

Google Maps in Rails

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Instruction :

1. Create a new Rail application "gmapsapp"

```
$ rails new gmapsapp  
$ cd gmapsapp
```

2. Create a "User" resource scaffolding

```
$ rails g scaffold User latitude:float longitude:float  
address:string description:text title:string  
$ rake db:migrate
```

3. Add the following line to your gemfile then run bundle install

```
gem 'geocoder'
```

4. Add the following code to your routes.rb

```
Gmapsapp::Application.routes.draw do  
  resources :users  
  root 'users#index'  
end
```

5. Run the server

```
$ rails server
```

6. Add the following code to your user.rb

```
class User < ActiveRecord::Base  
  geocoded_by :address  
  after_validation :geocode  
end
```

7. Open your browser and access localhost:3000 and at the form click new user, then fill the form

The screenshot shows a web browser window with the address bar displaying 'localhost:3000/users/new'. The page title is 'New user'. The form contains the following elements:

- Latitude:
- Longitude:
- Address:
- Description:
- Title:
- Create User:
- Back: [Back](#)

Picture 1. Form

8. Add the following line to your gemfile then run bundle install

```
$ gem 'gmaps4rails'
```

9. Add the following code to your index.html.erb

```
<script src="//maps.google.com/maps/api/js?v=3.13&sensor=false&libraries=geometry"
type="text/javascript"></script>
<script
src="//google-maps-utility-library-v3.googlecode.com/svn/tags/markerclustererplus/2.0.14/src/mar
kerclusterer_packed.js" type="text/javascript"></script>
<script
src="//google-maps-utility-library-v3.googlecode.com/svn/trunk/richmarker/src/richmarker-compil
ed.js" type="text/javascript"></script>

<h1>Listing users</h1>

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
<th>Address</th>
<th>Description</th>
<th>Title</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<% @users.each do |user| %>
```

```

<tr>
  <td><%= user.latitude %></td>
  <td><%= user.longitude %></td>
  <td><%= user.address %></td>
  <td><%= user.description %></td>
  <td><%= user.title %></td>
  <td><%= link_to 'Show', user %></td>
  <td><%= link_to 'Edit', edit_user_path(user) %></td>
  <td><%= link_to 'Destroy', user, method: :delete, data: { confirm: 'Are you sure?' } %></td>
</tr>
<% end %>
</tbody>
</table>

<br>
<%= link_to 'New User', new_user_path %>
<div style='width: 800px;'>
  <div id="map" style='width: 800px; height: 400px;'></div>
</div>

```

10. We need to require underscore.js too, see at: underscorejs.org/ and choose production Version (1.5.2) then copy to vendor/assets/javascripts/underscore.js

11. Add this on your app/assets/javascript/application.js:

```

//= require jquery
//= require jquery_ujs
//= require turbolinks
//= require_tree .
//= require underscore
//= require gmaps/google

```

12. Add this following code to index.html.erb to create your map:

```

<script src="//maps.google.com/maps/api/js?v=3.13&sensor=false&libraries=geometry"
type="text/javascript"></script>
<script
src="//google-maps-utility-library-v3.googlecode.com/svn/tags/markerclustererplus/2.0.14/src/mar
kerclusterer_packed.js" type="text/javascript"></script>
<script
src="//google-maps-utility-library-v3.googlecode.com/svn/trunk/richmarker/src/richmarker-compil
ed.js" type="text/javascript"></script>
<h1>Listing users</h1>
<table>
  <thead>
    <tr>
      <th>Latitude</th>
      <th>Longitude</th>

```

```

<th>Address</th>
<th>Description</th>
<th>Title</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<% @users.each do |user| %>
  <tr>
    <td><%= user.latitude %></td>
    <td><%= user.longitude %></td>
    <td><%= user.address %></td>
    <td><%= user.description %></td>
    <td><%= user.title %></td>
    <td><%= link_to 'Show', user %></td>
    <td><%= link_to 'Edit', edit_user_path(user) %></td>
    <td><%= link_to 'Destroy', user, method: :delete, data: { confirm: 'Are you sure?' } %></td>
  </tr>
<% end %>
</tbody>
</table>
<br>
<%= link_to 'New User', new_user_path %>
<div style='width: 800px;'>
  <div id="map" style='width: 800px; height: 400px;'></div>
</div>

```

```

<script type="text/javascript">
handler = Gmaps.build('Google');

