Hydra at The Royal Library

Hydra Europe Symposium, Dublin
7. April, 2014
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Involvement with Hydra

• We started with Hydra autumn of 2012
• Hydra camp October 2012
• First project released early 2013
• Became Hydra Partner January 2013
The Small and Fast Project

- Student paper self-deposit and discovery
- 2 months of development
- Dias.kb.dk
The Large and Slow Project

• A complete digital library infrastructure

• Three integrated main components:
  • Digital curation and archiving
  • Discovery and dissemination
  • Long-term preservation (bit repository)
Infrastructure overview

**INTERNAL**

- **Long-term Preservation** "Yggdrasil"
  - RL Bit Repository

- **Archiving and Data Management** "Valhal"
  - Ingest workflows
  - Metadata enrichment
  - Digital curation

- **Discovery**

- **Repository**

**EXTERNAL**

- **Dissemination, Data Delivery** "Bifrost"
  - Discovery
  - Repository

- **Data out**
  - Apps for web/mobile etc.
  - Raw data (REST API)
  - OAI-PMH provider
Valhal

- Safe repository for all digital holdings
- Application for digital curation/data management
Yggdrasil

- Integration with bit repository for long-term preservation
- Managed from Valhal
Bifrost

- Repository for dissemination objects
- General and specialised applications for discovery and object delivery
Technology

- Entirely open source!
- All Royal Library code available on Github

- Software framework: Hydra
  - projecthydra.org
- Repositories: Fedora Commons
  - fedora-commons.org
- Search engine: Solr
  - lucene.apache.org/solr
- User interfaces and applications: Blacklight
  - projectblacklight.org
Community

• The technology is state of the art
- **BUT**
• The community is of equal – or higher - importance!
• Knowledge sharing
• Shared solutions and gems (code)
• Make your voice heard!
• Working groups forwarding important topics

• Welcome to new European Partners!
Conclusion

• Hydra is enabling:
  • Strategic development
  • Organisational development
  • Technology and software development