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:041ab01f-7b1d-4397-a15c-31dc7add1c00 .
##
    pro:holdsRoleInTime
   pensoft:041ab01f-7b1d-4397-a15c-31dc7add1c00 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:fec08ab6-3c4e-4673-828b-808399b58ece , pensoft:82df99ac-9039-42a4-b63
   pensoft:36d80d3c-e14b-470d-b4b6-9b17548abc25
                                                 rdf:type
                                                            doco:title ;
##
                    "Two new species of Eretmocerus Haldeman (Hymenoptera: Aphelinidae) parasitizing
##
     c4o:hasContent
     frbr:realizationOf pensoft:2a9a96c9-c9b0-44bb-9506-cd83d0404930 , pensoft:ee9cd39f-3915-40a1-907
##
  pensoft:b7d02d2d-8ee0-4808-82a7-921c2f80be90
                                                  rdf:type sro:Abstract;
     frbr:realizationOf
                         pensoft:9bdf848e-0d07-4b24-b90c-48c77b800f1a , pensoft:a4e9939e-c9bb-4980-8b1
##
   pensoft:62fcdcad-3783-4631-94e1-5a9f4f5d13d7
##
                                                  rdf:type
                                                            doco:BodyMatter ;
                         pensoft:168e76d6-e41b-42d9-a22b-7527ceb17e92 , pensoft:5efdad0d-16c4-4795-ac8
##
     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:311e2d44-9818-42dc-857d-b871e76534ce, pensoft:eaa293fc-f50a-4d80-b3b
##
   pensoft:a2320008-99d4-496b-8efd-40732dd98e8d
                                                  rdf:type doco:Afterword.
##
   pensoft:F2536084 rdf:type doco:Figure;
                 pensoft:2b123794-1398-47a7-8f26-7fc289d1c8db;
##
    po:contains
                        pensoft:4ad6b03e-ed97-43cc-9b26-070037130ad4 .
##
    frbr:realizationOf
## pensoft:F2537272 rdf:type
                                 doco:Figure ;
    po:contains pensoft:9b658586-8d98-434c-acdc-fc2acb8f939b;
```

```
##
     frbr:realizationOf
                        pensoft:852a4483-d51b-422b-9bb8-29a772059810 .
##
   pensoft:F2537278 rdf:type
                                 doco:Figure ;
    po:contains pensoft:3778351a-7688-424e-bfe0-0f2bc99093d8;
##
     frbr:realizationOf    pensoft:cfb75c1d-d157-4c31-bb0d-b7ae469f8a33 .
##
##
   pensoft:F2537280 rdf:type
                                 doco:Figure ;
    po:contains pensoft:b9e78752-e9d0-4d99-a7df-3932b403d44f;
##
                        pensoft:1240dc97-d912-448a-96db-d8b4cb2a9799 .
##
     frbr:realizationOf
##
    pensoft:F2537282 rdf:type doco:Figure;
##
     po:contains pensoft:20a1945a-199a-424f-ba3c-4d56304a7dc1;
                        pensoft:b925b527-791c-4341-97ce-2c580529cda2 .
##
     frbr:realizationOf
   pensoft:F2537284 rdf:type
                                doco:Figure ;
     po:contains pensoft:ebb925a9-cfe3-4aef-bb06-ed35e192e7dc;
##
     \verb|frbr:realizationOf| pensoft: 3797c169-265a-4d38-a259-59036be47f6b|.
##
##
   pensoft:F2537286 rdf:type
                                 doco:Figure ;
##
                 pensoft:6e80adea-999d-44bd-9cd5-3fc125b55ddc;
     po:contains
##
     frbr:realizationOf
                         pensoft:c1557e7f-12c7-4a15-9635-45f0760444cd .
##
   pensoft:F2537288 rdf:type
                                 doco:Figure ;
##
    po:contains pensoft:8d8b1d4c-de87-4384-9372-788e84e3fa71;
     \verb|frbr:realization0f| pensoft: 71ff 3000-2c67-48c5-bee2-4be46a5ad681|.
