



SWARMFRAME

=

« Monitor Your Robot »

What is Monitor Your Robot

What	SWARMON project	SWARMON internship	MYR
Who	5 students (Benoit and 4 others)	2 students (Benoit and Bastien)	2 students (Benoit and Bastien)
When	1 year	2 months	3 weeks
Result			Real time + Generator

Plan:

I. Methods of work

Agile Development MYR
Quality Commitment in MYR

II. Improvements since SWARMON

Changes in the Map rendering
Example of implementation
Improvement in the CSS and the Layout
Improvement in the database

III. New technologies in MYR

How to use Ajax in Rails
Website generator
Impact on performance

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Agile development in “Monitor Your Robot”

Agile Development in « Monitor Your Robot »

Test Driven

Stormboard

**Prototyping
+ « Minimum
Viable Product »**

« Keep it simple »

Scrum Management

GitHub

**« Fail Faster »
+ Fallback
possibilities**

Rails Migration

Daily meeting

Gantt

**Milestones
+ Reporting**

Frequent reporting

Incremental learning

**Needed abilities
+ Learning**

Known technologies

« Stormboard » of Monitor Your Robot

MYR

MYR

TO DO

IN PROGRESS ...

DONE ! :D

- Create a layout and a CSS3
- Reduce gems number
- Install latest version of Rails
- Render a page as json for the Android app
- FIX turbo link in layout

9 days ago in **BENOIT**
Limit number of coordinates: after a period of time a lot of refresh (add of coords) have been processed.
Maybe we need to [more...](#)

10 days ago in **BENOIT**
Change the size of the map

9 days ago in **BENOIT**
Add the logo on the site

5 days ago in **BENOIT**
validation on mission name

5 days ago in **BENOIT**
Complete mission View with start and end

18 days ago in **BASTIEN**
Use HTTPS protocol to send the password to the website

4 days ago in **BASTIEN**
rework validation in model (valid float for lat in coordinate, ...)

10 days ago in **BENOIT**
Add a domain restriction to the API Key ?

9 days ago in **Everybody**
Migrate CSS into Asset Pipeline

9 days ago in **Everybody**
Remove unused code

4 days ago in **BENOIT**
Report

4 days ago in **BASTIEN**
add authentication

4 days ago in **BASTIEN**
Report

10 days ago in **BENOIT**
Get only latest coordinates

10 days ago in **BENOIT**
Limit number of coordinates on a request to 500

10 days ago in **BENOIT**
Change default datetime to get coordinates for only last 5 mins

10 days ago in **BASTIEN**
Implement Generator (with script YML)

18 days ago in **BASTIEN**
FIX "has secure password" in model/member

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“Monitor Your Robot” Commitment of Quality

**Readable Code
+ User-friendly
languages**

Jquery

Yaml

Only useful gems

Shared pages

**Clear Interface
with
SWARMAPP**

Gestion of errors

Use Google Map API V3

**Dedicated
Jquery Library
for Google Map**

Shared functions

Rake script

Asset Pipeline

**Beautiful and
effective methods**

Non obtrusive
JavaScript

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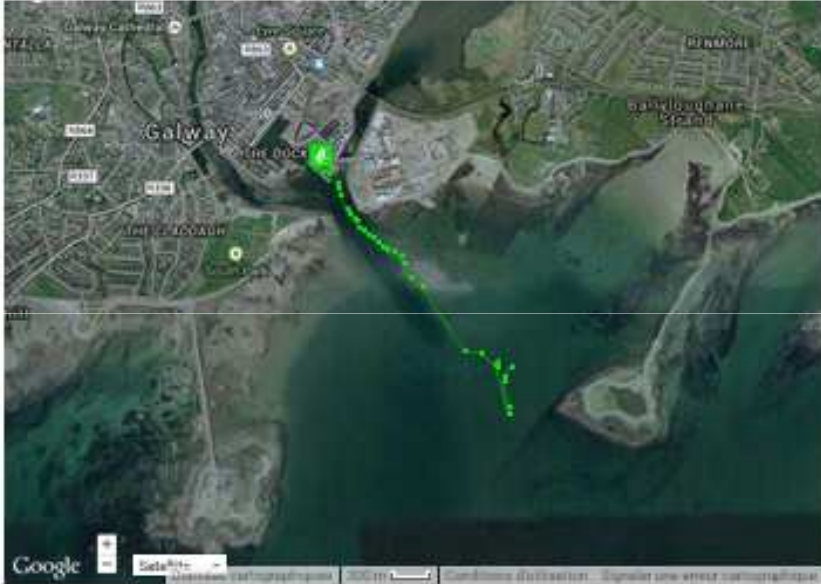
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Changes in the map rendering

Aspect of the « Real-Time » page of SWARMON

SWARMON

Home Real-Time Replay My Account Contact



Google Satellite

1

Select the teams:

- ☐ Team: Aland sailing robots
- ☐ Team: Fantasia
- ☐ Team: Battery
- ☒ Team: ENSTA Bretagne

- ☐ Team: Högskolan P& Åland
- ☐ Team: Mission Makers
- ☐ Team: DevTeam

2

Select the robots:

Robots of ENSTA Bretagne

- ☐ Optimousse
- ☒ Yellow Avenger

3

Update the map:

UPDATE

You can click on a boat to see the description of its team.
The map refreshes itself on the time

NAVIGATE

Teams

Members

Robots

Missions

Times

Coordinates

Trainers

Links

ABOUT US

BICHOUARINE Maud

BOURDON Benoit

BOYE Jean-Jacques

DESCOURS Quentin

DROUOT Bastien

STEPHAN Simon

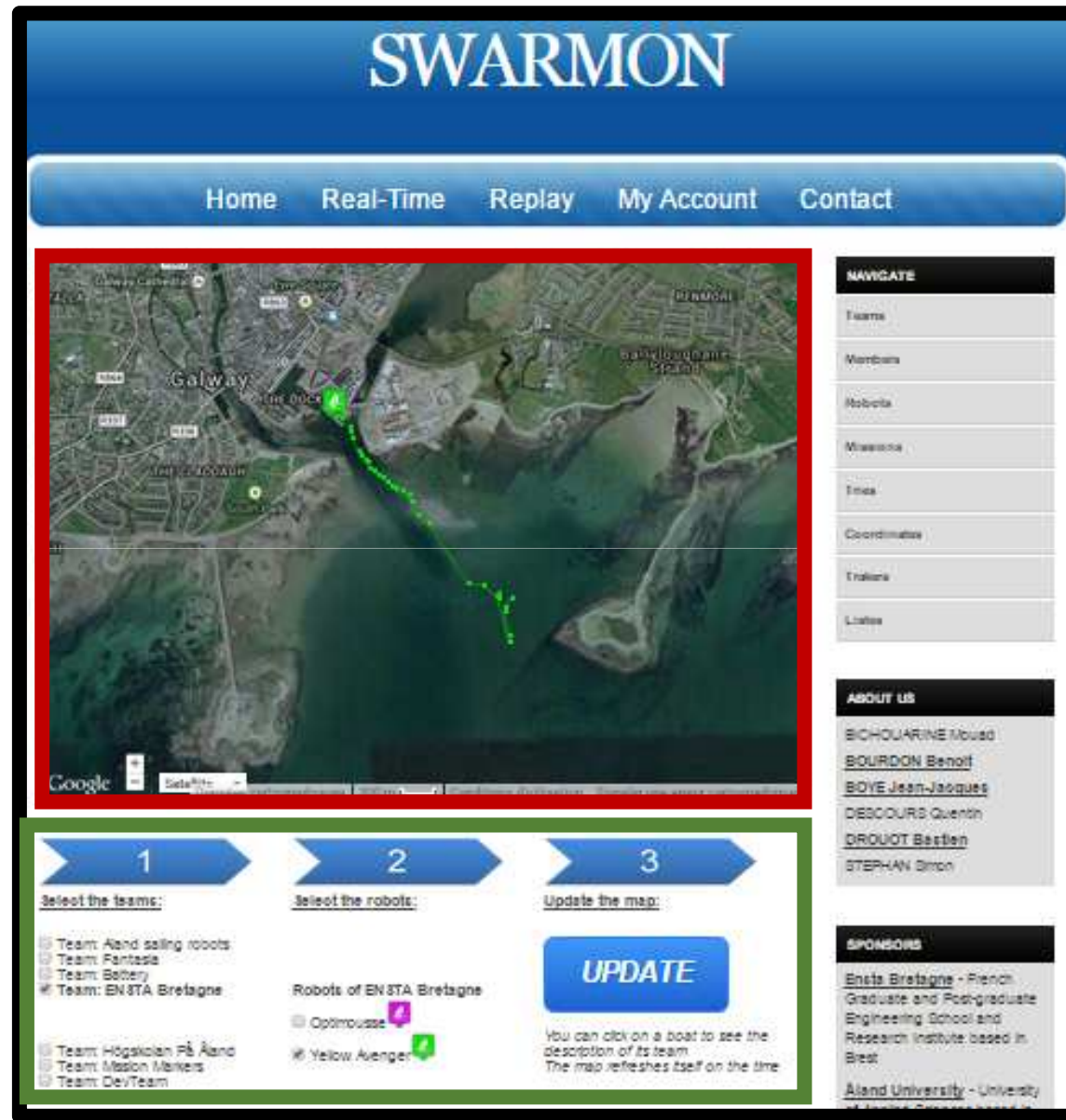
SPONSORS

Ensta Bretagne - French Graduate and Postgraduate Engineering School and Research Institute based in Brest

Åland University - University of Applied Sciences

MAP

GUI



VIEW
or
PAGE

SWARMON

Gem Gmap4rails

Fast to implement across Rails  
Less customizable 
Numerous calls to Google Map 







Refresh

Add again all the coordinates   

Programming






Jquery on each partial page 
Disable Turbolinks   

Graphical User Interface

Dynamic with Ajax and .erb   
Allow to chose teams / robots  
Cookies “shared” with Replay  

Monitor Your Robot

Use of Google Map API

Easy to handle when knowing Rails  
Completely customizable  
Complete total on JavaScript calls 

Refresh

Only add the latest coordinates   

Programming

Unobstrusive JavaScript  
Asset pipeline + Turbolinks   

Graphical User Interface

Current mission + description  
Fully ready to display “markers”   
Other parts will be kept

Other changes in MYR

Shared pages with SWARMAPP

Clean error management with HTML code

New database which adds the table « Markers »

Creation of a tool to add « mission's markers »

New design for the “Real-Time” page

Use of a website generator

New CSS and layout

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Example of implementation

Interface with SWARMAPP

Interface with SWARMAPP

Specific URLs have been created:

/what

/getCurrentMission

/getMissionLength

/getCoordsSince

/getCoordsSince?datetime=...

/getCoordsBetween?

/getCoordsBetween?tstart=...=tend=...

Interface with SWARMAPP

Specific URLs have been created:

`/what` *(proof that the website is compatible with the application)*

`/getCurrentMission` *(return the current mission)*

`/getMissionLength` *(start and end of the current mission)*

`/getCoordsSince` *(if no parameter: start*

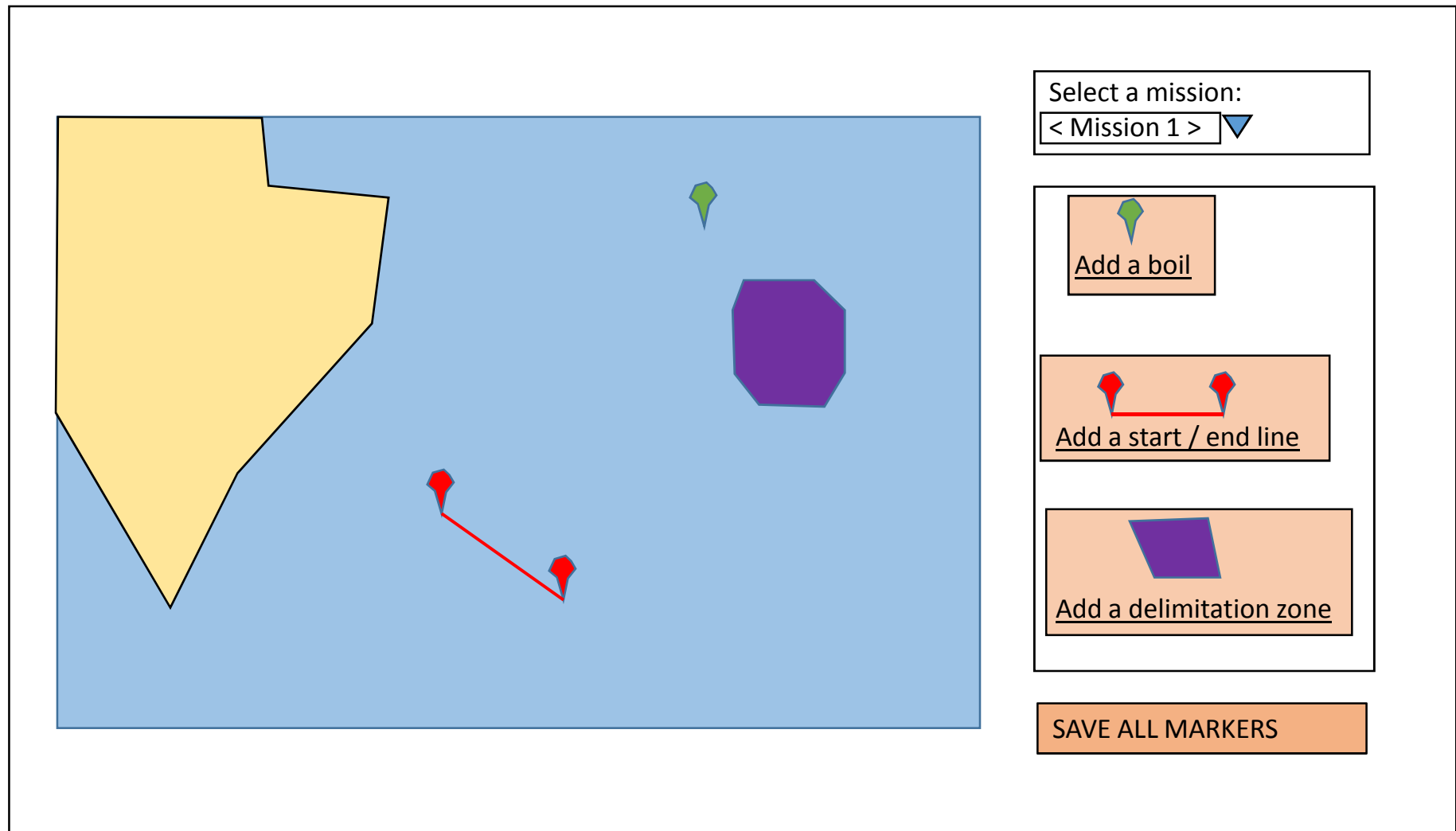
`/getCoordsSince?datetime=...` *of the current mission)*

`/getCoordsBetween?` *(if no parameter: start en end*

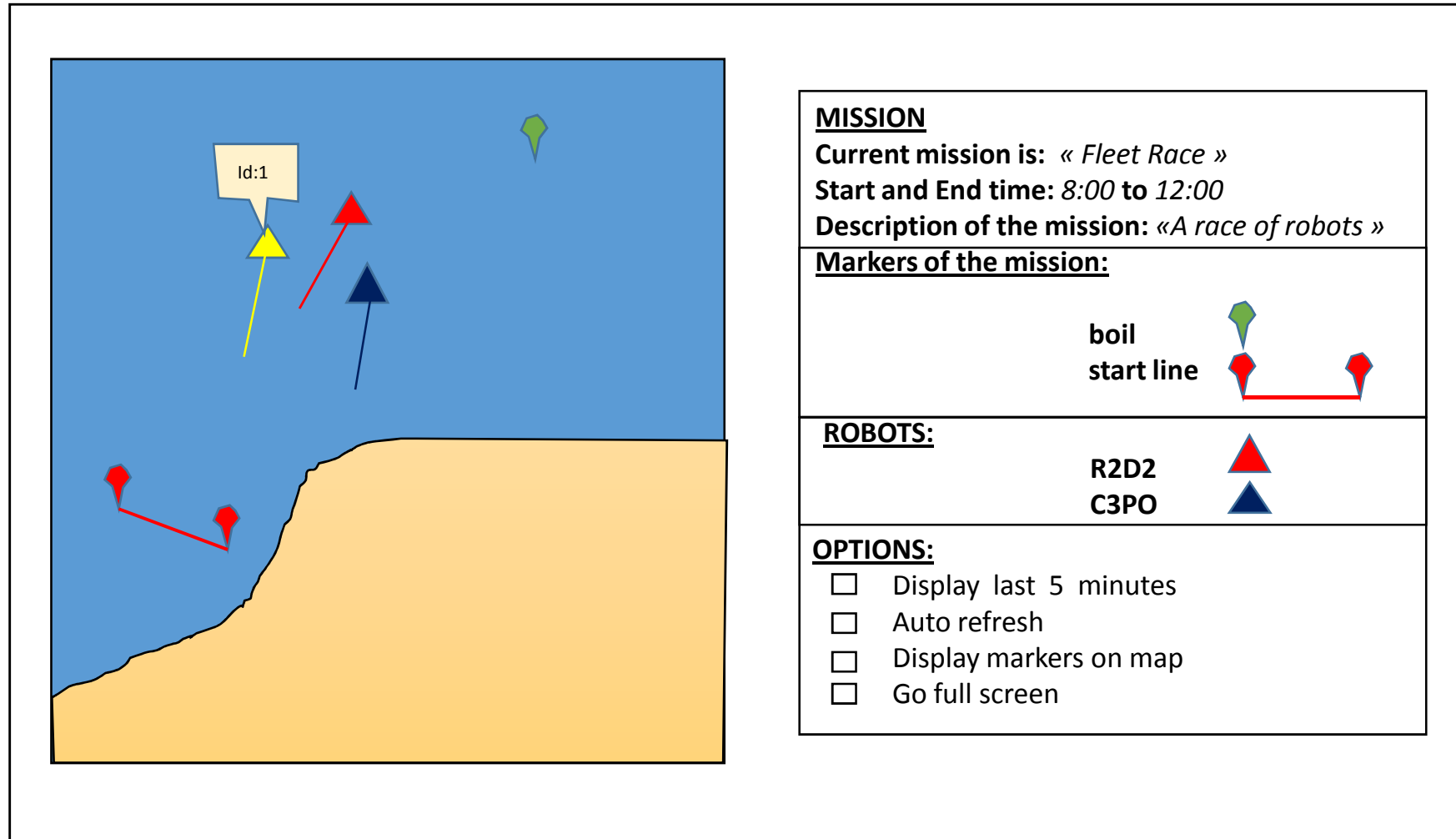
`/getCoordsBetween?tstart=...=tend=...` *of the current mission)*

Creation of a tool to create « mission's markers »

