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# Connecting to MongoDB with R and rmongodb

The rmongodb driver is the standard mongodb driver for R, and can be installed by launching the Package Installer from within the R Environment, and installing the rmongodb package

The following can be run directly within the R Environment. take care to use the correct user/password, host, port. The defaults below will likely not work.

---

## Code Sample

```
1
2 library(rmongodb)
3
4 # your connection details will likely differ from these
5 host <- "dharma.compose.io:10200"
6 username <- "myuser"
7 password <- "mypassword"
8 db <- "testdatabase"
9
10 #connect to mongo
11 #the create function has the following signature
12 #mongo.create(host="127.0.0.1", name="", username="",
13
14 mongo <- mongo.create(host=host , db=db, username=user
```

```
15
16 # lets create a string that points to our namespace
17 # the database we're working with is "testdatabase", a
18 collection <- "example"
19 namespace <- paste(db, collection, sep=".") "testdabas
20
21 #get a list of collections within our namespace
22 mongo.get.database.collections(mongo, db)
23
24 # find the number of documents in 'exampleCollection'
25 mongo.count(mongo, namespace, mongo.bson.empty())
26
27 #lets create a document to insert
28 b <- mongo.bson.from.list(list(platform="Compose", lar
29
30 #insert the document into our namespace
31 ok <- mongo.insert(mongo, namespace, b)
32
33 # lets insert a few documents
34 for (i in 2:50 ) {
35   b <- mongo.bson.from.list(list(platform="Compose", la
36   mongo.insert(mongo, namespace, b)
37 }
38
39 # build a query to find all "language: R"
40 buf <- mongo.bson.buffer.create()
41 mongo.bson.buffer.append(buf, "language", "R")
42 query <- mongo.bson.from.buffer(buf)
43
44 # get the count
45 count <- mongo.count(mongo, namespace, query)
46
47
48 #and bring them back into a list
49 numbers <- list()
50 cursor <- mongo.find(mongo, namespace, query)
51 while (mongo.cursor.next(cursor)) {
52   val <- mongo.cursor.value(cursor)
53   numbers[[length(numbers)+1]] <- mongo.bson.value(val
54 }
```

For further reference, rmongodb documentation is available at <http://cnub.org/doc/rmongodb.pdf> ([//cnub.org/doc/rmongodb.pdf](http://cnub.org/doc/rmongodb.pdf)).

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