





The Reptor Data Repository

A Proof of RDA Concepts

The Reptor Repository

- Reptor („**Repository**“) is a data repository which was developed along some RDA recommendations
- Reptor turns a standard web server into a data repository

Index of /testdir

	Name	Last modified	Size
	Parent Directory	-	
	image-1.jpg	2016-12-11 10:31	37K
	imagelist.js	2016-12-11 10:31	0
	imagenotfound.jpg	2016-12-11 10:31	3.7K



language	eng
coverage	Area around Ismaring
rights	Creative Commons
contributor	Not available
source	A SD Card in a Nikon camera
relative	http://www.rda-alliance.org

Metadata - Data Types

Name: media-type-RDA-image
 Content: Media Types (formerly known as MIME types) as assigned and listed by the IANA. This tree collects the registration tree 2018171
 Identifier:<http://dx.pdx.org/urn:uuid:001114832444c0d059543c85>

[Go to definition](#)

Name: Handle Identifier-ASCII
 Content: Handle-String in its general ASCII syntax
 Identifier:<http://dx.pdx.org/urn:uuid:001114832444c0d059543c85>

Current functionality


- **DFT schema**: metadata handling, PID management, object data
- Integration of **Data Type Registries (DTR)**
- Implementation of the **Research Data Collection WG API**
- OAI-PMH and ResourceSync
- Social media integration
- ...

Metadata - plain text

Reptor is a PHP application which turns a webserver into a data repository. It demonstrates the functionality of a modern data repository along the recommendations of the Research Data Alliance (RDA).

All data is stored in an arbitrary filesystem or a part of it. Only a PHP enabled webserver with access to this filesystem is necessary to run Reptor. More detailed information can be found on the [Homepage](#).

The Reptor software can be found on [GitHub](#).



Metadata - Data Types

Name: TrustedRepository
Content: true if repository is trusted.
Identifier: <http://dtr.pidconsortium.eu:8081/objects/21.T11148/81e3a5aac9cae71240b>

[Go to definition](#)

Persistent Identifier

No PID assigned so far.

Admin Interface

PID Management

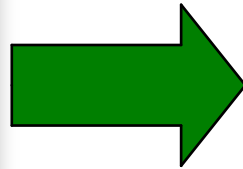
- [Shortref.org](#)

Metadata

- [Plain Text](#)
- [Dublin Core](#)
- [Data Type Registry](#)
- [Collections](#)
- [Overview](#)

Object Data

- [Files and Folders](#)



PID Management

Choose a folder where the Shortref PID should point to:

/data

Url: http://dft-rda.esc.rzg.mpg.de/reptor/index.php?path=/data
Path: /data

Title

Title

Email

Email

Subprefix

Subprefix

Dataset Name

Dataset Name

Dataset Version

Dataset Version

[Add Shortref PID](#)

Metadata - Collections

Choose a folder:

/data/Photos

Url: http://dft-rda.esc.rzg.mpg.de/reptor/admin/c
Path: /data/Photos

Enter collection items (one per line):

```
{
  "contents": [
    {
      "id": "https://www.heise.de/vfotoV",
      "location": "",
      "datatype": "",
      "ontology": "",
      "mappings": {
        "index": 0
      }
    }
  ]
}
```

Metadata - Dublin Core

Choose a folder:

/data/Photos

Url: http://dft-rda.esc.rzg.mpg.de/reptor/index.php?path=/data/Photos
Path: /data/Photos

