Neo4j.rb Screencast Series

Episode 1
Creating a Rails App

```
[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib
$ 
```

3. bash

```
[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib
$ rails 
```

```
[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib
$ rails new asset_portal -m http://neo4jrb.io/neo4j/neo4j.rb -O
```

```
   create    test/controllers/.keep
   create    test/mailers
   create    test/mailers/.keep
   create    test/models
   create    test/models/.keep
   create    test/helpers
   create    test/helpers/.keep
   create    test/integration
   create    test/integration/.keep
   create    test/test_helper.rb
   create    tmp/cache
   create    tmp/cache/assets
   create    vendor/assets/javascripts
   create    vendor/assets/javascripts/.keep
   create    vendor/assets/stylesheets
   create    vendor/assets/stylesheets/.keep
    apply    http://neo4jrb.io/neo4j/neo4j.rb
  gemfile      neo4j (~> 5.0.0)
   insert      config/application.rb
      run    bundle install
```

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```
Using rails 4.2.3
Using rdoc 4.2.0
Using sass 3.4.15
Using tilt 1.4.1
Using sass-rails 5.0.3
Using sdoc 0.4.1
Using spring 1.3.6
Using turbolinks 2.5.3
Using uglifier 2.7.1
Using web-console 2.1.3
Bundle complete! 12 Gemfile dependencies, 67 gems now installed.
Use `bundle show [gemname]` to see where a bundled gem is installed.
        run  bundle exec spring binstub --all
* bin/rake: spring inserted
* bin/rails: spring inserted


[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib
$ cd asset_portal


[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ 
```

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```
[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ rake neo4j:install[community-latest,development]

```

```
x neo4j-community-2.2.3/conf/README.txt
x neo4j-community-2.2.3/conf/neo4j-wrapper.conf
x neo4j-community-2.2.3/conf/logging.properties
x neo4j-community-2.2.3/conf/windows-wrapper-logging.properties
x neo4j-community-2.2.3/conf/neo4j-server.properties
x neo4j-community-2.2.3/CHANGES.txt
x neo4j-community-2.2.3/LICENSE.txt
x neo4j-community-2.2.3/bin/utils
x neo4j-community-2.2.3/bin/neo4j-import
x neo4j-community-2.2.3/bin/neo4j-installer
x neo4j-community-2.2.3/bin/neo4j-shell
x neo4j-community-2.2.3/bin/neo4j
x neo4j-community-2.2.3/system/resources/
x neo4j-community-2.2.3/system/resources/org.neo4j.server.plist
x neo4j-community-2.2.3/UPGRADE.txt
Neo4j Installed in to neo4j directory.
Type 'rake neo4j:start' or 'rake neo4j:start[ENVIRONMENT]' to start it
Type 'neo4j:config[ENVIRONMENT,PORT]' for changing server port, (default 7474)


[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ 
```

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3. bash

```
[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ rake neo4j:config[development,7000]
Config Neo4j development for port 7000


[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$
```
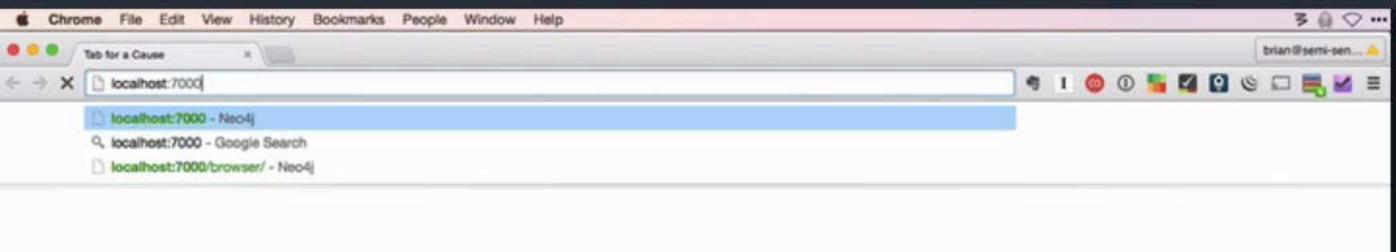
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```
[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ rake neo4j:config[development,7000]
Config Neo4j development for port 7000


