Getting Started in Search

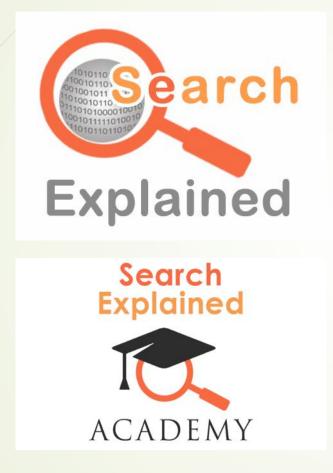
Workshop 20 July, 2016 Singapore

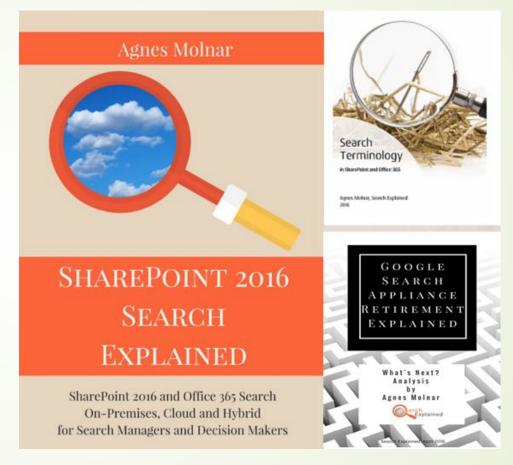
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Introduction – Agnes Molnar





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Introduction – Maish Nichani





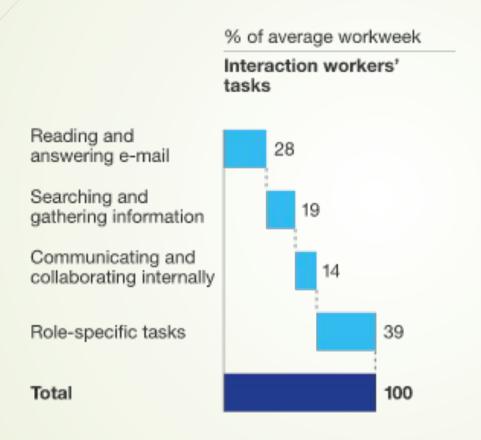
maish@pebbleroad.com @maish

What does search mean to you?

What is enterprise search?

- What is search?
 - Search is the act of finding information to get a job done.
- What is a search experience?
 - The search experience is the state of mind of the user before, during and after search.
- What is enterprise search?
 - Enterprise search refers to a powerful stack of technologies you subscribe to or buy to help design great search experiences.

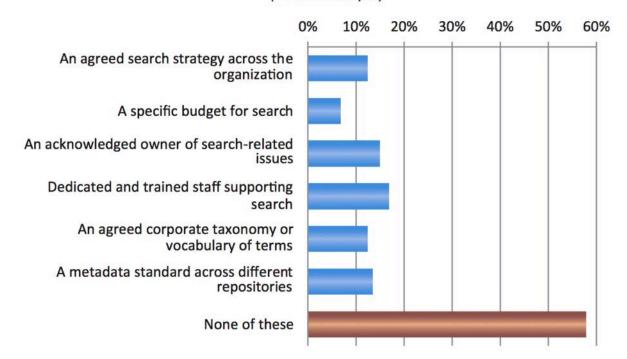
Why enterprise search?



Source: International Data Corporation (IDC); McKinsey 6

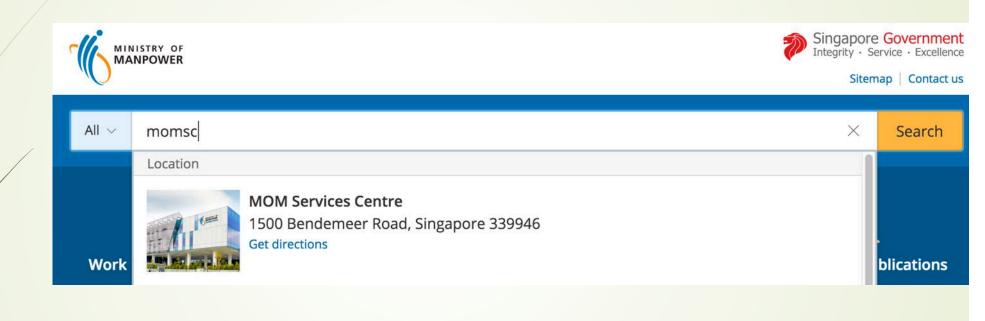
Why enterprise search?