Administration tool to add markers to a specific mission



Display of markers in the newly designed « real-time » page



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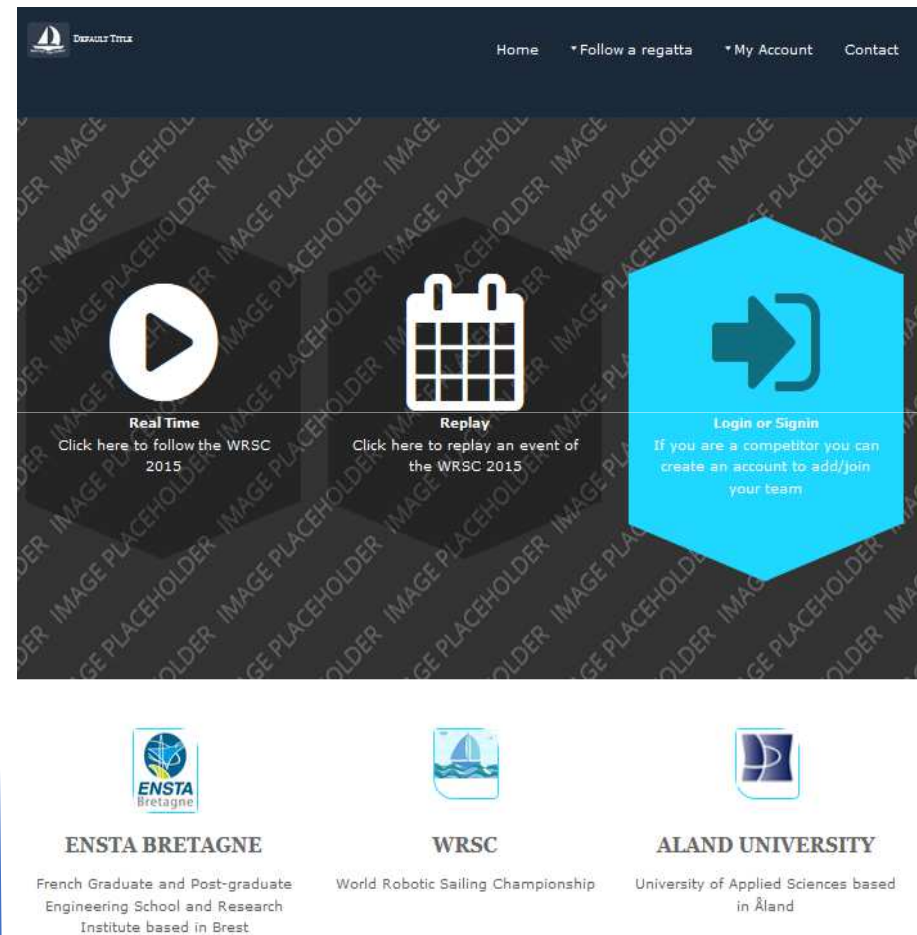
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Improvement in the CSS and the Layout

- CSS 2
- Html 3
- Static layout



- + CSS 3
- + Html 4
- + Customizable layout



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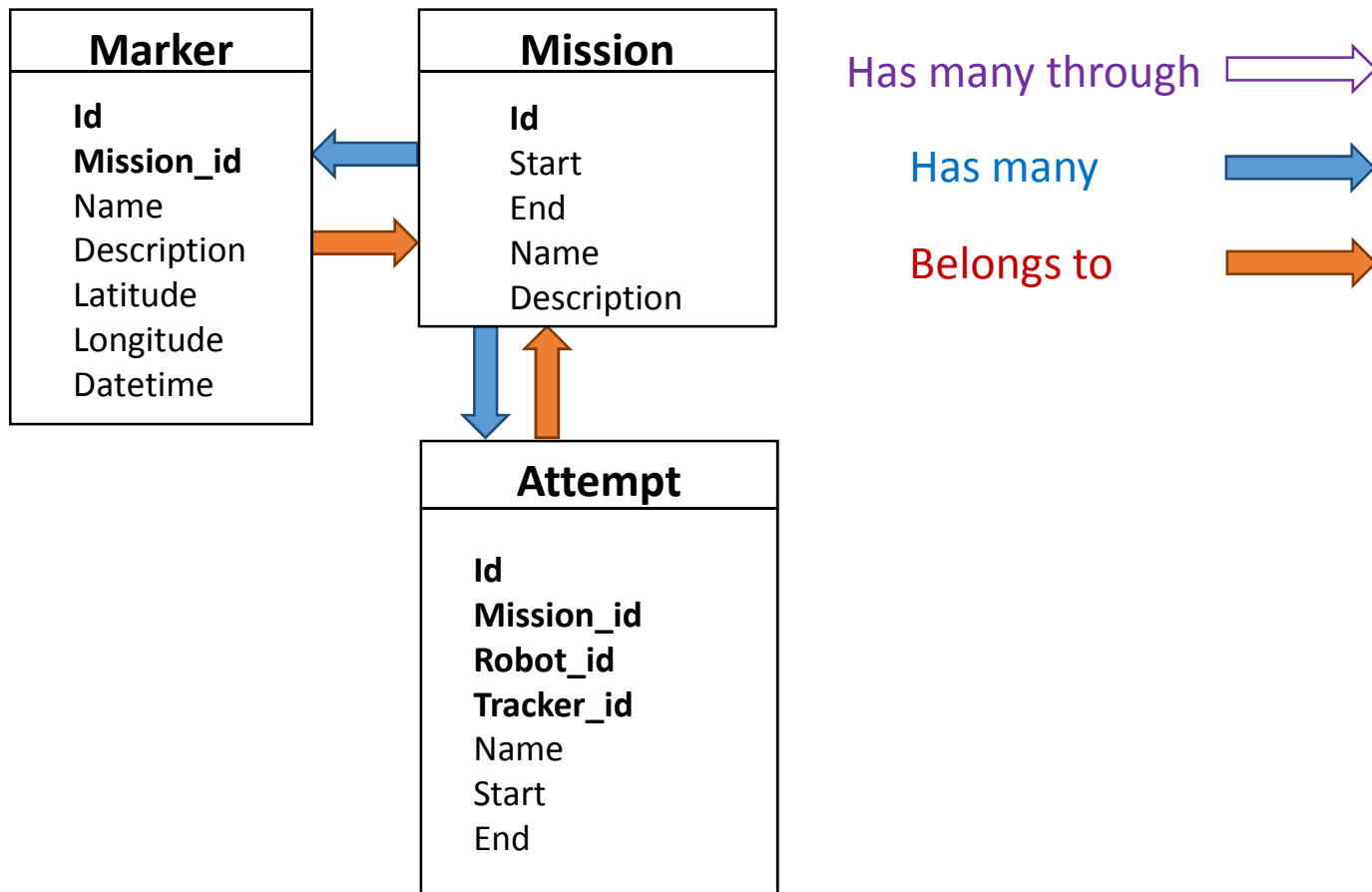
Improvement in the data base

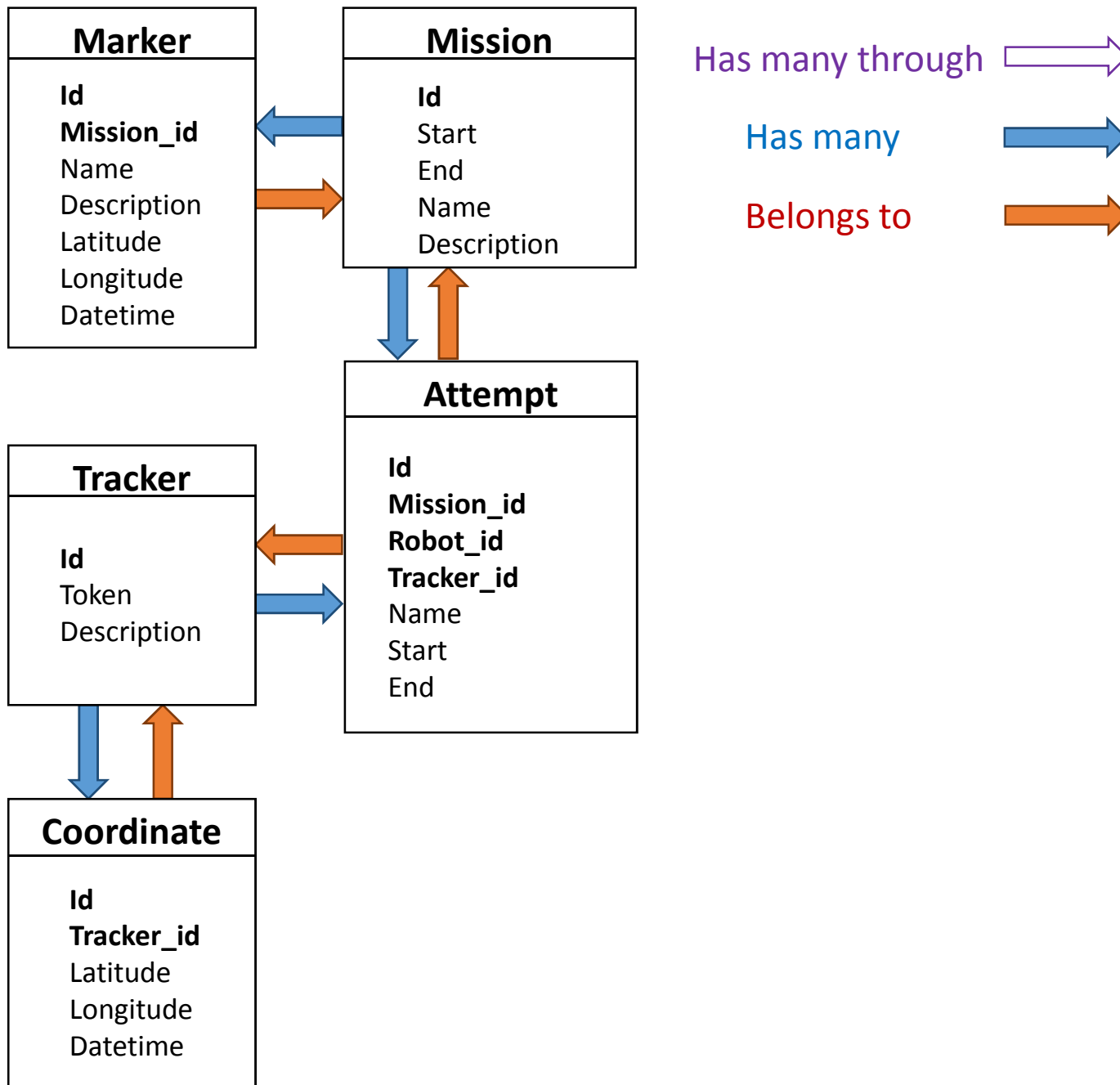
Has many through 

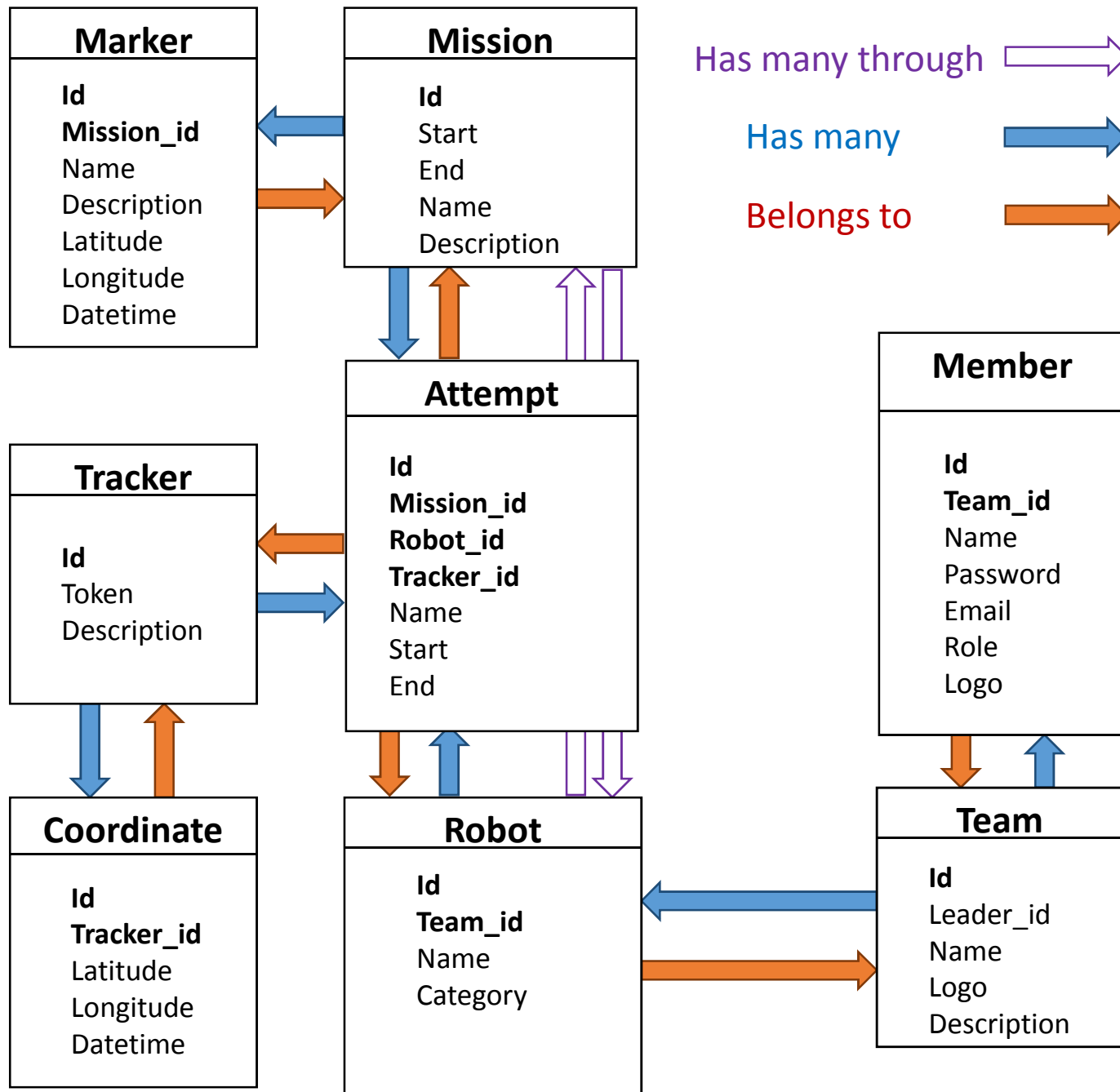
Has many 

Belongs to 

Attempt
Id Mission_id Robot_id Tracker_id Name Start End







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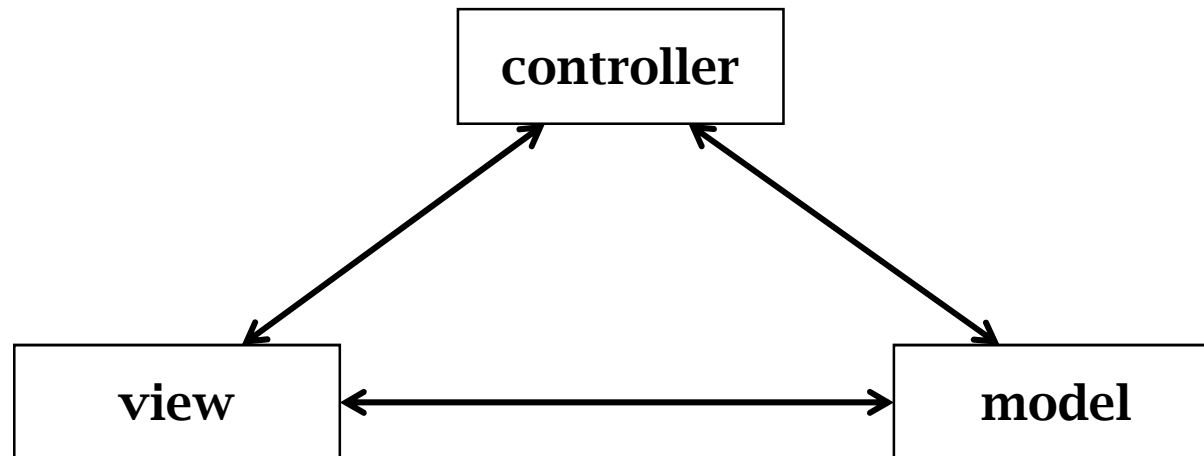
Ajax in Ruby on Rails

Ruby on Rails is a web application framework ...

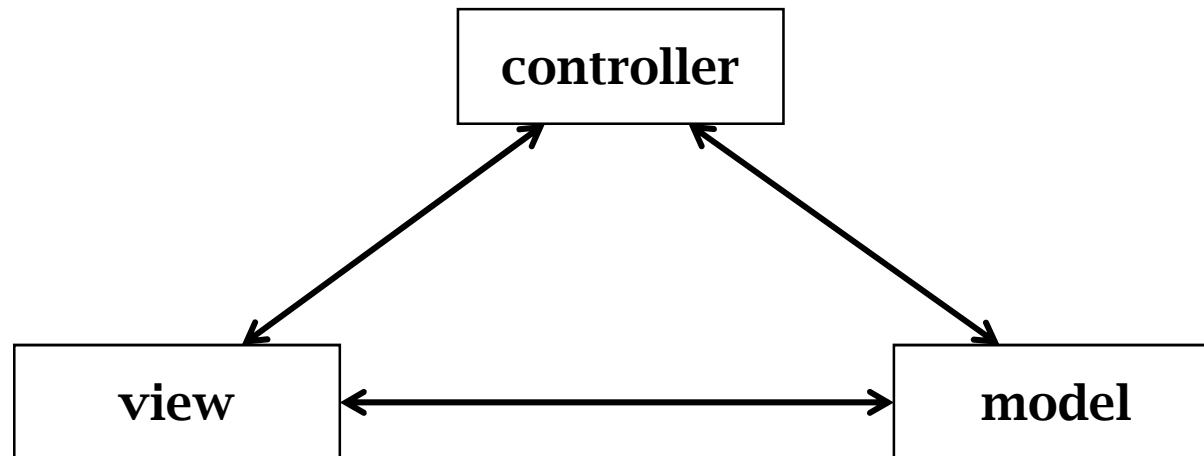
Ruby on Rails is a web application framework ...
...based on the MVC pattern.

