

Jena RDF Model

Models

We have unified the disparate ways of creating a Jena Model through similar configuration files. By making a configuration file for each model it prevents minor typos and mis-coordinations from slowing adjustments that may need to be made.

Model Parameters

type - defines which type of jena model

Possible Values:

- tdb - defines a tdb jena model
- sdb - defines an sdb jena model
- rdb - defines an rdb jena model
- file - defines an rdf file to use as a model

dbDir - the directory to store a tdb model in

(only needed when type is tdb)

Example Values:

- /absolute/path/to/dir - An absolute path to a directory on linux/unix/macosx operating systems
- C:/absolute/path/to/dir - An absolute path to a directory on a windows operating system
- relative/path/to/dir - A path to a directory that is relative to the folder the shell was in when this command was executed

file - the path to the file that contains rdf data

(only needed when type is file)

Example Values:

- /absolute/path/to/rdf-data.rdf.xml - An absolute path to an rdf file on linux/unix/macosx operating systems
- C:/absolute/path/to/rdf-data.n3 - An absolute path to an rdf file on a windows operating system
- relative/path/to/rdf-data.ttl - A path to an rdf file that is relative to the folder the shell was in when this command was executed

rdLang - the format of the rdf in the file

(optional, only used when type is file)

Possible Values:

- (default) RDF/XML - rdf/xml format
- N3 - n3 format
- TTL - turtle/ttl format
- N-TRIPLE - n-triple format

dbLayout - the layout to use for an sdb model

(optional, only used when type is sdb)

Possible Values:

- (default) layout2 - layout2

dbType - the name of the database type (as specified by jena)

(only needed when type is rdb or sdb)

Examples:

- MySQL - mysql database
- H2 - h2 database

dbClass - the JDBC driver class to use

(only needed when type is rdb or sdb)

Examples:

- com.mysql.jdbc.Driver - mysql database
- org.h2.Driver - h2 database

dbUrl - the JDBC connection url

(only needed when type is rdb or sdb)

Examples:

- jdbc:mysql://127.0.0.1:3306/dbName - mysql database see <http://dev.mysql.com/doc/refman/5.6/en/connector-j-reference-configuration-properties.html>
- jdbc:h2:path/to/h2/store - h2 database see http://www.h2database.com/html/features.html#database_url

modelName - the named model to use

(optional, uses default model if not specified, only used when type is rdb, tdb, or sdb)

Examples:

- <http://vitro.mannlib.cornell.edu/default/vitro-kb-2>
- mySimpleModelName
- <http://vivo.localinstitution.edu/models/my-uri-model>

dbUser - the DB username to use

(only needed when type is rdb or sdb)

Example:

- sa - used for h2 database (the default h2 system admin login)
- myUser

dbPass - the DB password to use

(only needed when type is rdb or sdb)

Example:

- - used for h2 database (the default h2 system admin login)
- myPass

Sample tdb model

```
<Param name="type">tdb</Param>
<Param name="dbDir">data/tdb-jena-rh</Param>
```

Sample file model

```
<Config>
  <Param name="type">file</Param>
  <Param name="file">data/file-jena-rh.rdf.n3</Param>
  <Param name="rdfLang">N3</Param>
</Config>
```

Sample rdb model

```
<Config>
  <Param name="type">rdb</Param>
  <Param name="dbType">H2</Param>
  <Param name="dbClass">org.h2.Driver</Param>
  <Param name="dbUrl">jdbc:h2:data/jena-model/store</Param>
  <Param name="modelName">mySimpleModelName</Param>
  <Param name="dbUser">sa</Param>
  <Param name="dbPass"></Param>
</Config>
```

Sample sdb model

```
<Config>
  <Param name="type">sdb</Param>
  <Param name="dbLayout">layout2</Param>
  <Param name="dbType">H2</Param>
  <Param name="dbClass">org.h2.Driver</Param>
  <Param name="dbUrl">jdbc:h2:data/jena-model/store</Param>
  <Param name="modelName">mySimpleModelName</Param>
  <Param name="dbUser">sa</Param>
  <Param name="dbPass"></Param>
</Config>
```