

NTK

50°6'14.083"N, 14°23'26.365"E
Národní technická knihovna
National Library of Technology

From Invenio 1 to DSpace 7: Sustainability of an Institutional Repository in Practice

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Open Repositories 2024

5th June 2024



Institutional Repository of NTK

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History

2024



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2023

Transition

Dec 2022

The bottom line
of sustainability

2020-2022

More critical period

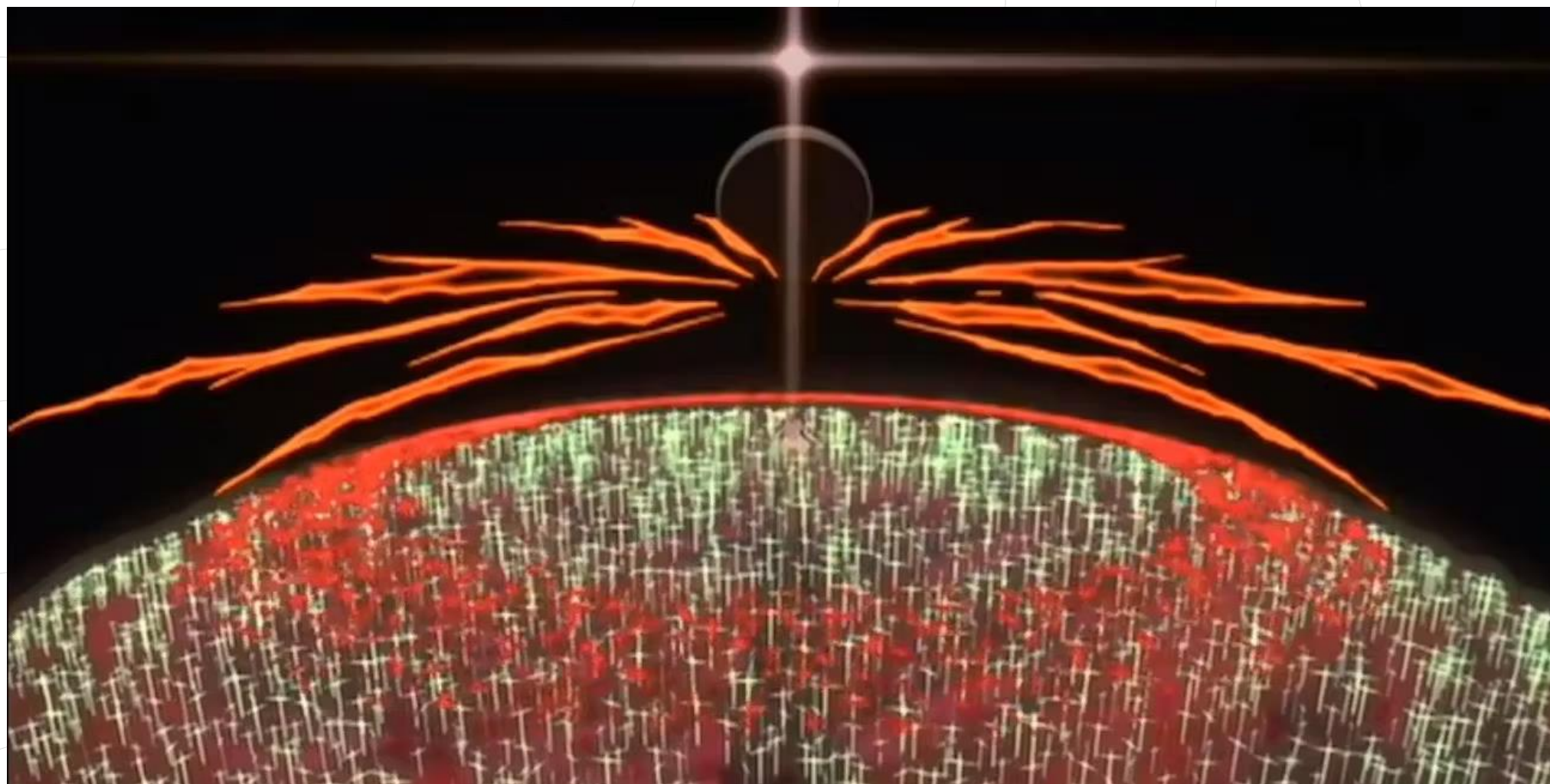
2018-2019

Critical
period

2011

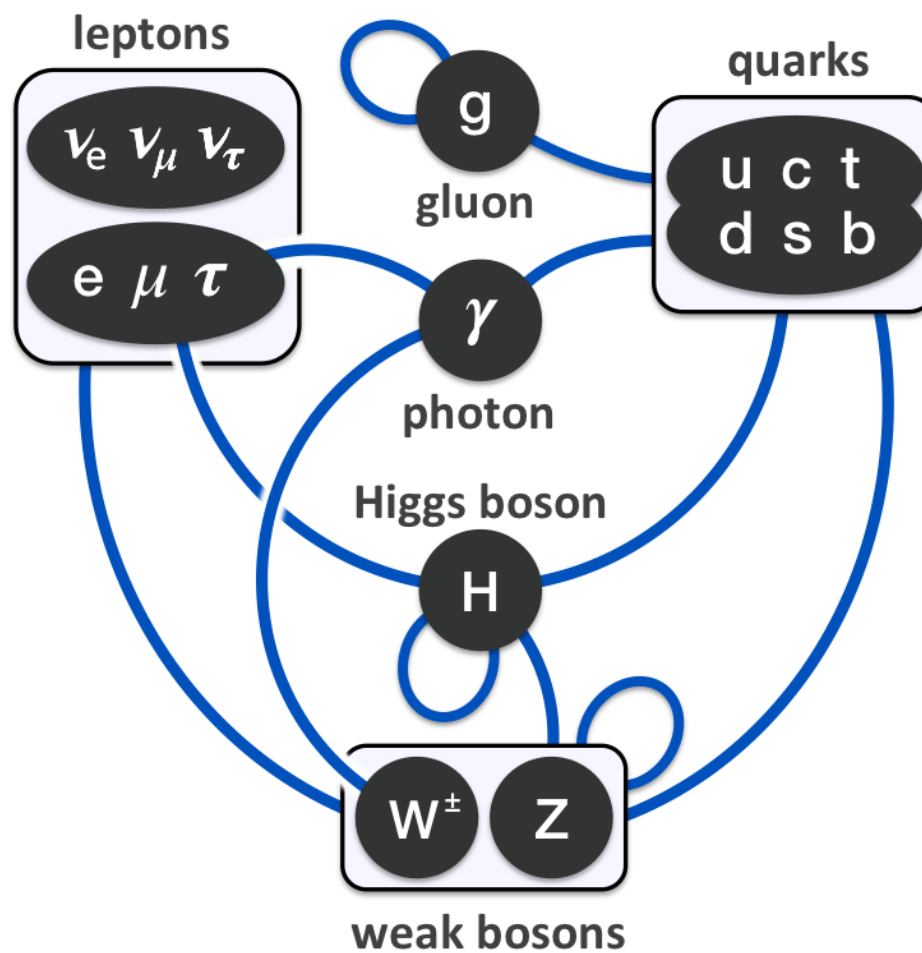
INVENIO

Invenio vs DSpace (the case of National Library of Technology)



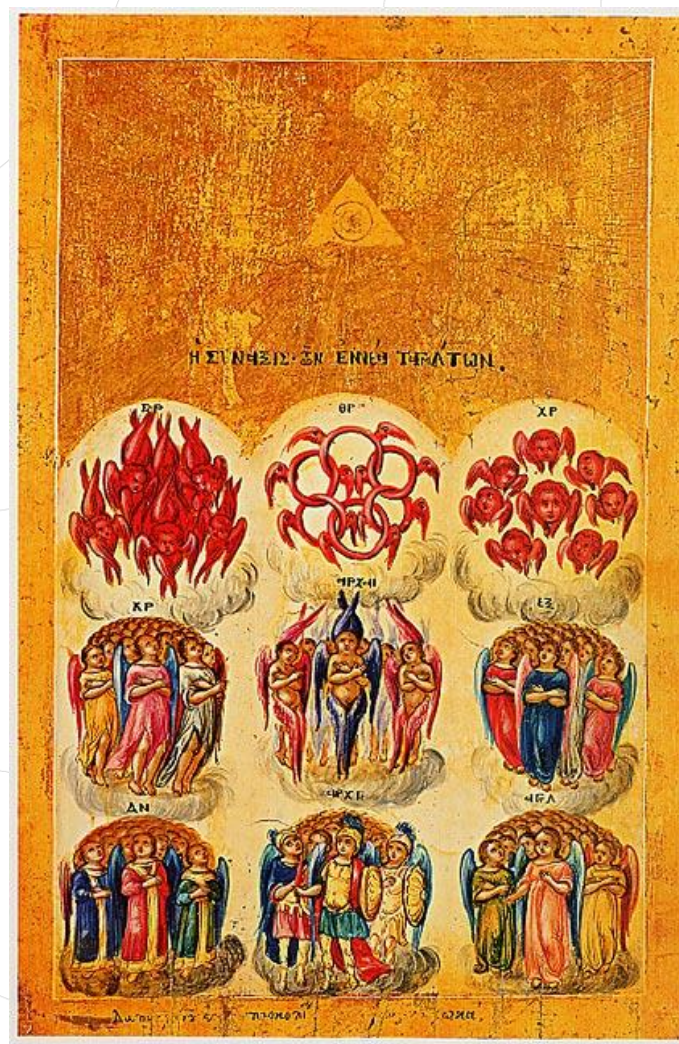
Invenio vs DSpace – MARC21 vs Dublin Core