##
##
   pensoft:F2537290 rdf:type doco:Figure ;
##
     po:contains pensoft:18d26967-8c3a-4b19-9b54-30a7e7e8109a;
     frbr: realization Of \\ pensoft: b7df722a-a8f8-4f9b-8895-334b830ae5f7 \ . \\
##
   pensoft:F2537302 rdf:type
                                 doco:Figure ;
##
     po:contains pensoft:30912e44-2f80-4214-a0a2-1bac357c0000;
##
                        pensoft:9af34a97-851f-4052-8988-412df5fe8553 .
##
     frbr:realizationOf
##
   pensoft:F2537304 rdf:type doco:Figure ;
##
     po:contains pensoft:ee87eecf-a1b5-4f23-90c1-eb961bd8d7ad;
                         pensoft:f3122956-c9b2-41b3-91c6-4a80390a19ba .
##
     frbr:realizationOf
   pensoft:2b123794-1398-47a7-8f26-7fc289d1c8db rdf:type
##
##
     c4o:hasContent
                     "Eretmocerus garrywardi female antenna";
##
     frbr:realizationOf
                         pensoft:26db756f-8e2c-4cf0-a2ab-a3aa9288e8f9 .
##
   pensoft:9b658586-8d98-434c-acdc-fc2acb8f939b
                                                  rdf:type
                                                             deo:Caption;
                     "Eretmocerus garrywardi head, front view";
##
     c4o:hasContent
##
     frbr:realizationOf
                         pensoft:1ba4d29a-9a87-416f-8dc2-3706c6f719b7 .
##
    pensoft:3778351a-7688-424e-bfe0-0f2bc99093d8
                                                  rdf:type
                                                             deo:Caption;
##
     c4o:hasContent
                    "Eretmocerus garrywardi head, posterior view";
##
     frbr:realizationOf
                        pensoft:77ec3cff-3eb7-44fe-8daa-5152b9a86db9 .
##
   pensoft:b9e78752-e9d0-4d99-a7df-3932b403d44f rdf:type
                                                             deo:Caption;
##
     c4o:hasContent
                     "Eretmocerus garrywardi dorsal mesosoma excluding pronotum";
##
      frbr: realization Of pensoft: 65bd82a6-4d76-45d0-b0df-d4da73d8a181 \ . \\
   pensoft:20a1945a-199a-424f-ba3c-4d56304a7dc1 rdf:type
##
     c4o:hasContent
                    "Eretmocerus garrywardi ovipositor";
                         pensoft:d3331f6b-8b1a-4236-84cc-6a7e8b699565 .
##
     frbr:realizationOf
   pensoft:ebb925a9-cfe3-4aef-bb06-ed35e192e7dc
##
                                                 rdf:type
                                                             deo:Caption;
     c4o:hasContent
                     "Eretmocerus garrywardi fore wing";
##
     frbr:realizationOf
                         pensoft:566a3075-ff7f-4171-af3a-5e1efe2c01ff .
   pensoft:6e80adea-999d-44bd-9cd5-3fc125b55ddc
                                                  rdf:type
##
                                                             deo:Caption;
##
                     "Eretmocerus liangyihchoui female antenna";
     c4o:hasContent
##
      frbr: realization Of pensoft: 1632891e-c2f7-45b6-8cff-9e71b0e3ecd0 \ . \\
   pensoft:8d8b1d4c-de87-4384-9372-788e84e3fa71 rdf:type deo:Caption;
##
##
     c4o:hasContent "Eretmocerus liangyihchoui head, right half front view, left half posterior view"
      frbr: realization Of \\ pensoft: 3f603720-6f7c-400c-a698-370473b3cbe5 \\ \ . \\
##
## pensoft:18d26967-8c3a-4b19-9b54-30a7e7e8109a rdf:type
                                                             deo:Caption;
     c4o:hasContent "Eretmocerus liangyihchoui dorsal mesosoma, excluding pronotum";
##
```

```
##
                          pensoft:6c825cb1-c3da-45c3-b543-518cc996c759 .
     frbr:realizationOf
##
   pensoft:30912e44-2f80-4214-a0a2-1bac357c0000
                                                    rdf:type
                                                                deo:Caption;
                      "Eretmocerus liangyihchoui ovipositor";
##
     c4o:hasContent
##
                          pensoft:d9d54e9a-636d-44d0-9c48-2f04c6fc1713 .
     frbr:realizationOf
##
    pensoft:ee87eecf-a1b5-4f23-90c1-eb961bd8d7ad
                                                    rdf:type
                                                                deo:Caption;
##
     c4o:hasContent
                      "Eretmocerus liangyihchoui fore wing";
                          pensoft:493a091a-690c-48b8-9297-635103e8ee8a .