Figure 4: Thinking of the maturity of your approach to search, which of the following do you have? (N=266 multiple)



While 71% of organizations consider search to be vital or essential to productivity and effectiveness, 58% show little or no signs of maturity in search.

Why not use Google?



Business Challenges with Search

Business Challenges with Search Findability

The Paradox of Content

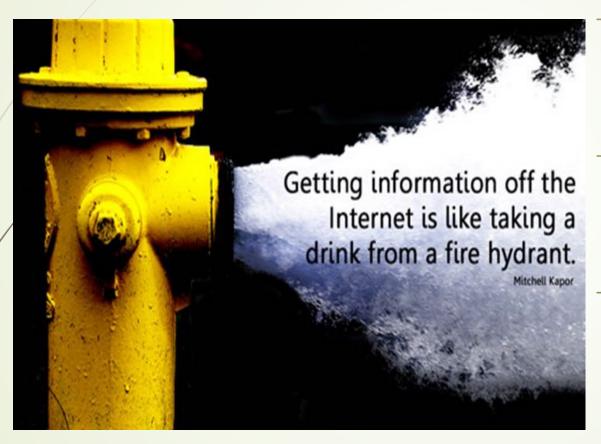
- Less Content Less Value
- More Content More Garbage



Content Challenges



Information Overload



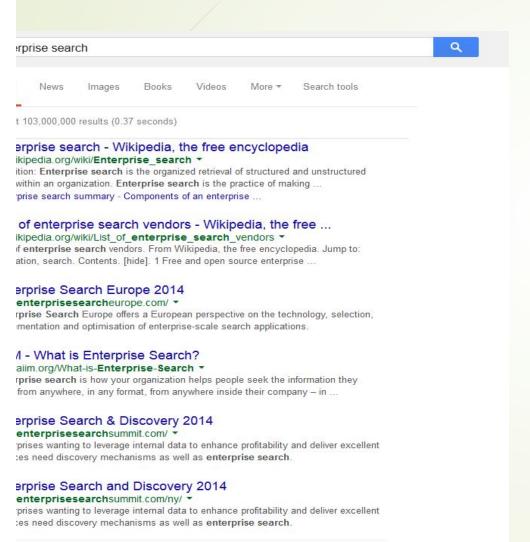
The average person receives 63,000 words of new information every day.

Average length of a novel: 64.531 words

If you wanted to read everything you've got in 2015, it would take you the first three months of 2016!

Source: Robby Walker; Amazon Text Stats

Visualization Challenges



"Ten blue lines" experience

"Old style"

Not visual enough

Not obvious

Ranking

Hard to "overview"

Data Mining & Semantics

Content has no meaning to the engine

No relationships and links between objects

No cross-system relationships defined

Lack of quality metadata



Security in Enterprise Search

- Goal: to avoid "security accidents"
- Enterprise Search Security = Content Security
- Enterprise Search != Security Leak



Search as a Metaphor is Broken!



"Search is no longer simply about "search" (...)

It is moving into

the real-time, the predictive and the visual."