Metadada model



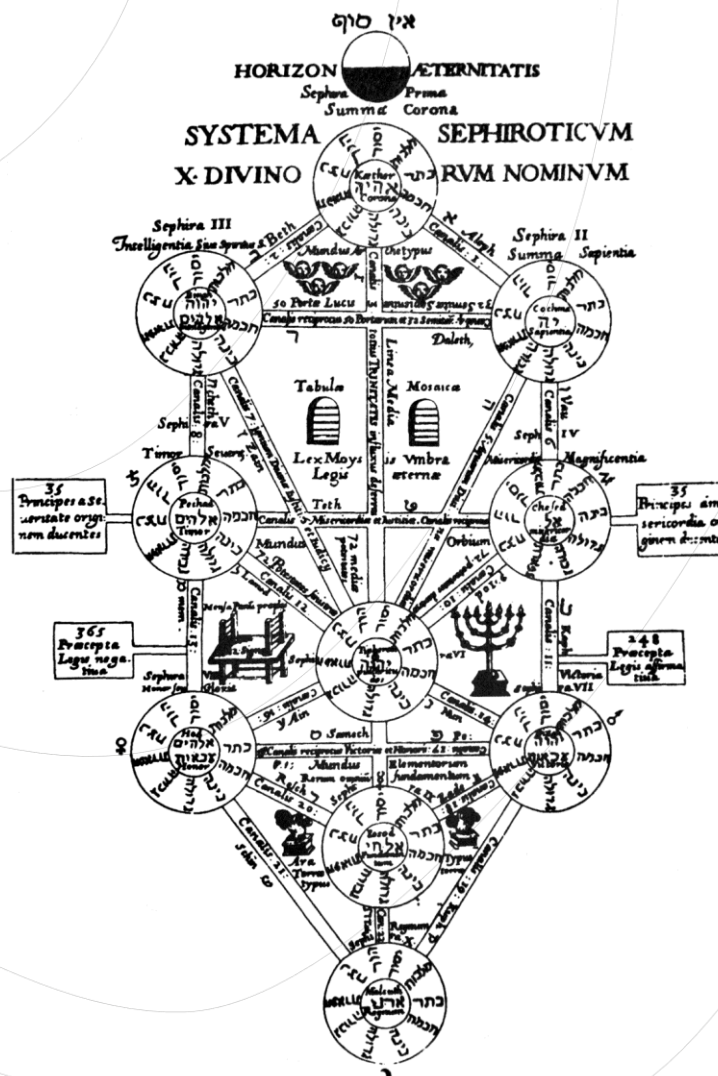
Invenio vs DSpace – structure reconceptualization

