

# Integrating Grep

naturfag.no  
Cappelen Damm

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Ravn Webveveriet AS, Topic Maps 2008, Oslo, 03.03.2008

## Ravn Webveveriet AS

- Established 1998
- Topic Maps since 2004
- 10 employees
- Based in Oslo
- Projects: Education, E-learning, Information, commercial

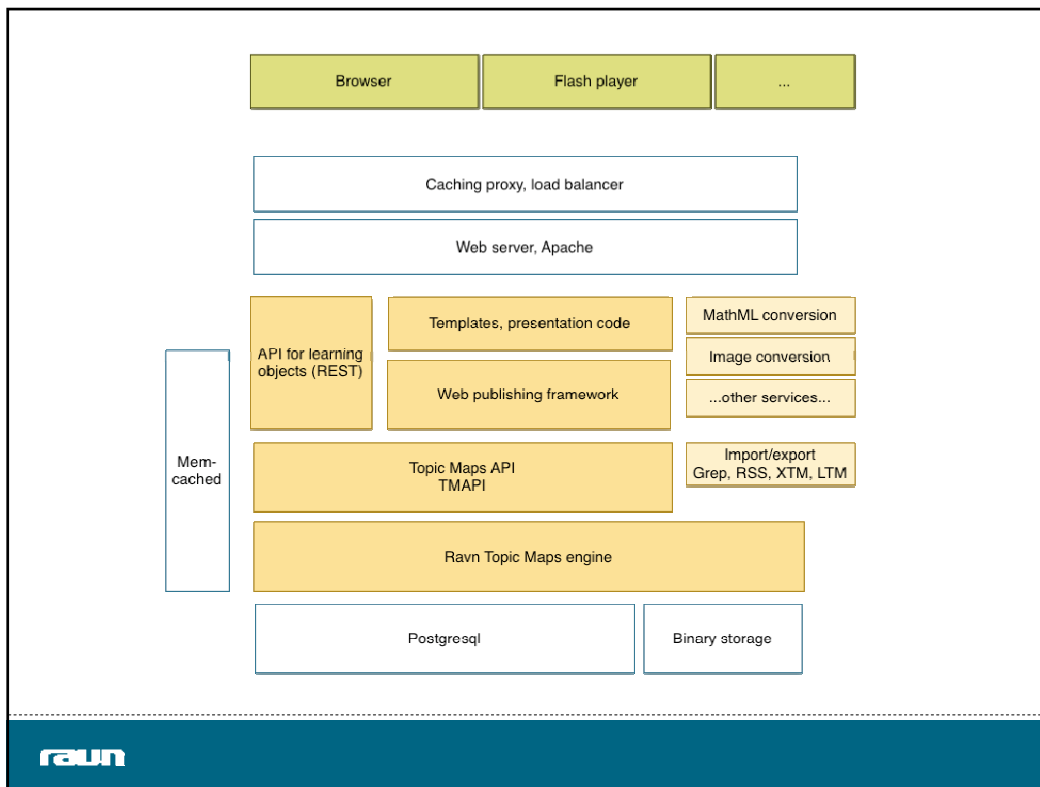
- Technical overview
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## Technical overview

- Web publishing based on Topic Maps
- Common framework, storage in topic maps
- Metadata + content in the topic map
- Front-end built to fit
- Built with open-source components

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## Why Grep?

*From the developer's and system owner's perspective.*

- Authoritative data from the source
- Interoperability
- Metadata for the long term
- Flexibility through Topic Maps
- Service to end users

# Integrating Grep

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## Import

- Import XTM 1.0 from Grep
- A great use case for Topic Maps
- The Topic Maps standard clearly defines the semantics for merging
- Item identifiers track imports

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# Updates? No.

- Grep updates published in RSS
- We do not follow updates. Yet.
  - Errors from the publisher (udir)
  - Changes in Grep directly affects published material
  - Accidentally deletions could destroy our metadata
- Solution: A more complex ontology.

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# Maintaining metadata

- Facilitating metadata registration
- Making the authors' job bearable.
- Register metadata at a coarse level first
- Inferring metadata for the single learning objects

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# Using it

- Creating rich web applications
- Interoperating with others
  - Exporting Learning Objects (LOM)
  - Grep: A common vocabulary (PSIs)
- “Curriculum centric user experiences”

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# Real Life

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# Naturfag.no

- One web site, one topic map
- Most of Grep not relevant
- Metadata-based: Many perspectives to the same content
- Grep visible/navigable for the public
- Grep adds value to search
- LOM export with vocabularies from Grep

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# Naturfag.no

- ~20,000 topics
- ~35,000 occurrences
- ~60,000 associations
- Students' work data in separate topic maps (in development).

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# Cappelen Damm

- Our largest topic map, and growing...
- 250 web sites, one topic map
- “Parallel” web sites in other languages (Nynorsk), scope
- Simple ontology: Close to the published content
- Interactive flash from the topic map
- Sharing content across sites

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# Cappelen Damm

- ~300,000 topics
- ~500,000 occurrences
- ~350,000 associations
- ~250 different web sites

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## Now to the Real Users

- Øystein Sørborg,  
Naturfagsenteret  
(Norwegian Centre for Science Education)
- Kristin Schjødt-Osmo,  
Cappelen Damm

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Thank you

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