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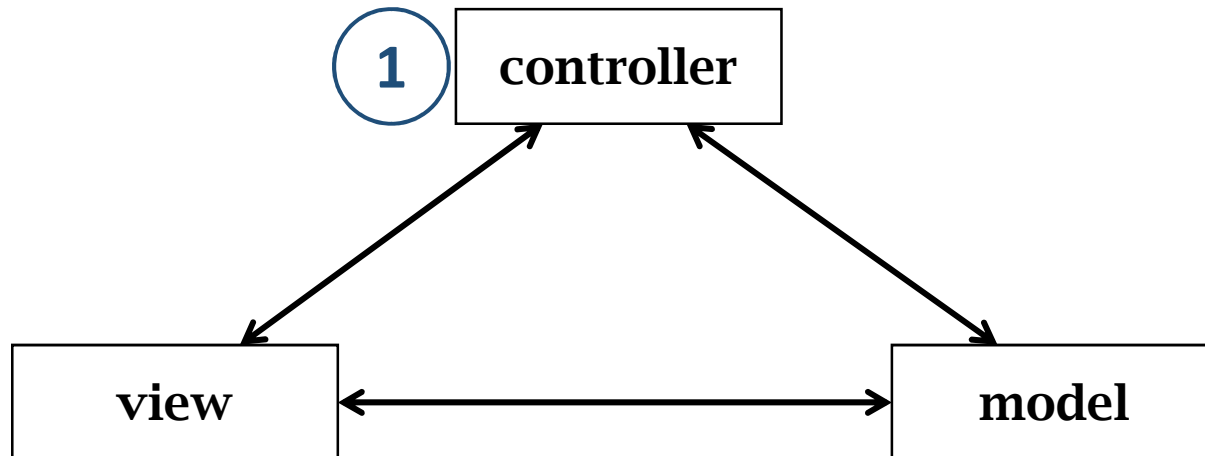


Each time you generate a web page you follow this cycle:



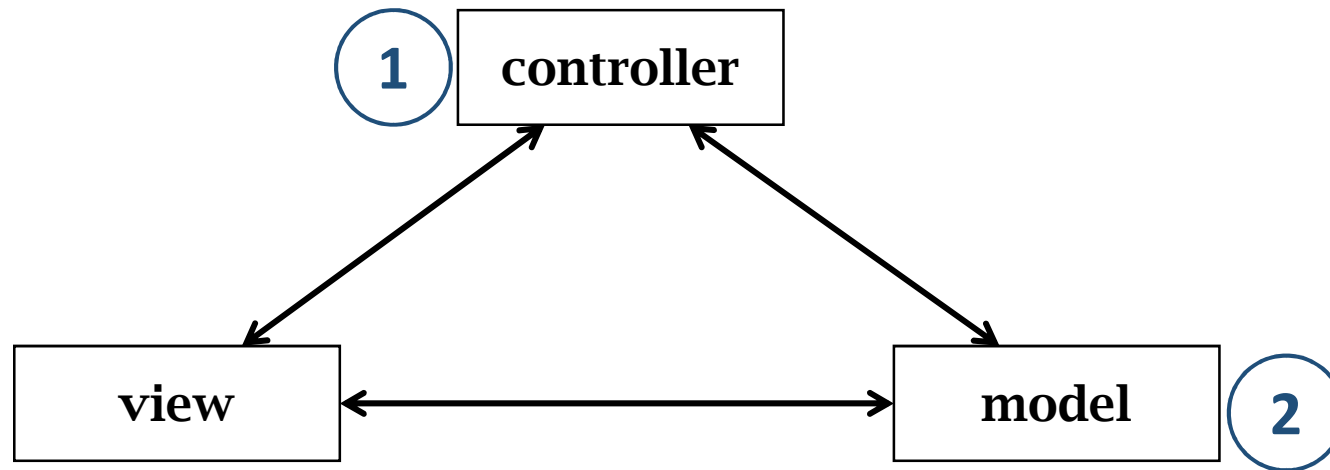
Each time you generate a web page you follow this cycle:

- 1) The controller calls the method related to the URL



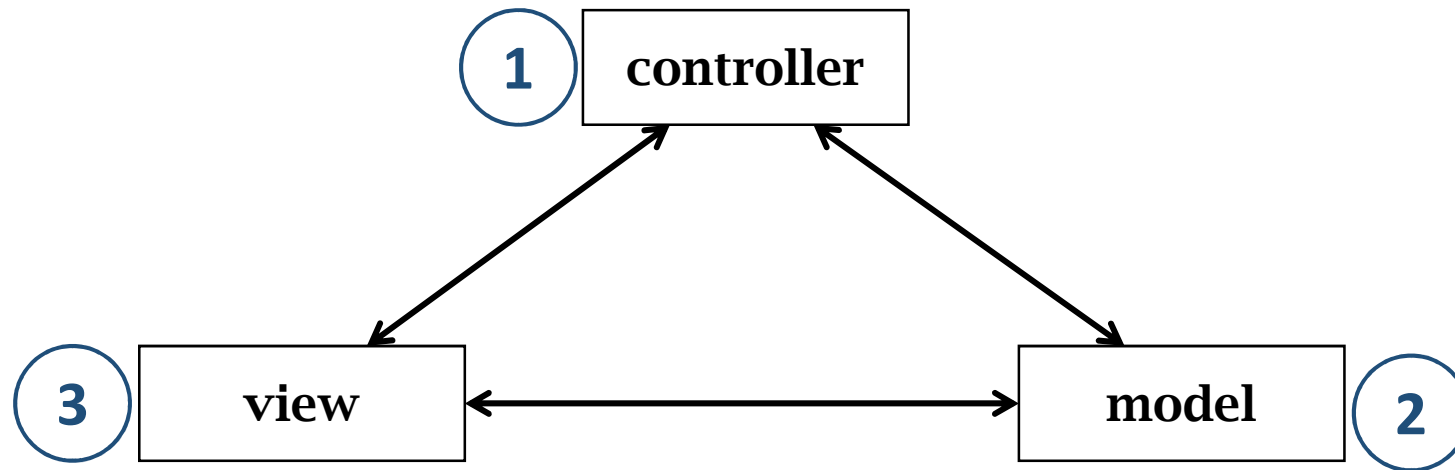
Each time you generate a web page you follow this cycle:

- 1) The controller calls the method related to the URL
- 2) The model extracts the needed data from the database



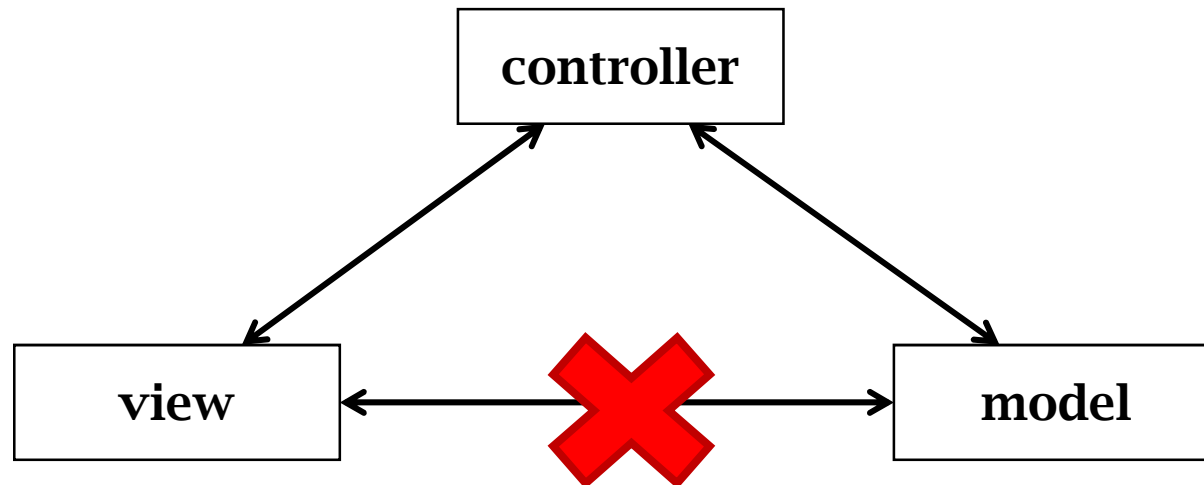
Each time you generate a web page you follow this cycle:

- 1) The controller calls the method related to the URL
- 2) The model extracts the needed data from the database
- 3) The controller uses this data to generate the view

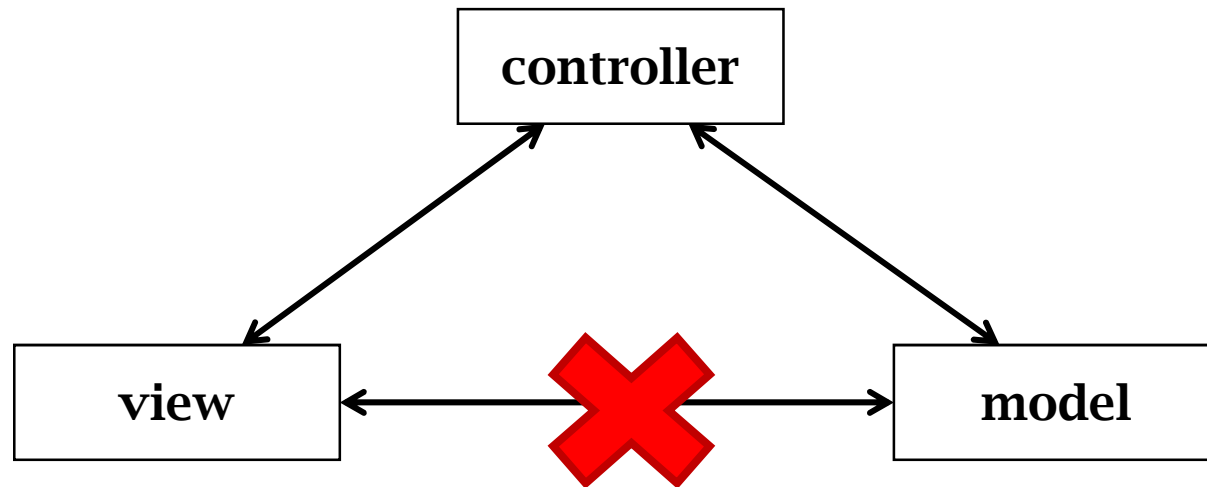


Quick reminders about Ruby on Rails

It means that the view can not access to the model directly.

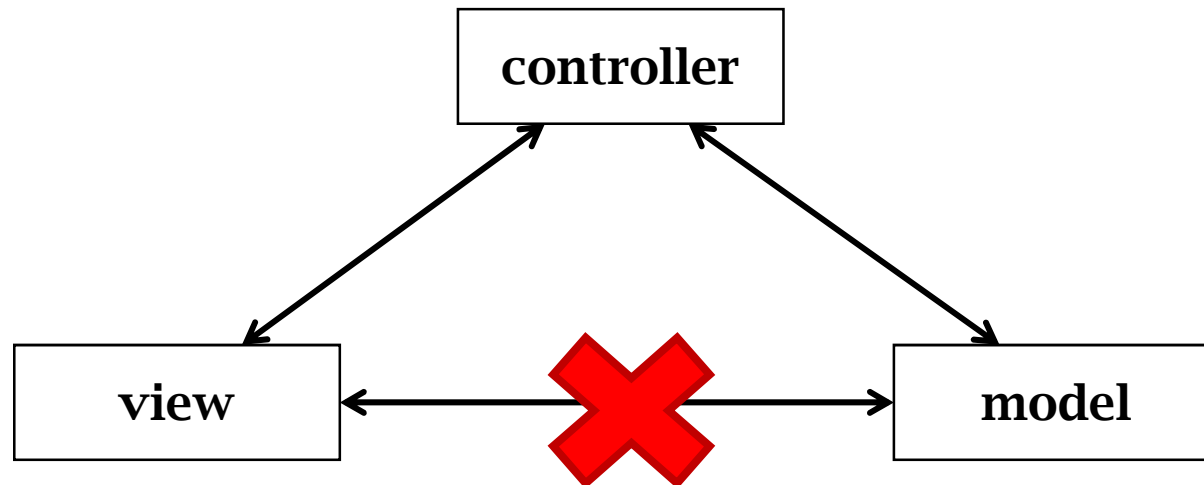


This is why we need ...



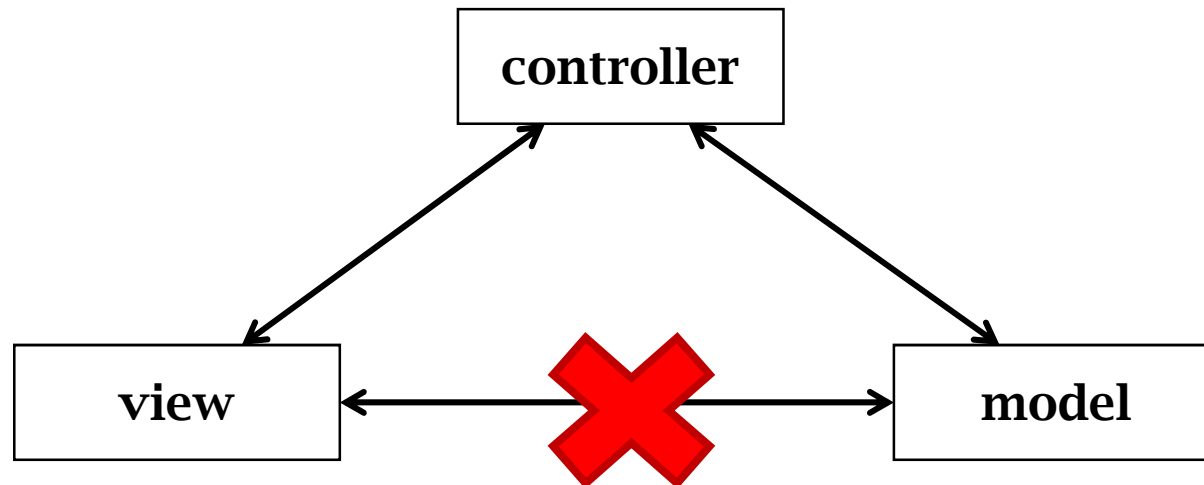
Quick reminders about Ruby on Rails

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Quick reminders about Ruby on Rails

This is why we need

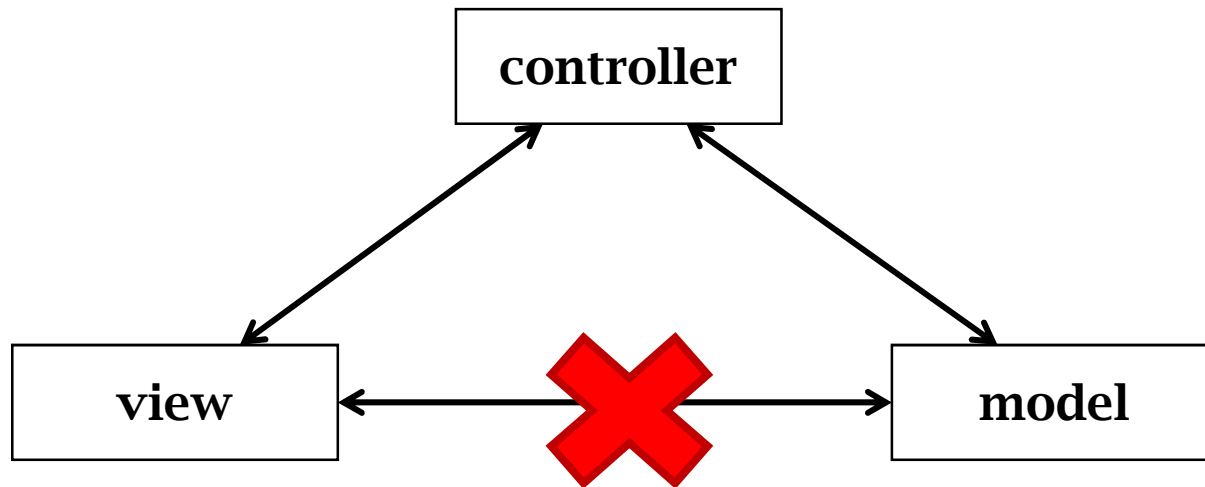


Quick reminders about Ruby on Rails

This is why we need



Ajax changes the content of page without reloading it.



Two possible uses for Ajax:

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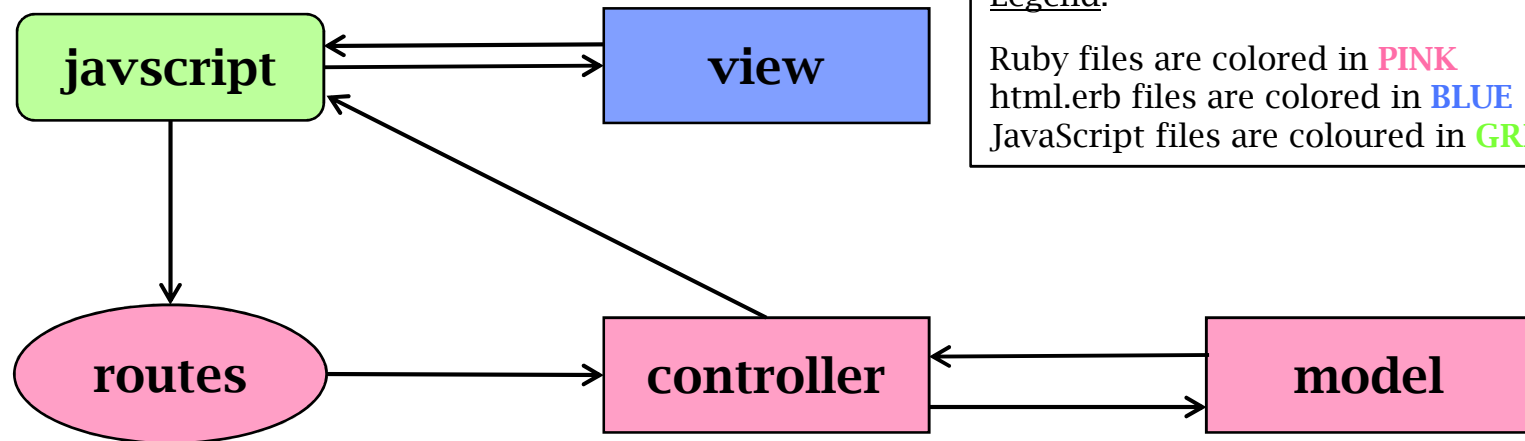
- to get remote data

Two possible uses for Ajax:

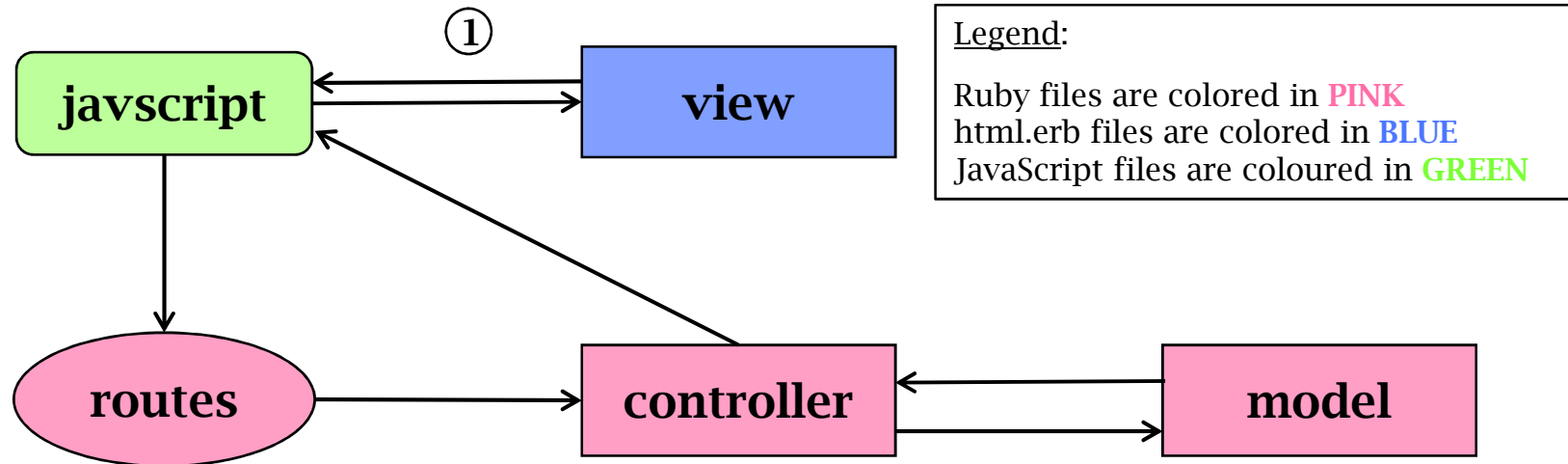
- to get remote data
- to create a dynamic Graphical User Interface