Entities



Invenio vs DSpace – from metadata to links

Relations



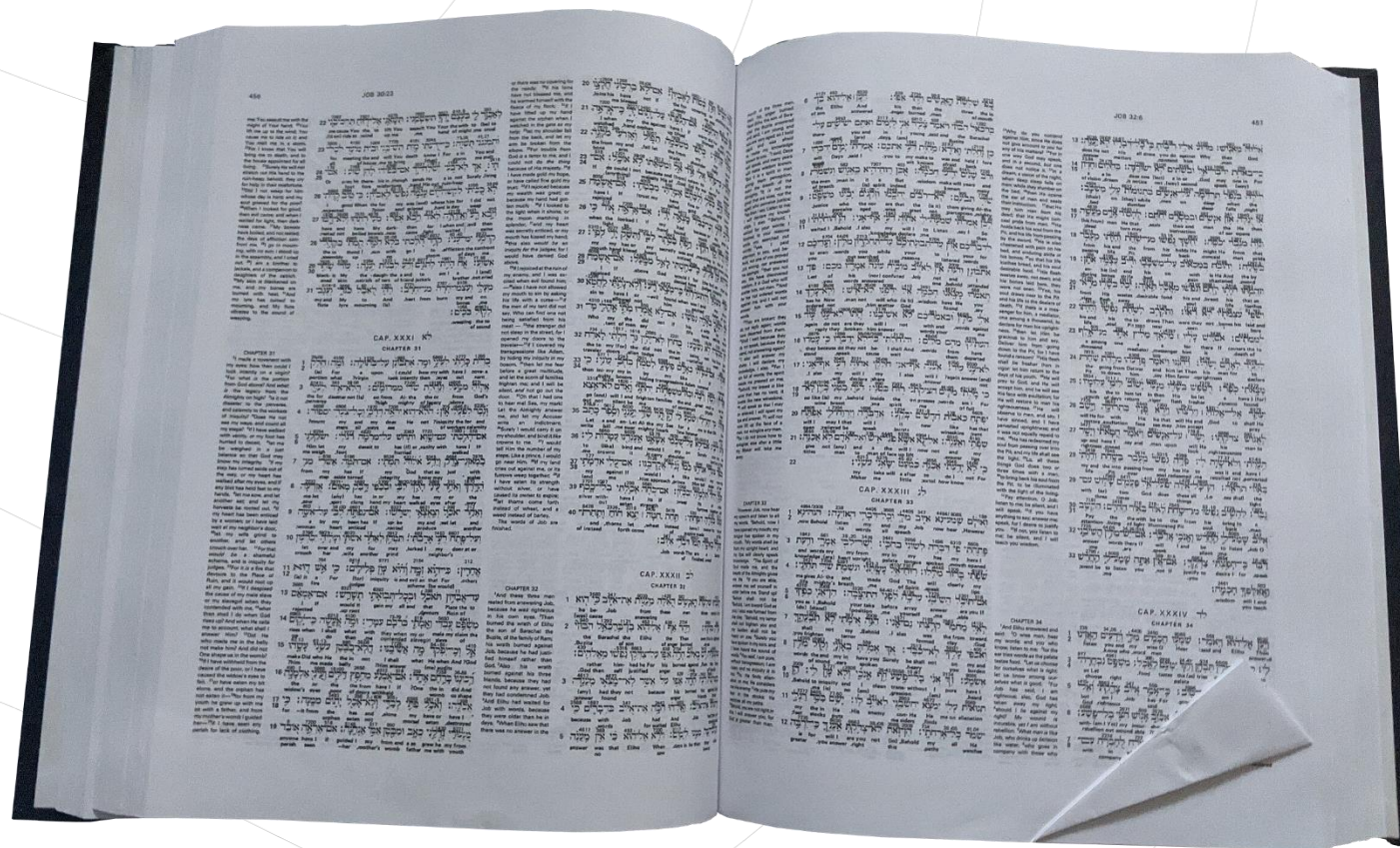
Invenio vs DSpace – attention exercise

COMMUNITIES AND COLLECTIONS



Invenio vs DSpace – new ecosystem

Terminology



Migration

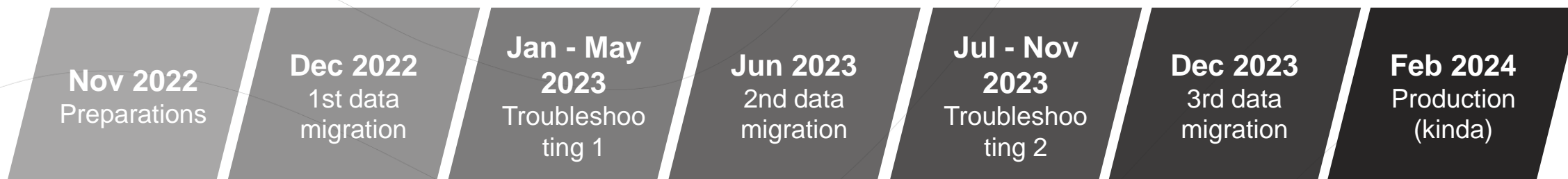


