## Demo for the Semantic Web Working Group

## Preamble

This is an R Markdown Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the Run button within the chunk or by placing your cursor inside it and pressing Ctrl+Shift+Enter.

Add a new chunk by clicking the  $Insert\ Chunk$  button on the toolbar or by pressing Ctrl+Alt+I.

When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the Preview button or press Ctrl+Shift+K to preview the HTML file).

## Generating RDF from marked-up text

We're using the obkms and the rdf4jr R libraries (not yet published). The obkms library deals with the creation of RDF, while the rdf4jr library deals with the communication with a GraphDB instance (our triplestore).

```
library(obkms)
library(rdf4jr)
```

Before we begin, we need to supply the access data. Access data can be read from a YAML configuration file. Note: the password is not stored in the configuration file. The user-password needs to be read from the environment variable OBKMS\_SECRET. After we read the configuration we need to setup an environment where the functions are continuously going to look for the access credentials. We do this with the package init\_env function.

```
configuration_file = "/home/viktor/Work/OBKMS/etc/config.yml"
server_access_options = yaml::yaml.load_file( configuration_file )
server_access_options$userpwd = Sys.getenv("OBKMS_SECRET")
init_env(server_access_options)
```

The obkms library has lots of functions:

```
?obkms
```

If you want to convert an XML file to RDF, you use the xml2rdf function. Currently, only the TaxPub XMl schema and Turtle serialization of RDF is supported.

```
example_taxpub = "/home/viktor/Work/OBKMS/Tests/BDJ373/10.3897_BDJ.4.e7713.xml"
turtle = xml2rdf( example_taxpub )
cat(turtle)
```

```
## @prefix skos: <http://www.w3.org/2004/02/skos/core#> .
## @prefix pensoft: <http://id.pensoft.net/> .
## @prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
## @prefix foaf: <http://xmlns.com/foaf/0.1/> .
## @prefix pro: <http://purl.org/spar/pro/> .
## @prefix scoro: <http://purl.org/spar/scoro/> .
## @prefix ti: <http://www.ontologydesignpatterns.org/cp/owl/timeinterval.owl#> .
## @prefix tvc: <http://www.essepuntato.it/2012/04/tvc/> .
## @prefix fabio: <http://www.w3.org/2001/XMLSchema#> .
## @prefix fabio: <http://purl.org/spar/fabio/> .
## @prefix dcterms: <http://purl.org/dc/terms/> .
```

```
@prefix dc: <http://purl.org/dc/elements/1.1/> .
## @prefix frbr: <http://purl.org/spar/frbr/> .
## @prefix prism: <a href="http://prismstandard.org/namespaces/basic/2.0">http://prismstandard.org/namespaces/basic/2.0</a>.
## @prefix doco: <http://purl.org/spar/doco/> .
## @prefix po: <http://www.essepuntato.it/2008/12/pattern#> .
## @prefix co: <http://purl.org/co/> .
## @prefix trt: <http://plazi.org/treatment#> .
   @prefix c4o: <http://purl.org/spar/c4o/> .
##
   @prefix dwciri: <http://rs.tdwg.org/dwc/iri/> .
   @prefix nomen: <a href="http://www.semanticweb.org/dmitriev/ontologies/2013/8/untitled-ontology-6#">http://www.semanticweb.org/dmitriev/ontologies/2013/8/untitled-ontology-6#</a>> .
   @prefix dwc: <http://rs.tdwg.org/dwc/terms/> .
   @prefix sro: <http://salt.semanticauthoring.org/ontologies/sro#> .
   @prefix deo: <http://purl.org/spar/deo/> .
   pensoft:cd71fd14-85d0-407c-8c7d-92adc2a3a787 {
   pensoft:cb8e5e41-ba8a-4d48-9001-1df287a64d2d rdf:type
                                                             foaf:Agent ;
##
    skos:prefLabel
                      "Pensoft Publishers";
                         pensoft:050bda19-3c4f-4c8e-b50e-8b31d26f9c0b .
##
    pro:holdsRoleInTime
   pensoft:050bda19-3c4f-4c8e-b50e-8b31d26f9c0b rdf:type
                                                             pro:RoleInTime ;
    pro:relatesToDocument pensoft:6239221b-0077-4811-8368-cd81ad83dcf2 .
##
##
   pensoft:6239221b-0077-4811-8368-cd81ad83dcf2 rdf:type fabio:Journal;