Ajax to get remote data

Ajax to gather remote data

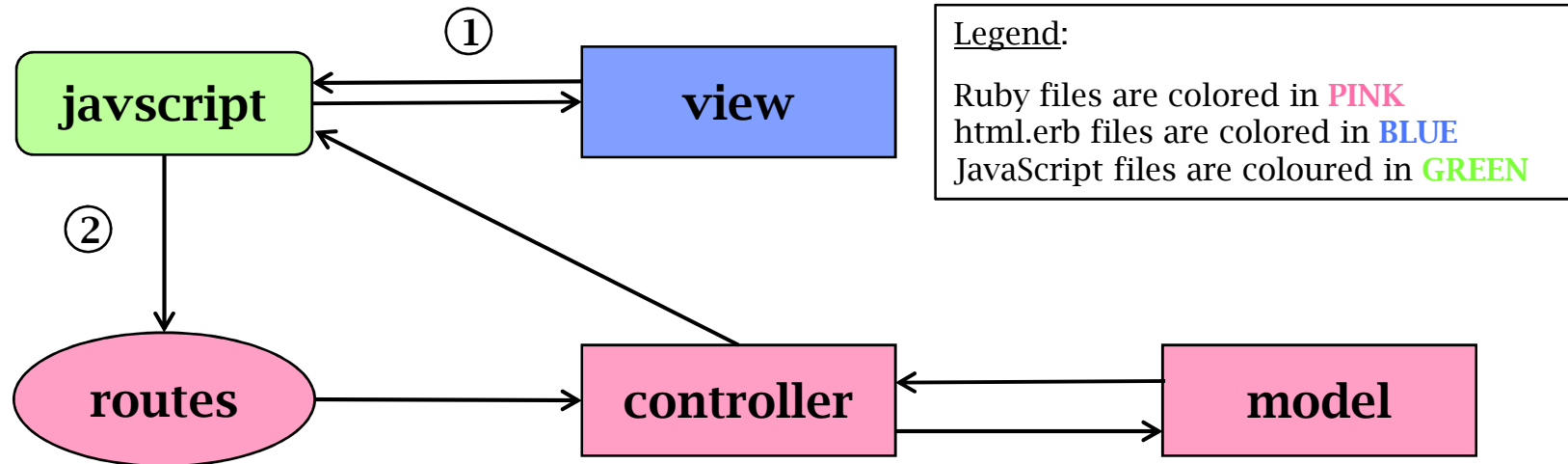


Ajax to gather remote data



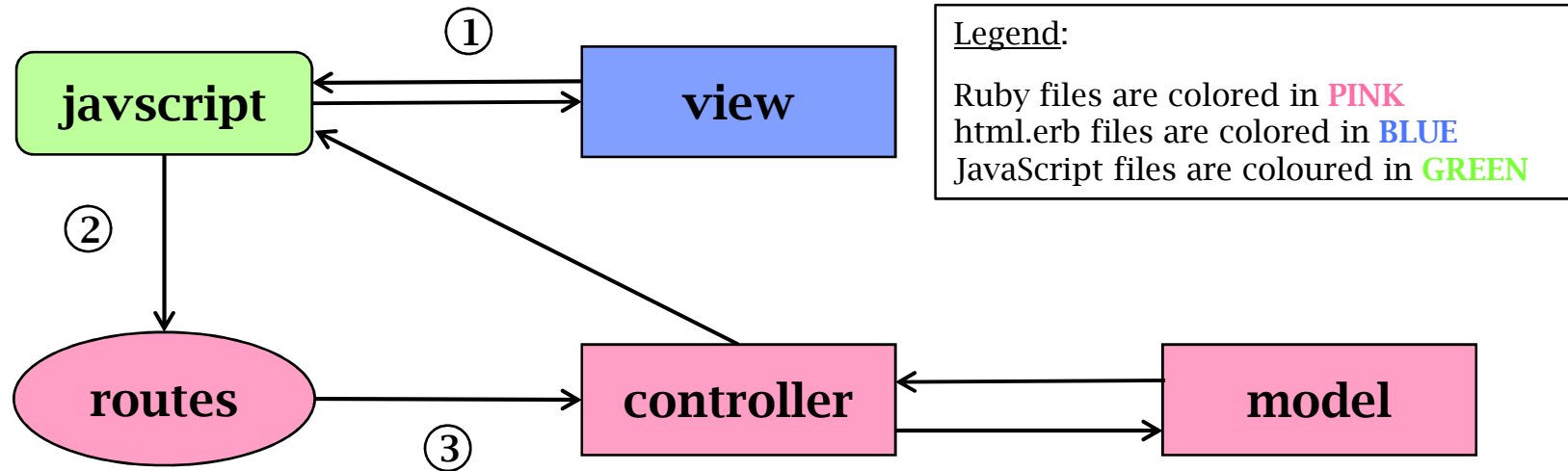
- ① The view receives an event which triggers an action of the jQuery script.

Ajax to gather remote data



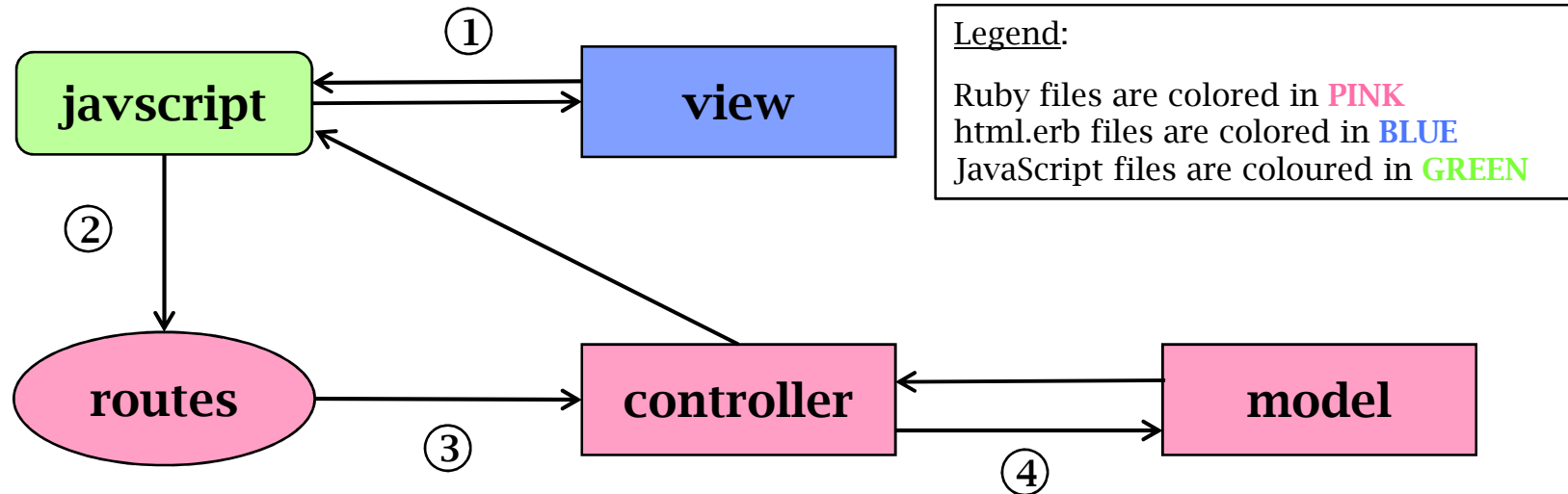
- ① The view receives an event which triggers an action of the jQuery script.
- ② The Ajax request from the jQuery script calls a URL.

Ajax to gather remote data



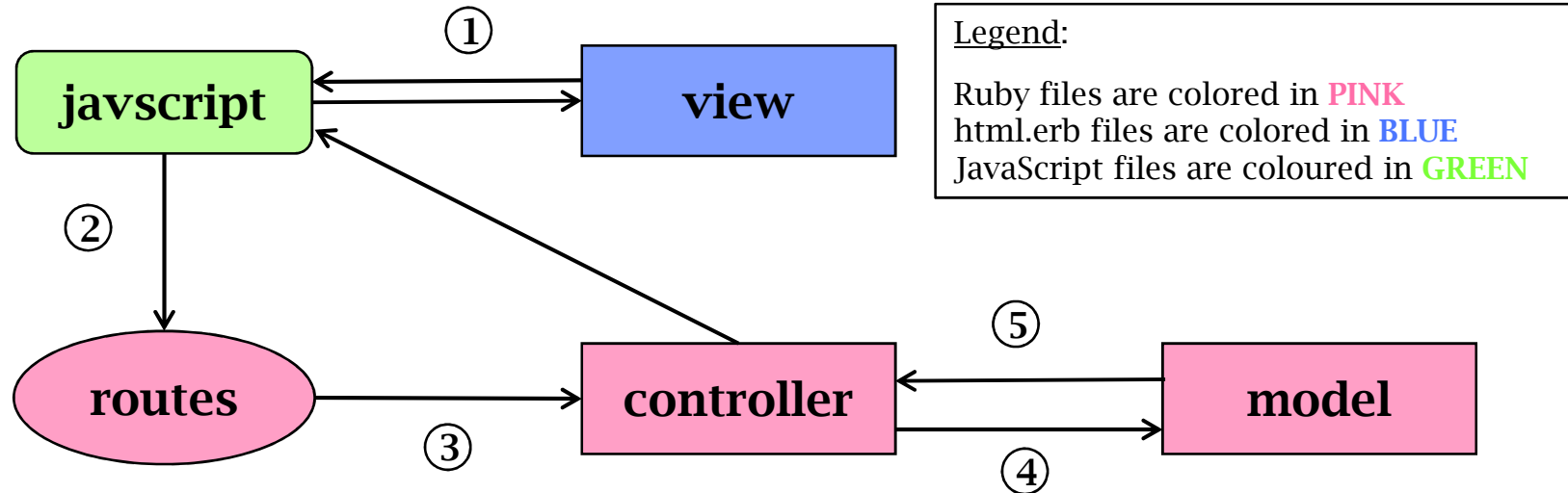
- ① The view receives an event which triggers an action of the jQuery script.
- ② The Ajax request from the jQuery script calls a URL.
- ③ The routes.rb file establishes a link between the provided URL and the corresponding controller action.

Ajax to gather remote data



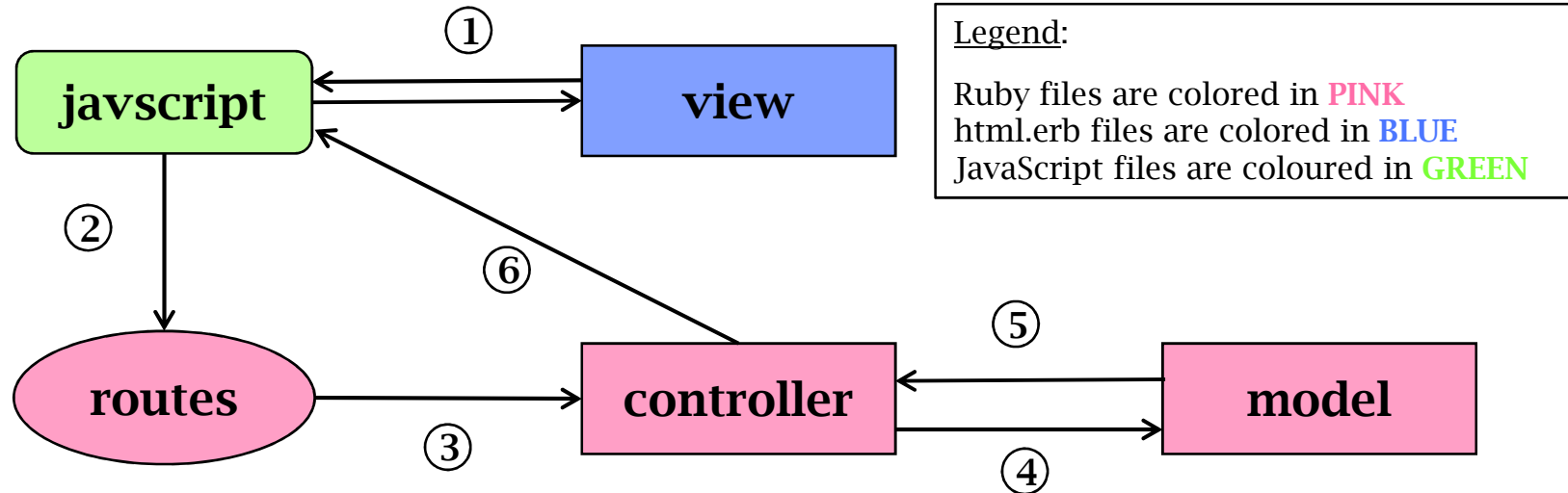
- ① The view receives an event which triggers an action of the jQuery script.
- ② The Ajax request from the jQuery script calls a URL.
- ③ The routes.rb file establishes a link between the provided URL and the corresponding controller action.
- ④ The method of the controller processes its actions. The controller can retrieve data from the database by directly calling Ruby Classes.

Ajax to gather remote data



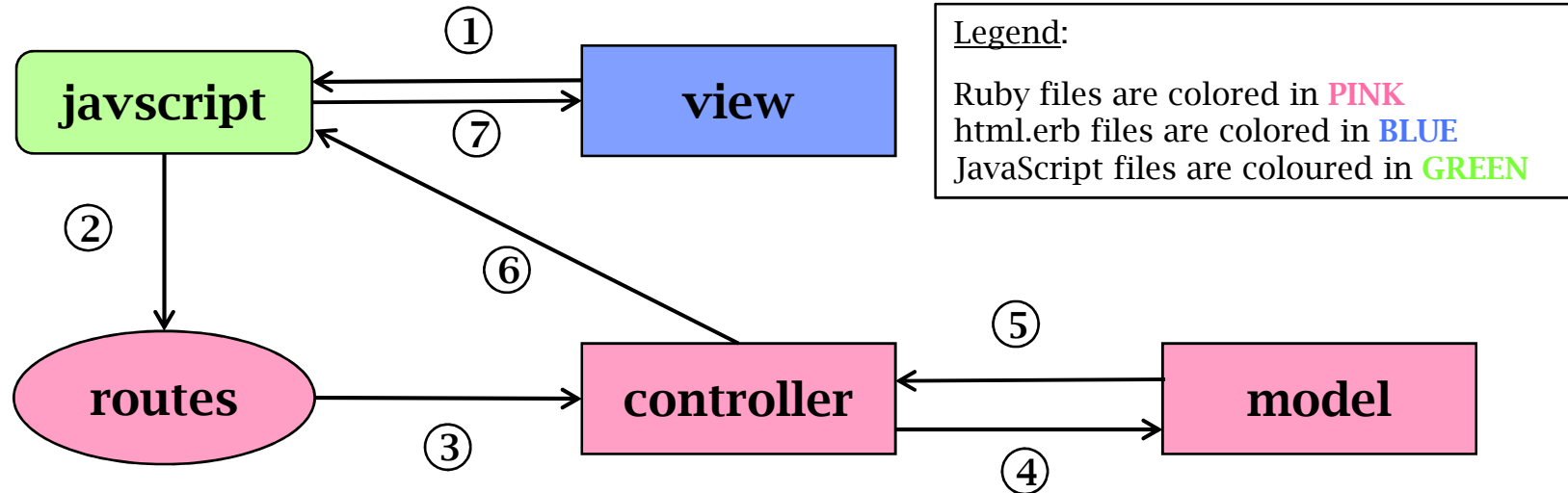
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- ⑤ The ActiveRecord:: ORM retrieves the data by using SQL requests and send them back to the controller as a Ruby Object.

Ajax to gather remote data



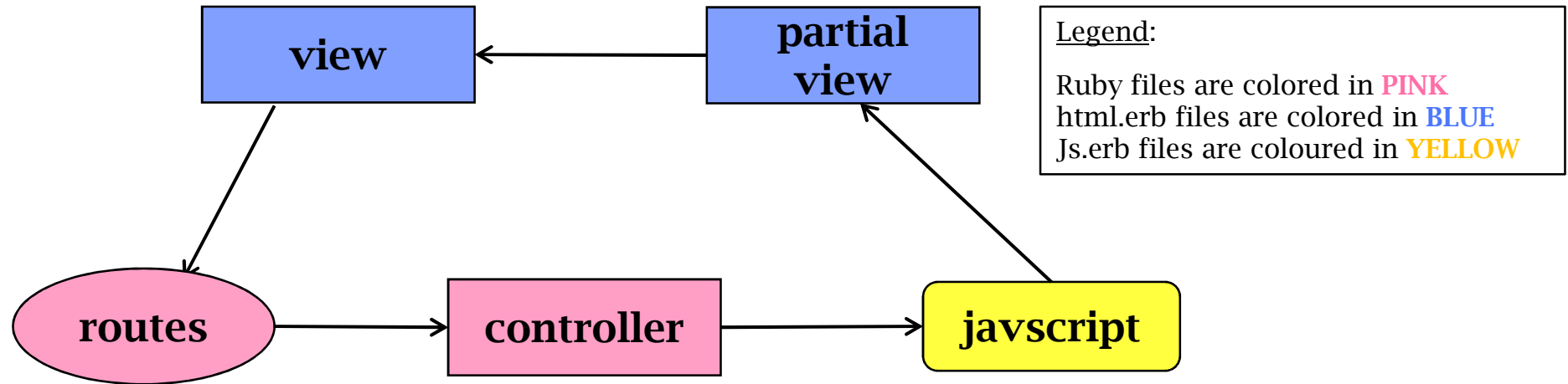
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- ⑥ The controller send the data back to the jQuery script using JSON format.

