## Neo4j - Graph Workshop Series in association with Rootalpha



#### **Graph Search Optimization**

Speaker - Shuvam Manna, Founder, Hmmingbird

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#### Shuvam Manna Founder, Hmmingbird

Geek, Coder, Bibliophile, blogger, Shutterbug and a professional bathroom singer perennially on the lookout for his Hogwarts Acceptance Letter.

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#### **Hmmingbird**

Hmmingbird is an audio-search engine that searches for the melody of a song, instead of it's lyrics and words.

It taken an Audio input, parses it to obtain a normalized numerical representation of the audio, which is the indexed.





#### Indexing

Indexing is the process of a search engine collecting, parsing and storage of data for use by the search engine.







#### Polyglot Persistence

It is a fancy term to mean that when storing data, it is best to use multiple data storage technologies, chosen based upon the way data is being used by individual applications or components of a single application.





# MongoDB

Document Data Model for Power Browsing/ Searching for Products.

#### Neo4j

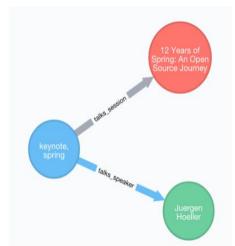
to provide real time personalized product recommendations, and Speed up Search.

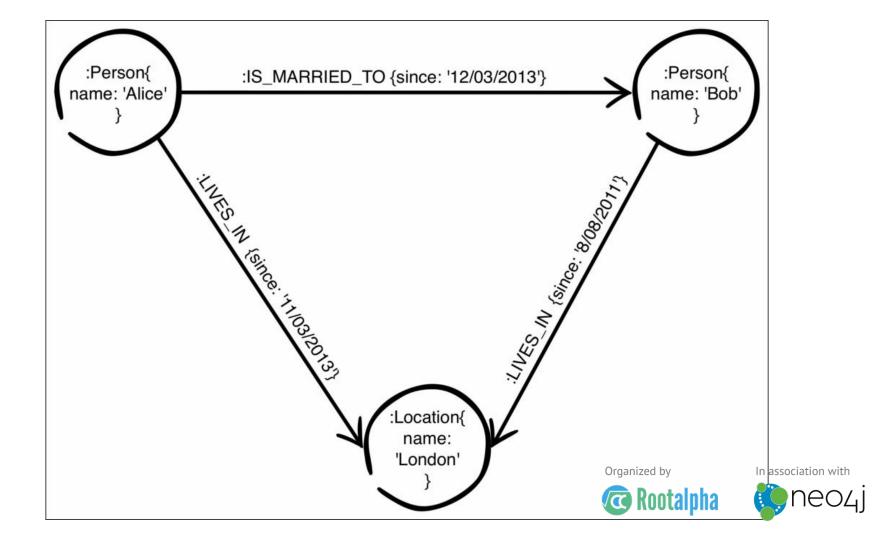




With the **neo4j\_doc\_manager** service running, any documents inserted into MongoDB will be converted to a property graph structure and immediately inserted into Neo4j as well. Document keys will be turned into nodes. Nested values on each key will become properties.

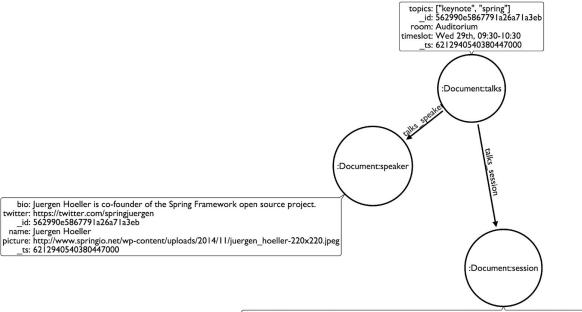






```
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  "abstract": "Spring emerged as a core open source project in early 2003 and
evolved to a broad portfolio of open source projects up until 2015."
 },
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 "room": "Auditorium",
 "timeslot": "Wed 29th, 09:30-10:30",
 "speaker": {
  "name": "Juergen Hoeller",
  "bio": "Juergen Hoeller is co-founder of the Spring Framework open source
project.",
  "twitter": "https://twitter.com/springjuergen",
  "picture":
"http://www.springio.net/wp-content/uploads/2014/11/juergen hoeller-220x2
20.jpeg"
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```

#### db.talks.insert("Whatever is in the Json File");



abstract: Spring emerged as a core open source project in early 2003 and evolved to a broad portfolio of open source projects up until 2015. id: 562990e5867791a26a71a3eb

title: 12 Years of Spring: An Open Source Journey

ts: 6212940540380447000

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### That's it

Thank You for not booing,

or hurling shoes, exploding batteries or rotten tomatoes.

May the source be with you

. . .