶ ONAFHANKELIJK GEO-IT'ER
- ▶ OPEN GEO GROEP LID
- ▶ AFGESTUDEERD GIMA
- ▶ MAKER VAN DE APP COGO

The logo is presented on a white rectangular background with a thin black border and black corner mounts, giving it the appearance of a whiteboard. The word 'Baas' is written in a large, bold, blue sans-serif font. Below it, the words 'geo-informatie' are written in a smaller, bold, black sans-serif font. The entire logo is reflected on the blue background below it.

**Baas**  
geo-informatie

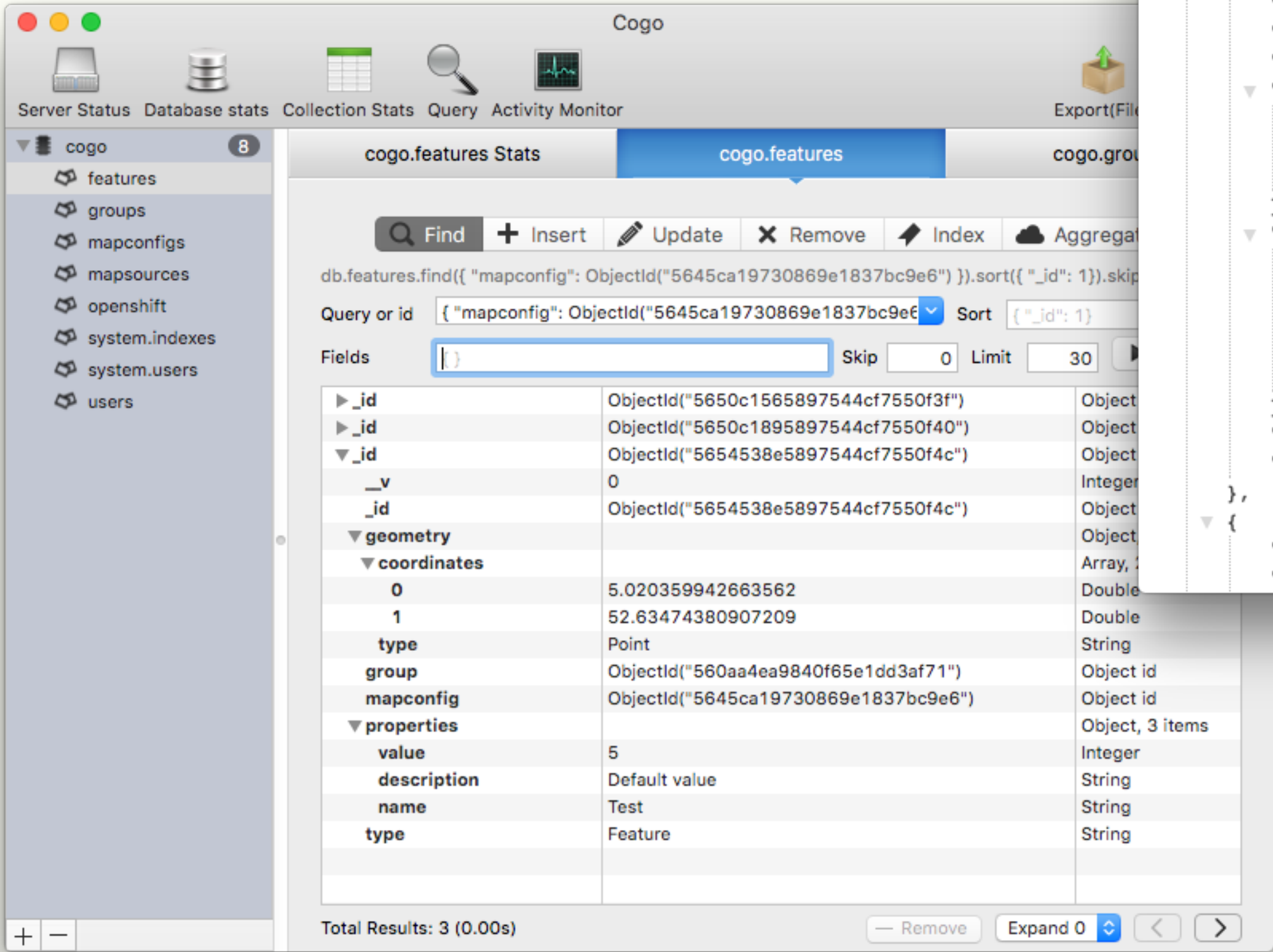
# INTERACTIEVE DEMO

- ▶ START COGO
- ▶ DRUK DE TRY-OUT KNOP
- ▶ KIES DE POI KAARTLAAG
- ▶ VOEG EEN FAVORIETE LOKATIE TOE:
  - ▶ CULINAIR, HOBBY OF ANDERS?