Innovations in Knowledge Organization Confere Singapore, 2015

Findability

Navigation

Search

Accessibility

Information architecture

User experience

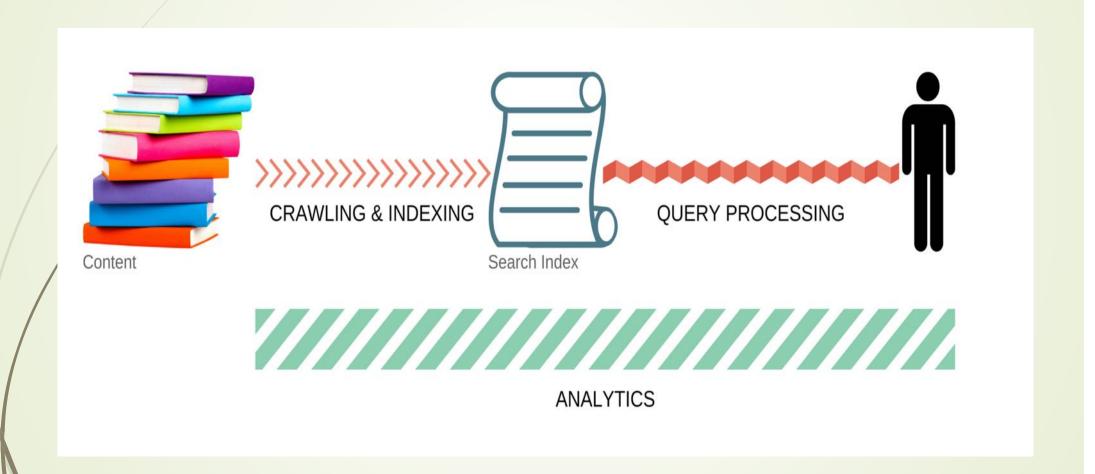
User interactions

User profile & persona

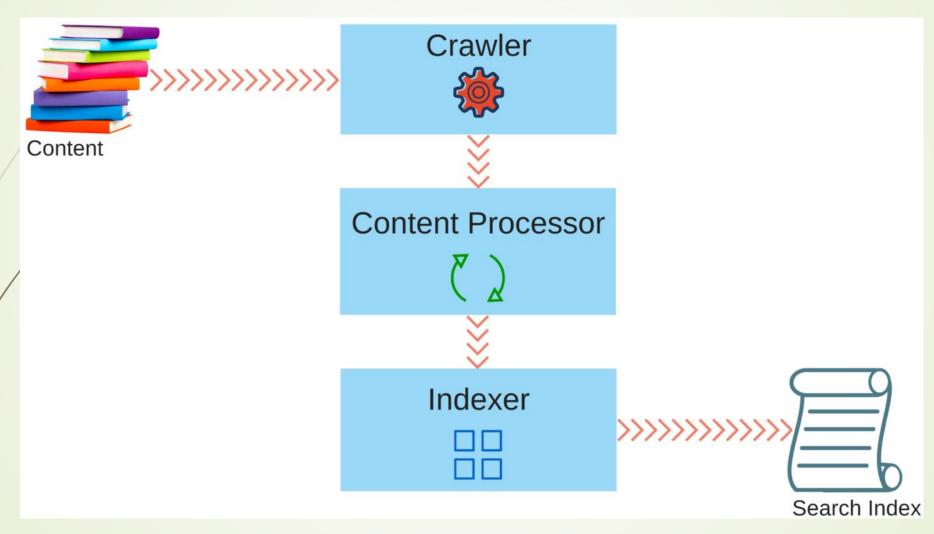
Machine learning

Search Processes & Components

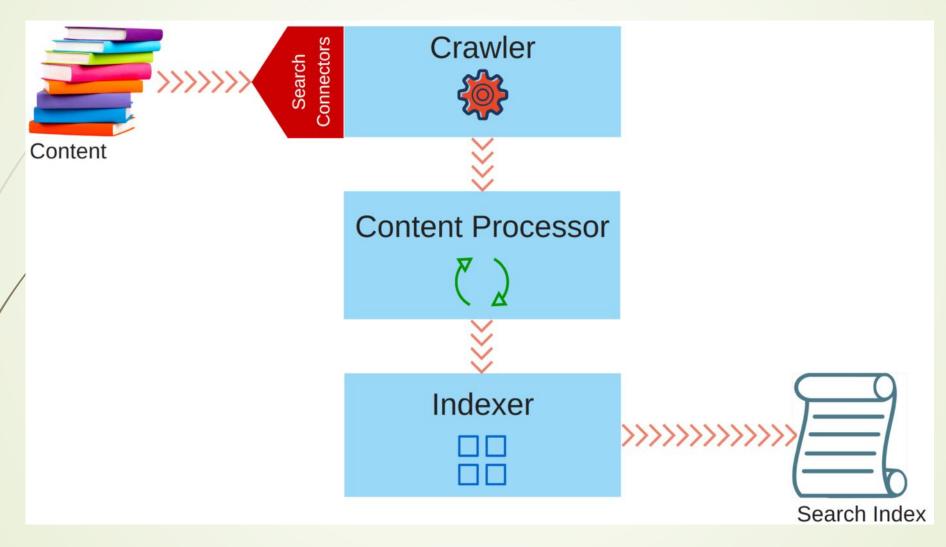
Search Processes



Crawling & Indexing



Crawling & Indexing



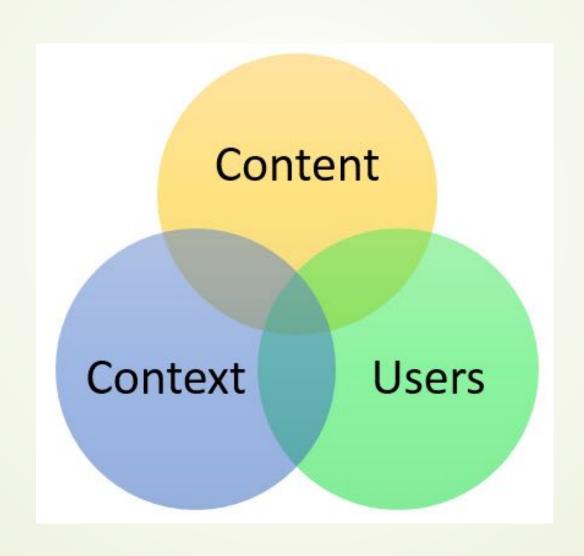
Search projects

A business process

- More than a One-Time Project (initial implementation)
- Analysis
- Collecting Feedbacks
- Evaluation
- Continuous improvement



