## Using MongoDB

1. Download MongoDB from mongodb.org. Unzip the files to a temp folder. Copy files from temp/bin to a mongodb directory which you create wherever you want mongo to live.
2. Navigate to the mongodb directory, and create a directory called data.

$ mkdir data

1. Start your database server:

$ mongod --dbpath data  
  
It should say:   
[initandlisten] waiting for connections on port 27017

1. Now we will open up another terminal window to connect to our database server. This is the “client.” Navigate to your MongoDB directory again, and type:

$ mongo  
  
It should say: connecting to: test Ignore the warnings.  
Look at the mongod (server) instance… it will tell you that a connection has been established.

1. Create a database:  
     
   use dbtest
2. Add some data, using JSON. Mongo will provide a unique identifier.

> db.users.insert({"username":"tostrander", "email":"tostrander@greenriver.edu"})

WriteResult({ "nInserted" : 1 })

db stands for our database (dbtest). users is a collection of data. It gets created the first time we use it.

1. View the data. pretty() gives us line breaks. Try with and without. Note that the ID is auto-created.  
     
   > db.users.find().pretty()

{

"\_id" : ObjectId("54e4f517f71b34f8634ddc81"),

"username" : "tostrander",

"email" : "tostrander@greenriver.edu"

}

1. Add a few more records and view them.

newstuff = [{ "username" : "jshmo", "email" : "jshmo@msn.com" }, { "username" : "jgarcia", "email" : "jgarcia@comcast.net" }] db.users.insert(newstuff);  
db.users.find().pretty()

1. Find a particular row:

> db.users.find({"username":"jshmo"}).pretty()

{

"\_id" : ObjectId("54e4f517f71b34f8634ddc81"),

"username" : "tostrander",

"email" : "tostrander@greenriver.edu"

}

1. Find more than one row:

> db.users.find( { "username": { $in: [ "tostrander", "jshmo" ] } } ).pretty()

{

"\_id" : ObjectId("54e4f769f71b34f8634ddc83"),

"username" : "tostrander",

"email" : "tostrander@greenriver.edu"

}

For more on querying MongoDB, see <http://docs.mongodb.org/manual/tutorial/query-documents/>