

Unlock Your Content



stm

With NoSQL and Semantics

Matt Turner CTO Media and Publishing matt.turner@marklogic.com

INTERNATIONAL ASSOCIATION OF SCIENTIFIC, TECHNICAL & MEDICAL PUBLISHERS The voice of research publishing since 1969

Introductions

Me: Matt Turner, CTO Media and Publishing, MarkLogic

MarkLogic: New generation database software powering information products and mission critical applications



PUBLISHING

CHANGE IS THE ONLY CONSTANT





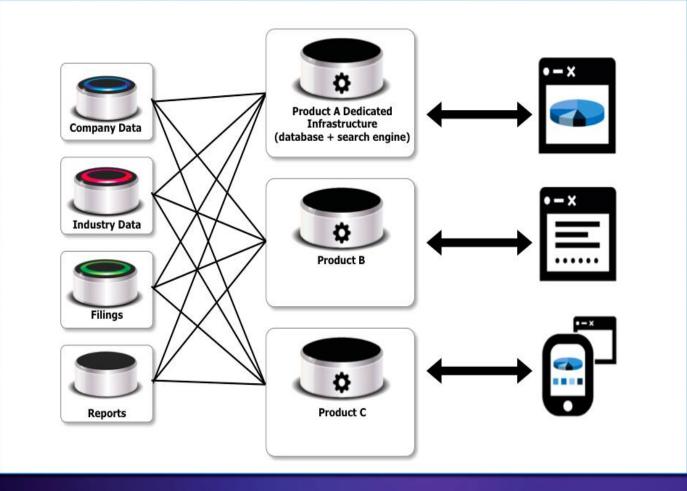








FROM PUBLISHING

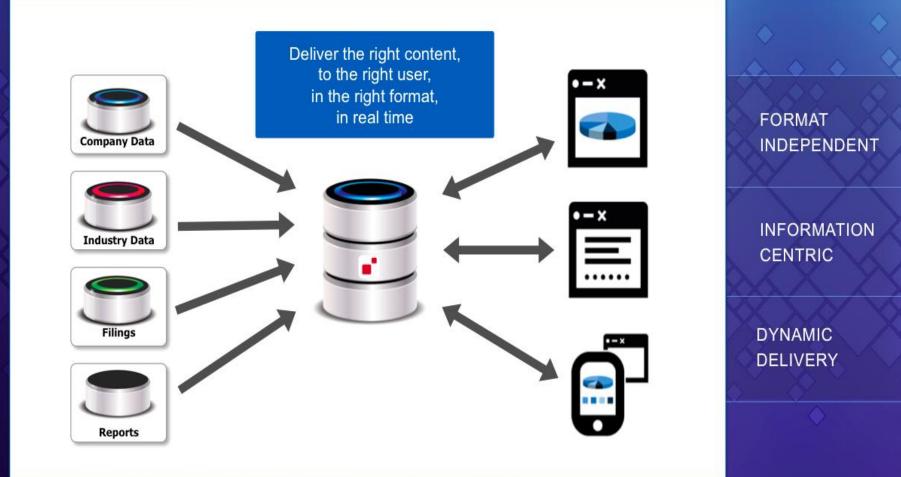


FORM BASED PRODUCTS

DEDICATED PRODUCT INFRASTRUCTURE



TO INFORMATION PROVIDERS





Top 5 Requirements for Information Publishers

- **1** Getting data *IN* fast isn't the problem it's getting insights *OUT Faster!*
- 2 Data is complex but users want complexity hidden!
- 3 Not everyone has permission to access all the data...
- 4 Repurpose, repurpose, repurpose. Repeat
- 5 Once you attract them you must be reliable



Top 5 Requirements for Information Publishers

- **1** Getting data *IN* fast isn't the problem it's getting insights *OUT Faster!*
- 2 Data is complex but users want complexity hidden!
- 3 Not everyone has permission to access all the data...
- 4 Repurpose, repurpose, repurpose. Repeat
- 5 Once you attract them you must be reliable



Traditional Technology

Rows and columns for content strip information

Title	Publication Date	Category	Abstract	Section	Section 2?
Science Article 1	3/1/14	Biology	Abstract text	Section text	Section text
Research Book	6/4/13	Surgery	Abstract text	Section text	Section text
Science Article 2	6/4/05	Chemistry	Abstract text	Section text	Section text

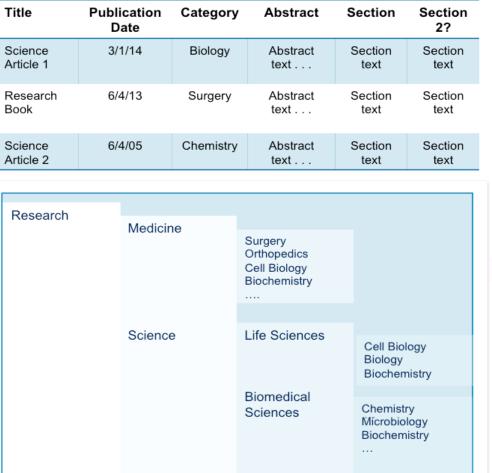


Traditional Technology

Rows and columns for content strip information

Hierarchical taxonomies overlap and don't capture the complexity





We Are The New Generation Database

HIERARCHICAL ERA

"For your application data!"