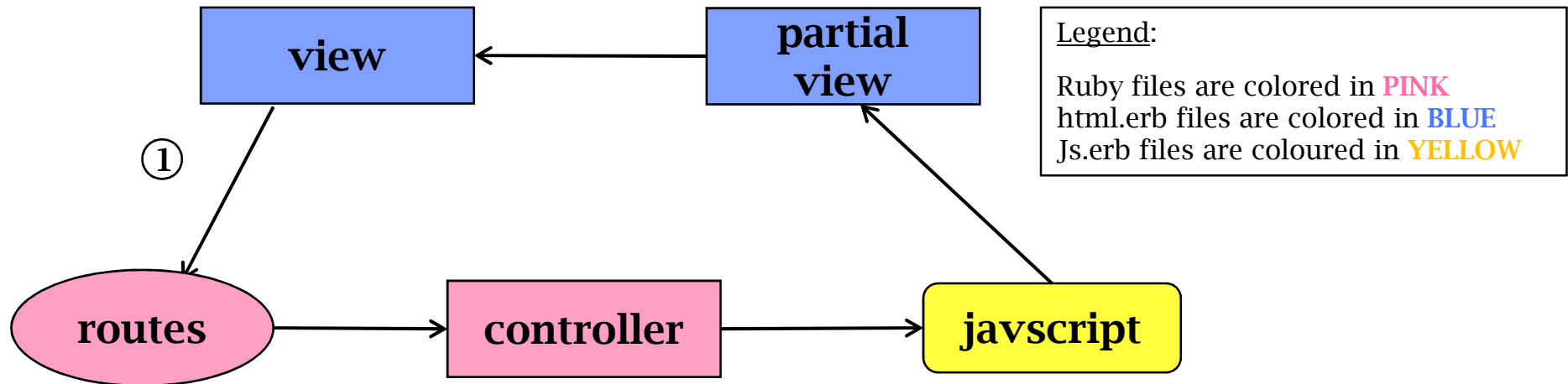
Ajax to gather remote data



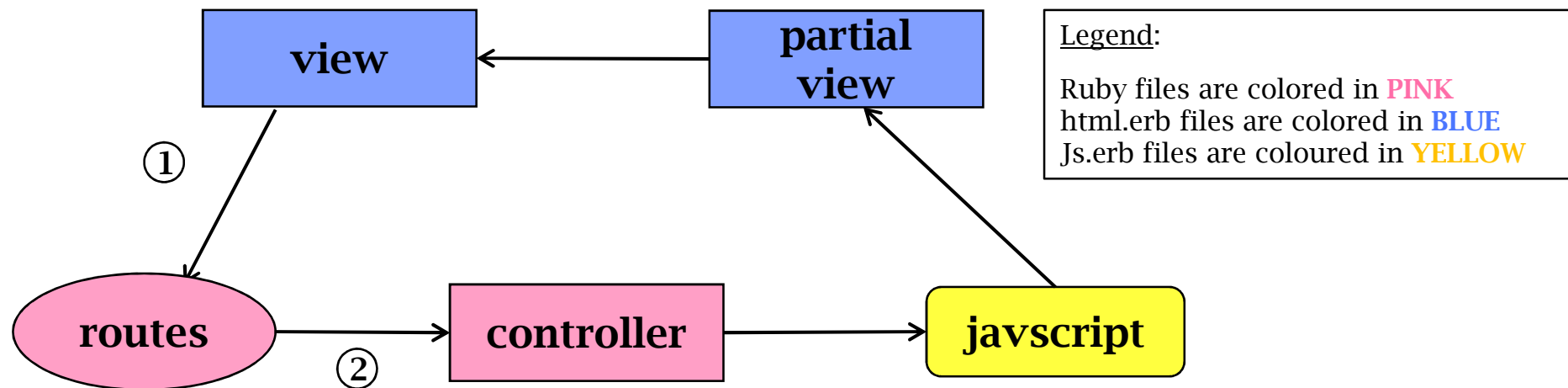
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- ④ The method of the controller processes its actions. The controller can retrieve data from the database by directly calling Ruby Classes.
- ⑤ The ActiveRecord:: ORM retrieves the data by using SQL requests and send them back to the controller as a Ruby Object.
- ⑥ The controller send the data back to the jQuery script using JSON format.
- ⑦ The jQuery script uses the retrieved data to change the content of the web page.

Ajax to create a dynamic Graphical User Interface

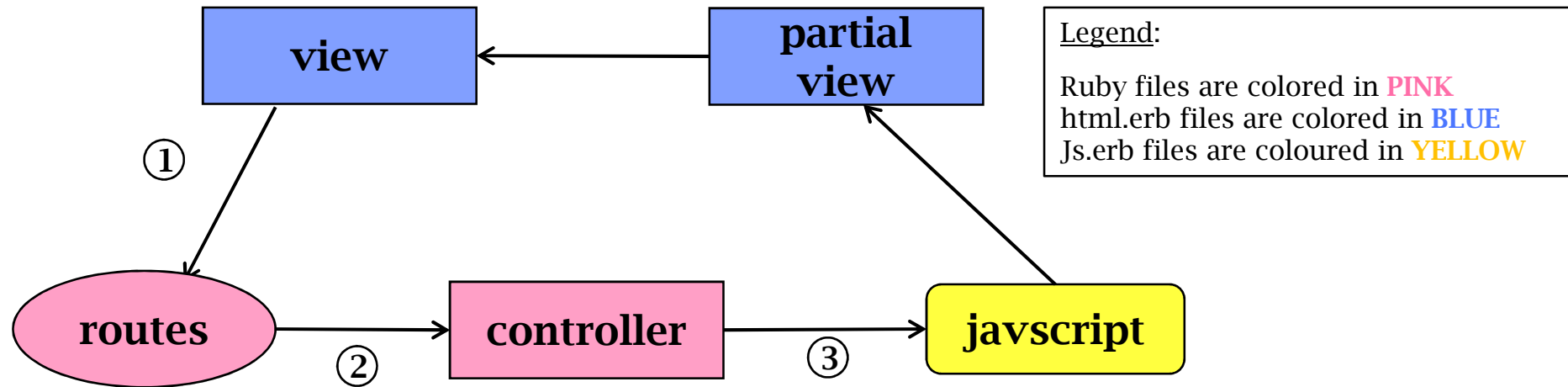




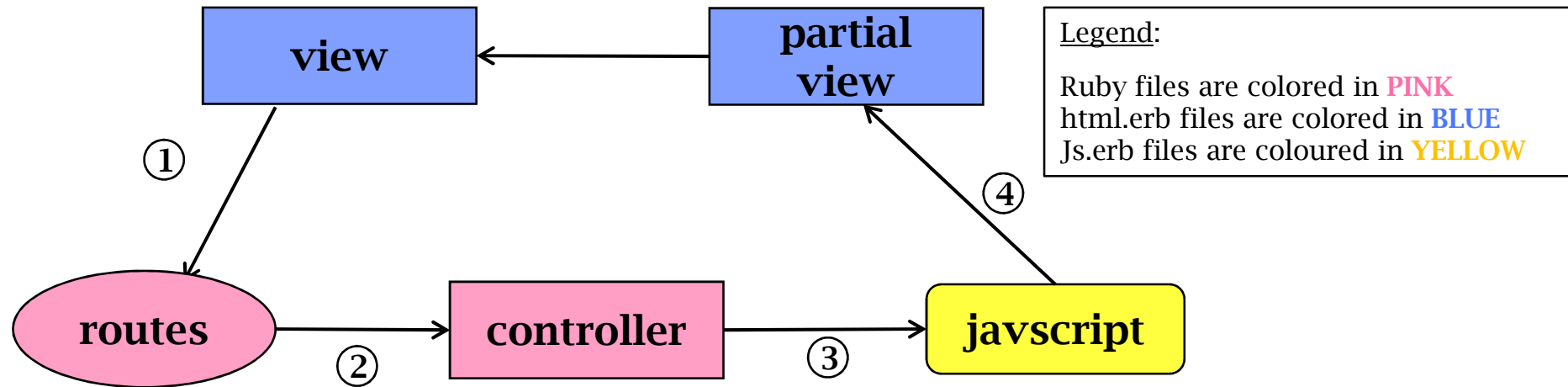
- ① The view receives an event which triggers an Ajax action (remote: true).



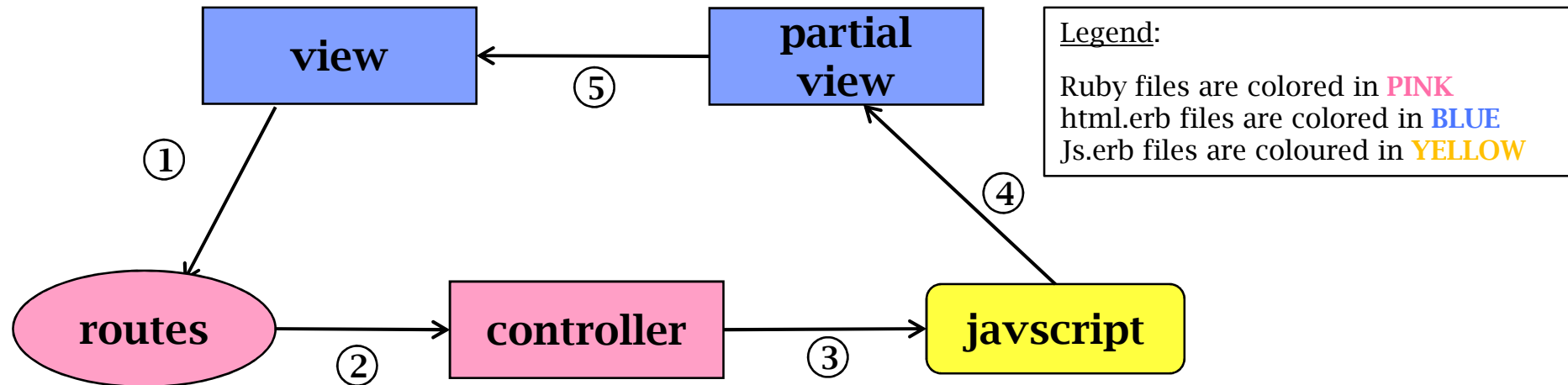
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- ③ The controller can do some preprocessing but it can also do nothing at all. In fact the method in the controller is just needed to respect the MVC template.



- ① The view receives an event which triggers an Ajax action (remote: true).
- ② The routes.rb file uses the given action name to find the corresponding method and controller.
- ③ The controller can do some preprocessing but it can also do nothing at all. In fact the method in the controller is just needed to respect the MVC template.
- ④ This jQuery script directly replaces a <div> in the original html.erb with a piece of code from another html.erb file.



- ① The view receives an event which triggers an Ajax action (remote: true).
- ② The routes.rb file uses the given action name to find the corresponding method and controller.
- ③ The controller can do some preprocessing but it can also do nothing at all. In fact the method in the controller is just needed to respect the MVC template.
- ④ This jQuery script directly replaces a <div> in the original html.erb with a piece of code from another html.erb file.
- ⑤ This second html.erb file is named “partial” as it is only a partial part of the final rendered web page. Its name must start with an underscore or Rails will not recognize it as a “partial”.

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Website generator

Step by step



Template


Border Collies

Subtitle for border collies.

Intro text for border collies.
Intro text for border collies.
Intro text for border collies.

Body text for border collies.
Body text for border collies.
Body text for border collies.
Body text for border collies.
Body text for border collies.
Body text for border collies.

Title

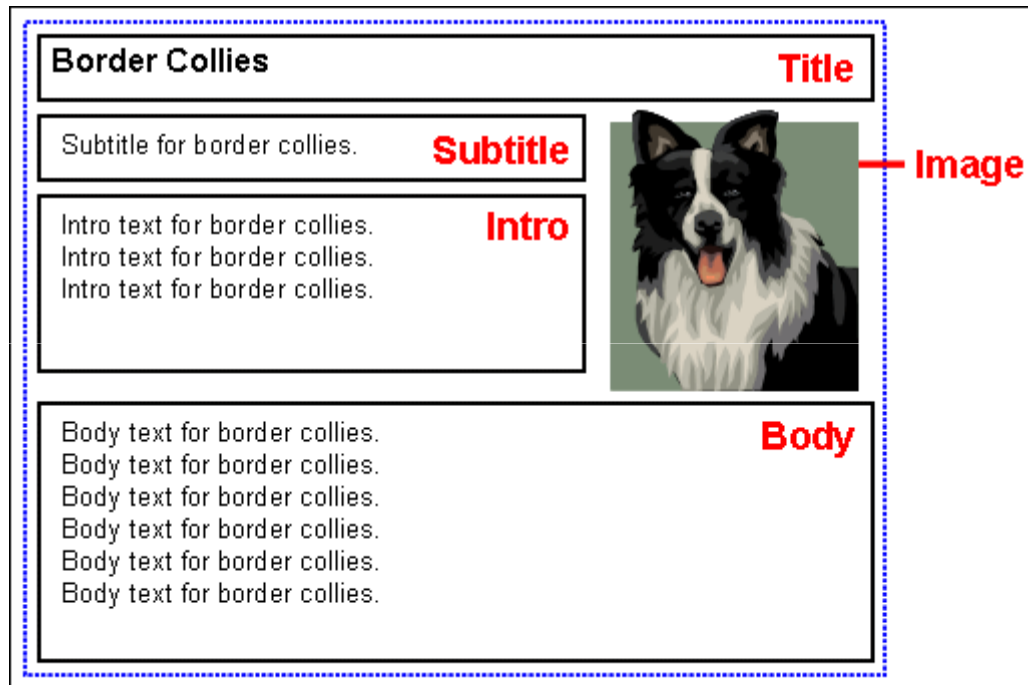


Body

Image

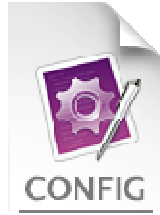


Template




Static template

```
<html>
<h1> This is an example </h1>
<h1><%= myVar %> </h1>
<% for i in 0..42 %>
<%= puts i%>
<% end %>
</html>
```



Configuration

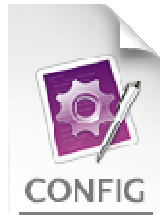
Border Collies		Title
Subtitle for border collies.	Subtitle	 Image
Intro text for border collies. Intro text for border collies. Intro text for border collies.	Intro	
Body text for border collies. Body text for border collies. Body text for border collies. Body text for border collies. Body text for border collies. Body text for border collies.		Body

Title = "Lost dog"

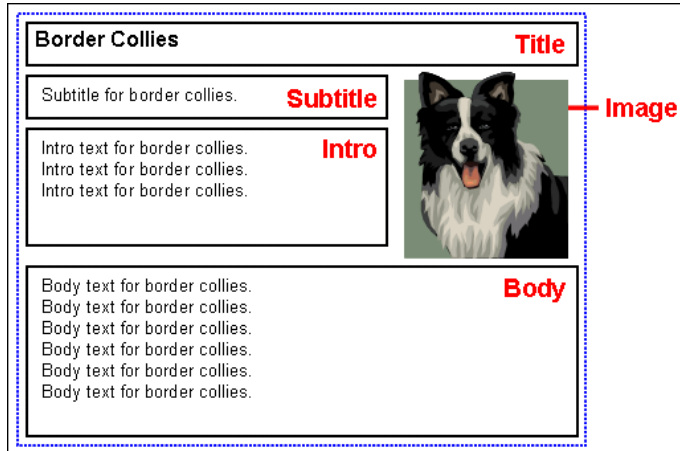
Subtitle = "42 \$ cash reward"

Intro = "Last seen today"

Body = "Call 911 for more information"



Configuration



Title = "Lost dog"
Subtitle = "42 \$ cash reward"
Intro = "Last seen today"
Body = "Call 911 for more information"

Static template

```
<html>  
<h1> This is an example </h1>  
<h1><%= myVar %> </h1>  
<% for i in 0..42 %>  
<%= puts i%>  
<% end %>  
</html>
```

YAML

```
myVar: "This is another example"
```



Script

DES VOGELFÄNGER - PAPAGENO

THE MAGIC FLUTE / LA FLÛTE ENCHANTÉE

W.A. Mozart

Arr. J-B Voïnet

Andante





Script

DES VOGELFÄNGER - PAPAGENO

THE MAGIC FLUTE / LA FLÛTE ENCHANTÉE

W.A. Mozart

Andante

Arr. J-B Voïnet



```
1  require 'yaml'
2  require 'erb'
3  puts "config_static.rb Start"
4
5  PATHFILE_YAML = "lib/generator/config_variables/"
6  PATHFILE_IN = "lib/generator/templates/statics/"
7  PATHFILE_OUT = "app/views/static_pages/"
8  PATHFILE_OUT_LAYOUT = "app/views/layouts/"
9
10 FILENAME_YAML = "config_static.yaml"
11
12 data = YAML::load(File.open(PATHFILE_YAML+FILENAME_YAML))
13
14 files_in = PATHFILE_IN+"*"
15
16 Dir.glob(files_in).each do |file_path|
17   file_path = Pathname.new(file_path)
18   file_name = file_path.basename
19   if file_name.extname == ".erb" # if file_name is an erb file
20     inputfile = File.open(file_path)
21     if file_name.to_s == "application.html.erb"
22       outfile = File.open(PATHFILE_OUT_LAYOUT+file_name.to_s,"w")
23     else
24       outfile = File.open(PATHFILE_OUT+file_name.to_s,"w")
25     end
26     renderer = ERB.new(inputfile.read)
27     output = renderer.result()
28     outfile.write(output)
29
30     outfile.close
31     inputfile.close
32   end
33 end
34
35 puts "config_log.rb End"
```




