

DS 4300

# MongoDB + PyMongo

Mark Fontenot, PhD  
Northeastern University

- PyMongo is a Python library for interfacing with MongoDB instances

```
from pymongo import MongoClient  
  
client = MongoClient(  
    'mongodb://user_name:pw@localhost:27017'  
)
```

# Getting a Database and Collection

```
from pymongo import MongoClient

client = MongoClient(
    'mongodb://user_name:pw@localhost:27017'
)

db = client['ds4300'] # or client.ds4300
collection = db['myCollection'] #or db.myCollection
```

# Inserting a Single Document

```
db = client['ds4300']
collection = db['myCollection']

post = {
    "author": "Mark",
    "text": "MongoDB is Cool!",
    "tags": ["mongodb", "python"]
}

post_id = collection.insert_one(post).inserted_id
print(post_id)
```

# Find all Movies from 2000

```
from bson.json_util import dumps

# Find all movies released in 2000
movies_2000 = db.movies.find({"year": 2000})

# Print results
print(dumps(movies_2000, indent = 2))
```

# Jupyter Time

- Activate your DS4300 conda or venv python environment
- Install pymongo with **pip install pymongo**
- Install **Jupyter Lab** in you python environment
  - pip install jupyterlab
- Download and unzip > [this](#) < zip file - contains 2 Jupyter Notebooks
- In terminal, navigate to the folder where you unzipped the files, and run **jupyter lab**

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