· Application & hardware specific

RELATIONAL ERA

"For all your structured data!"

- · Normalized, tabular model
- · Application-independent query

ANY STRUCTURE ERA

"For all your data!"

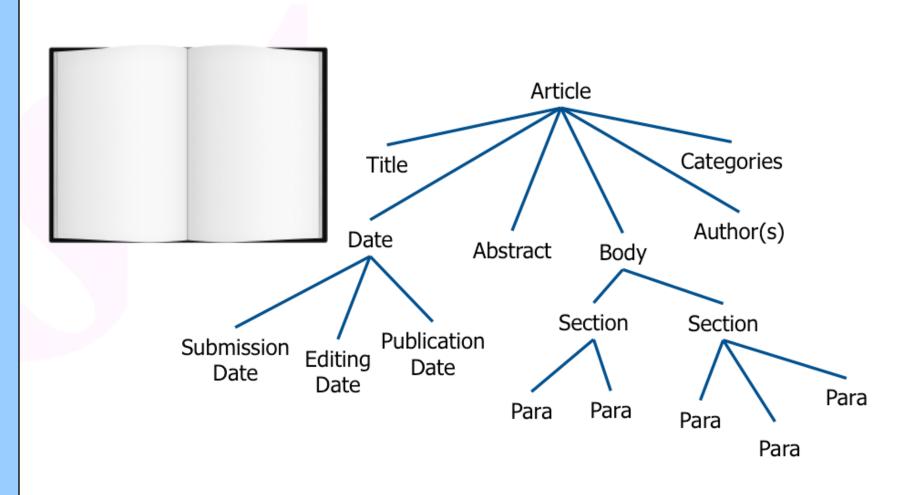
- Schema-agnostic
- Massive scale
- Query and search
- Analytics
- Application services
- · Faster time-to-results