##
     frbr:realizationOf
##
    pensoft:65a55c3b-1484-45e0-ba62-0bfe4a04483f
                                                    rdf:type
                                                               doco:BibliographicReferenceList ;
##
     frbr:realizationOf
                          pensoft:61b33e3b-ba9f-43d0-8365-0ee915180185 , pensoft:6818aa12-0b25-4581-824
##
    pensoft: B3040396
                       rdf:type
                                   doco:Reference ;
##
     frbr:realizationOf
                          pensoft:6374e9c8-e272-4be4-86d0-cff271242efc .
##
    pensoft: B2487906
                       rdf:type
                                   doco:Reference ;
                          pensoft:290419f7-8e88-4622-bc6a-02c22fb09d27 , pensoft:61d2f64f-00f0-4531-b49
##
     frbr:realizationOf
##
    pensoft: B2487894
                       rdf:type
                                   doco:Reference ;
##
                          pensoft:b45b033e-cf38-4a7a-a09d-4456be9e1de8 , pensoft:f06c0914-63a1-4420-b9b
     frbr:realizationOf
##
    pensoft:2a9a96c9-c9b0-44bb-9506-cd83d0404930
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9 .
    pensoft:ee9cd39f-3915-40a1-907c-cbd2b7353d40
                                                    rdf:type
##
                                                                trt:TaxonNameUsage ;
##
                             pensoft:a094d6b2-d5a5-49a5-8a8d-f3d0d8a064d7 .
     dwciri:scientificName
##
    pensoft:3c0e5264-c54d-4acb-aceb-bb78333f6a83
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:1397519b-8c72-4f82-9cf0-3a4eecce6c08 .
   pensoft:8720015b-4156-4393-9dda-716d1695f0dd
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:262ed70a-1ac4-47a6-a63b-6831df58a726 .
    pensoft:2b0bb255-b37e-46a6-9db5-2d881420873c
                                                                trt:TaxonNameUsage ;
##
                                                    rdf:type
##
     dwciri:scientificName
                             pensoft:74adfa4e-79da-44cc-8cbe-77eb5b268e49 .
##
   pensoft:ee654d4c-0d72-4555-9122-acabe5665bc7
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:cd6f38a4-0f78-4218-80f1-62a39d0bb614
##
    pensoft:a126608e-d4a3-46c8-b7b0-6ef212af7329
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:5152cbf0-46d4-4efb-bf9d-0352c2f50012 .
##
   pensoft:9bdf848e-0d07-4b24-b90c-48c77b800f1a
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9 .
##
    pensoft:a4e9939e-c9bb-4980-8b1a-a7a61d957c3e
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9
##
    pensoft:47d7c25e-4452-49a2-b0cb-a746546764a5
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
     dwciri:scientificName
                             pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f
##
##
   pensoft:0e26465a-b373-4922-b1bb-5a14210ee8c6
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
    pensoft:3e07ef09-08cb-44da-895a-e44373b3e05a
                                                               trt:TaxonNameUsage ;
##
                                                    rdf:type
##
     dwciri:scientificName
                             pensoft:262ed70a-1ac4-47a6-a63b-6831df58a726 .
##
    pensoft:a16c196e-2100-4ad5-b6a4-a32c0f831349
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:74adfa4e-79da-44cc-8cbe-77eb5b268e49 .
    pensoft:f2d378c4-3005-42c7-8a93-2b73c71faf66
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
                             pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9 .
##
     dwciri:scientificName
##
    pensoft:fec08ab6-3c4e-4673-828b-808399b58ece
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9 .
##
    pensoft:82df99ac-9039-42a4-b637-fd7ad5aba346
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:a094d6b2-d5a5-49a5-8a8d-f3d0d8a064d7 .
##
    pensoft:c54324cd-8372-4bea-b51b-62e4c249d6f6
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:1397519b-8c72-4f82-9cf0-3a4eecce6c08
##
    pensoft:0234bc57-df36-4e3a-8f0a-000b7efc83e3
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:262ed70a-1ac4-47a6-a63b-6831df58a726 .