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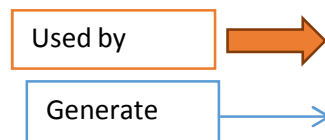
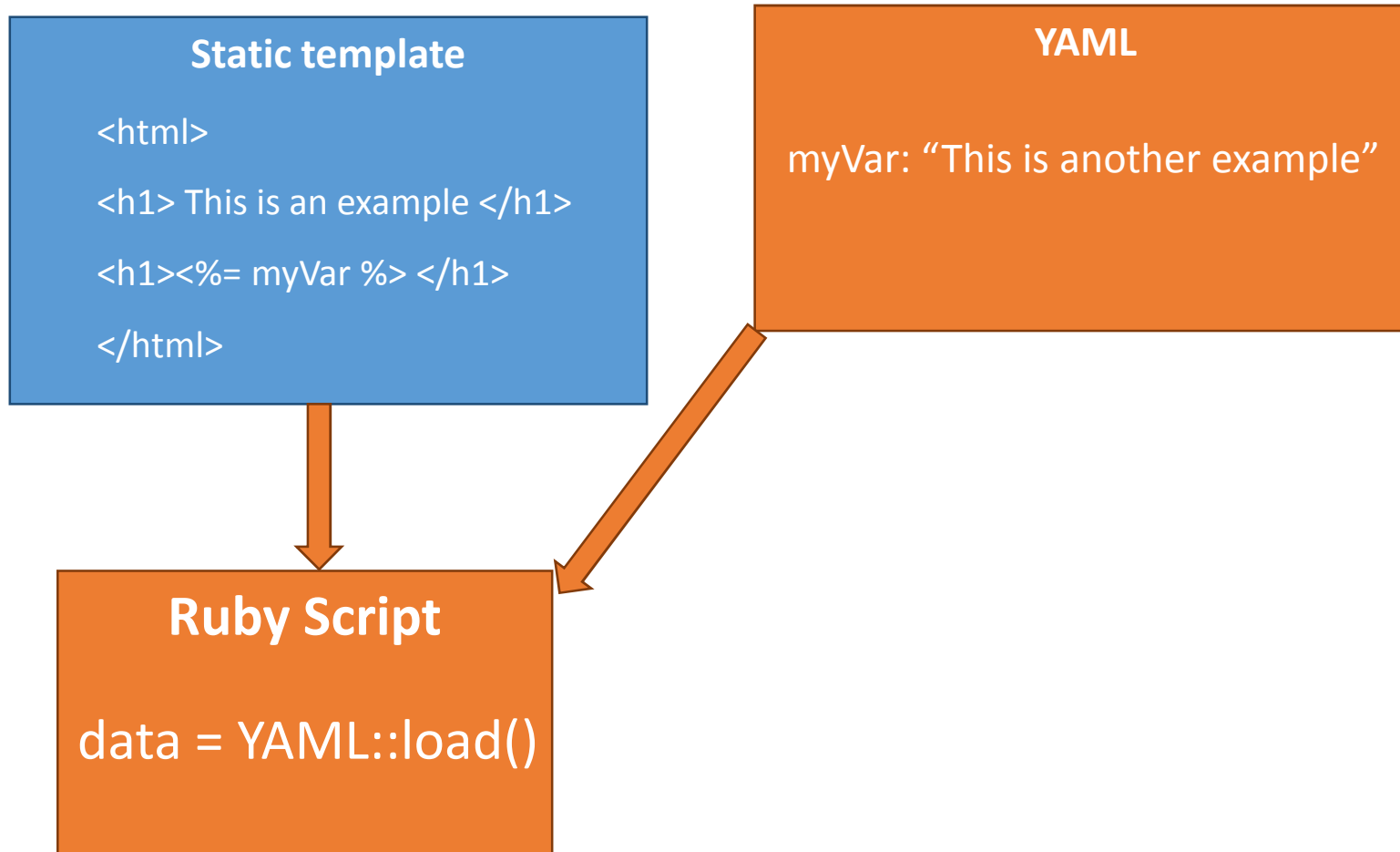
Andante

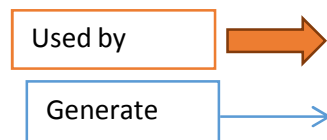
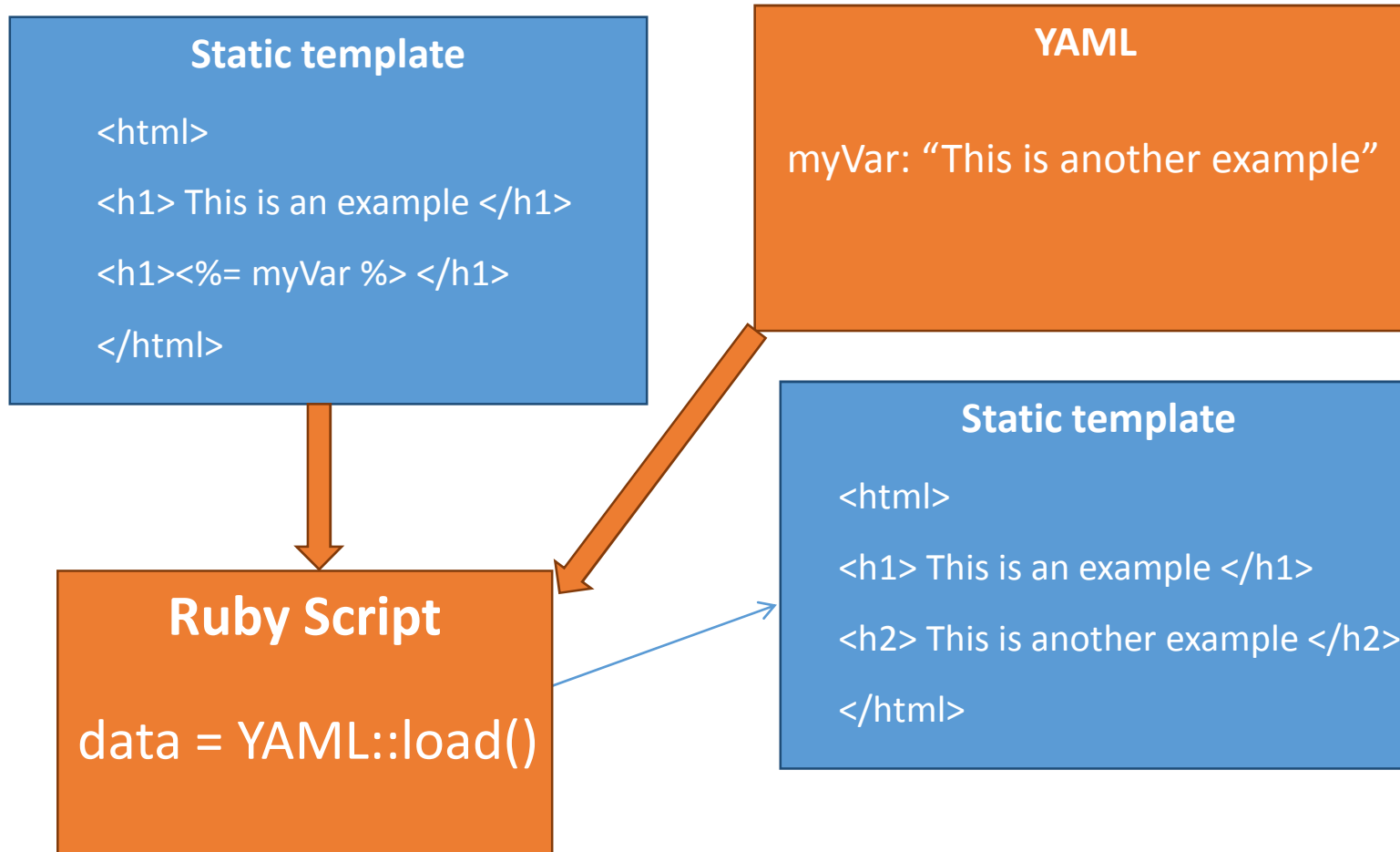


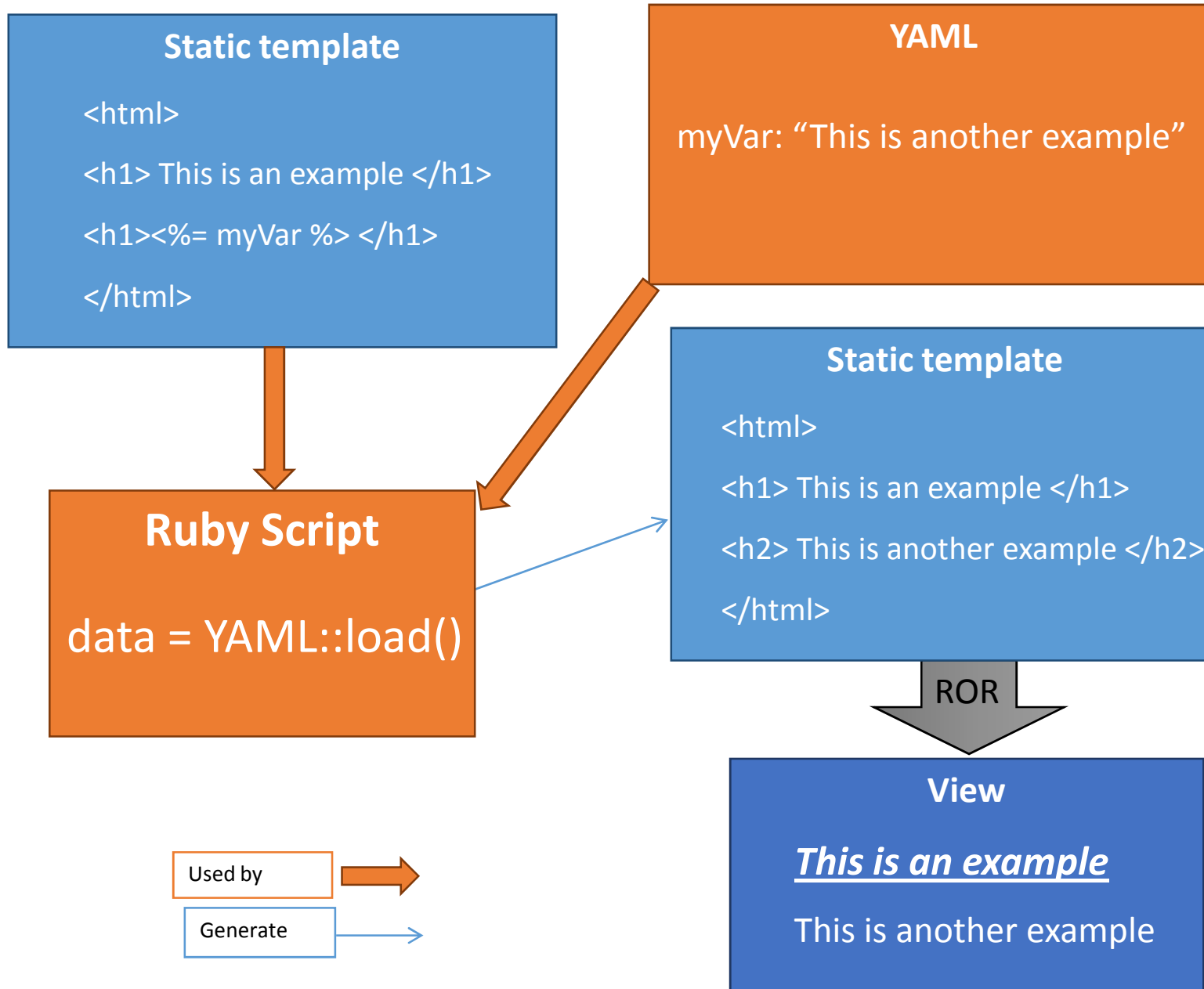
Ruby Script

```
data = YAML::load()
```

Generation of static pages







I. Methods of work

Agile Development MYR
Quality Commitment in MYR

II. Improvements since SWARMON

Changes in the Map rendering
Example of implementation
Improvement in the CSS and the Layout
Improvement in the database

III. New technologies in MYR

How to use Ajax in Rails
Website generator
Impact on performance ←

Impact on the server of a GET request on the page « Real-Time »

SWARMON

```
Started GET "/"view" for 92.139.129.36 at 2015-03-11 20:26:01 +0100
Processing by ViewController#view as HTML
Rendered view/view.html.erb within layouts/noturbolinks (4.4ms)
Completed 200 OK in 943ms (Views: 940.6ms | ActiveRecord: 0.3ms)
Started GET "/stylesheets/styles.css" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-
4.1.0/lib/action_dispatch/middleware/templates/rescues/_trace.html.erb (2.4ms)
Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-4.1.0/lib/action_dispatch/middleware/templates/routes/_route.html.erb (18.0ms)
Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-
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Started GET "/assets/jquery.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/jquery.turbolinks.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
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Started GET "/assets/jquery.cookie.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/underscore.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/gmaps/base.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/gmaps/base/base.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/gmaps/objects/base_builder.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
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Started GET "/assets/gmaps/google/builders/clusterer.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
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Started GET "/assets/what.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/application.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/mapp" for 92.139.129.36 at 2015-03-11 20:26:05 +0100
Processing by ViewController#mapp as JS
Rendered view/_mapp.html.erb (1.6ms)
Rendered view/mapp.js.erb (8.2ms)
Completed 200 OK in 25ms (Views: 22.0ms | ActiveRecord: 0.0ms)
Started GET "/choiceteams" for 92.139.129.36 at 2015-03-11 20:26:05 +0100
Processing by ViewController#choiceteams as JS
Team Load (0.6ms) SELECT "teams".* FROM "teams"
Robot Load (0.4ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 1 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 2 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 3 LIMIT 1
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Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 5 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 7 LIMIT 1
Rendered view/_choiceteams.html.erb (29.6ms)
Rendered view/choiceteams.js.erb (37.1ms)
Completed 200 OK in 50ms (Views: 45.1ms | ActiveRecord: 3.4ms)
```

Monitor Your Robot

```
Started GET "/real-time" for ::1 at 2015-03-11 22:35:22 +0100
ActiveRecord::SchemaMigration Load (1.0ms) SELECT "schema_migrations".* FROM "schema_migrations"
Processing by RealTimeController#show as HTML
(1.0ms) SELECT COUNT(*) FROM "missions" WHERE (start < '2015-03-11 21:35:23.029305' AND '2015-03-11 21:35:23.029305' < end)
Rendered real_time/show.html.erb within layouts/application (68.0ms)
Completed 200 OK in 304ms (Views: 267.0ms | ActiveRecord: 1.0ms)
Started GET "/assets/jquery-87424c3c19e96d4fb033c10ebe21ec40.js?body=1" for ::1 at 2015-03-11 22:35:23 +0100
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Started GET "/assets/application-fcbbf6628d6f1d1ebf9b5fcf689bd2e9.js?body=1" for ::1 at 2015-03-11 22:35:23 +0100
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SWARMON

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Completed 200 OK in 943ms (Views: 940.6ms | ActiveRecord: 0.3ms)
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```

Monitor Your Robot

```
Started GET "/real-time" for ::1 at 2015-03-11 22:35:22 +0100
ActiveRecord::SchemaMigration Load (1.0ms) SELECT "schema_migrations".* FROM "schema_migrations"
Processing by RealTimeController#show as HTML
(1.0ms) SELECT COUNT(*) FROM "missions" WHERE (start < '2015-03-11 21:35:23.029305' AND '2015-03-11 21:35:23.029305' < end)
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Started GET "/assets/jquery-87424c3c19e96d4fb033c10be21ec40.js?body=1" for ::1 at 2015-03-11 22:35:23 +0100
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Started GET "/assets/real_time-6040e6444b4d7760bf2778eb61a3750.js?body=1" for ::1 at 2015-03-11 22:35:23 +0100
```

Legend:

Get HTML and CSS

Get Javascripts

Initialize GUI

SWARMON

```
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Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-4.1.0/lib/action_dispatch/middleware/templates/routes/_table.html.erb (2.4ms)
Started GET "/assets/jquery.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/jquery.turbolinks.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/jquery_ujs.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/jquery.cookie.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/underscore.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/gmaps/base.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/gmaps/base/base.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/gmaps/objects/base_builder.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/gmaps/objects/builder.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02 +0100
Started GET "/assets/gmaps/objects/handler.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/objects/common.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/objects/null_clusterer.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/builders/bound.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/builders/circle.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/builders/clustering.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/builders/kml.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/builders/map.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/builders/marker.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/builders/polygon.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/builders/polyline.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/objects/circle.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/objects/clustering.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/objects/bound.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/objects/kml.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/objects/map.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/objects/marker.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/objects/polygon.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/objects/polyline.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google/primitives.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/gmaps/google.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03 +0100
Started GET "/assets/turbolinks.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/coordinates.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/contact.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/home.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/members.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/missions.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/myaccount.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/robots.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/teams.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/trackers.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/tries.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/what.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/assets/application.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04 +0100
Started GET "/mapp" for 92.139.129.36 at 2015-03-11 20:26:05 +0100
Processing by ViewController#mapp as JS
Rendered view/_mapp.html.erb (1.6ms)
Rendered view/mapp.js.erb (8.2ms)
Completed 200 OK in 25ms (Views: 22.0ms | ActiveRecord: 0.0ms)
Started GET "/choiceteams" for 92.139.129.36 at 2015-03-11 20:26:05 +0100
Processing by ViewController#choiceteams as JS
Team Load (0.6ms) SELECT "teams".* FROM "teams"
Robot Load (0.4ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 1 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 2 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 3 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 4 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 5 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 7 LIMIT 1
Rendered view/_choiceteams.html.erb (29.6ms)
Rendered view/choiceteams.js.erb (37.1ms)
Completed 200 OK in 50ms (Views: 45.1ms | ActiveRecord: 3.4ms)
```

MYR

```
Started GET "/real-time" for ::1 at 2015-03-11 22:35:22 +0100
ActiveRecord::SchemaMigration Load (1.0ms) SELECT "schema_migrations".* FROM "schema_migrations"
Processing by RealTimeController#show as HTML
(1.0ms) SELECT COUNT(*) FROM "missions" WHERE (start < '2015-03-11 21:35:23.029305' AND '2015-03-11 21:35:23.029305' < end)
Rendered real_time/show.html.erb within layouts/application (68.0ms)
Completed 200 OK in 304ms (Views: 267.0ms | ActiveRecord: 1.0ms)
Started GET "/assets/jquery-87424c3c19e96d4fb033c10ebe21ec40.js?body=1" for ::1 at 2015-03-11 22:35:23 +0100
Started GET "/assets/jquery.cookie-6f1ac88e6c397046084354934853e04.js?body=1" for ::1 at 2015-03-11 22:35:23 +0100
Started GET "/assets/jquery_ujs-e27bd20a10d29655845a22d71ef94f2f.js?body=1" for ::1 at 2015-03-11 22:35:23 +0100
Started GET "/assets/functions-d97ed371128fcea95ddbe699f474594b.js?body=1" for ::1 at 2015-03-11 22:35:23 +0100
Started GET "/assets/application-fcbbf6628d6f1d1ebf9b5fc689bd2e9.js?body=1" for ::1 at 2015-03-11 22:35:23 +0100
Started GET "/assets/real_time-6040e6444b4d7760bf2778eb61a3750.js?body=1" for ::1 at 2015-03-11 22:35:23 +0100
```

SWARMON: 45 GET Requests

```
Started GET "/"view" for 92.139.129.36 at 2015-03-11 20:26:01+0100
Processing by ViewController#view as HTML
Rendered view/view.html.erb within layouts/noturbolinks (4.4ms)
Completed 200 OK in 943ms (Views: 940.6ms | ActiveRecord: 0.3ms)
Started GET "/stylesheets/styles.css" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-4.1.0/lib/action_dispatch/middleware/templates/rescues/_trace.html.erb (2.4ms)
Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-4.1.0/lib/action_dispatch/middleware/templates/routes/_route.html.erb (18.0ms)
Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-4.1.0/lib/action_dispatch/middleware/templates/routes/_table.html.erb (2.4ms)
Started GET "/assets/jquery.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/jquery.turbolinks.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/jquery_ujs.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/jquery.cookie.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/underscore.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/base.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/base/base.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/objects/base_builder.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/objects/builder.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/objects/handler.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/objects/common.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/objects/null_clusterer.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/builders/bound.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/builders/circle.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/builders/clustering.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/builders/kml.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/builders/map.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/builders/marker.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/builders/polygon.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/builders/polyline.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/objects/circle.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/objects/clustering.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/objects/bound.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/objects/kml.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/objects/map.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/objects/marker.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/objects/polygon.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/objects/polyline.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/primitives.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/turbolinks.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/coordinates.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/contact.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/home.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/members.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/missions.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/myaccount.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/robots.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/teams.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/trackers.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/tries.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/what.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/application.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/mapp" for 92.139.129.36 at 2015-03-11 20:26:05+0100
Processing by ViewController#mapp as JS
Rendered view/_mapp.html.erb (1.6ms)
Rendered view/mapp.js.erb (8.2ms)
Completed 200 OK in 25ms (Views: 22.0ms | ActiveRecord: 0.0ms)
Started GET "/choiceteams" for 92.139.129.36 at 2015-03-11 20:26:05+0100
Processing by ViewController#choiceteams as JS
Team Load (0.6ms) SELECT "teams".* FROM "teams"
Robot Load (0.4ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 1 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 2 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 3 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 4 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 5 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 7 LIMIT 1
Rendered view/_choiceteams.html.erb (29.6ms)
Rendered view/choiceteams.js.erb (37.1ms)
Completed 200 OK in 50ms (Views: 45.1ms | ActiveRecord: 3.4ms)
```

MYR: 6 GET Requests