##
     skos:prefLabel
                     "Biodiversity Data Journal";
                    "BDJ" ;
##
     skos:altLabel
                "1314-2836" ;
##
     fabio:issn
##
     fabio:eIssn
                  "1314-2828";
##
     dcterms:publisher
                        "Pensoft Publishers";
##
     frbr:hasPart pensoft:2a50d908-194e-4ce7-876c-2c2e2f61ae90 .
    pensoft:2a50d908-194e-4ce7-876c-2c2e2f61ae90 rdf:type
##
                                                             fabio:JournalArticle ;
##
     skos:prefLabel
                     "10.3897/BDJ.4.e7713";
##
                "10.3897/BDJ.4.e7713";
                               "2016"^^xsd:gYear ;
##
    fabio:hasPublicationYear
##
                    "Two new species of Eretmocerus Haldeman (Hymenoptera: Aphelinidae) parasitizing A
##
    pensoft:c8e4be49-9802-4516-97b6-bb1abebe3fce rdf:type doco:FrontMatter;
     po:contains pensoft:36d80d3c-e14b-470d-b4b6-9b17548abc25 , pensoft:b7d02d2d-8ee0-4808-82a7-921c2
##
##
     co:firstItem
                   Γ
                          co:itemContent pensoft:36d80d3c-e14b-470d-b4b6-9b17548abc25;
##
                         co:itemContent pensoft:c8e4be49-9802-4516-97b6-bb1abebe3fce ]
     co:nextItem
                   ##
    frbr:realizationOf pensoft:021577a4-c747-4b91-a8a3-eab4e8c972f2 , pensoft:57e827bc-1dd6-418d-8cc
   pensoft:36d80d3c-e14b-470d-b4b6-9b17548abc25
                                                 rdf:type
                                                            doco:title ;
##
                    "Two new species of Eretmocerus Haldeman (Hymenoptera: Aphelinidae) parasitizing
##
     c4o:hasContent
     frbr:realizationOf pensoft:a5ef08eb-71ed-446e-8183-639ab01f062b , pensoft:cb18058f-ef88-4509-874
##
  pensoft:b7d02d2d-8ee0-4808-82a7-921c2f80be90
                                                            sro:Abstract ;
                                                  rdf:type
     frbr:realizationOf
                         pensoft:e2d92237-5d8c-4394-81ef-929a4956aa31 , pensoft:ab334337-659b-43cd-888
##
   pensoft:62fcdcad-3783-4631-94e1-5a9f4f5d13d7
##
                                                  rdf:type
                                                            doco:BodyMatter ;
                         pensoft:642d22ed-18a8-409b-8747-3302f1246966 , pensoft:dafc5863-a929-4f22-ac4
##
     frbr:realizationOf
                 pensoft:de3b18cf-cef2-4157-b702-7691c758dd6a , pensoft:53ad7d86-e15f-4ee8-9614-0d8e0
##
    pensoft:67cb8b17-0812-4a23-8407-b38cada201eb
                                                  rdf:type
##
                                                             doco:BackMatter ;
                  pensoft:a2320008-99d4-496b-8efd-40732dd98e8d , pensoft:F2536084 , pensoft:F2537272 ,
##
     frbr:realizationOf pensoft:72773553-9aa6-467c-abba-6e3ca1d4d9e1, pensoft:79d73572-7c27-4f0c-869
##
   pensoft:a2320008-99d4-496b-8efd-40732dd98e8d
                                                  rdf:type doco:Afterword.
##
   pensoft:F2536084 rdf:type doco:Figure;
                 pensoft:2b123794-1398-47a7-8f26-7fc289d1c8db;
##
    po:contains
##
    frbr:realizationOf
                         pensoft:0b7b96dd-557b-42eb-967c-8323b591beb0 .
## pensoft:F2537272 rdf:type
                                 doco:Figure ;
    po:contains pensoft:9b658586-8d98-434c-acdc-fc2acb8f939b;
```

```
##
    frbr:realizationOf
                        pensoft:7f72220c-c2ec-402f-bdb9-2d2a1a7e73f2 .
##
   pensoft:F2537278 rdf:type
                                 doco:Figure ;
    po:contains pensoft:3778351a-7688-424e-bfe0-0f2bc99093d8;
##
    frbr:realizationOf    pensoft:Ofeb564f-e87d-4ef9-8cf0-78eeb6307674 .
##
##
   pensoft:F2537280 rdf:type
                                 doco:Figure ;
                 pensoft:b9e78752-e9d0-4d99-a7df-3932b403d44f;
##
    po:contains