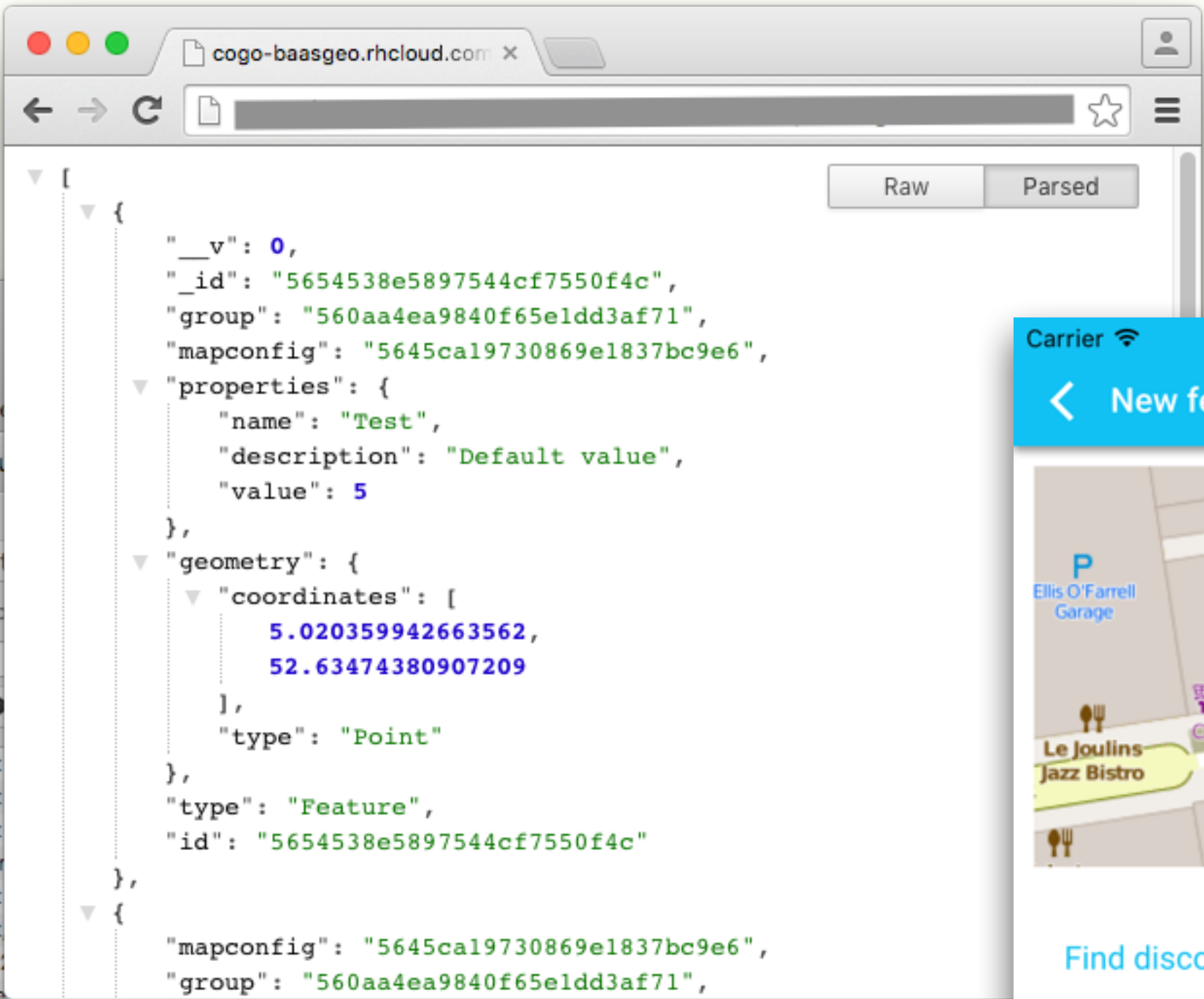




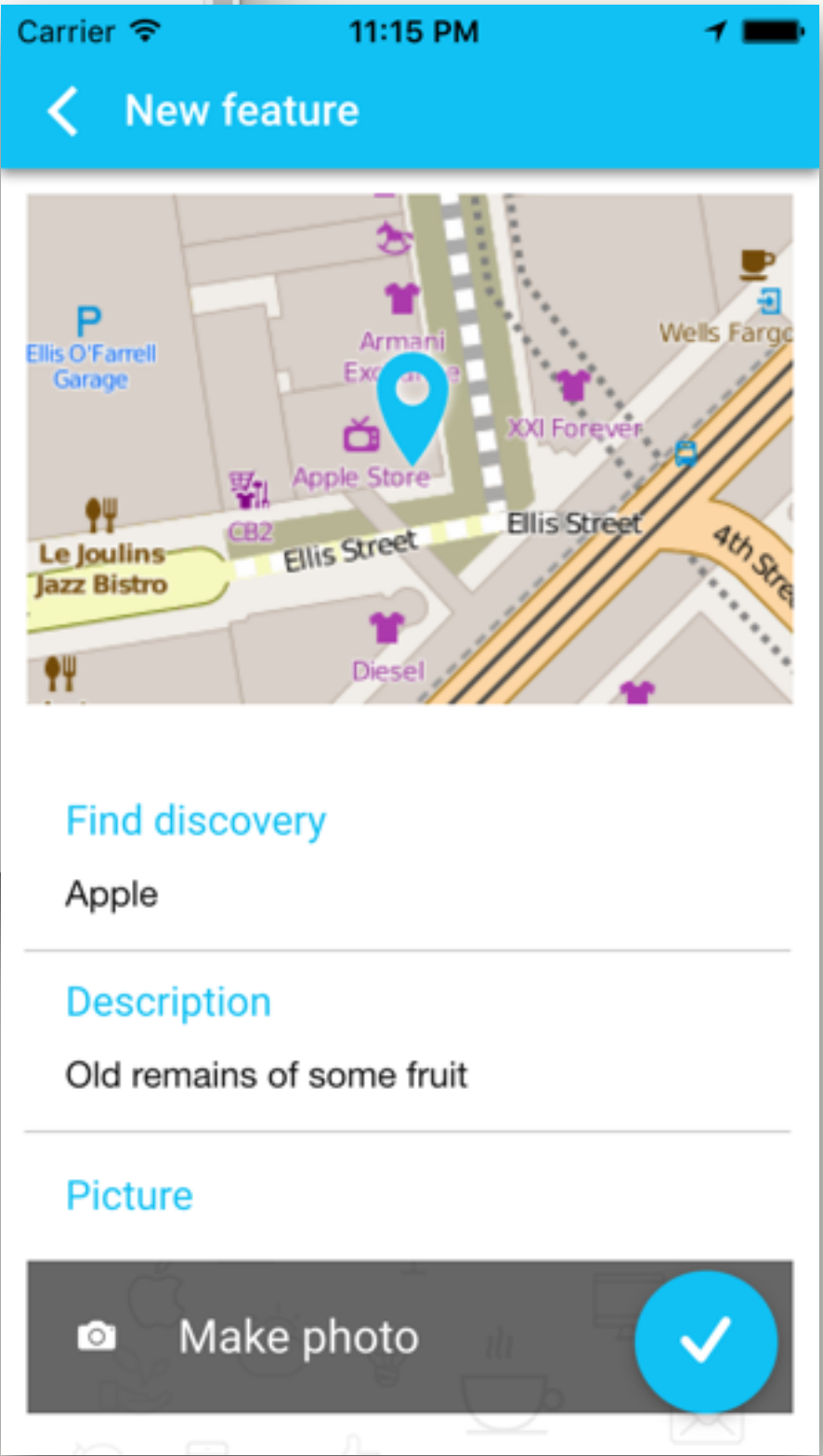
# COMPONENTEN COGO



MongoDB



REST  
Http Api

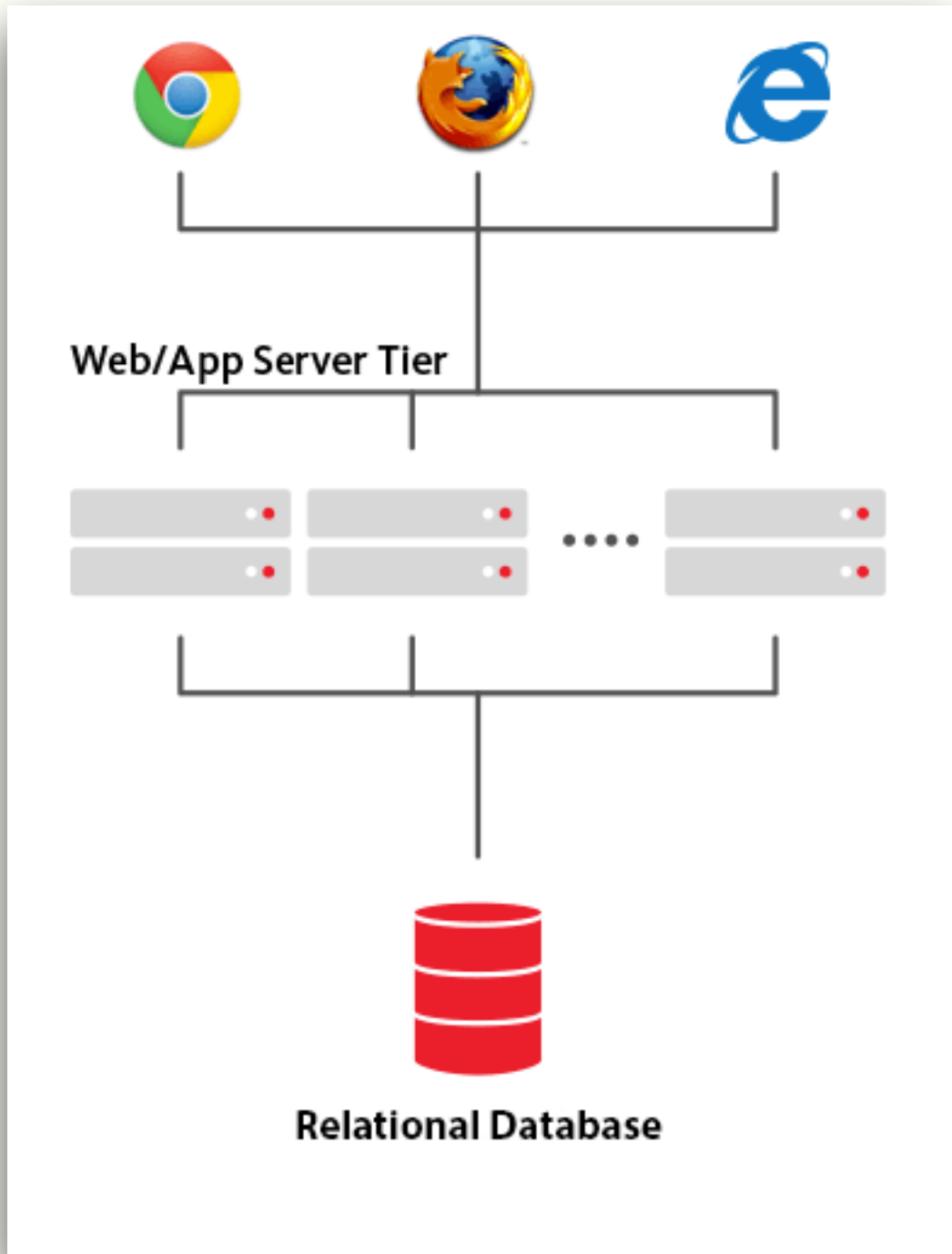


GUI

**NOT ONLY SQL - NOSQL**

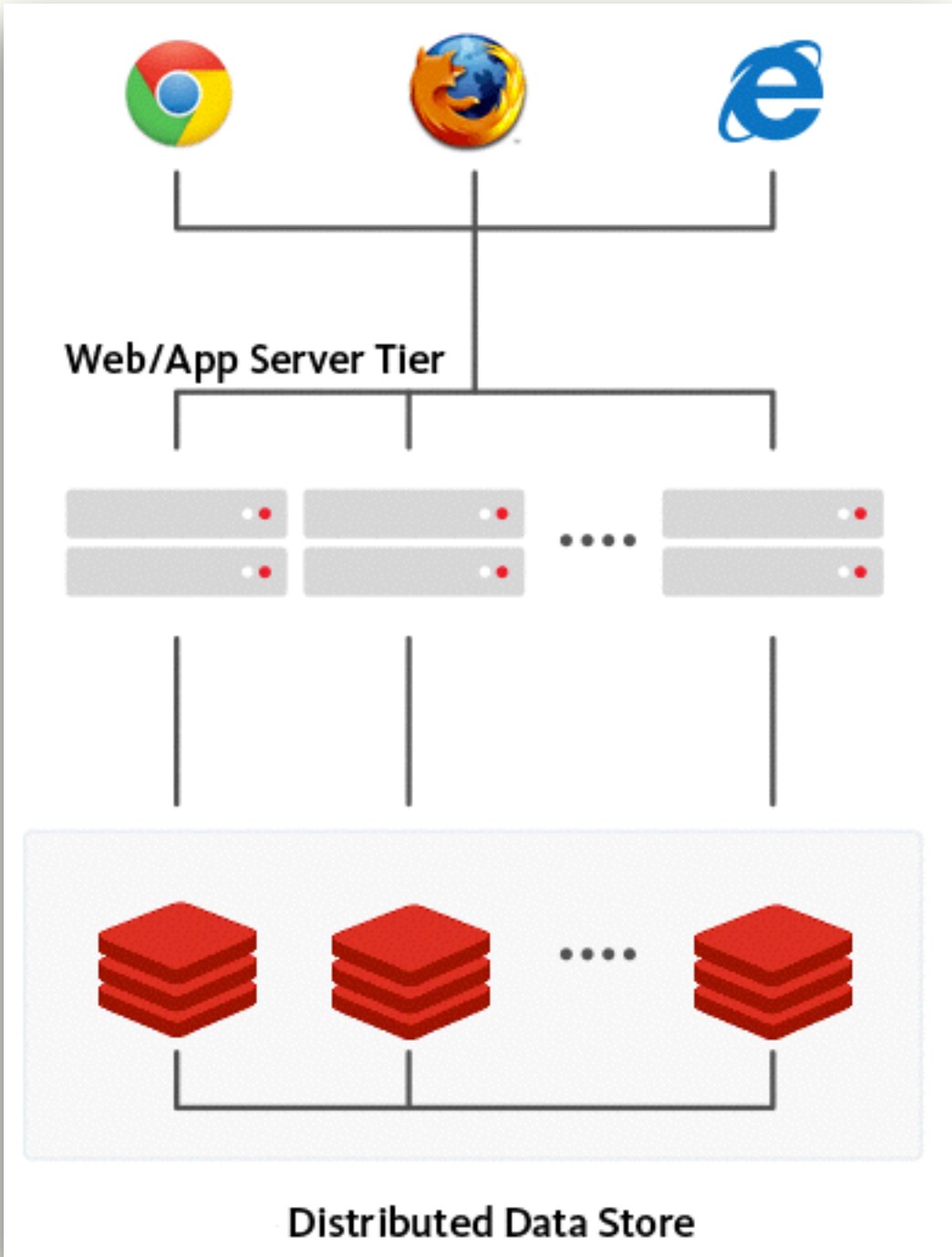
**WAAROM EEN ANDER TYPE  
DATABASE?**

# CAP THEORIE



Traditioneel (ACID)

*Eric Brewer, CAP theorie, 2000&2012*



NoSQL (BASE)

