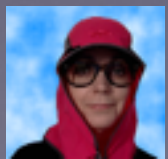


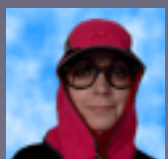
mongodb

- Humongous
- Open-source
- The leading NoSQL database
- www.mongodb.org



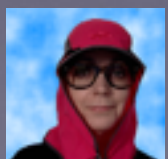
Install MongoDB

- Using Homebrew
 - brew update
 - brew install mongod
- For more options:
 - <http://docs.mongodb.org/manual/tutorial/install-mongodb-on-os-x/>



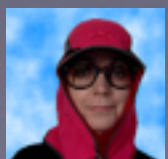
Create a Data Directory

- `mkdir -p /data/db` or
- `mkdir -p ~/data/db` (my preference for a development environment)
- The user account running mongos must have read & write permission for the directory



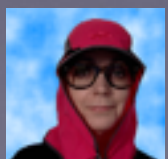
Run MongoDB

- If your data directory is /data/db:
 - mongod
- If your data directory is ~/data/db:
 - mongod --dbpath ~/data/db (from your home directory)



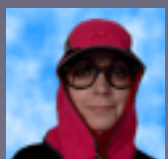
Connect to MongoDB

- From another terminal window:
 - `mongo`



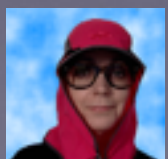
Stopping/Starting MongoDB

- Control+C in the terminal window where the mongod instance is running
- `mongod` or `mongod --dbpath <PATH>`



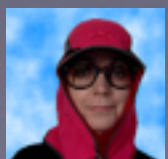
mongoDB and Rails

- From yet another terminal window:
 - rails new mymongoapp --skip-active-record
 - Open the new app in your trusty text editor.



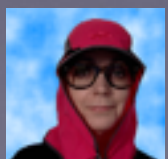
Gemfile

- If you see this line remove it
 - `gem 'sqlite3'`
- Add these:
 - `gem 'mongoid', '~>4', github: 'mongoid/mongoid'`
 - `gem 'bson_ext'`
- `bundle install`



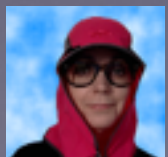
The mongoid.yml

- rails g mongoid:config
- This generates the config/mongoid.yml file. Open it up and you will see configuration options.



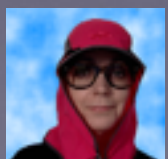
Start the Rails Server

- rails server or rails s
- Underwhelming at this point



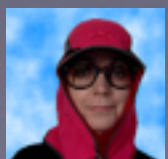
Posts

- git init and initial commit
- rails g scaffold post title:string body:string starred:boolean



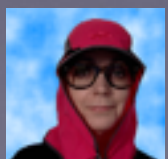
Posts Model

- Add timestamps:
 - include Mongoid::Timestamps
- Add an index to the starred field
 - index({ starred: 1 })



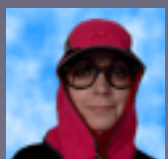
Enforce Indexes

- I learned something new. Both "indexes" and "indices" are acceptable plural forms of "index".
- `rake db:mongoid:create_indexes`



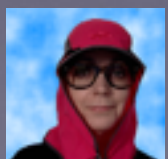
It Works!

- Start the server again:
 - rails s
- Navigate to <http://localhost:3000>



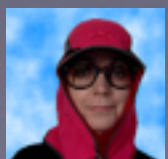
Didn't We Skip a Step?

- What we did not do:
 - `rake db:migrate`
- To modify the model, in most cases you just modify the model. No generating, editing or modifying migrations!



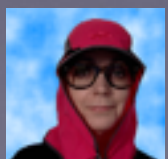
mongoDB Links

- Why mongoDB
 - <http://www.coderslash.com/blog/development/why-nosql-is-bad-for-startups>
 - <http://kkovacs.eu/cassandra-vs-mongodb-vs-couchdb-vs-redis>



Tutorial Links

- Tutorial
 - <https://gorails.com/blog/rails-4-0-with-mongodb-and-mongoid>
 - <http://requiremind.com/riding-rails-4-along-with-mongoid-and-ruby-2-dot-0/>



Why MongoDB?

- There is a lot of debate on the subject.
- You can't join the debate if you don't get your feet wet.
- NoSQL is here to stay.
- Why not?