                        pensoft:3ae121b6-2544-44f8-941e-798fdb4558bc .
##
    frbr:realizationOf
##
   pensoft:F2537282 rdf:type doco:Figure;
##
    po:contains pensoft:20a1945a-199a-424f-ba3c-4d56304a7dc1;
    frbr:realizationOf pensoft:3fa43cbd-b959-4055-939c-a124cfd73966 .
##
   pensoft:F2537284 rdf:type
                                doco:Figure ;
##
    po:contains pensoft:ebb925a9-cfe3-4aef-bb06-ed35e192e7dc;
    frbr:realizationOf    pensoft:ee1dbdb9-c6e1-40c2-9a53-b7cde3af301d .
##
                                 doco:Figure ;
##
   pensoft:F2537286 rdf:type
##
                 pensoft:6e80adea-999d-44bd-9cd5-3fc125b55ddc;
    po:contains
##
    frbr:realizationOf
                         pensoft:20e55272-02f4-415a-b123-9ade73950801 .
##
   pensoft:F2537288 rdf:type
                                 doco:Figure ;
##
    po:contains pensoft:8d8b1d4c-de87-4384-9372-788e84e3fa71;
    frbr:realizationOf pensoft:68c64c66-c394-41fd-b5e4-be8cfccc4565 .
##
##
   pensoft:F2537290 rdf:type doco:Figure ;
##
    po:contains
                 pensoft:18d26967-8c3a-4b19-9b54-30a7e7e8109a;
    \verb|frbr:realizationOf| pensoft: d02438f6-dec2-4fcb-baf9-6fa3078d054a|.
##
   pensoft:F2537302 rdf:type
                                 doco:Figure ;
##
    po:contains pensoft:30912e44-2f80-4214-a0a2-1bac357c0000;
##
                        pensoft:3498fd2d-6cc2-4adf-b81f-362ee5308f81 .
##
    frbr:realizationOf
##
   pensoft:F2537304 rdf:type doco:Figure ;
##
    po:contains pensoft:ee87eecf-a1b5-4f23-90c1-eb961bd8d7ad;
                         pensoft:a13117ec-4e52-4f25-bc9e-370b6e162751 .
##
    frbr:realizationOf
   pensoft:2b123794-1398-47a7-8f26-7fc289d1c8db rdf:type
##
                                                             deo:Caption;
##
    c4o:hasContent "Eretmocerus garrywardi female antenna";
##
    frbr:realizationOf pensoft:bfa0219b-574e-4ccc-85c6-afd2b8213f1d .
##
   pensoft:9b658586-8d98-434c-acdc-fc2acb8f939b
                                                 rdf:type
                                                             deo:Caption;
                     "Eretmocerus garrywardi head, front view";
##
    c4o:hasContent
##
    frbr:realizationOf
                         pensoft:7a4dd658-5ad0-40b9-bc3d-2575d9b8a0ed .
##
   pensoft:3778351a-7688-424e-bfe0-0f2bc99093d8
                                                 rdf:type
                                                             deo:Caption;
##
    c4o:hasContent
                    "Eretmocerus garrywardi head, posterior view";
##
    frbr:realizationOf
                        pensoft:ea0619e6-437b-4e69-9f88-2cf9917d57a6 .
##
   pensoft:b9e78752-e9d0-4d99-a7df-3932b403d44f
                                                rdf:type
                                                             deo:Caption;
##
    c4o:hasContent
                     "Eretmocerus garrywardi dorsal mesosoma excluding pronotum";
##
    \verb|frbr:realizationOf| pensoft: 158d6710-25b4-4fd7-87b3-c324dd9d153a|.
   pensoft:20a1945a-199a-424f-ba3c-4d56304a7dc1 rdf:type
                                                           deo:Caption;
##
    c4o:hasContent
                    "Eretmocerus garrywardi ovipositor";
                         pensoft:c1b13c11-3ac8-4f1e-86c0-de497adbfca8 .
##
    frbr:realizationOf
   pensoft:ebb925a9-cfe3-4aef-bb06-ed35e192e7dc
##
                                                rdf:type
                                                             deo:Caption;
                     "Eretmocerus garrywardi fore wing";
    c4o:hasContent
##
    frbr:realizationOf
                         pensoft:a1a42ad1-ea1a-46b9-869f-24611fffe9cd .
   pensoft:6e80adea-999d-44bd-9cd5-3fc125b55ddc
                                                  rdf:type
##
                                                             deo:Caption;
##
                     "Eretmocerus liangyihchoui female antenna";