Data migration - timeline

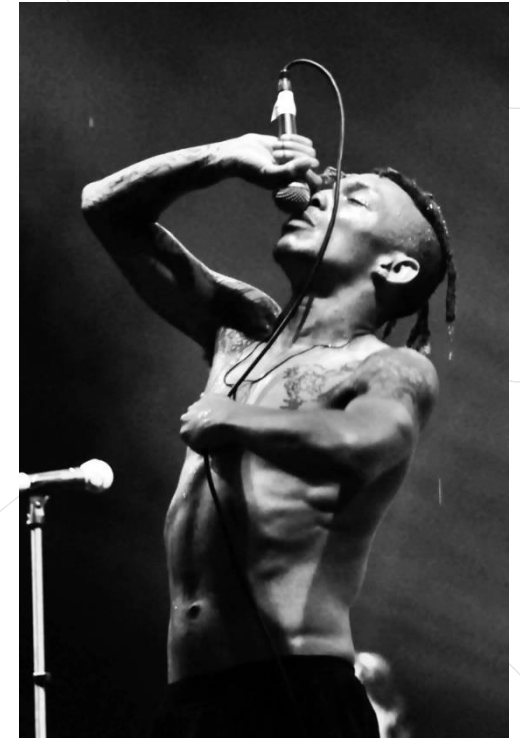
Expectations



Reality



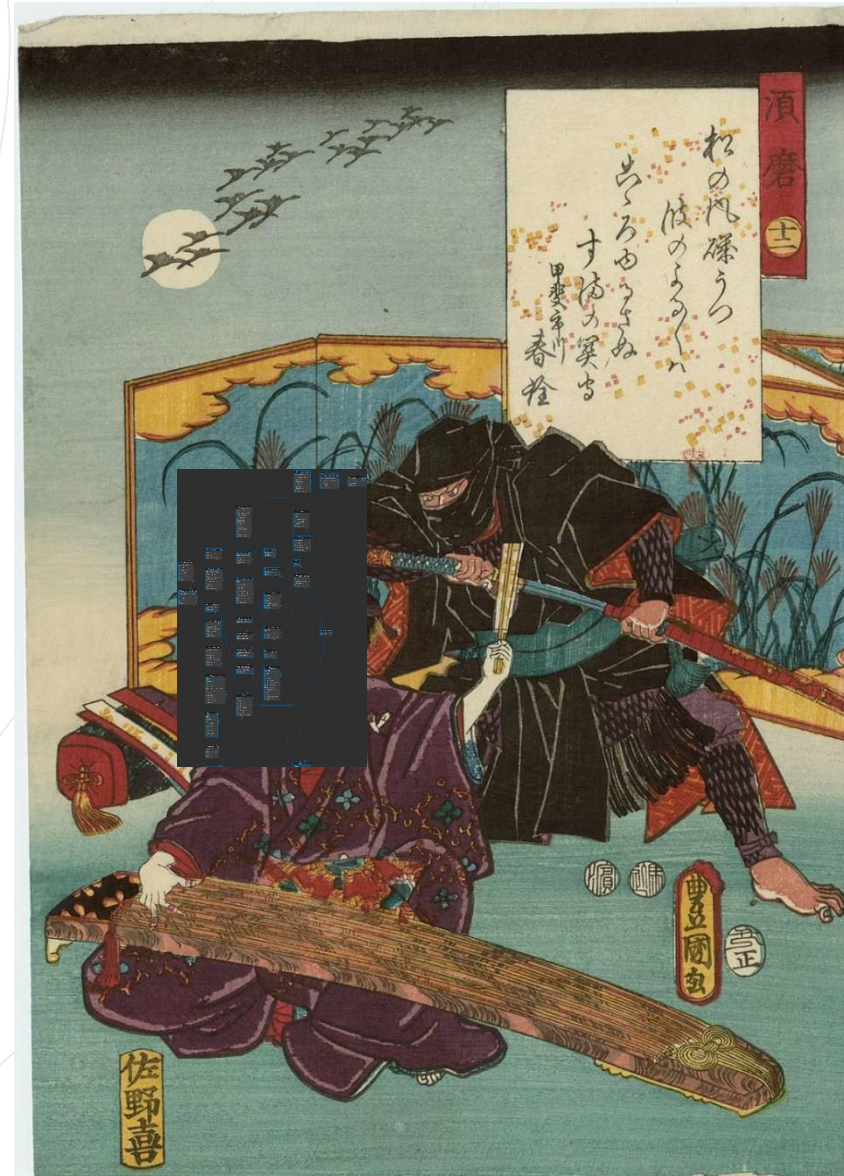
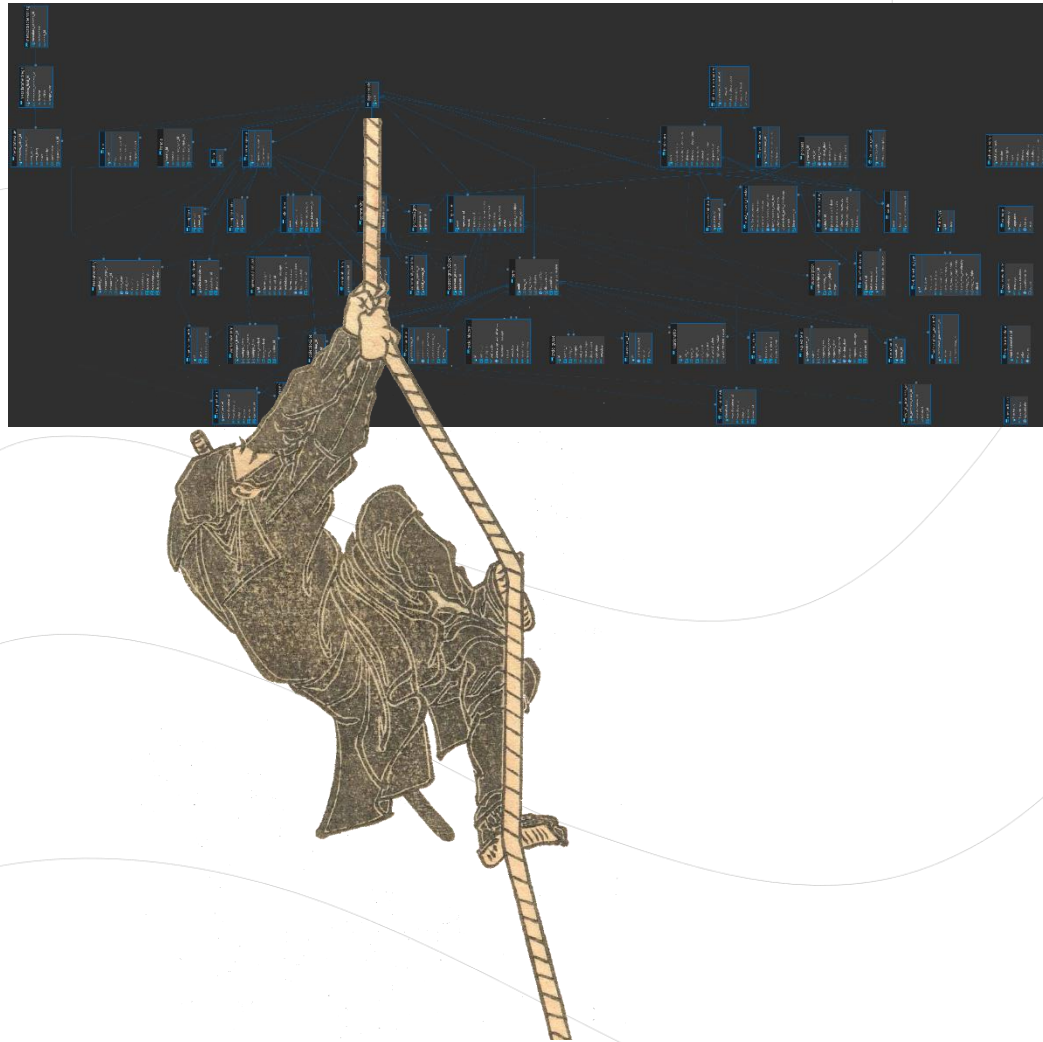
Mistakes during data migration – missing, duplicate and unexpected or Tricky