ORACLE

MarkLogic*



Model Content with NoSQL





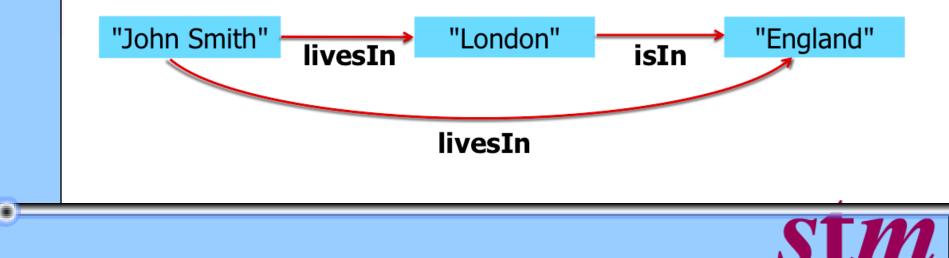
Semantics to Model Relationships

Data model to manage relationships and link together data

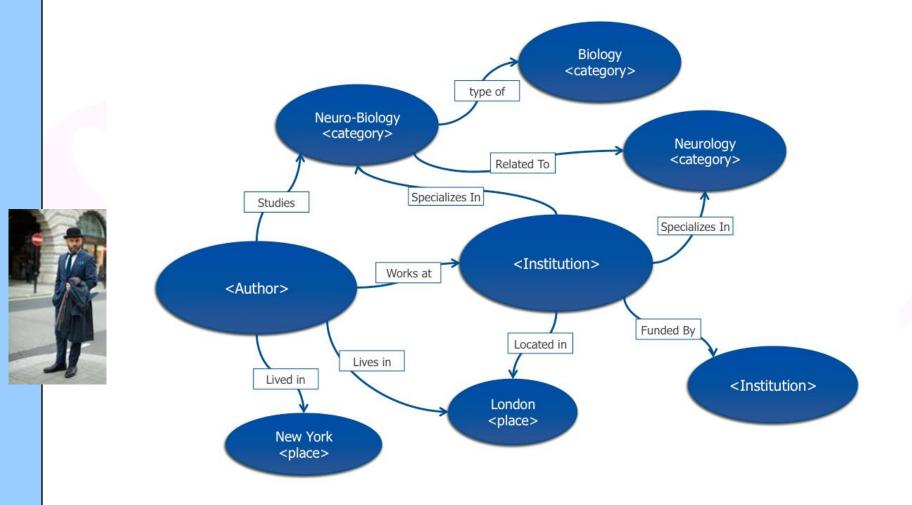
'triples' describe single facts

Collections of facts describe complex real-world scenarios





Ontologies Instead of Taxonomies

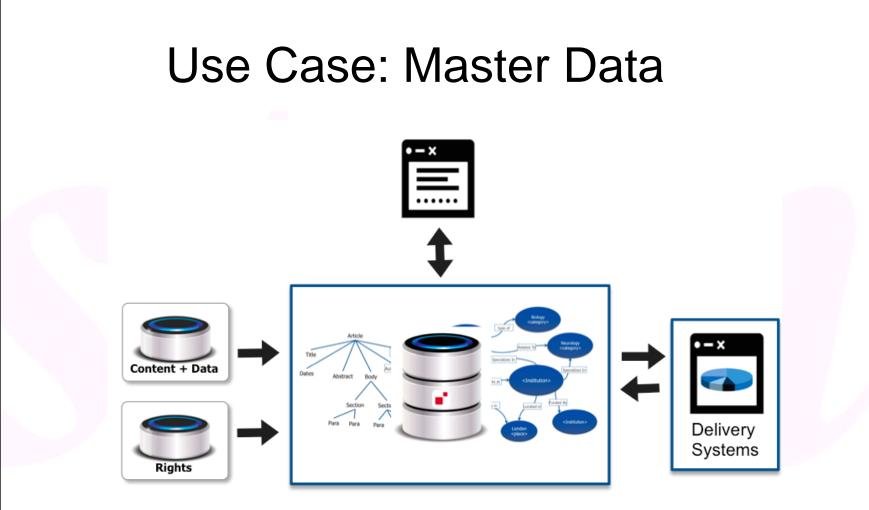




NoSQL and Semantics Unlock Content Biology <category> type of Neuro-Biology Article <category> Neurology Related To <category> Is About Title Specializes In Studies Authored By Specializes In Dates Abstract Body <Institution> <Author> Works at Funded By Section Section Lives in Located in Lived in <Institution> Para Para New York Para Para London <place> Para <place>

Flexibility + Efficiency = Complete Picture

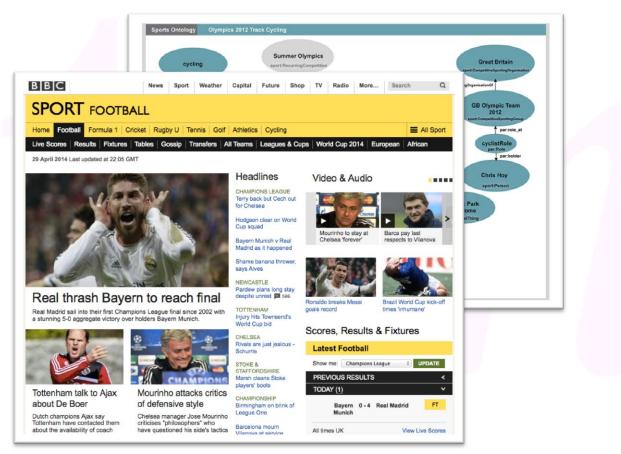




Foundational data to drive product development and innovation



Use Case: Enhance Digital Products



Link together and present content with relationships

1

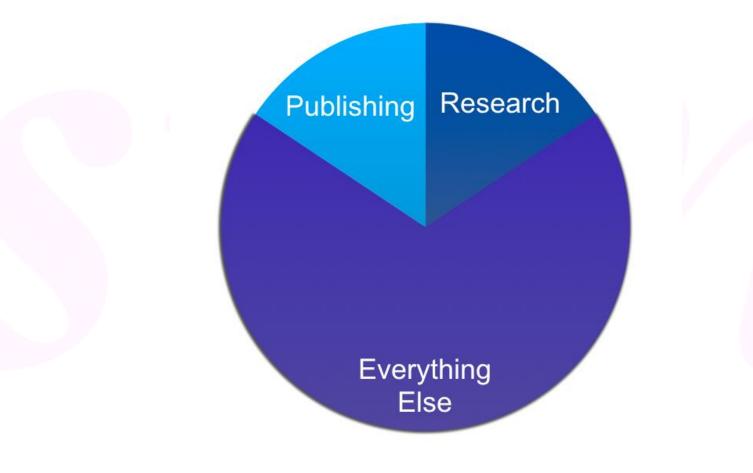
Use Case: Go Beyond Search

The Gospel Topics Explorer Search wealth,misery	Home Search Relate Explore Sources Enrich About Sign in	
Wealth (10)\$Misery (14)\$Relate topics	Parable of the Sower and the Seeds, Part 2	
3148 nodes examined Getting started: In the Search box above, enter two terms or phrases separated by a comma, then click Search. Select other topics	Parable of the Sower and the Seeds, Part 1 Riches	
from one or both dropdowns to refine your search. Examples atonement, joseph smith	Wealth	
wealth, misery inspiration, worthiness sacrament, atonement worthiness, mission		

Concepts, ontologies drive rich discovery experiences



Use Case: 'Everything Else'



Tailored to the users role, activity and location



Top 5 Requirements for Information Publishers

. Repeat

1 Getting data IN fast isn't the problem – it's

insights OUT Faster!

- 2 Data is complex but users
- 3 Not everyone
- 4 Repurpose, r
- 5 Once you attraction you must be reliable



FREE BEER!

MarkLogic 8, New Features, New For Partnering with You





Time's UN

About your speaker: Name: Matt Turner Company: MarkLogic Email: matt.turner@marklogic.com Social Media: @matt_turner_nyc

Link:

http://www.marklogic.com/blog/listicle-top-5-requirementstodays-information-providers/

