Recitation 5: MongoDB
SQL vs NoSQL

- **SQL**
  - First establish schema & create table based on schema
  - Then insert objects that follow schema
  - To change schema, use migration

- **NoSQL (like MongoDB)**
  - Insert into Collection
  - No predetermined schema required
  - Dangerous! Might ask for attribute that’s not there
db.users.insert(
  {
    name: "sue",
    age: 26,
    status: "A",
    groups: [ "news", "sports" ]
  }
)

Collection

```
{ name: "al", age: 18, ... }
{ name: "lee", age: 28, ... }
{ name: "jan", age: 21, ... }
{ name: "kai", age: 38, ... }
{ name: "sam", age: 18, ... }
{ name: "mel", age: 38, ... }
{ name: "ryan", age: 31, ... }
{ name: "sue", age: 26, ... }
```

users
Why a database?

- Storing data in memory → data gone if app crashes
- Database persists data, even if app crashes
Interactive Tutorial

https://github.com/kathrynsiegel/6170-mongo-recitation
REST Review

- GET - fetch a resource from the server
  - GET /users
  - GET /users/:id
- POST - send resource to the server
  - POST /users
- PUT - modify resource on the server
  - PUT /users/:id
- DELETE - delete resource on the server
  - DELETE /users/:id