Mistakes during data migration – forbidden techniques

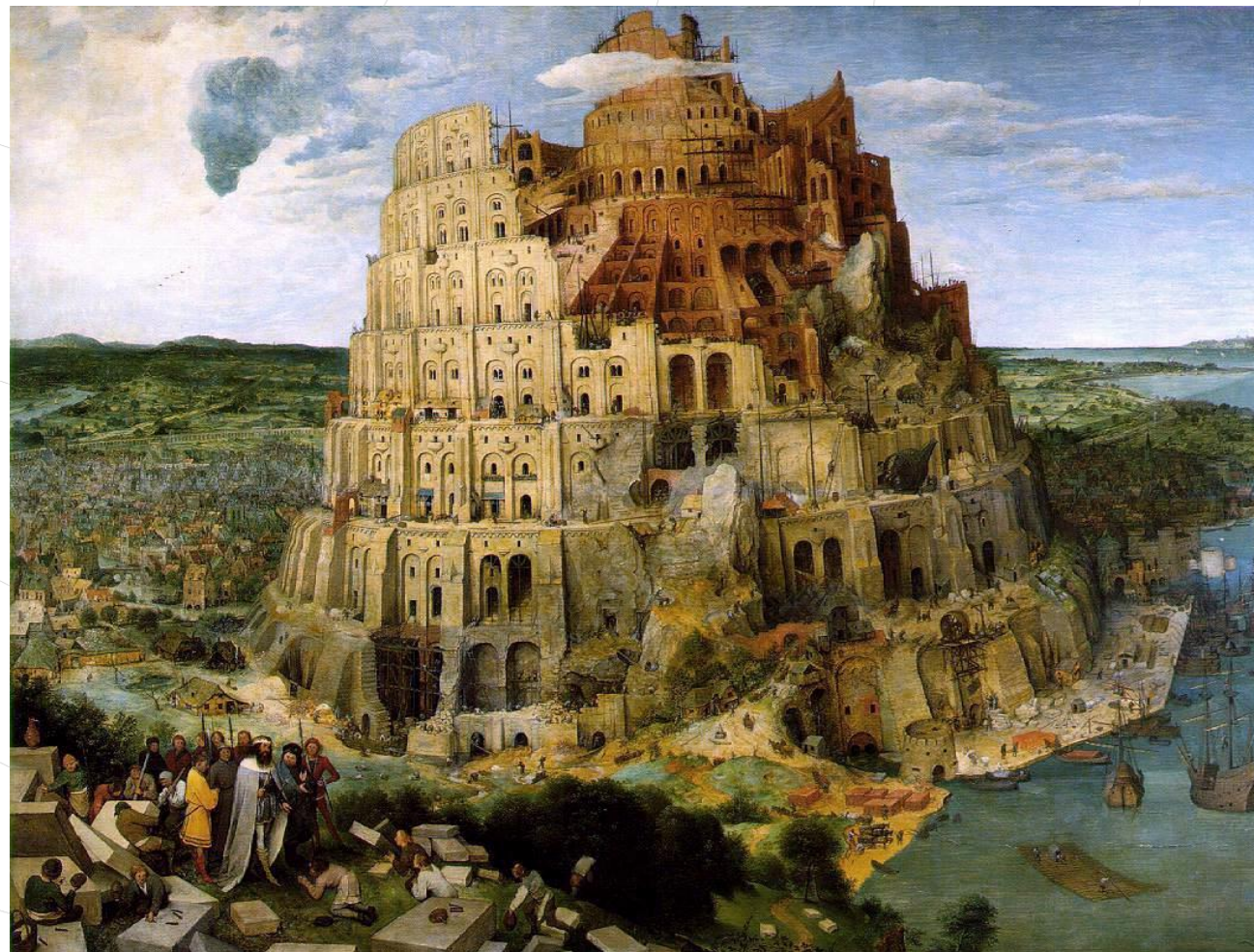
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Invenio vs DSpace – metadata conversion

