# MongoDB - Next Steps

In class we were introduced to MongoDB and performed some basic data manipulation and analysis. **This document lists some potential next steps (with links to resources) for learning MongoDB and its context as part of NoSQL.**

[Management/User Interface Tools](#)

[MongoDB University](#)

[NoSQL](#)

[Additional Articles](#)

### Management/User Interface Tools

Writing complex and long aggregation queries directly in the Mongo shell can be difficult - there are so many braces! There are several third-party tools developed that enhance your interaction with MongoDB.

Robomongo is an open-source tool with lots of great features, such as the ability to open multiple shells, visualize and inspect your results and many others.
http://robomongo.org/

A list of MongoDB management tools, with description.
http://docs.mongodb.org/ecosystem/tools/administration-interfaces/

### MongoDB University

There are several online courses available for free from MongoDB as well as the paid MongoDB certification. The free introductory course (M101) focuses on building a blog web application that utilizes MongoDB as a persistent storage. There are versions of this class available for Java, Python and JavaScript (Node.js) developers. Note that the classes are not available at all times - there are sessions with specified times.
https://university.mongodb.com/

*NoSQL*

How does MongoDB fit in the greater scheme of NoSQL databases?
Why do people move to NoSQL? Under what circumstances would you
want to use a NoSQL database like MongoDB?

Here is a great talk from the famous software developer and technical
writer Martin Fowler giving an introduction to NoSQL, an overview of the
different types of NoSQL stores and some of the reasons why people
have decided to move to the new databases.
https://www.youtube.com/watch?v=qI_g07C_Q5I

This is a talk from Pramod Sadalge from ThoughtWorks discussing
lessons learned from a large-scale project where he applied MongoDB.
http://vimeo.com/26385820

*Additional Articles*

IBM Developerworks is collection of articles and online resources for
software developers and data analysts. The collection includes some
useful materials for learning MongoDB.

General overview of MongoDB that also covers some advanced
features.
http://www.ibm.com/developerworks/training/kp/j-kp-mongo/index.html?
ca=dat

This tutorial focuses on building a simple notification tool using
MongoDB and Node.js. This is a great example that shows the
advantages of using MongoDB as a rapid prototyping tool.
http://www.ibm.com/developerworks/library/wa-notify-app/

This article focuses on how Shutterfly uses MongoDB, why their
engineering team picked MongoDB, and what are the lessons learned
from that experience.
http://gigaom.com/2011/01/28/real-world-nosql-mongodb-at-shutterfly/