[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ rake neo4j:start[development]
Starting Neo4j development...
Starting Neo4j Server...WARNING: not changing user
process [17896]... waiting for server to be ready...
```
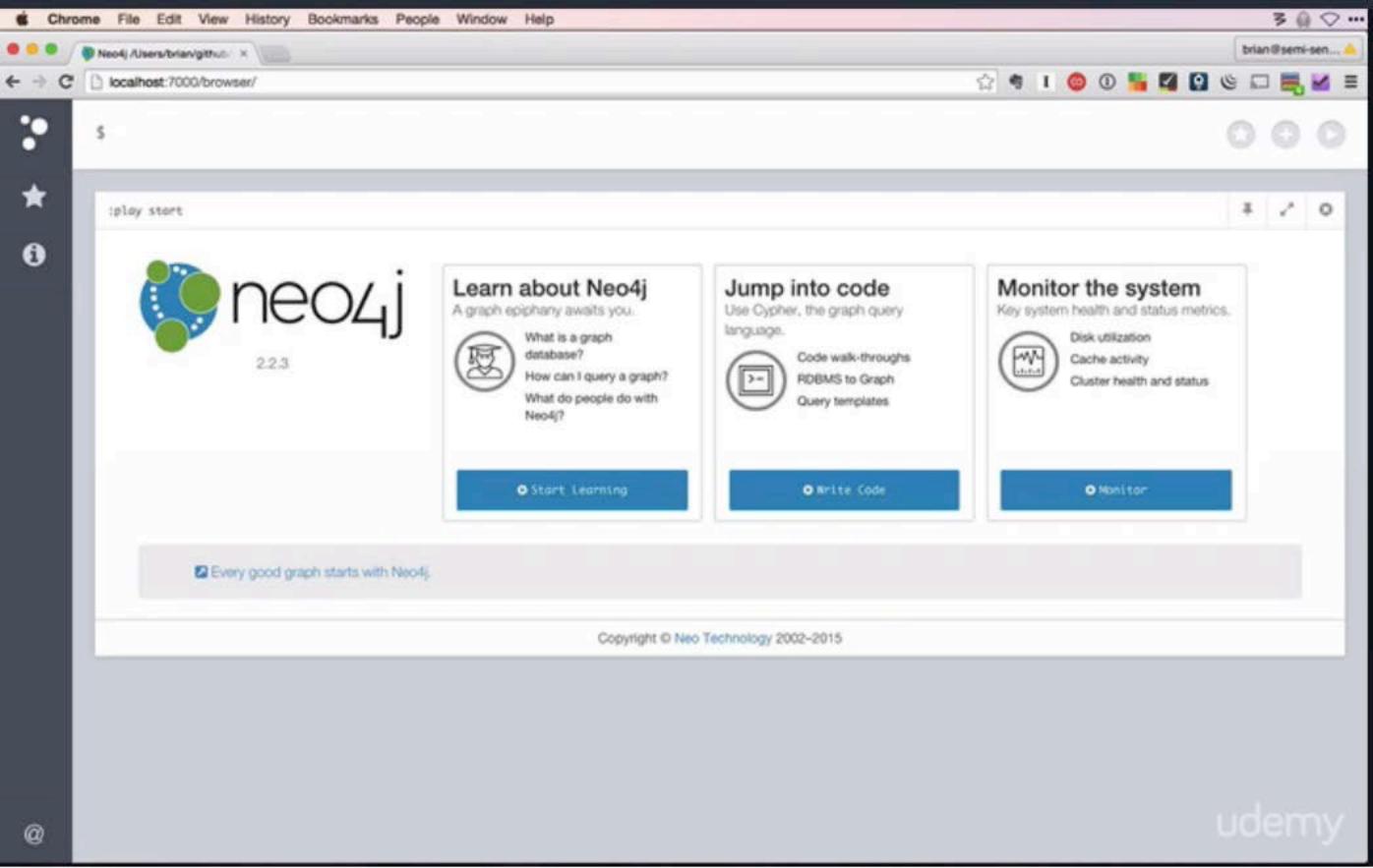
Tab for a Cause   ✕

brian@semi-sen... ⚠

localhost:7000

localhost:7000 - Neo4j
localhost:7000 - Google Search
localhost:7000/browser/ - Neo4j

$

:play start

neo4j

2.2.3

Learn about Neo4j
A graph epiphany awaits you.

What is a graph database?

How can I query a graph?

What do people do with Neo4j?

Start Learning

Jump into code
Use Cypher, the graph query language.

Code walk-throughs

RDBMS to Graph

Query templates

Write Code

Monitor the system
Key system health and status metrics.

Disk utilization

Cache activity

Cluster health and status

Monitor

Every good graph starts with Neo4j.

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FOLDERS

▼ asset_portal
  ▶ app
  ▶ bin
  ▶ config
  ▶ db
  ▶ lib
  ▶ log
  ▶ public
  ▶ test
  ▶ tmp
  ▶ vendor
    .gitignore
    config.ru
    Gemfile
    Gemfile.lock
    Rakefile
    README.rdoc

development.rb