Multilingual Metadata



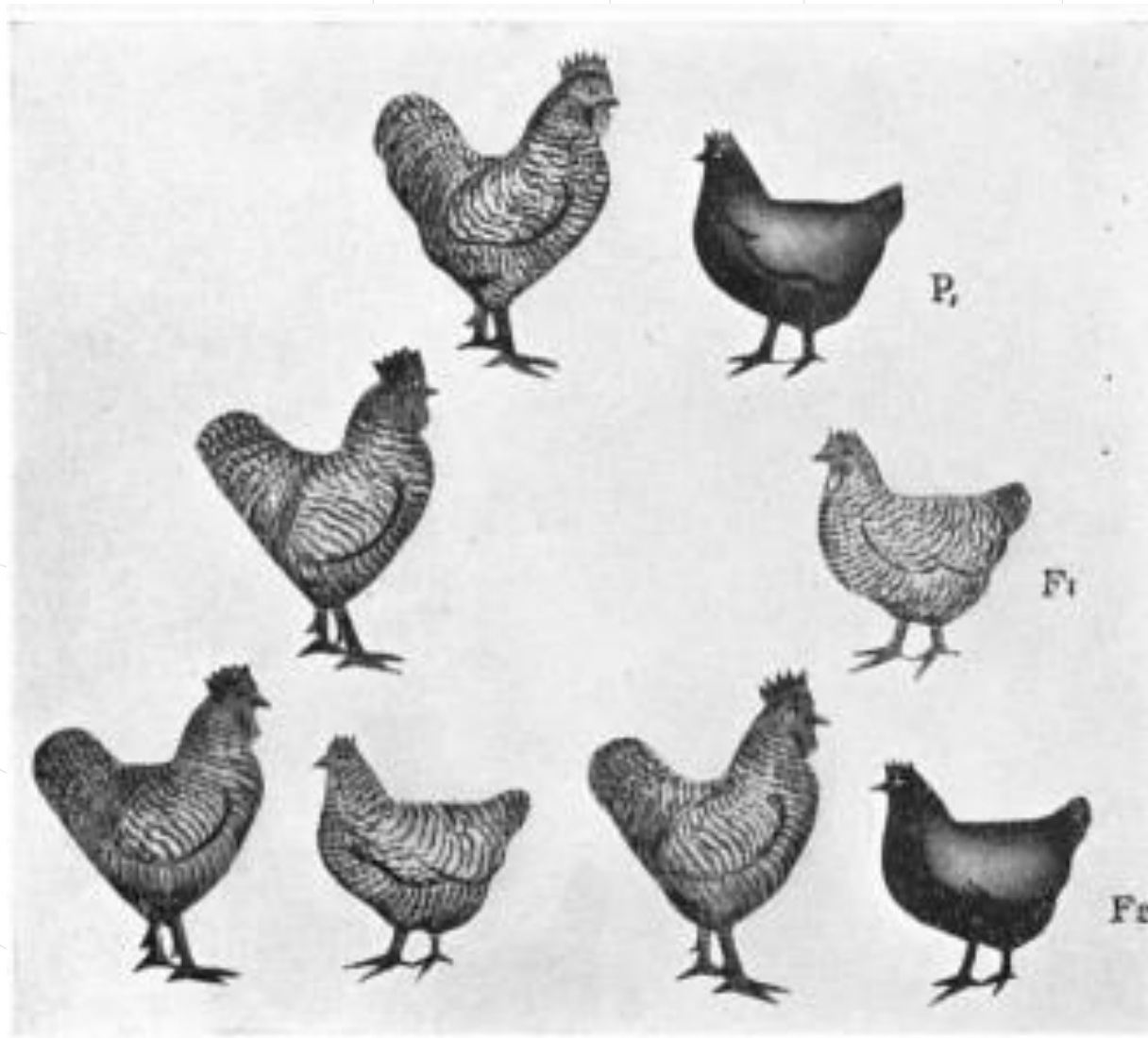
Primary collection – small but important detail