```
Started GET "/real-time" for ::1 at 2015-03-11 22:35:22+0100
ActiveRecord::SchemaMigration Load (1.0ms) SELECT "schema_migrations".* FROM "schema_migrations"
Processing by RealTimeController#show as HTML
(1.0ms) SELECT COUNT(*) FROM "missions" WHERE (start < '2015-03-11 21:35:23.029305' AND '2015-03-11 21:35:23.029305' < end)
Rendered real_time/show.html.erb within layouts/application (68.0ms)
Completed 200 OK in 304ms (Views: 267.0ms | ActiveRecord: 1.0ms)
Started GET "/assets/jquery-87424c3c19e96d4fb033c10ebe21ec40.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/jquery.cookie-6f1ac88e6c397046084354934853e04.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/jquery_ujs-e27bd20a10d29655845a22d71ef94f2f.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/functions-d97ed371128fcea95ddbe699f474594b.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/application-fcbbf6628d6f1d1ebf9b5fc6f689bd2e9.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/real_time-6040e6444b4d77f60bf2778eb61a3750.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
```

SWARMON: 45 GET Requests

```
Started GET "/"view" for 92.139.129.36 at 2015-03-11 20:26:01+0100
Processing by ViewController#view as HTML
Rendered view/view.html.erb within layouts/noturbolinks (4.4ms)
Completed 200 OK in 943ms (Views: 940.6ms | ActiveRecord: 0.3ms)
Started GET "/stylesheets/styles.css" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-4.1.0/lib/action_dispatch/middleware/templates/rescues/_trace.html.erb (2.4ms)
Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-4.1.0/lib/action_dispatch/middleware/templates/routes/_route.html.erb (18.0ms)
Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-4.1.0/lib/action_dispatch/middleware/templates/routes/_table.html.erb (2.4ms)
Started GET "/assets/jquery.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/jquery.turbolinks.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/jquery_ujs.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/jquery.cookie.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/underscore.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/base.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/base/base.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/objects/base_builder.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/objects/builder.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/objects/handler.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/google/objects/common.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/null_clusterer.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/bound.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/circle.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/clustering.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/kml.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/map.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/marker.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/polygon.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/polyline.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/circle.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/clustering.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/bound.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/kml.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/map.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/marker.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/polygon.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/polyline.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/primitives.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/turbolinks.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/coordinates.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/contact.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/home.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/members.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/missions.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/myaccount.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/robots.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/teams.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/trackers.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/tries.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/what.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/application.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/mapp" for 92.139.129.36 at 2015-03-11 20:26:05+0100
Processing by ViewController#mapp as JS
Rendered view/_mapp.html.erb (1.6ms)
Rendered view/mapp.js.erb (8.2ms)
Completed 200 OK in 25ms (Views: 22.0ms | ActiveRecord: 0.0ms)
Started GET "/choiceteams" for 92.139.129.36 at 2015-03-11 20:26:05+0100
Processing by ViewController#choiceteams as JS
Team Load (0.6ms) SELECT "teams".* FROM "teams"
Robot Load (0.4ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 1 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 2 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 3 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 4 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 5 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 7 LIMIT 1
Rendered view/_choiceteams.html.erb (29.6ms)
Rendered view/choiceteams.js.erb (37.1ms)
Completed 200 OK in 50ms (Views: 45.1ms | ActiveRecord: 3.4ms)
```

MYR: 6 GET Requests

```
Started GET "/real-time" for ::1 at 2015-03-11 22:35:22+0100
ActiveRecord::SchemaMigration Load (1.0ms) SELECT "schema_migrations".* FROM "schema_migrations"
Processing by RealTimeController#show as HTML
(1.0ms) SELECT COUNT(*) FROM "missions" WHERE (start < '2015-03-11 21:35:23.029305' AND '2015-03-11 21:35:23.029305' < end)
Rendered real_time/show.html.erb within layouts/application (68.0ms)
Completed 200 OK in 304ms (Views: 267.0ms | ActiveRecord: 1.0ms)
Started GET "/assets/jquery-87424c3c19e96d4fb033c10ebe21ec40.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/jquery.cookie-6f1ac88e6c397046084354934853e04.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/jquery_ujs-e27bd20a10d29655845a22d71ef94f2f.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/functions-d97ed371128fcea95ddbe699f474594b.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/application-fcbf6628d6f1d1ebf9b5fc6f689bd2e9.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/real_time-6040e6444b4d7f760bf2778eb61a3750.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
```

Number of requests to send:
39

Max number of parallel connexions:
6

Common value for ping:
50ms to 100 ms

Time needed:
325 ms to 650 ms

SWARMON: 45 GET Requests

```
Started GET "/"view" for 92.139.129.36 at 2015-03-11 20:26:01+0100
Processing by ViewController#view as HTML
Rendered view/view.html.erb within layouts/noturbolinks (4.4ms)
Completed 200 OK in 943ms (Views: 940.6ms | ActiveRecord: 0.3ms)
Started GET "/stylesheets/styles.css" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-4.1.0/lib/action_dispatch/middleware/templates/rescues/_trace.html.erb (2.4ms)
Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-4.1.0/lib/action_dispatch/middleware/templates/routes/_route.html.erb (18.0ms)
Rendered /home/apidev/.rvm/gems/ruby-2.0.0-p247/gems/actionpack-4.1.0/lib/action_dispatch/middleware/templates/routes/_table.html.erb (2.4ms)
Started GET "/assets/jquery.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/jquery.turbolinks.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/jquery_ujs.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/jquery.cookie.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/underscore.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/base.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/base/base.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/objects/base_builder.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/objects/builder.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:02+0100
Started GET "/assets/gmaps/objects/handler.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/common.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/null_clusterer.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/bound.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/circle.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/clustering.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/kml.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/map.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/marker.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/polygon.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/builders/polyline.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/circle.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/clustering.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/bound.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/kml.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/map.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/marker.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/polygon.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/objects/polyline.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google/primitives.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/gmaps/google.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:03+0100
Started GET "/assets/turbolinks.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/coordinates.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/contact.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/home.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/members.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/missions.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/myaccount.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/robots.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/teams.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/trackers.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/tries.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/what.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/assets/application.js?body=1" for 92.139.129.36 at 2015-03-11 20:26:04+0100
Started GET "/mapp" for 92.139.129.36 at 2015-03-11 20:26:05+0100
Processing by ViewController#mapp as JS
Rendered view/_mapp.html.erb (1.6ms)
Rendered view/mapp.js.erb (8.2ms)
Completed 200 OK in 25ms (Views: 22.0ms | ActiveRecord: 0.0ms)
Started GET "/choiceteams" for 92.139.129.36 at 2015-03-11 20:26:05+0100
Processing by ViewController#choiceteams as JS
Team Load (0.6ms) SELECT "teams".* FROM "teams"
Robot Load (0.4ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 1 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 2 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 3 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 4 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 5 LIMIT 1
Robot Load (0.3ms) SELECT "robots".* FROM "robots" WHERE "robots"."team_id" = 7 LIMIT 1
Rendered view/_choiceteams.html.erb (29.6ms)
Rendered view/choiceteams.js.erb (37.1ms)
Completed 200 OK in 50ms (Views: 45.1ms | ActiveRecord: 3.4ms)
```

MYR: 6 GET Requests