```ruby
10    config.eager_load = false
11
12    # Show full error reports and disable caching.
13    config.consider_all_requests_local       = true
14    config.action_controller.perform_caching = false
15
16    # Don't care if the mailer can't send.
17    config.action_mailer.raise_delivery_errors = false
18
19    # Print deprecation notices to the Rails logger.
20    config.active_support.deprecation = :log
21
22    # Debug mode disables concatenation and preprocessing of assets.
23    # This option may cause significant delays in view rendering with a large
24    # number of complex assets.
25    config.assets.debug = true
26
27    # Asset digests allow you to set far-future HTTP expiration dates on all assets,
28    # yet still be able to expire them through the digest params.
29    config.assets.digest = true
30
31    # Adds additional error checking when serving assets at runtime.
32    # Checks for improperly declared sprockets dependencies.
33    # Raises helpful error messages.
34    config.assets.raise_runtime_errors = true
35
36    # Raises error for missing translations
37    # config.action_view.raise_on_missing_translations = true
38
39    config.neo4j.session_type = :server_db
40    config.neo4j.session_path = 'http://localhost:7000'
41  end
```
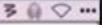
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```
[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ rails g model Asset title:string created_at:datetime updated_at:datetime
      invoke  neo4j
      create    app/models/asset.rb
      invoke    test_unit
      create        test/models/asset_test.rb
      create        test/fixtures/assets.yml


[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ 
```

FOLDERS
▼ asset_portal
  ▶ app
  ▶ bin
  ▶ config
  ▶ db
  ▶ lib
  ▶ log
  ▶ public
  ▶ test
  ▶ tmp
  ▶ vendor
    .gitignore
    config.ru
    Gemfile
    Gemfile.lock
    Rakefile
    README.rdoc

development.rb   asset.rb

```ruby
1  class Asset
2    include Neo4j::ActiveNode
3    property :title, type: String
4    property :created_at, type: DateTime
5    property :updated_at, type: DateTime
6
7  end
8
```

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```
[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ rails c
Loading development environment (Rails 4.2.3)
2.2.0 :001 > Asset.create(title: 'A predictive analysis of predictive analytics')
 CYPHER 21ms CREATE CONSTRAINT ON (n:`Asset`) ASSERT n.`uuid` IS UNIQUE
 CYPHER 9ms CREATE (n:`Asset` {props}) RETURN ID(n) | {:props=>{:uuid=>"8f58f200-027
d-4a93-a2ce-6e6989ce26bf", :title=>"A predictive analysis of predictive analytics",
:created_at=>1435778277, :updated_at=>1435778277}}
 => #<Asset uuid: "8f58f200-027d-4a93-a2ce-6e6989ce26bf", created_at: Wed, 01 Jul 20
15 19:17:57 +0000, title: "A predictive analysis of predictive analytics", updated_a
t: Wed, 01 Jul 2015 19:17:57 +0000>
2.2.0 :002 > █
```