Title Photo Collection

Description Some photos of flowers, eve

Creator Thomas Zastrow

Subject Photos

Publisher The Reptor Repository

Date 2016-10-29

Format jpeg

Type Raster Image

Identifier http://hdl.handle.net/11346/i

Language eng

Coverage Area around Ismaning

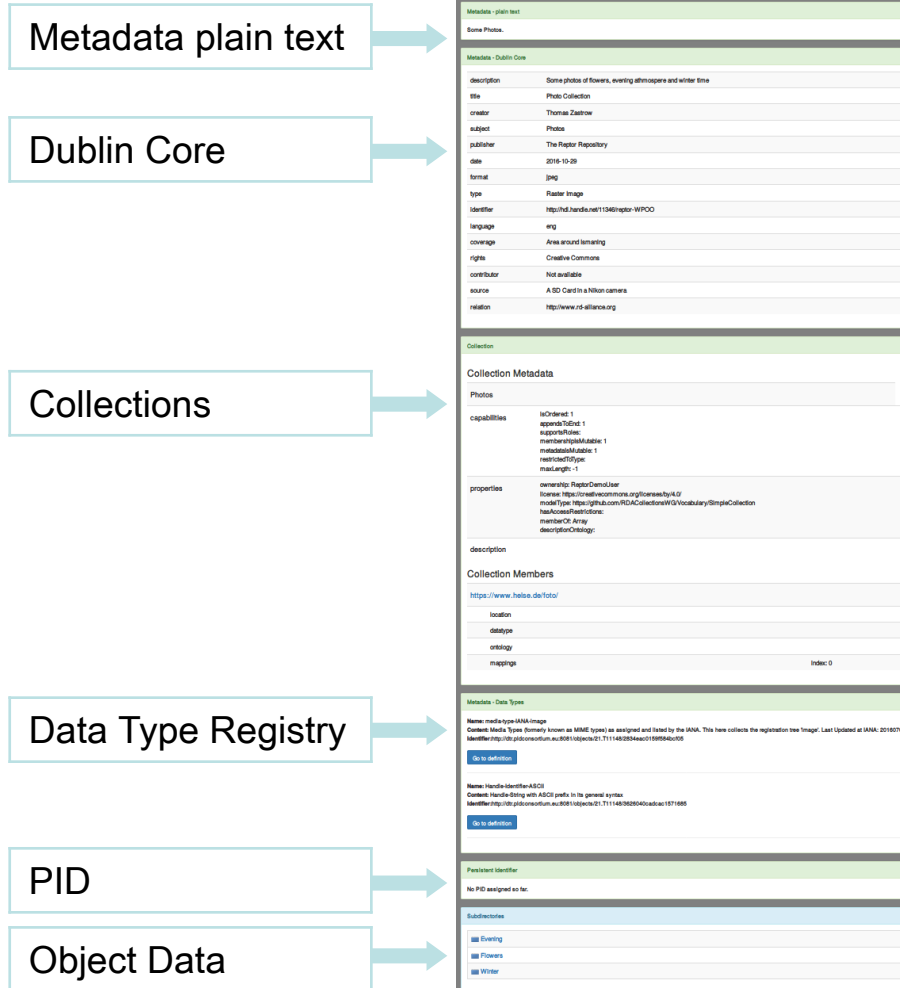
Rights Creative Commons

Contributor Not available

Source A SD Card in a Nikon camer

Relation http://www.rd-alliance.org

The Result: rendering a DO



Collection Management

Collection Metadata	
Photos	
capabilities	isOrdered: 1 appendsToEnd: 1 supportsRoles: membershipsMutable: 1 metadataIsMutable: 1 restrictedToType: maxLength: -1
properties	ownership: ReptorDemoUser license: https://creativecommons.org/licenses/by/4.0/ modelType: https://github.com/RDACollectionsWG/Vocabulary/SimpleCollection hasAccessRestrictions: memberOf: Array descriptionOntology:
description	
Collection Members	
https://www.heise.de/foto/	
location	
datatype	
ontology	
mappings	index: 0

```
curl -X GET http://dft-rda.esc.rzg.mpg.de/reptor/collections/api.php/collections
curl -X GET http://dft-rda.esc.rzg.mpg.de/reptor/collections/api.php/collections/Photos/members
```

Data Type Registry @ GWDG

Metadata - Data Types

Name: media-type-IANA-image

Content: Media Types (formerly known as MIME types) as assigned and listed by the IANA. This here collects the registration tree 'image'. Last Updated at IANA: 20160701

Identifier: <http://dtr.pidconsortium.eu:8081/objects/21.T11148/2834eac0159f584bcf05>

[Go to definition](#)

Name: Handle-Identifier-ASCII

Content: Handle-String with ASCII prefix in its general syntax

Identifier: <http://dtr.pidconsortium.eu:8081/objects/21.T11148/3626040cadcac1571685>

[Go to definition](#)



Document Repository Introduction All Types [Sign In](#)

image Search

media-type-IANA-image

Type: PID-BasicInfoType

[Digital Object View](#) [JSON View](#) [Versions View](#) [Show Relationships](#)

Identifier

21.T11148/2834eac0159f584bcf05

Type Name *

media-type-IANA-image

please use printable ascii characters without blank

Description

Media Types (formerly known as MIME types) as assigned and listed by the IANA. This here collects the registration tree 'image'. Last Updated at IANA: 20160701

PIDs via Shortref.org

PID Management

Choose a folder where the Shortref PID should point to:

Url: <http://dft-rda.esc.rzg.mpg.de/reptor/index.php?path=/data>
Path: /data

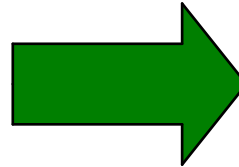
Title

Email

Subprefix

Dataset Name

Dataset Version



shortref.org
Create Easy-to-Cite persistent dynamic URLs

Easily Cite your data and resources
Forget the lengthy links



More than a URL shortener - We use the [Handle System](#)® to create persistent identifiers (PIDs)
Specially design for researchers
Share your data sets, dynamic queries, customized graphs

This is a free service provided by [LINDAT / CLARIN](#)

Conclusion

- Available as Open Source (Apache 2.0 license) on GitHub:
 - <https://github.com/TomZastrow/reptor>
- Written in PHP, no database is necessary
- Existing data can easily be „mounted“, all functionality is optional