Neo4j.rb Screencast Series

Episode 1
Creating a Rails App

```
[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
```

```
Using sprockets 3.2.0
Using sprockets-rails 2.3.2
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
```

```
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
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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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3. bash

```
[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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```
[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..
```

```
[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..
```
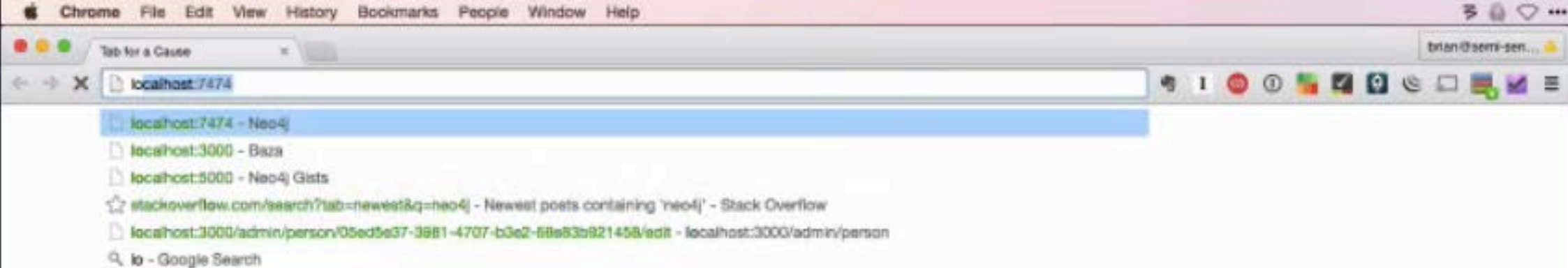
Chrome   File   Edit   View   History   Bookmarks   People   Window   Help

Tab for a Cause

brian@semi-sen...

localhost:7474

localhost:7474 - Neo4j
localhost:3000 - Baza
localhost:5000 - Neo4j Gists
stackoverflow.com/search?tab=newest&q=neo4j - Newest posts containing 'neo4j' - Stack Overflow
localhost:3000/admin/person/05ed5a37-39B1-4707-b3e2-68e83b921458/edit - localhost:3000/admin/person
io - Google Search

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```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
```

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

```
[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
$
```

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    Rakefile
    README.rdoc

development.rb   asset.rb

```ruby
class Asset
  include Neo4j::ActiveNode
  property :title, type: String
  property :created_at, type: DateTime
  property :updated_at, type: DateTime

end
```

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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 > Asset.
```

```
[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
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 => #<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 > █
```

```
[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
$ ▊
```

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    .gitignore
    config.ru
    Gemfile
    Gemfile.lock
    Rakefile
    README.rdoc

development.rb   asset.rb   assets_controller.rb