    c4o:hasContent
##
    frbr:realizationOf pensoft:82a51b03-a30d-4ba7-a1ce-406d0106096b .
   pensoft:8d8b1d4c-de87-4384-9372-788e84e3fa71 rdf:type deo:Caption;
##
##
    c4o:hasContent "Eretmocerus liangyihchoui head, right half front view, left half posterior view"
    frbr:realizationOf pensoft:2d453765-74a4-4888-a180-1989603b9a06 .
##
## pensoft:18d26967-8c3a-4b19-9b54-30a7e7e8109a rdf:type
                                                             deo:Caption;
    c4o:hasContent "Eretmocerus liangyihchoui dorsal mesosoma, excluding pronotum";
##
```

```
##
     frbr:realizationOf
                          pensoft:52844b06-4428-4bda-992e-eb6e3ddb6fb0 .
##
   pensoft:30912e44-2f80-4214-a0a2-1bac357c0000
                                                    rdf:type
                                                                deo:Caption;
##
     c4o:hasContent
                      "Eretmocerus liangyihchoui ovipositor";
##
                          pensoft:af868ec8-58a2-4229-a332-2551768d2454 .
     frbr:realizationOf
##
    pensoft:ee87eecf-a1b5-4f23-90c1-eb961bd8d7ad
                                                    rdf:type
                                                                deo:Caption;
                      "Eretmocerus liangyihchoui fore wing";
##
     c4o:hasContent
                          pensoft:fcafd471-5c9f-439b-8a55-4e3508017151 .
##
     frbr:realizationOf
##
    pensoft:65a55c3b-1484-45e0-ba62-0bfe4a04483f
                                                    rdf:type
                                                               doco:BibliographicReferenceList ;
##
     frbr:realizationOf
                          pensoft:3ce7ac1b-6ec3-471f-bea5-15aa0e87d037 , pensoft:275fbf34-53d3-4811-815
##
    pensoft: B3040396
                       rdf:type
                                   doco:Reference ;
##
     frbr:realizationOf
                          pensoft:b89c6892-c651-4d4b-8965-fe4a6f3004f7 .
##
    pensoft: B2487906
                       rdf:type
                                   doco:Reference ;
                          pensoft:cc645e1e-36b6-42af-8299-979effb77d16 , pensoft:2234b996-c537-46d9-97c
##
     frbr:realizationOf
##
    pensoft: B2487894
                       rdf:type
                                   doco:Reference ;
##
                          pensoft:d9133a30-8050-4e07-88f5-84e4cf071e42 , pensoft:741bd593-12ff-4ff5-b0c
     frbr:realizationOf
##
    pensoft:a5ef08eb-71ed-446e-8183-639ab01f062b
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9 .
    pensoft:cb18058f-ef88-4509-874d-85c6f753830d
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
##
                             pensoft:a094d6b2-d5a5-49a5-8a8d-f3d0d8a064d7 .
##
    pensoft:dc9abad6-b2d8-40b5-ab43-14362e7511dc
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:1397519b-8c72-4f82-9cf0-3a4eecce6c08 .
   pensoft:94c9bff1-cddf-407c-9174-73af2e6d579d
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:262ed70a-1ac4-47a6-a63b-6831df58a726 .
                                                                trt:TaxonNameUsage ;
##
    pensoft:bfb2b4c2-129e-4a1c-b97a-0cc4929721c3
                                                    rdf:type
##
     dwciri:scientificName
                             pensoft:74adfa4e-79da-44cc-8cbe-77eb5b268e49 .
##
   pensoft:af986c55-073e-4051-95f1-d1cae1321712
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:cd6f38a4-0f78-4218-80f1-62a39d0bb614
##
    pensoft:f6f8aec4-e693-418f-a41c-975842cd9d67
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:5152cbf0-46d4-4efb-bf9d-0352c2f50012 .
##
   pensoft:e2d92237-5d8c-4394-81ef-929a4956aa31
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9 .
##
    pensoft:ab334337-659b-43cd-8887-ae5979e98d47
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9
##
    pensoft:200c920a-1ac1-4bc5-9607-35c1a3378efb