Design mischief – omitted features



Access rights – evolution of feature and solution



Handles – configuration masterclass

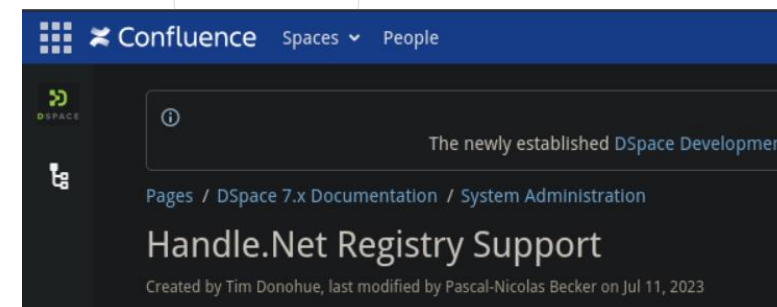
- In order to configure handle properly, you need to
 1. configure handle server in local.cfg and dspace.cfg
 2. configure handle server
 3. obtain prefix from Handle.net
 4. configure prefix in local.cfg
 5. update prefixes
 6. database query to update canonical prefix
 7. set up firewall properly
 8. run the handle server

```
167 # CNRI Handle prefix
168 # (Defaults to the reserved dummy/fake prefix of 123456789)
169 handle.prefix = 20.500.14391
```

```
161 handle.canonical.prefix = https://hdl.handle.net/
162 #handle.canonical.prefix = http://hdl.handle.net/
```

```
316 # Directory for installing Handle server files
317 handle.dir = ${dspace.dir}/handle-server
```

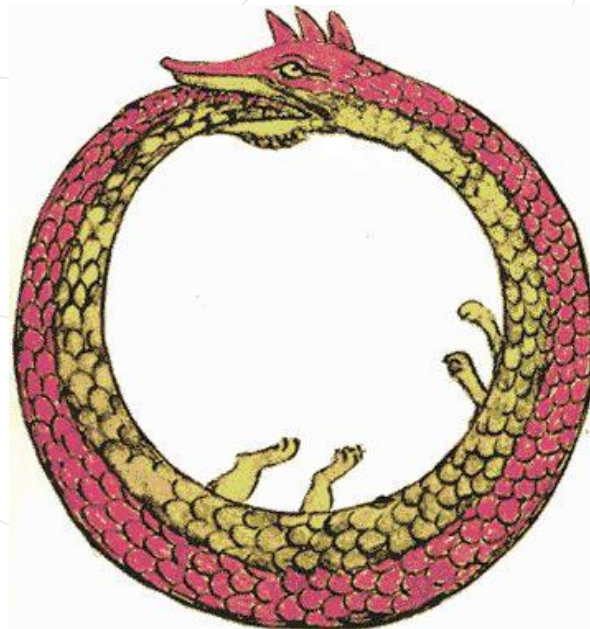
```
1 1 update metadatavalue
2 2 set text_value = regexp_replace(text_value, 'https://repositor.techlib.cz/handle', 'https://hdl.handle.net')
3 3 where metadata_field_id = '34'
```



```
1 {
2   "hdl_http_config" = {
3     "bind_address" = "0.0.0.0"
4     "num_threads" = "15"
5     "bind_port" = "8000"
6     "log_accesses" = "no"
7   }
8
9   "server_type" = "server"
10  "hdl_udp_config" = {
11    "bind_address" = "0.0.0.0"
12    "num_threads" = "15"
13    "bind_port" = "2641"
14    "log_accesses" = "no"
15  }
16
17  "hdl_tcp_config" = {
18    "bind_address" = "0.0.0.0"
19    "num_threads" = "15"
20    "bind_port" = "2641"
21    "log_accesses" = "no"
22  }
```

Sustainability of the repository and our own personal future challenges

- Budget ↔ open source, staff
- Staff ↔ alternating, regular flow vs development, imparting knowledge
- Software ↔ upgrades (major version 8), graphic design
- Metadata quality ↔ self-archiving launch, curator's tasks and workflow
- Files archive formats ↔ self-archiving launch, curator's tasks and workflow



Complete list of bugs, mistakes and what you can ask

Handle server set-up

Contributors' roles

Metadata editing

Upgrades and bugs in versions

Empty collections

Multilingual metadata values

Undetermined primary collection for items

Fail of contributor's roles

Conversion of access metadata to access rights on files

Missing, duplicate or unexpected/tricky records, metadata and files

Extra files

Bugs in new minority versions

- Alerts

- Video streaming (restricted files)

- Record versions

- Bugs in submission form

- Contributor's roles

Documentation making, knowledge database

UI design and changes

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Thank you for your attention!

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