

```
((37 lines not shown))
                  <dependency>
                       <groupId>com.offbytwo</groupId>
                        <artifactId>docopt</artifactId>
                       <version>0.6.0.20150202/version>
       40
                </dependency>
       41
       43 +
                   <dependency>
       44 +
                        <groupId>ch.qos.logback</groupId>
       45
                        <artifactId>logback-classic</artifactId>
                 </dependency>
       46
       47 +
                  <!--Test dependencies -->
       48 +
       49
                   <dependency>
       50
                        <groupId>org.hamcrest</groupId>
                        <artifactId>hamcrest-all</artifactId>
                        <version>1.3</version>
lutovich added a note Apr 9, 2015
                                                                         Collaborator
Versions should be inherited from parent pom
```

Add a line note

Ill Iutovich commented on the diff Apr 9, 2015



lutovich added a note Apr 9, 2015

Collaborator

Unfortunately now we parse cmd args with org.neo4j.helpers.Args and do not use this library. Also import tool has some custom args syntax that docopt can't handle. It would be good to discuss the possibility to unify things.

jakewins added a note Apr 10, 2015

Collaborator

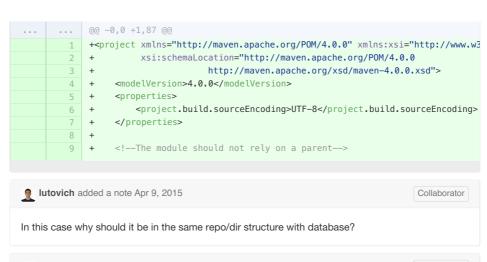
+1. I'm a big fan of docopt, but using the same thing everywhere trumps that. Lets swap it over to Args, and we can improve Args instead as needed.

Add a line note

lutovich commented on the diff Apr 9, 2015

driver/java/pom.xml

View full changes



jakewins added a note Apr 9, 2015

Collaborator

We're planning to do a call on that next wednesday (will send an invite), but we agreed tentatively that we'd move the java driver to the main code base, noting that we can move it back out if it is causing problems.

But I think the comment here is correct - the neo4j drivers are not versioned in lock-step with Neo4j itself - drivers need to be able to do patch releases and so on without a new Neo4j version, and drivers will support multiple versions of Neo4j. Drivers also do not need shared dependency management with Neo4j..

Add a line note

Illutovich commented on the diff Apr 9, 2015



lutovich commented on the diff Apr 9, 2015

...java/driver/src/main/java/org/neo4j/driver/Value.java View full changes

```
((57 lines not shown))
   W
            + * 
            + * 
            + * You can also easily iterate over the users:
           + * 
       61
            + * {@code
           + * for(Value user : value.get("users") )
       63
       64
            + * {
            + *
                    System.out.println(user.get("name").stringValue());
            + * }
        66
       67
            + * }
            + * 
            + */
        70
            +public interface Value extends Iterable<Value>
                 /** @return the value as a Java String, if possible. */
lutovich added a note Apr 9, 2015
                                                                          Collaborator
Javadoc about what happens if 'not possible' would be useful
```

Add a line note

lutovich commented on the diff Apr 9, 2015



Add a line note



lutovich commented Apr 9, 2015

Collaborator

- I think this PR has some things worth discussing:
- 1) imho there is some confusion in pom files as top one driver/java/pom.xml does depend on neo4j parent and some other pom files down the tree do not have any parent

Is this same thing as org.neo4j.ndp.messaging.v1.MessageFormat ?

- 2) should driver live in same repo as database?
- 3) why there are many copy-pasted classes (from #4355)?



jakewins commented Apr 9, 2015

Collaborator

Thanks for all the feedback so far @lutovich!

Here's the thinking on the copies: the messaging and packstream implementations are duplicated between the Neo4j implementation and the Java Driver, partially because they have different needs (the java driver implementation of messaging is using the Drivers type system API, for instance), partially because the driver is not released lock-step with Neo4j (and can't depend on Neo4j), but mostly because

the java driver is meant to serve as a reference implementation.

In it's role as a reference implementation, it should be organized and coded in a way that serves as a blueprint for other languages. All other drivers will need to contain their own message protocol implementations, so the reference driver should as well to show how to do it. Likewise, other drivers will not be able to depend on Neo4j internals for various things - so neither should the reference driver.



davidegrohmann commented Apr 9, 2015

Collaborator

@jakewins if the java-driver does not share any code with the database I don't really see any benefit in having it in the main repo, can you explain why we should merge this in?



davidegrohmann commented on the diff Apr 9, 2015

driver/java/pom.xml		om.xml	View full changes	
	1 2 3	+ xsi:schemaLocation="http://maven.apache.org/F	<pre>,87 @@ xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0</pre>	
	4	+ <modelversion>4.0.0</modelversion>		
	5 6 7 8 9	<pre>+ <pre></pre></pre>	ouild.sourceEncoding	
	11 12 13	<pre>+ <groupid>org.neo4j.driver</groupid> + <artifactid>neo4j-java-driver-parent</artifactid> + <version>2.3-SNAPSHOT</version></pre>		
€ da	avidegro	hmann added a note Apr 9, 2015	Collaborator	
Why s	should t	ne driver be tight to the release cycle of the database?		
jakewins added a note Apr 10, 2015			Collaborator	



Mats-SX commented on

driver/java/driver/src/main/java/org/neo4j/driver/Record.java in c642e92 Apr 9, 2015

Typo in javadoc: "the field field" -> "the field name"



Mats-SX commented on

driver/java/driver/src/main/java/org/neo4j/driver/Result.java in c642e92 Apr 9, 2015

Typo in javadoc: "the field field" -> "the field name"



jakewins commented Apr 10, 2015

Collaborator

Collaborator

Collaborator

@davidegrohmann it's not for sure at all that it should, there are arguments in both directions. I'll send you a link to some ad-hoc discussion we had on this with @simpsonjulian the other day. The conclusion there was that we'd try having it in the same code base, and if we run into issues doing it that way we'll break it out. Thinking about it now, I'm realizing that the versioned branching that happens in this repo will pose a hurdle, and that having tons of tags for all the different driver releases in this repo will be very confusing ("java-driver-1.2.0", "pascal-driver-2.3"). I'll send you an invite to the call on this.



simpsonjulian commented Apr 10, 2015

Owner

@davidegrohmann @jakewins I have zero skin in this game; but what I was trying to say the other day was that due to

- (we assume) Neo4j's dependence on the Java driver, and
- the lack of a release process for the Java driver, and
- (we assume) the user expectation to see the drivers to have the same version as a neo4j release, then it made sense to keep that driver in the Neo4j project unless there was a reason not to.

If you've found a compelling reason not to, then you should talk to @benbc and friends about the release process.



nigelsmall commented Apr 10, 2015

Owner

I disagree with the assertion in @simpsonjulian's third point. I don't think there would necessarily be an expectation for a driver to have the same version as the server. The Java driver will (ultimately) be closer to a pool of drivers in other languages rather than the server itself and will probably, necessarily have to support multiple server versions. Limiting ourselves to only updating a driver when the server is also updated, just to maintain simplicity of versioning, feels like an arbitrary constraint.



zhenlineo commented Apr 10, 2015

Collaborator

More comments are welcome but close this pr for now until we've decided where to put the driver



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