```ruby
1  class AssetsController < ApplicationController
2    def index
3      @assets = Asset.all
4    end
5  end
6
```

untitled — asset_portal

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 ▶ test
 ▶ tmp
 ▶ vendor
  .gitignore
  config.ru
  Gemfile
  Gemfile.lock
  Rakefile
  README.rdoc

development.rb   asset.rb   assets_controller.rb   untitled

Save

Save As: index.html.erb

Tags:

assets

Favorites
 Dropbox
 iCloud Drive
 Applications
 Desktop
 Documents
 Downloads
 github
 Projects
 Google Drive

Devices
 Remote Disc

Tags
 ● Red

assets   ►
layouts   ►

New Folder   Cancel   Save

INSERT MODE, Line 1, Column 1; Saved ~/github/neo4j-contrib/asset_portal/app/controllers/assets_controller.rb (UTF-8)   Spaces: 2   Plain Text
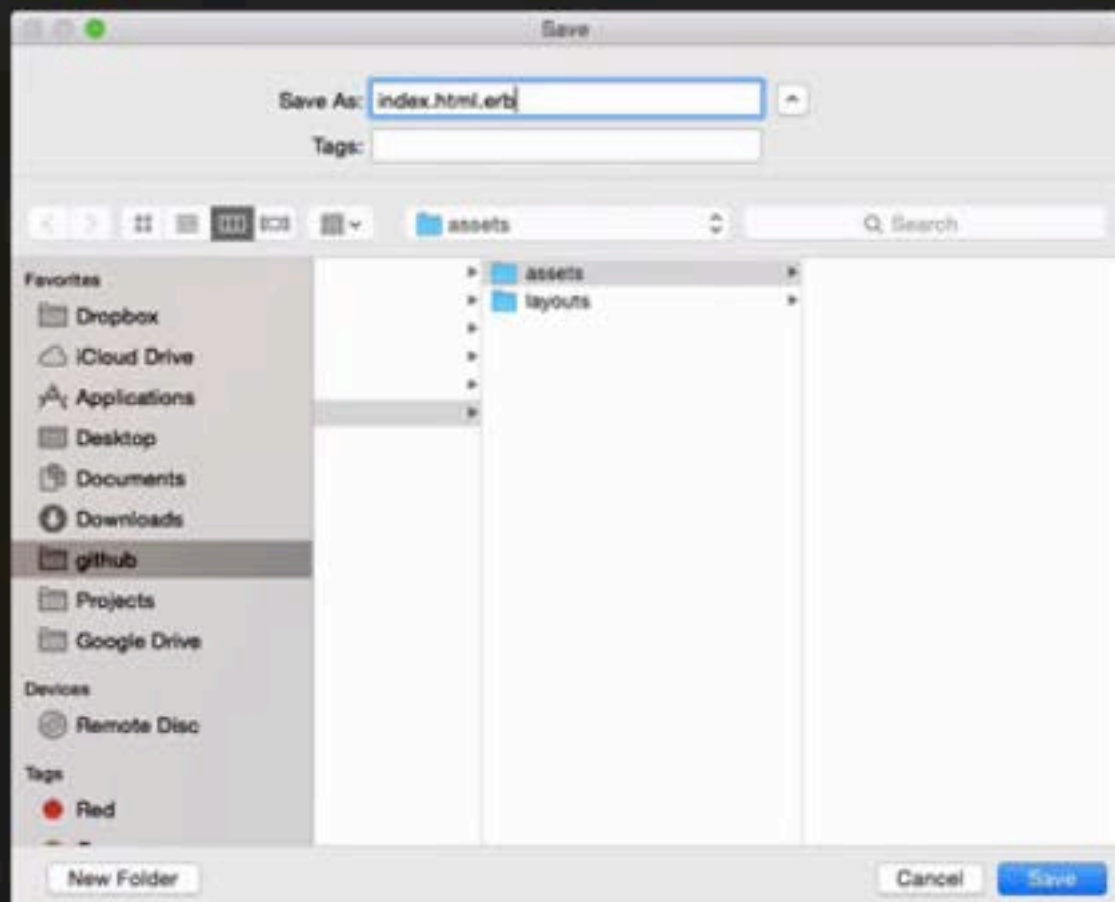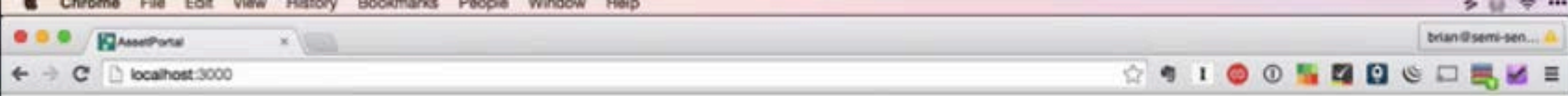
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    config.ru
    Gemfile
    Gemfile.lock
    Rakefile
    README.rdoc

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

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

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```
FOLDERS                    development.rb    asset.rb    assets_controller.rb    index.html.erb    routes.rb

▼ asset_portal      1   Rails.application.routes.draw do
  ▶ app             2     root 'assets'
  ▶ bin             3     # The priority is based upon order of creation: first created -> highest priority.
  ▶ config          4     # See how all your routes lay out with "rake routes".
  ▶ db              5
  ▶ lib             6     # You can have the root of your site routed with "root"
  ▶ log             7     # root 'welcome#index'
  ▶ public          8
  ▶ test            9     # Example of regular route:
  ▶ tmp            10     #   get 'products/:id' => 'catalog#view'
  ▶ vendor         11
    .gitignore     12     # Example of named route that can be invoked with purchase_url(id: product.id)
    config.ru      13     #   get 'products/:id/purchase' => 'catalog#purchase', as: :purchase
    Gemfile        14
    Gemfile.lock   15     # Example resource route (maps HTTP verbs to controller actions automatically):
    Rakefile       16     #   resources :products
    README.rdoc    17
                   18     # Example resource route with options:
                   19     #   resources :products do
                   20     #     member do
                   21     #       get 'short'
                   22     #       post 'toggle'
                   23     #     end
                   24     #
                   25     #     collection do
                   26     #       get 'sold'
                   27     #     end
                   28     #   end
                   29
                   30     # Example resource route with sub-resources:
                   31     #   resources :products do
                   32     #     resources :comments, :sales
```

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```
[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
```

A predictive analysis of predictive analytics