# MONGODB

# MONGODB IS EEN DOCUMENT DATABASE

# MONGODB

SQL Terms/concepts	MongoDB Terms/concepts
DATABASE	DATABASE
TABLE	COLLECTION
ROW	DOCUMENT OR BSON DOCUMENT
COLUMN	FIELD
INDEX	INDEX
TABLE JOINS	EMBEDDED DOCUMENTS AND LINKING
PRIMARY KEY	PRIMARY KEY
TRANSACTIONS BEGIN, COMMIT/ROLLBACK	NA
SCHEMA	NA

# INTERFACE

## MONGODB

```
db.inventory.find( { type: 'food', price: { $lt: 9.95 } } )
```

## SQL

```
SELECT * FROM inventory WHERE type = 'food' AND price < 9.95
```

# INTERFACE

## MONGODB

```
db.inventory.find({  
  loc : {  
    $near : [ 100 , 100 ],  
    $maxDistance: 10  
  }  
})
```



# JSON DOCUMENTS

```
{
  "_id": "56412228b68a06a45bc51995",
  "__v": 0,
  "properties": {
    "name": "farato village the gambia"
  },
  "geometry": {
    "coordinates": [
      -0.07485180000000001,
      5.62389500000000045
    ],
    "type": "Point"
  },
  "type": "Feature"
},
```

```
{
  "__v": 0,
  "_id": "5648a4a5d97f67187ba3411b",
  "properties": {
    "nummer": 79,
    "omschrijving": "GeoBuzz event",
    "mijn_veld": "Extra veld met info "
  },
  "geometry": {
    "coordinates": [
      4.4480615,
      52.015293100000001
    ],
    "type": "Point"
  },
  "type": "Feature"
}
```



# GEO ONDERSTEUNING

Functionaliteit	2d vlak	WGS84
Object	Coordinate pair	GeoJSON
Index	2d plane	2d sphere
Geometrie	Point	(Multi)Point, (Multi)LineString, (Multi)Polygon, GeometryCollection
Notatie	X and Y, state plane	longitude and latitude, decimal degrees
Query	Inclusion (within) and proximity (near)	Inclusion (within), intersection (intersects) and proximity (near)