```
[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ rails c
Loading development environment (Rails 4.2.3)
2.2.0 :001 > Asset.create(title: 'A predictive analysis of predictive analytics')
 CYPHER 21ms CREATE CONSTRAINT ON (n:`Asset`) ASSERT n.`uuid` IS UNIQUE
 CYPHER 9ms CREATE (n:`Asset` {props}) RETURN ID(n) | {:props=>{:uuid=>"8f58f200-027
d-4a93-a2ce-6e6989ce26bf", :title=>"A predictive analysis of predictive analytics",
:created_at=>1435778277, :updated_at=>1435778277}}
 => #<Asset uuid: "8f58f200-027d-4a93-a2ce-6e6989ce26bf", created_at: Wed, 01 Jul 20
15 19:17:57 +0000, title: "A predictive analysis of predictive analytics", updated_a
t: Wed, 01 Jul 2015 19:17:57 +0000>
2.2.0 :002 > Asset.first
 CYPHER 46ms MATCH (n:`Asset`) RETURN n ORDER BY n.uuid LIMIT {limit_1} | {:limit_1=
>1}
 => #<Asset uuid: "7e01e388-c926-42aa-ad5b-5183ec5deb81", created_at: Wed, 01 Jul 20
15 19:14:05 +0000, title: "Data crunching in the cloud", updated_at: Wed, 01 Jul 201
5 19:14:05 +0000>
2.2.0 :003 > ▊
```
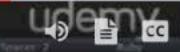
Rails App

```
[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ rails g controller assets
      create    app/controllers/assets_controller.rb
      invoke    erb
      create      app/views/assets
      invoke    test_unit
      create      test/controllers/assets_controller_test.rb
      invoke    helper
      create      app/helpers/assets_helper.rb
      invoke      test_unit
      invoke    assets
      invoke      coffee
      create        app/assets/javascripts/assets.coffee
      invoke      scss
      create        app/assets/stylesheets/assets.scss

[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ 
```

3:26 / 4:22

```ruby
class AssetsController < ApplicationController
  def index
    @assets = Asset.all
  end
end
```

Rails App

- ▼ asset_portal
  - ▶ app
  - ▶ bin
  - ▶ config
  - ▶ db
  - ▶ lib
  - ▶ log
  - ▶ public
  - ▶ test
  - ▶ tmp
  - ▶ vendor
  - .gitignore
  - config.ru
  - Gemfile
  - Gemfile.lock
  - Rakefile
  - README.rdoc

Tabs: development.rb | asset.rb | assets_controller.rb | index.html.erb

```erb
1  <% @assets.each do |asset| %>
2    <%= asset.title %>
3  <% end %>
```

3:50 / 4:22

INSERT MODE, Line 3, Column 10   Spaces: 2   HTML (Rails)

```ruby
Rails.application.routes.draw do
  root 'assets#index'
  # The priority is based upon order of creation: first created -> highest priority.
  # See how all your routes lay out with "rake routes".

  # You can have the root of your site routed with "root"
  # root 'welcome#index'

  # Example of regular route:
  #   get 'products/:id' => 'catalog#view'

  # Example of named route that can be invoked with purchase_url(id: product.id)
  #   get 'products/:id/purchase' => 'catalog#purchase', as: :purchase

  # Example resource route (maps HTTP verbs to controller actions automatically):
  #   resources :products

  # Example resource route with options:
  #   resources :products do
  #     member do
  #       get 'short'
  #       post 'toggle'
  #     end
  #
  #     collection do
  #       get 'sold'
  #     end
  #   end

  # Example resource route with sub-resources:
  #   resources :products do
  #     resources :comments, :sales
```

```
[brian@Brians-MacBook-Air.local:o +1] ~/github/neo4j-contrib/asset_portal
$ rails s
=> Booting WEBrick
=> Rails 4.2.3 application starting in development on http://localhost:3000
=> Run `rails server -h` for more startup options
=> Ctrl-C to shutdown server
[2015-07-01 14:12:11] INFO  WEBrick 1.3.1
[2015-07-01 14:12:11] INFO  ruby 2.2.0 (2014-12-25) [x86_64-darwin14]
```
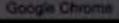
A predictive analysis of predictive analytics