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
     dwciri:scientificName
                             pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f
##
   pensoft:43da8a39-cf50-47a8-9b45-66a96d420a45
                                                    rdf:type
##
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
    pensoft:c448c49f-81aa-4e96-aace-388431a0cc3b
                                                               trt:TaxonNameUsage ;
##
                                                    rdf:type
     dwciri:scientificName
##
                             pensoft:262ed70a-1ac4-47a6-a63b-6831df58a726 .
##
    pensoft:68c4e902-5be7-4089-ba9c-f4d09ccdcea5
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:74adfa4e-79da-44cc-8cbe-77eb5b268e49 .
    pensoft:f902f2ee-79f5-46fd-8deb-2ad87882c644
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
                             pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9 .
##
     dwciri:scientificName
##
    pensoft:021577a4-c747-4b91-a8a3-eab4e8c972f2
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
     dwciri:scientificName
##
                             pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9 .
##
    pensoft:57e827bc-1dd6-418d-8cce-2791844babec
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:a094d6b2-d5a5-49a5-8a8d-f3d0d8a064d7 .
##
    pensoft:1501def9-fb46-4cec-808f-0dcac3fa85cb
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:1397519b-8c72-4f82-9cf0-3a4eecce6c08
##
    pensoft:60650ae2-f5ef-4091-b0eb-fcf8df1e1880
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:262ed70a-1ac4-47a6-a63b-6831df58a726 .
##
   pensoft:c221b001-8b82-4381-a8e2-8e6da432cc1a
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:74adfa4e-79da-44cc-8cbe-77eb5b268e49 .
                                                    rdf:type
    pensoft:b3d8c698-762e-4450-a18b-cee5f5b3d4c9
                                                               trt:TaxonNameUsage ;
```

```
##
     dwciri:scientificName
                              pensoft:cd6f38a4-0f78-4218-80f1-62a39d0bb614 .
##
    pensoft:0911163c-1a1c-40f2-8849-d95c46d645f2
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:5152cbf0-46d4-4efb-bf9d-0352c2f50012 .
    pensoft:6b1ebed9-4b90-43ed-bde0-423436a3b565
                                                                trt:TaxonNameUsage ;
##
                                                    rdf:type
##
     dwciri:scientificName
                              pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9
##
    pensoft:66668fa8-69a5-4bcc-b705-7f520391212f
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9 .
##
    pensoft:c096d99d-8956-405e-b767-f5ec7ca7d821
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f .
##
    pensoft:1345ab05-04fa-4ffe-b995-7a405c289a0e
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##
     dwciri:scientificName
                              pensoft:29a2d3ad-7c63-47a5-a4eb-4f89bcb1cb58 .
    pensoft:00127047-eeec-42a8-9f82-a33ec9dee49f
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:3993cd1c-a8bb-4768-8238-7f19a8754056 .
##
    pensoft:2368d400-61b1-42bd-89ec-ff250e2a54ee
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
##
    pensoft:7711f704-a325-4def-8160-3b6b4365b240
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3
##
    pensoft:98ef095a-5e9a-4438-b9e3-00ce83c04736
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
                              pensoft:1f9c1c7d-bdf3-4a14-bf57-15062d552e0c .
##
     dwciri:scientificName
##
    pensoft:540e4453-0874-4786-b63a-57b2f260eef6
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:1397519b-8c72-4f82-9cf0-3a4eecce6c08 .
##
    pensoft:d693e6a3-55c5-4479-b8cf-ed24d4d3cd15
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
                              pensoft:cd6f38a4-0f78-4218-80f1-62a39d0bb614 .