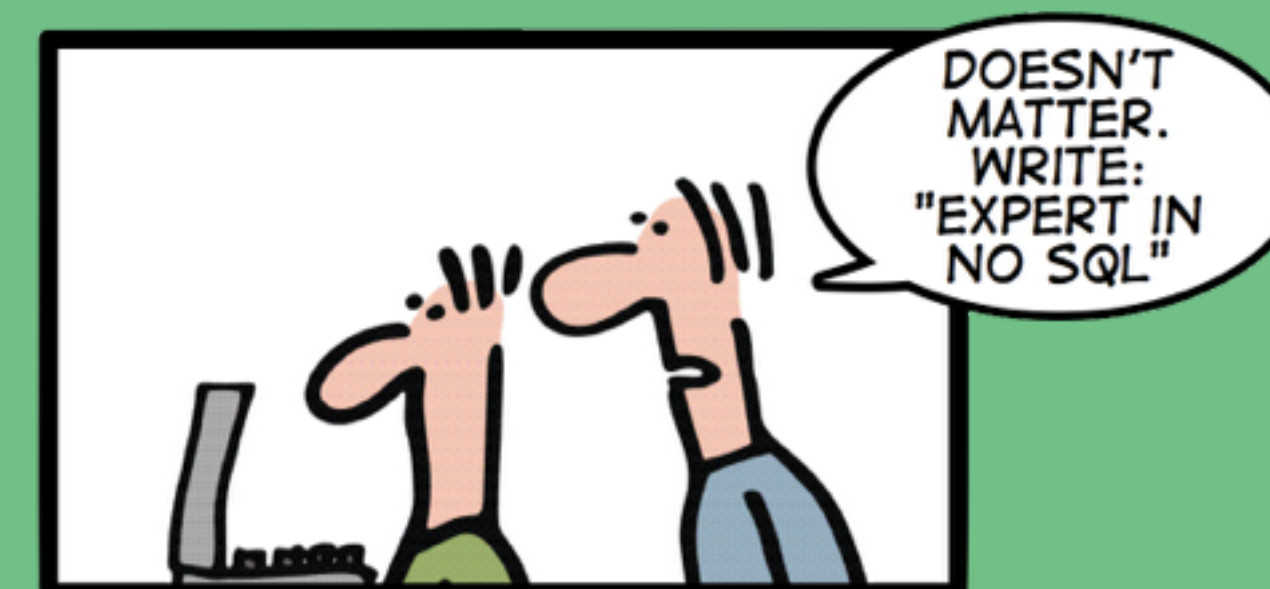
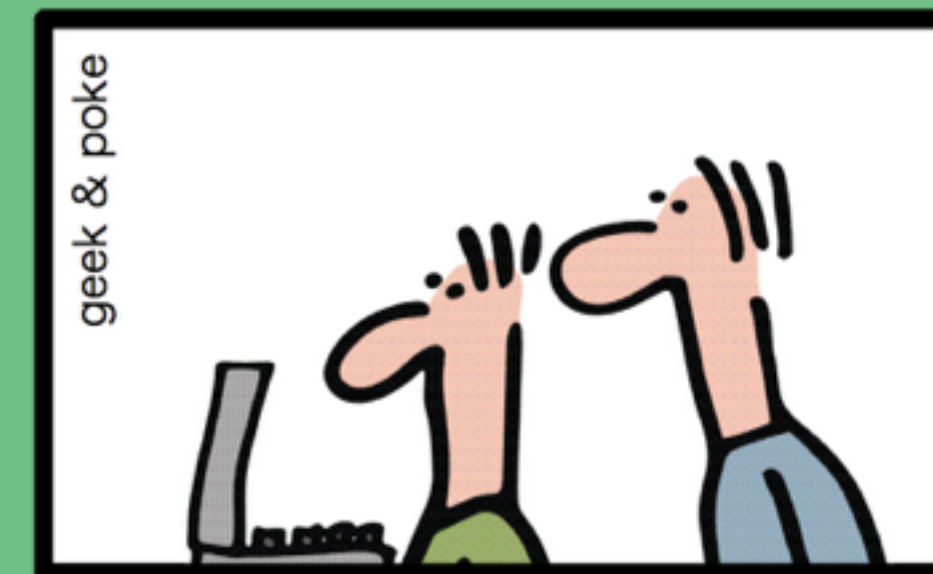
# TOT SLOT

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Twitter: [@baas\\_geo](https://twitter.com/baas_geo)

## HOW TO WRITE A CV



Leverage the NoSQL boom

*Geek & Poke*

