IS607 Week 12 Assignment

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# MongoDB

1. Load json file into mongodb
2. Load data from a mongodb into R

**Create a connection to Mongodb**

library (rmongodb)  
  
mongo <- mongo.create()  
mongo

## [1] 0  
## attr(,"mongo")  
## <pointer: 0x000000000793beb8>  
## attr(,"class")  
## [1] "mongo"  
## attr(,"host")  
## [1] "127.0.0.1"  
## attr(,"name")  
## [1] ""  
## attr(,"username")  
## [1] ""  
## attr(,"password")  
## [1] ""  
## attr(,"db")  
## [1] "admin"  
## attr(,"timeout")  
## [1] 0

**Get all the databases from your Mongodb connection**

library (rmongodb)  
  
if(mongo.is.connected(mongo) == TRUE) {  
 mongo.get.databases(mongo)  
}

## [1] "data" "test"

**Get all the collections from test in Mongodb**

if(mongo.is.connected(mongo) == TRUE) {  
 db <- "test"  
 mongo.get.database.collections(mongo, db)  
}

## [1] "test.zipcode"

collection <- "test.zipcode"

**Get the size of the collection, sample document and values for keys**

if(mongo.is.connected(mongo) == TRUE) {  
 help("mongo.count")  
 mongo.count(mongo, collection)  
}

## [1] 1

**Retrieve one record from the dataset sourced from Mongodb**

if(mongo.is.connected(mongo) == TRUE) {  
 mongo.find.one(mongo, collection)  
}

## \_id : 2 10280  
## city : 2 NEW YORK  
## state : 2 NY  
## pop : 1 5574.000000  
## loc : 4   
## 0 : 1 -74.016323  
## 1 : 1 40.710537

**Convert bison to list**

ds = mongo.find.one(mongo, ns = "test.zipcode")  
ds = mongo.bson.to.list(ds)  
class(ds)

## [1] "list"

names(ds)

## [1] "\_id" "city" "state" "pop" "loc"