DDA Indexing platform
The DDI-L search challenge

- RESTful API:
  - Defined in XML or HTTP params
  - Responding in JSON or XML

- Search for:
  - Study level
  - Variables / Questions / Categories
  - Concepts / Universes

- Resolve DDI-URN's
  - (Id / version)
  - to XML
Webserver
Luceen indexing
Query the DDI-L XML files
Support for XML and JSON output
Do humans search more than machines?
Do humans search more than machines?
The users came along …
… what happened to the programs?

XML format - DDA schema
Simplify for reuse
Genericode CVs
dalra design reference
Global indexing – hits on Google :)

Watchmen
2009 Film

5/5  7.8/10 - IMDb
5/5  65% - Rotten Tomatoes

Watchmen is a 2009 American vigilante superhero film directed by Zack Snyder and starring an ensemble cast of Malin Akerman, Billy Crudup, Matthew Goode, Jackie Earle Haley, Jeffrey Dean Mor... More Wikipedia

Release date: March 6, 2009 (USA)
Director: Zack Snyder
Featured song: The Times They Are a-Changin'
Global indexing – hits on Google :)
Searching and inferencing

**Question**

**Variable**

**Category**

**Concept**

**Universe**

**Result**

Group results based on study

Hits per page: 50

**Result view**

Choose wich details you want to see in the search results:

- Study information
- Questions
- Variables
- Categories
- Concepts
- Universes

**GENERATION HAPPY, 2005**

**Variable**: ER DU LYKKELIG

**Found in**:

ER DU LYKKELIG

**Details**

**Scale**

- Category

**Questions**

- Spm. 46: Synes du, at du er:

**Categories**

- Meget lykkelig
- Ret lykkelig
- Ikke særlig lykkelig
- Meget ulykkelig
- Ved ikke

**Concepts**

- 'Close up' Nu kommer nogle spørgsmå ...
Searching and inferencing
Searching and inferencing
Bringing it all together
Deployment, security, integration and scale

Web request

Load balancing / security

Web server
- DDA / SA Wordpress

Load balancing
- Restrict access
- Security
- HAProxy
- Keepalive

Indexing platform
- Luceen indexed XML
- eXist
- Cluster
Thanks – Q&A

Technical information
http://dda.dk/search-technical-information

Source code and install guide
https://github.com/DanishDataArchive/indexingplatform

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Illustrations: Digitalbevaring.dk