##
     dwciri:scientificName
    pensoft:6d1a6fec-571c-4dca-ae86-f5021af1c49e
                                                    rdf:type
##
                                                                trt:TaxonNameUsage ;
##
                             pensoft:5152cbf0-46d4-4efb-bf9d-0352c2f50012
     dwciri:scientificName
##
    pensoft:cdf74710-db5f-4895-9510-26d4a3e37712
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:262ed70a-1ac4-47a6-a63b-6831df58a726 .
    pensoft:379b380e-8ba3-47bc-905d-7d20933f55a1
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9 .
                                                                trt:TaxonNameUsage ;
##
    pensoft:ff13c7d5-7b3a-4ce0-8c1c-674796e13453
                                                    rdf:type
##
     dwciri:scientificName
                             pensoft:6a8701b8-1dc1-413c-b77d-aa00cb7a0d71 .
##
    pensoft:8d69dc21-ea19-47c0-997e-d8989196df37
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
                              pensoft:d3ce81a0-3577-4a57-adc6-257733a00e03 .
     dwciri:scientificName
##
    pensoft:8f7985b3-bdfa-44e1-9831-250640ca45ee
                                                                trt:TaxonNameUsage ;
                                                    rdf:type
##
     dwciri:scientificName
                              pensoft:71404edd-a581-4864-9f08-1b14eaa50ecc .
##
    pensoft:7179f436-e8f6-4c18-a9fd-6d6c7caf13a2
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:66f12a89-643b-494c-a612-d9f462d21a71
##
    pensoft:b5530afb-da50-42d5-8126-1b2bd24f8765
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:3b7afaaa-3832-4272-a130-fc25e77e7af4
##
    pensoft:7f31f7c3-b0be-4bf5-b5f3-37fc88f78a67
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
                             pensoft:2640472b-84f3-4d2d-b45f-324ee7147157
##
     dwciri:scientificName
##
    pensoft:762bd75e-2c43-4a39-b4d8-41ba2390717b
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:58db1790-74bd-4a61-a88f-e53deeed5556 .
    pensoft:c74af9aa-ad71-41cb-be43-12bcb4b934d7
                                                                trt:TaxonNameUsage ;
##
                                                    rdf:type
                             pensoft:700c0e75-dd9e-4d46-860a-482bec07cb0f .
##
     dwciri:scientificName
                                                                trt:TaxonNameUsage ;
##
    pensoft:012b0e77-d4c0-4572-ba0a-63566c711ab7
                                                    rdf:type
##
     dwciri:scientificName
                             pensoft:3cad41f1-bd4e-4d86-88a6-822d9a33e463 .
    pensoft:e828fe87-59dd-4d1e-b614-65776afc1c6c
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
                             pensoft:fdd8c3c6-6431-4a5c-8854-ee41712734f0 .
##
     dwciri:scientificName
##
    pensoft:60c2935e-cc33-400f-86f1-e1a6ce290158
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:bc37cf00-b7f1-4ceb-9738-820c3409fa15 .
##
    pensoft:e6952bed-29fe-495e-97cf-23c0c7e50bd8
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
     dwciri:scientificName
                              pensoft:8034b6f2-ebb0-4976-8bb4-c6f302460f69
##
##
    pensoft:b205d044-a842-4429-9960-e9f64ea3ad68
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
                             pensoft:eaac1df3-d70c-47e8-95d5-3d1c4b93d1d8 .
##
     dwciri:scientificName
##
    pensoft:de3b18cf-cef2-4157-b702-7691c758dd6a
                                                    frbr:realizationOf
                                                                          pensoft:313369ab-333c-4258-8811
##
     rdf:type
                trt:Nomenclature .
##
    pensoft:313369ab-333c-4258-8811-0b0bf42b4a1c
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:7aa6e438-3c2b-4db9-b58f-3b015d82e721 .