##
   pensoft:5804aec8-9284-45ff-9c94-e062bb261c19
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:74adfa4e-79da-44cc-8cbe-77eb5b268e49 .
    pensoft:972105bb-c917-4cf7-99cd-b0aaaf9af077
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
```

```
##
     dwciri:scientificName
                              pensoft:cd6f38a4-0f78-4218-80f1-62a39d0bb614 .
##
    pensoft:1af1e91d-4e90-4b55-9406-4eb6f85555e8
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:5152cbf0-46d4-4efb-bf9d-0352c2f50012 .
    pensoft:36d6eed9-4156-4d06-b53e-5227b61ab34c
                                                                trt:TaxonNameUsage ;
##
                                                    rdf:type
##
     dwciri:scientificName
                              pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9
    pensoft:b62e43b9-bff7-4ae3-b1b1-82d6df0aacc7
                                                    rdf:type
##
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9 .
##
    pensoft:4cbfe35e-e74c-483b-b3df-691b0a82616d
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f .
##
    pensoft:cde64bb5-be0a-4813-9be3-563b5d4962a4
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     dwciri:scientificName
                              pensoft:29a2d3ad-7c63-47a5-a4eb-4f89bcb1cb58 .
    pensoft:e14a435d-d871-47a9-8b87-bf09b69a3b64
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:3993cd1c-a8bb-4768-8238-7f19a8754056 .
##
    pensoft:3aa0411c-d82c-4971-9cbc-871a796da252
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
##
    pensoft:bed6b505-df17-4c2c-a8b7-26c970fcea3b
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3
##
    pensoft: 2556d1d6-fad7-4e04-a9bd-ab9adf7db599
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:1f9c1c7d-bdf3-4a14-bf57-15062d552e0c .
##
    pensoft:ff21d218-a80c-4729-abab-1315c46ecab5
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:1397519b-8c72-4f82-9cf0-3a4eecce6c08 .
##
    pensoft:acb10252-ab94-4091-b6a0-76cb1a57785a
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
                              pensoft:cd6f38a4-0f78-4218-80f1-62a39d0bb614 .
##
     dwciri:scientificName
    pensoft:06941e19-52cd-445a-a11a-c26b392fbedf
                                                    rdf:type
##
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:5152cbf0-46d4-4efb-bf9d-0352c2f50012
##
    pensoft:15791d52-4580-4f59-a0b9-a5c4e80a9973
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:262ed70a-1ac4-47a6-a63b-6831df58a726 .
##
    pensoft:6eb6f3cd-7553-43ed-82a3-769087b0a3b1
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:f2a2705e-739a-4ad1-beaf-b0a4f9fb42f9 .
                                                                trt:TaxonNameUsage ;
##
    pensoft:cc53989f-8e2e-4d67-b0b4-eab75b8a4337
                                                    rdf:type
##
     dwciri:scientificName
                              pensoft:6a8701b8-1dc1-413c-b77d-aa00cb7a0d71 .
##
    pensoft:612f20dc-3afc-4a6d-9ea0-90434fd7d265
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
                              pensoft:d3ce81a0-3577-4a57-adc6-257733a00e03 .
     dwciri:scientificName
##
    pensoft:f7ec2cf5-7fd4-478f-abe2-f4d9c35d5ea0
                                                                trt:TaxonNameUsage ;
                                                    rdf:type
##
     dwciri:scientificName
                              pensoft:71404edd-a581-4864-9f08-1b14eaa50ecc .
##
    pensoft:8483ca3d-59aa-4e45-a6a3-a9d38947c8fc
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:66f12a89-643b-494c-a612-d9f462d21a71
##
    pensoft:eef0632b-5859-4db4-b9ca-61574bc4e004
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:3b7afaaa-3832-4272-a130-fc25e77e7af4
##
    pensoft:157796c1-bb3a-4b24-9480-eabcb9d36015
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
                             pensoft:2640472b-84f3-4d2d-b45f-324ee7147157
##
     dwciri:scientificName
    pensoft:154d4c62-0607-4946-8a34-efd6335bc03a
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:58db1790-74bd-4a61-a88f-e53deeed5556 .
    pensoft:64ced3b6-376b-4728-8b23-8d854b7e385f
                                                                trt:TaxonNameUsage ;
##
                                                    rdf:type
##
     dwciri:scientificName
                              pensoft:700c0e75-dd9e-4d46-860a-482bec07cb0f .