```

```

handler.buildMap({ provider: {}, internal: {id: 'map'}}, function(){

```

```

  markers = handler.addMarkers([
    {
      "lat": 0,
      "lng": 0,
      "picture": {
        "url": "https://addons.cdn.mozilla.net/img/uploads/addon_icons/13/13028-64.png",
        "width": 36,
        "height": 36
      },
      "infowindow": "hello!"
    }
  ]);
  handler.bounds.extendWith(markers);
  handler.fitMapToBounds();
})

```

```

</script>

```

13. Add this following code to `users_controller.rb`

```
@users = User.all

@hash = Gmaps4rails.build_markers(@users) do |user, marker|
  marker.lat user.latitude
  marker.lng user.longitude
end
```

14. Change the code in `index.html.erb`

```
markers = handler.addMarkers([
  {
    "lat": 0,
    "lng": 0,
    "picture": {
      "url": "https://addons.cdn.mozilla.net/img/uploads/addon_icons/13/13028-64.png",
      "width": 36,
      "height": 36
    },
    "infowindow": "hello!"
  }
]);
```

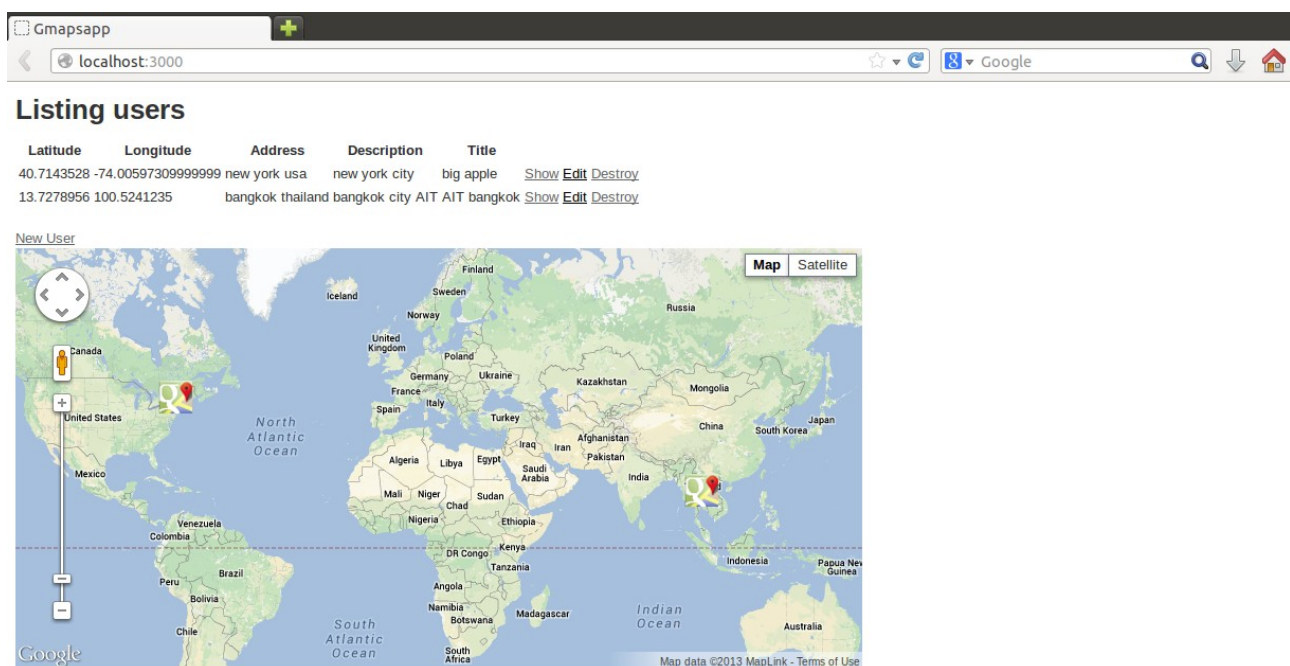
with

```
markers = handler.addMarkers(<%=raw @hash.to_json %>);
```

15. Add this following code to users_controller.rb

```
marker.infowindow user.description
  marker.picture({
    "url" =>
      "https://addons.cdn.mozilla.net/img/uploads/addon_icons/13/13028-64.png",
    "width" => 32,
    "height" => 32})
  marker.json({ title: user.title })
```

And google maps are ready to use.



Picture 2. Google Maps in rails

Source :

<http://www.youtube.com/watch?v=R0l-7en3dUw>

<https://github.com/apneadiving/Google-Maps-for-Rails/wiki/json-builder>

<https://github.com/apneadiving/Google-Maps-for-Rails>

<https://github.com/apneadiving/Google-Maps-for-Rails/wiki/Change-handler-behavior>