

In this lecture, we will discuss...

- ✧ Importing sample data
- ✧ Basics of MongoDB shell
- ✧ MongoDB collections
- ✧ IRB shell and MongoDB
- ✧ Basic MongoDB commands in IRB

MongoDB Basics

✧ Import dataset

- Download sample zips.json file from MongoDB
- Save the above file
- Run the import command as in

✧ `> mongoimport --db test --collection zips
--drop --file zips.json`



Database, Documents and Collections

- ✧ Mongo can create database **on the fly**
 - No need to create database beforehand
- ✧ Documents
 - Unit of **storing data** in a MongoDB database
 - JSON document
- ✧ Collection (similar to tables in DB)
 - Unit of **storing data** in a MongoDB database
 - Collection of documents

Collection Types

✧ Capped Collection

- **Fixed-size** collections that support **high-throughput** operations
- Insert and retrieve documents based on **insertion order**
- Once a collection fills its allocated space, it **makes room** for new documents by **overwriting** the oldest documents in the collection
- `db.createCollection("log", { capped : true, size : 5242880, max : 5000 })`



Mongo Basics

✧ Start mongo shell

- `$ mongo`

✧ Switch to test database

```
> use test
```

✧ Test the data with a simple find command (note: we will cover this in more depth later)

```
> db.zips.findOne()
```

- The above command will return a single document from the zips collection.



MongoDB Ruby Driver Setup

✧ mongo-ruby driver

- `gem update -system`
- `gem install mongo`
- `gem install bson_ext`

✧ Using gem

```
> require mongo
```



MongoDB Basics (irb shell)

✧ Start irb shell

✧ Type the following commands:

```
> require 'mongo'
> Mongo::Logger.logger.level =
  ::Logger::INFO
> db =
Mongo::Client.new('mongodb://localhost:27017')
> db=db.use('test')
> db.database.name
> db.database.collection_names
> db[:zip].find.first
```



Summary

- ✧ Basics of MongoDB
- ✧ Database, Document and Collection
- ✧ MongoDB Ruby Driver
 - `<irb>` shell

What's Next?

- ✧ CRUD Operations



Next Topic.....

Lesson 2 – CRUD operations