    pensoft:53ad7d86-e15f-4ee8-9614-0d8e0e2f2e51
                                                    frbr:realizationOf
                                                                          pensoft:0af8abbe-8ede-450e-817d
```

```
##
     rdf:type
                trt:Nomenclature .
##
    pensoft:0af8abbe-8ede-450e-817d-ca45f1ee8345
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:b84bb426-f605-4c20-9fc0-4cb2e8435453 .
    pensoft:bfa0219b-574e-4ccc-85c6-afd2b8213f1d
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
##
     dwciri:scientificName
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f
    pensoft:7a4dd658-5ad0-40b9-bc3d-2575d9b8a0ed
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f .
##
     dwciri:scientificName
##
    pensoft:ea0619e6-437b-4e69-9f88-2cf9917d57a6
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f .
##
    pensoft:158d6710-25b4-4fd7-87b3-c324dd9d153a
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f .
                                                                trt:TaxonNameUsage ;
##
    pensoft:c1b13c11-3ac8-4f1e-86c0-de497adbfca8
                                                    rdf:type
##
     dwciri:scientificName
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f .
##
    pensoft:a1a42ad1-ea1a-46b9-869f-24611fffe9cd
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f .
     dwciri:scientificName
##
    pensoft:82a51b03-a30d-4ba7-a1ce-406d0106096b
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
##
    pensoft: 2d453765-74a4-4888-a180-1989603b9a06
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
##
    pensoft:52844b06-4428-4bda-992e-eb6e3ddb6fb0
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
    pensoft:af868ec8-58a2-4229-a332-2551768d2454
                                                                trt:TaxonNameUsage ;
##
                                                    rdf:type
##
     dwciri:scientificName
                              pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
##
    pensoft:fcafd471-5c9f-439b-8a55-4e3508017151
                                                    rdf:type
                                                                trt:TaxonNameUsage :
##
     dwciri:scientificName
                             pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
##
    pensoft:f71ea557-efde-435a-bca5-55d2f146fa00
                                                    rdf:type
                                                                trt:NomenclaturalAct ;
##
     trt:ValidName
                     pensoft:7aa6e438-3c2b-4db9-b58f-3b015d82e721
    pensoft:164dc14e-5d04-4950-9f41-4e82da0c7288
##
                                                    rdf:type
                                                                trt:NomenclaturalAct ;
                     pensoft:b84bb426-f605-4c20-9fc0-4cb2e8435453 . }
##
     trt:ValidName
```

Side note: Note that at the moemnt xml2rdf changes state. It returns the RDF serialization of the XML file and in addition to that extends the knowledge graph with some nodes that are used in the returned turtle. This needed because say a given name "Aus bus" is used somewhere in the text. The sytem tries to resolve and return an identifier for this name in the Knowledge Graph, if the name is not found, the system automatically mints a new identifier and tells it to the Knowledge Graph. Otherwise, the name would not be resolved the next time it appears.

This is at odds with the functional programming paradigm as it mixes logic and state. http://curtclifton.net/papers/MoseleyMarks06a.pdf Better approach will be explained during the seminar.

Now we can submit the Turtle to the system:

## No encoding supplied: defaulting to UTF-8.

```
processing_status = httr::content( rdf4jr::add_data(server_access_options, server_access_options$repositions)
```