                                                                trt:TaxonNameUsage ;
##
    pensoft: b51d9f40-2120-4d93-b068-c66ae6444936
                                                    rdf:type
##
     dwciri:scientificName
                             pensoft:3cad41f1-bd4e-4d86-88a6-822d9a33e463 .
    pensoft:11633202-635c-48d0-b50b-44281005dcef
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:fdd8c3c6-6431-4a5c-8854-ee41712734f0 .
##
    pensoft:c689286b-fb55-4445-8e70-d712fb9a4da2
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:bc37cf00-b7f1-4ceb-9738-820c3409fa15 .
##
    pensoft:cfb6f00f-80b1-4b9d-ae49-639e69304a00
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
                              pensoft:8034b6f2-ebb0-4976-8bb4-c6f302460f69
##
     dwciri:scientificName
##
    pensoft:6ba94b3a-9dc7-429d-8303-8d104aafac96
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
                             pensoft:eaac1df3-d70c-47e8-95d5-3d1c4b93d1d8 .
##
     dwciri:scientificName
##
    pensoft:de3b18cf-cef2-4157-b702-7691c758dd6a
                                                    frbr:realizationOf
                                                                          pensoft:260863ff-3d2d-4d7a-84ea
##
     rdf:type
                trt:Nomenclature .
##
    pensoft:260863ff-3d2d-4d7a-84ea-fe0fcc15d39b
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:7aa6e438-3c2b-4db9-b58f-3b015d82e721 .
    pensoft:53ad7d86-e15f-4ee8-9614-0d8e0e2f2e51
                                                    frbr:realizationOf
                                                                          pensoft:fea5b300-0a19-4fd8-ab3f
```

```
##
     rdf:type
                trt:Nomenclature .
    pensoft:fea5b300-0a19-4fd8-ab3f-a130c4beefab
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:b84bb426-f605-4c20-9fc0-4cb2e8435453 .
    pensoft:26db756f-8e2c-4cf0-a2ab-a3aa9288e8f9
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
##
     dwciri:scientificName
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f
    pensoft:1ba4d29a-9a87-416f-8dc2-3706c6f719b7
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f .
##
    pensoft:77ec3cff-3eb7-44fe-8daa-5152b9a86db9
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f .
##
    pensoft:65bd82a6-4d76-45d0-b0df-d4da73d8a181
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f .
                                                                trt:TaxonNameUsage ;
##
    pensoft:d3331f6b-8b1a-4236-84cc-6a7e8b699565
                                                    rdf:type
##
     dwciri:scientificName
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f .
    pensoft:566a3075-ff7f-4171-af3a-5e1efe2c01ff
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
                              pensoft:df7a71ea-0b3b-43b0-91e6-418e12f2a87f .
     dwciri:scientificName
##
    pensoft:1632891e-c2f7-45b6-8cff-9e71b0e3ecd0
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
##
    pensoft:3f603720-6f7c-400c-a698-370473b3cbe5
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                             pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
##
    pensoft:6c825cb1-c3da-45c3-b543-518cc996c759
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
    pensoft:d9d54e9a-636d-44d0-9c48-2f04c6fc1713
##
                                                    rdf:type
                                                                trt:TaxonNameUsage ;
##
     dwciri:scientificName
                              pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
    pensoft:493a091a-690c-48b8-9297-635103e8ee8a
##
                                                    rdf:type
                                                                trt:TaxonNameUsage :
##
     dwciri:scientificName
                             pensoft:97fed37e-291a-4bc1-be34-fbed29a31ed3 .
##
    pensoft:89fe244e-0f0d-4833-a4f0-f261ce27d54f
                                                    rdf:type
                                                                trt:NomenclaturalAct ;
##
                     pensoft:7aa6e438-3c2b-4db9-b58f-3b015d82e721
     trt:ValidName
##
    pensoft:741152aa-e50a-4fb8-99c1-efc6d57bf31b
                                                    rdf:type
                                                                trt:NomenclaturalAct ;
##
     trt:ValidName
                     pensoft:b84bb426-f605-4c20-9fc0-4cb2e8435453 . }
```

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:

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