Main Considerations



Content



Metadata

Content Metadata

- Stored in CMS
- Explicit & implicit metadata
- Changed by users & processes

Search Metadata

- Stored in the Search Index
- Changed by the Search Engine (indexing)
- Read-only by the users & processes
- Essential for findability
- The "heart" of UI

Unifying Metadata

- Various systems various metadata
 - E.g. AUTHOR vs. CREATOR vs. CREATED BY vs. OWNER vs. ...

- Various systems various value sets
 - E.g. MAISH NICHANI vs. maish.nichani vs. PEBBLEROAD\maish vs. maish@pebbleroad.com vs. ...

Unifying Metadata

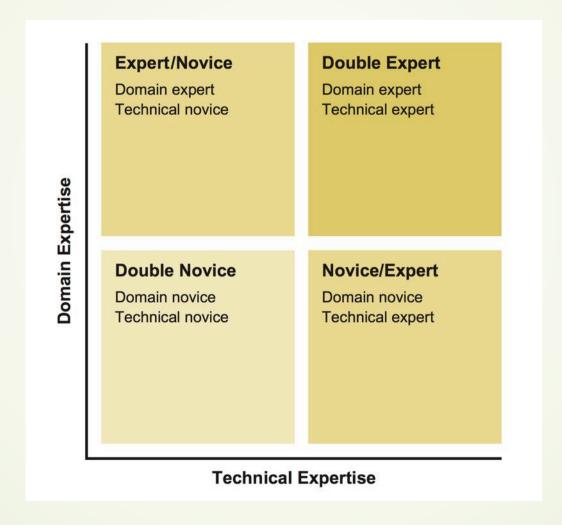
- Unified Search experience needs Unified metadata
- Manual vs. Auto-Classification
- Search Index normalization



