NCSA Brown Dog

Data Transformation Service
Brown Dog Data Transformation Service

- Extensibility
  - Distributed machines, Docker, Virtual Machines
- API
- Provenance
- Information Loss
- Move data manipulation functionality to data
Tools:

Filter by tool types: All Types

Displaying 1 to 6 of totally 35 available:

The Predictive Ecosystem Analyzer
Use PECAn to convert between various data sources and ecological model formats.
Tool type: Polyglot
Deployments: dcp
Submitter: mchenry
Last modified: Mar 05, 2015

Cinemetrics
Use Cinemetrics to analyze videos and extraction derived products such as shots.
Tool type: Medici
Submitter: mchenry
Last modified: Mar 05, 2015

Discriminatively Trained Deformable Part Models
Extract people within images.
Tool type: Medici
Submitter: mchenry
Last modified: Mar 05, 2015

Natural Language Toolkit (NLTK)
Use NLTK to extract summaries and language of documents.
Tool type: Medici
Deployments: dts, dts-dev
Submitter: mchenry
Last modified: Mar 05, 2015

CMU Sphinx
Use CMU Sphinx to extract text from audio.
Tool type: Medici
Submitter: mchenry
Last modified: Mar 05, 2015

Versus
Use Versus to perform a variety of content based comparisons.
Tool type: Medici
Submitter: mchenry
Last modified: Mar 05, 2015
<table>
<thead>
<tr>
<th>HTTP Method</th>
<th>Endpoint</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET</td>
<td>/outputs</td>
<td>List all output formats that can be reached</td>
</tr>
<tr>
<td>GET</td>
<td>/inputs</td>
<td>List all input formats that can be accepted</td>
</tr>
<tr>
<td>GET</td>
<td>/inputs/{input format}</td>
<td>List all output formats that can reach the specified input format</td>
</tr>
<tr>
<td>GET</td>
<td>/convert</td>
<td>List all output formats that can be reached</td>
</tr>
<tr>
<td>GET</td>
<td>/convert/{output format}</td>
<td>List all input formats that can reach the specified output format</td>
</tr>
<tr>
<td>GET</td>
<td>/convert/{output format}/file url</td>
<td>Convert the specified file to the requested output format</td>
</tr>
<tr>
<td>POST</td>
<td>/convert/{output format}</td>
<td>Convert the uploaded file to the requested output format</td>
</tr>
<tr>
<td>GET</td>
<td>/software</td>
<td>List all available conversion software</td>
</tr>
<tr>
<td>GET</td>
<td>/servers</td>
<td>List all currently available Software Servers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HTTP Method</th>
<th>Endpoint</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET</td>
<td>/api/extractions/supported_input_types</td>
<td>Lists the input file format supported by currently running extractors</td>
</tr>
<tr>
<td>POST</td>
<td>/api/extractions/upload_file</td>
<td>Uploads a file for extraction of metadata and returns file id</td>
</tr>
<tr>
<td>POST</td>
<td>/api/extractions/upload_url</td>
<td>Uploads a file for extraction using the file’s URL</td>
</tr>
<tr>
<td>GET</td>
<td>/api/extractions/{id}/status</td>
<td>Checks for the status of all extractors processing the file with id</td>
</tr>
<tr>
<td>GET</td>
<td>/api/files/{id}/tags</td>
<td>Gets tags of a file</td>
</tr>
<tr>
<td>GET</td>
<td>/api/files/{id}/technicalmetadata</td>
<td>Get technical metadata of the resource described by the file</td>
</tr>
<tr>
<td>GET</td>
<td>/api/files/{id}/versusmetadata</td>
<td>Get Versus metadata of the resource described by the file</td>
</tr>
<tr>
<td>GET</td>
<td>/api/extractions/server_ips</td>
<td>Lists servers IPs running the extractors</td>
</tr>
<tr>
<td>GET</td>
<td>/api/extractions/extractors_names</td>
<td>Lists the currently running extractors</td>
</tr>
<tr>
<td>GET</td>
<td>/api/extractions/extractors_details</td>
<td>Lists the currently details running extractors</td>
</tr>
</tbody>
</table>
Brown Dog Service Demo

Select Options:

Extractors:
- Metadata

Converters:
- ameriflux.zip
- ascii
- azw3
- bmp
- clim
- dalec
- dib
- doc
- docx
- ed.zip

Results:
Converted file URL:
http://dap.ncsa.illinois.edu:8184/file/72796_filename.clim
Code Snippets

**cURL**
```
```

**Python**
```
import requests
files = {'file': open('US-Dk3-2001-2003.xml', 'rb')}
extract_url = 'https://bd-api.ncsa.illinois.edu/dts/api/extractions/upload_file'
file_id = requests.post(extract_url, headers={'Authorization': 'cbe96166-59db-4594-b400-468a3e121e28', 'Accept': 'application/pdf'}, files=files)
metadata_url = 'https://bd-api.ncsa.illinois.edu/dts/api/files/' + file_id + '/technicalmetadata.json'
metadata = requests.get(metadata_url, headers={'Authorization': 'cbe96166-59db-4594-b400-468a3e121e28', 'Accept': 'application/pdf'})
metadata.text
convert_url = 'https://bd-api.ncsa.illinois.edu/dap/api/convert/clim'
conversion = requests.post(convert_url, headers={'Authorization': 'cbe96166-59db-4594-b400-468a3e121e28', 'Accept': 'application/pdf'}, data={'file_id': file_id})
```

**Matlab**
```
bd_funcs = bd_client;
```

**R**
```
bds <- "bd-api.ncsa.illinois.edu"
input_filename <- "http://browndog.ncsa.illinois.edu/examples/US-Dk3-2001-2003.xml"
output <- "clim"
output_path <- "C:/path/for/outputfile/
```
Selected Site
Set parameters for the run.

PFT
- populus
- temperate.coniferous
- temperate.deciduous

Start Date
2004/01/01

End Date
2004/12/31

Sipnet.climna
Use Ameriflux

Email

Use BrownDog

Edit pecan.xml

Edit model config

Advanced setup

The PEnAn project is supported by the National Science Foundation (ABI #1062547, ARC #1023477) and the Energy Biosciences.
Brown Dog Dev

Collections • Datasets • Files • Tags • API

Login • Administration

Collections containing the dataset

Geospatial Layers

File Types

- image/tif
- application/zip

Created by Anonymous User
Created on Apr 08, 2015

Created by DW 2015-04-08T11:39:58

http://browndog.ncsa.illinois.edu