Users

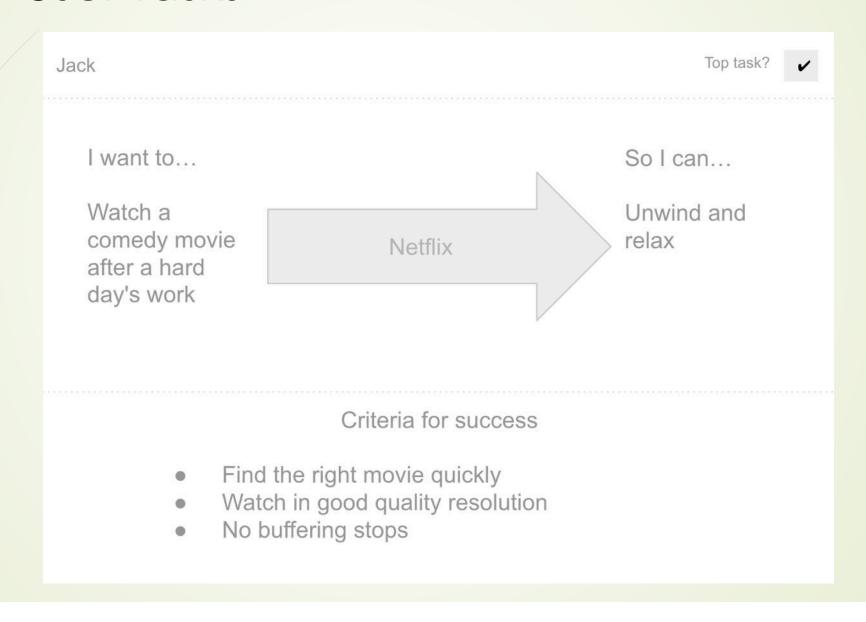


Users

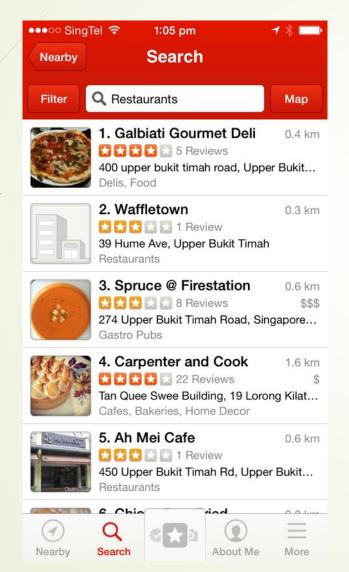


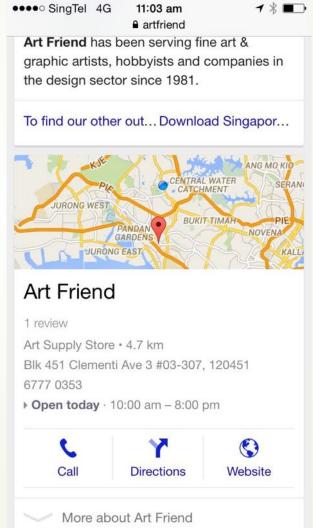
Designing the search experience by Tony Russell–Rose and Tyler Tate

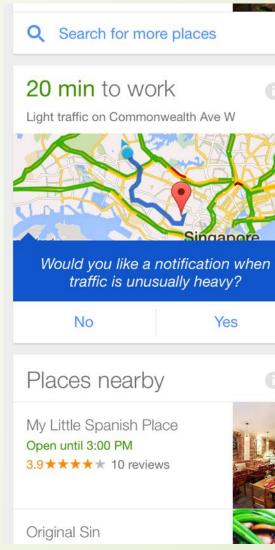
User tasks



Context







Context

Device	Which devices?	
Environment	In office or out of office? What are the working conditions?	
Time	When? How often?	
Activity	What is the job-to-be-done?	
Individual	What are their subject matter and technical savviness?	
Location	Where? Stationary or mobile?	
Social	Type of work, individual or group?	

Designing with context by Cennydd Bowles, http://www.cennydd.com/writing designing-with-context

Requirements

Business goals

Scenarios & use cases

Application Lifecycle

Systems to integrate

User Experience

Metrics

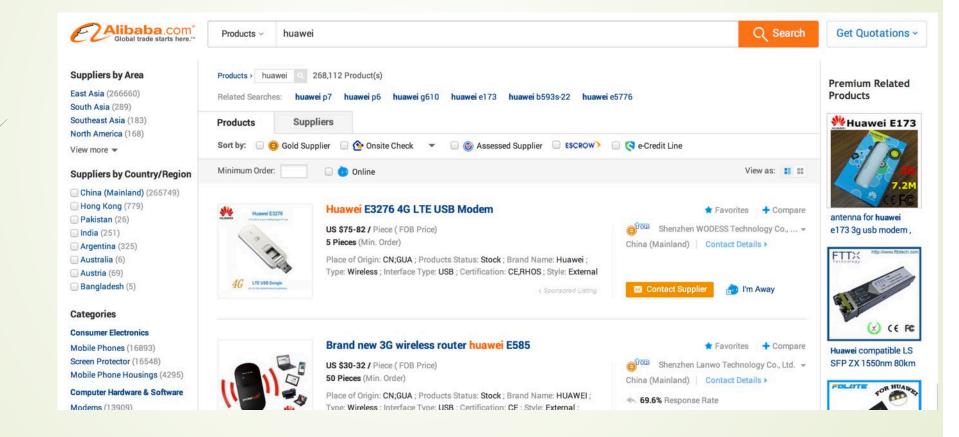
Milestones

Resources

Experts

- Internal
- External
- "Liaison"

Interface



Interface

- Input features that allow the searcher to express what they are looking for
- Control features that help searchers to modify, refine, restrict, or expand their Input.
- Informational features that provide results or information about results.
- Personalisable features that relate specifically to searchers and their previous interactions.

Search User Interfaces by Marti A. Hearst.

Metrics

	Goals	Signals	Metrics
Happiness			
Engagement			
Adoption	Get new staff to quickly start using search to explore and find resources.	How many new staff use search in the first 2 months.	# of search sessions/ month for the the new staff segment.
Retention			
Task Success			

Roles

- Search manager: oversight of enterprise search strategy, governance and rollout of search projects.
- Search analyst: user needs, content needs and governance of the project.
- Search back-end engineer: search technology configuration, integration and custom development.
- Search front-end engineer: search interfaces, personalisation and customisation.
- Search relevancy engineer: relevancy tuning, content processing and search analytics.

Proof of Concept (POC)

- Initial requirements & conditions
- Limited scope
 - Functionality
 - User Experience
 - Content
 - Users
 - Etc.
- Limited time frame

Proof of Concept (POC)

- To prove feasibility
 - Functionality
 - User Experience
 - Content
 - Users
 - Etc.
- To prepare & set expectations
- To refine requirements

Project phases