```
Started GET "/real-time" for ::1 at 2015-03-11 22:35:22+0100
ActiveRecord::SchemaMigration Load (1.0ms) SELECT "schema_migrations".* FROM "schema_migrations"
Processing by RealTimeController#show as HTML
(1.0ms) SELECT COUNT(*) FROM "missions" WHERE (start < '2015-03-11 21:35:23.029305' AND '2015-03-11 21:35:23.029305' < end)
Rendered real_time/show.html.erb within layouts/application (68.0ms)
Completed 200 OK in 304ms (Views: 267.0ms | ActiveRecord: 1.0ms)
Started GET "/assets/jquery-87424c3c19e96d4fb033c10ebe21ec40.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/jquery.cookie-6f1ac88e6c397046084354934853e04.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/jquery_ujs-e27bd20a10d29655845a22d71ef94f2f.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/functions-d97ed371128fcea95ddbe699f474594b.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/application-fcbbf6628d6f1d1ebf9b5fcf689bd2e9.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
Started GET "/assets/real_time-6040e6444b4d7f760bf2778eb61a3750.js?body=1" for ::1 at 2015-03-11 22:35:23+0100
```

Number of requests to send:
39

Max number of parallel connexions:
6

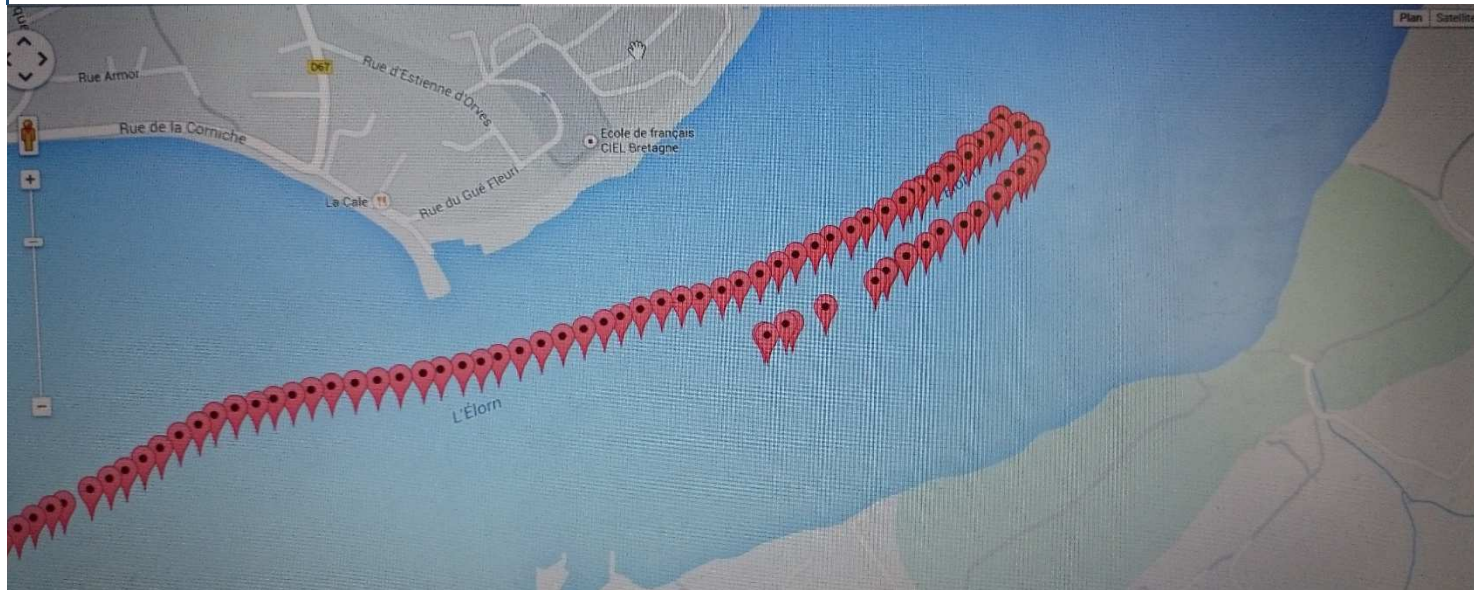
Common value for ping:
50ms to 100 ms

Time needed:
325 ms to 650 ms

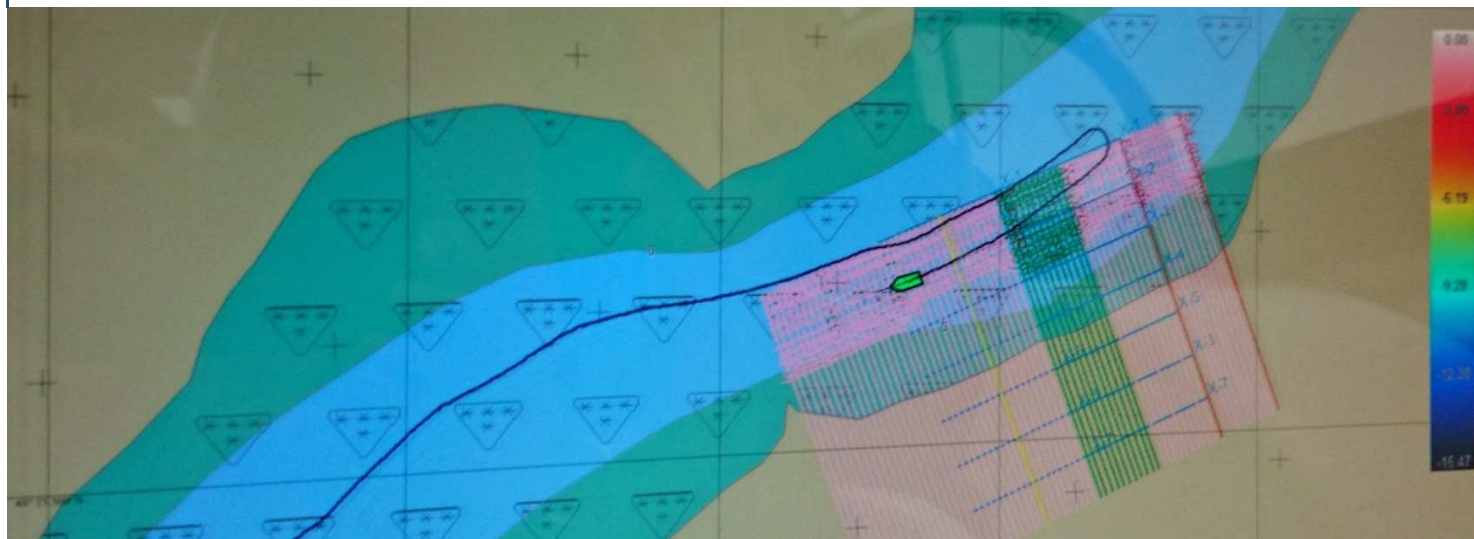
To be compared to:
Rendering a common web page:
Less than one second

Open sea test

Monitor your robot



Boat's instrumentation



Open sea test: comparison between the two refresh methods

Conclusion

To conclude: key figures about Monitor Your Robot

In less than 3 weeks:

To conclude: key figures about Monitor Your Robot

In less than 3 weeks:

GitHub

50 commits

More than 10000 lines of codes

To conclude: key figures about Monitor Your Robot

In less than 3 weeks:

GitHub

50 commits

More than 10,000 lines of codes



In less than 3 weeks:

GitHub

50 commits

More than 10,000 lines of codes

Stormboard

32 post-its

In less than 3 weeks:

GitHub

50 commits

More than 10,000 lines of codes

Stormboard

32 post-its

Reports

1 State of the Art

2 Status reports

1 Final report

- ✓ *New « Real-Time » page*
- ✓ *New CSS and website generator*
- ✓ *New database and possibility to create markers for a specific mission*
- ✓ *Better use of technologies*
- ✓ *Good quality of code to allow future developments*



Any Questions ?

ANNEXES

I. Methods of work

Agile Development MYR
Quality Commitment in MYR

II. Improvements since SWARMON

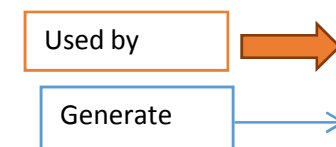
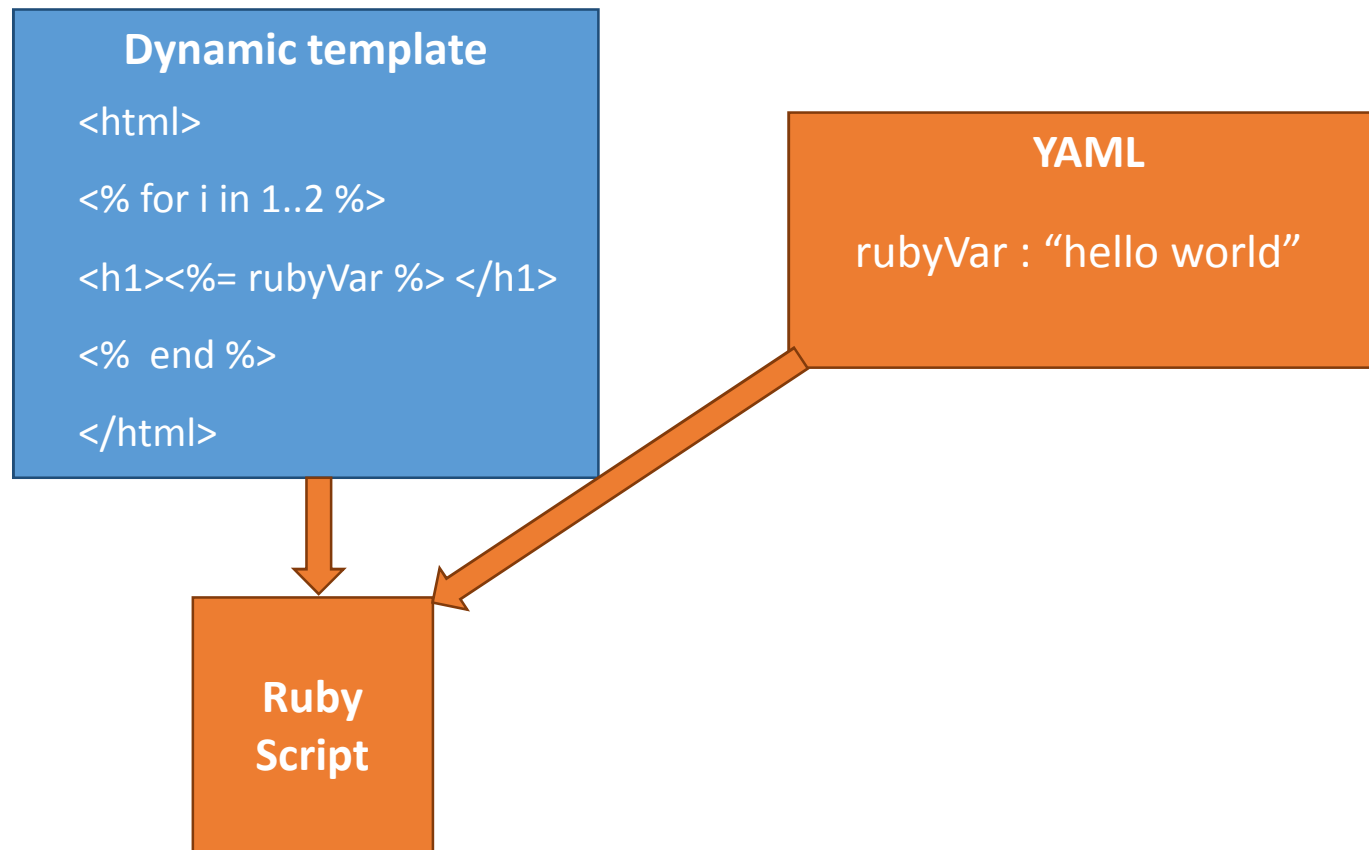
Changes in the Map rendering
Example of implementation
Improvement in the CSS and the Layout
Improvement in the database

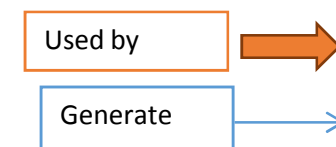
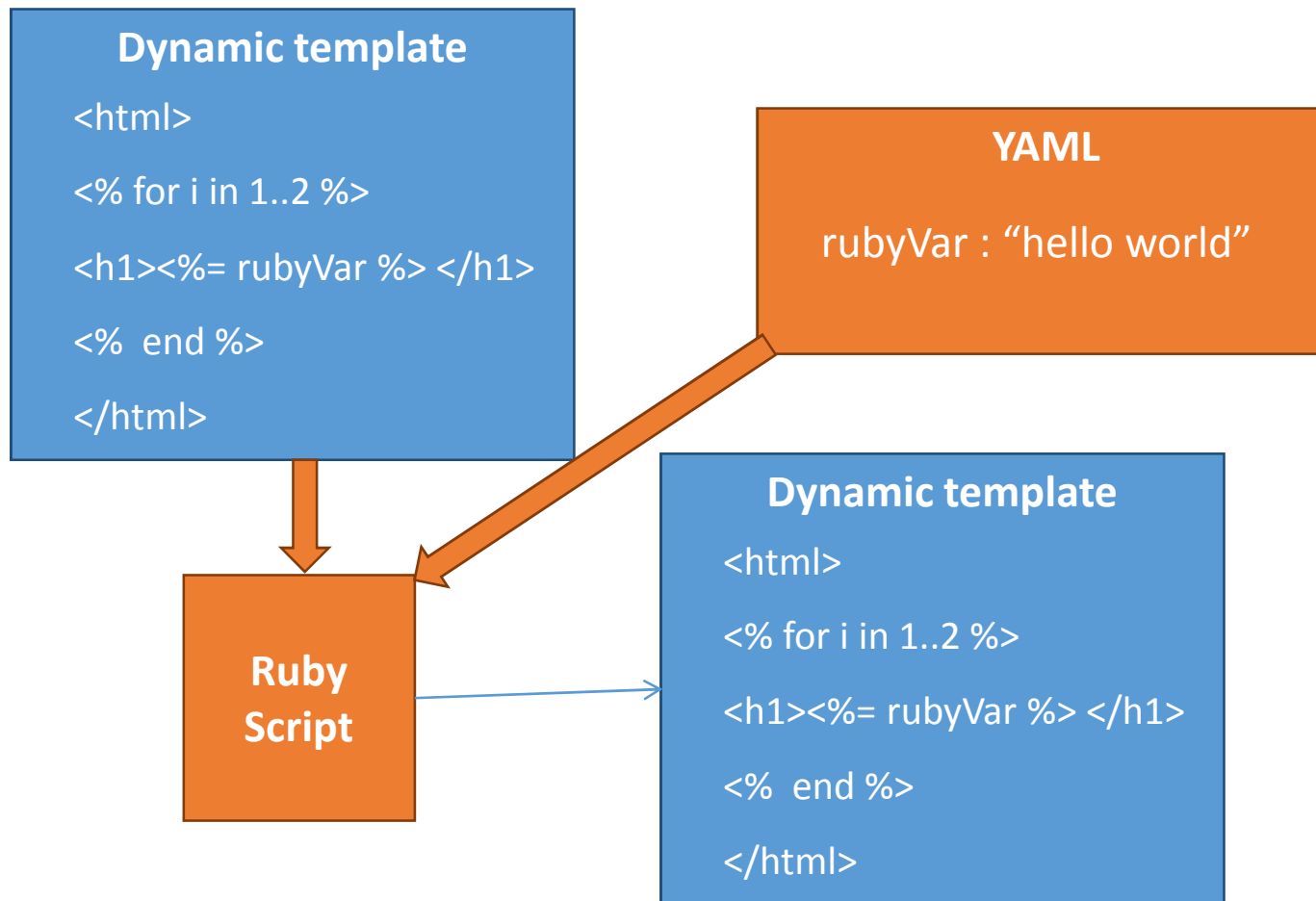
III. New technologies in MYR

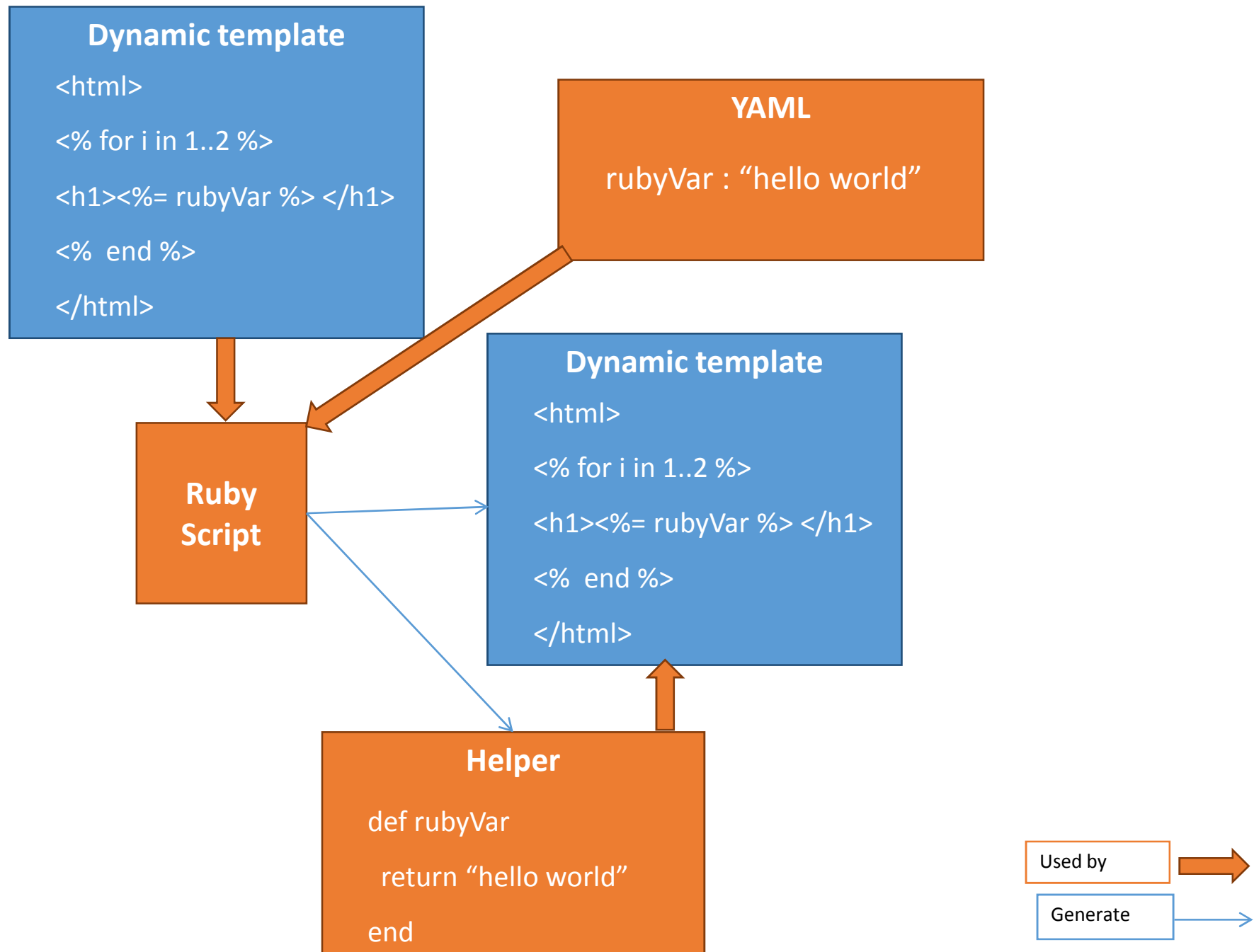
How to use Ajax in Rails
Website generator ←
Impact on performance

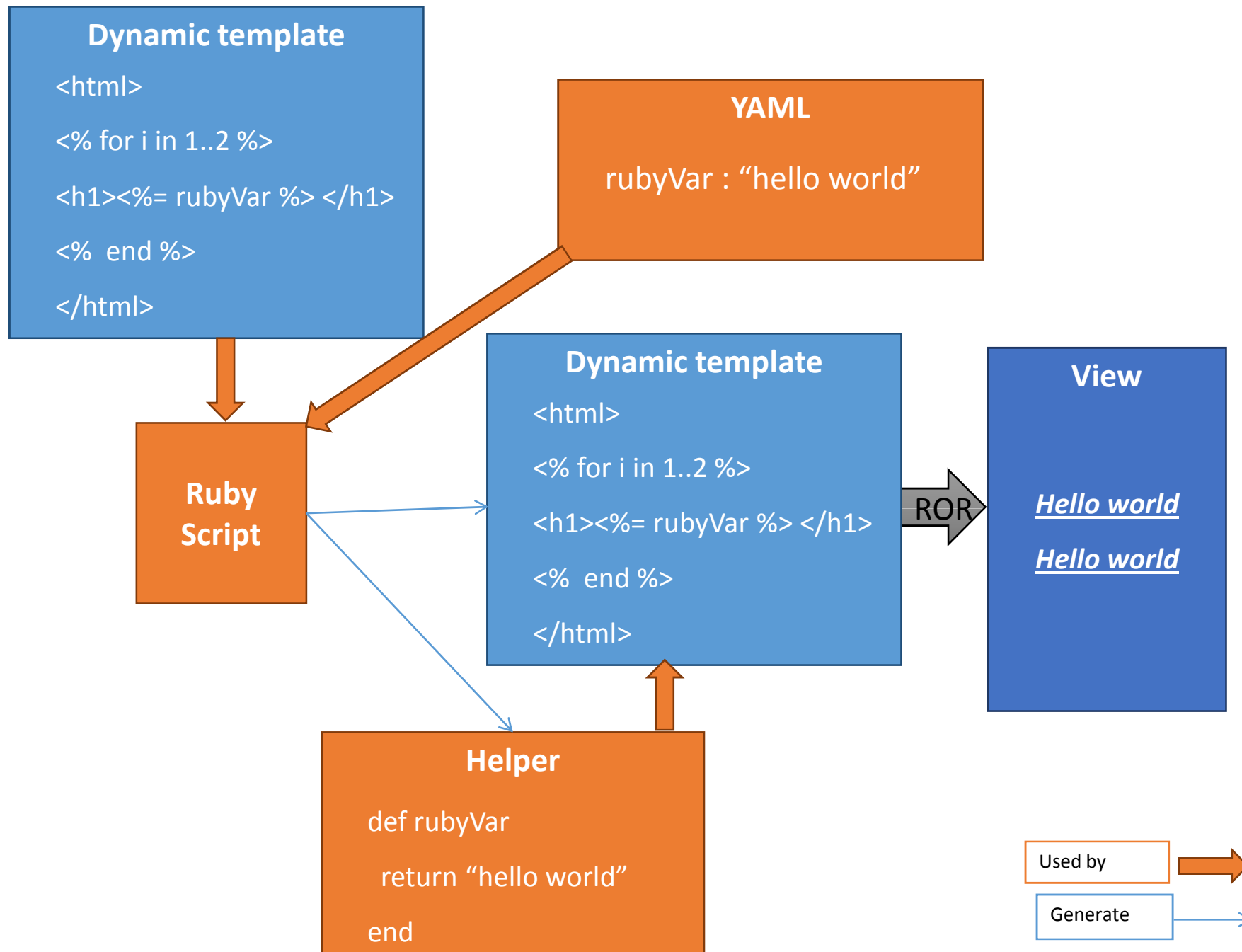
Website generator

Generation of dynamic pages









I. Methods of work

Agile Development MYR
Quality Commitment in MYR

II. Improvements since SWARMON

Changes in the Map rendering
Example of implementation
Improvement in the CSS and the Layout
Improvement in the database

III. New technologies in MYR

How to use Ajax in Rails
Website generator ←
Impact on performance

Rake file

How to generate a customized web site ?

```
C:\Sites\MYR\MYR_rails>rake config:load
C:/RailsInstaller/Ruby2.1.0/bin/ruby.exe C:/Sites/MYR/MYR_rails/lib/generator/ruby_script/config_static.rb
Load config completed

C:\Sites\MYR\MYR_rails>rails s
=> Booting WEBrick
=> Rails 4.2.0 application starting in development on http://localhost:3000
=> Run 'rails server -h' for more startup options
=> Ctrl-C to shutdown server
[2015-03-17 23:50:00] INFO WEBrick 1.3.1
[2015-03-17 23:50:00] INFO ruby 2.1.5 (2014-11-13) [i386-mingw32]
[2015-03-17 23:50:00] INFO WEBrick::HTTPServer#start: pid=1100 port=3000
```

ANNEXES:



























- *Client side impact of a GET request on /view (SWARMON)*
- *Impact of cache on javascripts*
- *Analysis of performance on /view (SWARMON)*
- *Format used for coordinates*
- *Complete Stormboard*

Client side Impact of a GET request on /view (SWARMON)

Q Elements Network Sources Timeline Profiles Resources Audits Console

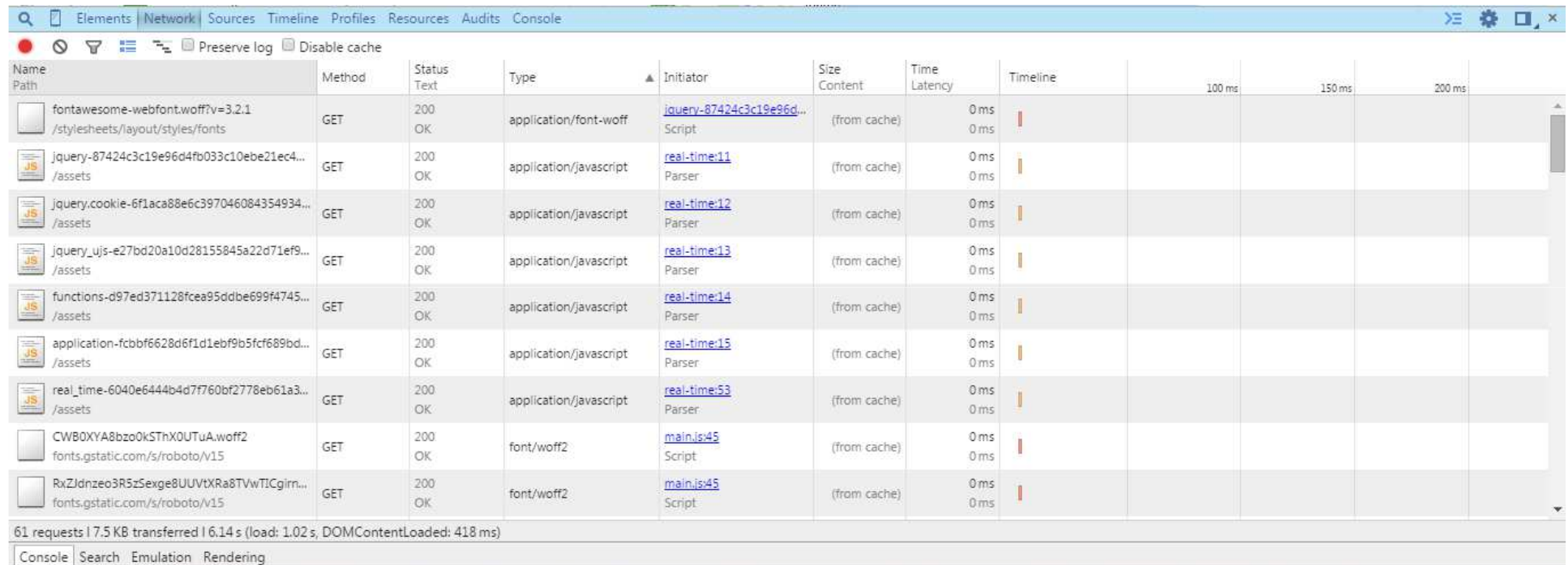
Preserve log

Disable cache

Name Path	Method	Status Text	Type	Initiator	Size Content	Time Latency	Timeline	2.00 s
 jquery.js?body=1 /assets	GET	304 Not Modified	application/javascript	view:6 Parser	185 B 276 KB	187 ms 186 ms		
 jquery.turbolinks.js?body=1 /assets	GET	304 Not Modified	application/javascript	view:7 Parser	185 B 1.1 KB	195 ms 194 ms		
 jquery_ujs.js?body=1 /assets	GET	304 Not Modified	application/javascript	view:8 Parser	185 B 17.1 KB	195 ms 194 ms		
 jquery.cookie.js?body=1 /assets	GET	304 Not Modified	application/javascript	view:9 Parser	185 B 2.1 KB	196 ms 195 ms		
 underscore.js?body=1 /assets	GET	304 Not Modified	application/javascript	view:10 Parser	185 B 88.8 KB	197 ms 196 ms		
 base.js?body=1 /assets/gmaps	GET	304 Not Modified	application/javascript	view:11 Parser	185 B 391 B	236 ms 235 ms		
 base.js?body=1 /assets/gmaps/base	GET	304 Not Modified	application/javascript	view:12 Parser	185 B 987 B	244 ms 243 ms		
 base_builder.js?body=1 /assets/gmaps/objects	GET	304 Not Modified	application/javascript	view:13 Parser	185 B 820 B	253 ms 252 ms		
 builder.js?body=1 /assets/gmaps/objects	GET	304 Not Modified	application/javascript	view:14 Parser	185 B 500 B	246 ms 244 ms		
 handler.js?body=1 /assets/gmaps/objects	GET	304 Not Modified	application/javascript	view:15 Parser	185 B 6.3 KB	260 ms 259 ms		
 null_clusterer.js?body=1 /assets/gmaps/objects	GET	304 Not Modified	application/javascript	view:16 Parser	185 B 373 B	263 ms 261 ms		
 common.js?body=1 /assets/gmaps/google/objects	GET	304 Not Modified	application/javascript	view:17 Parser	185 B 650 B	306 ms 305 ms		
 bound.js?body=1 /assets	GET	304 Not Modified	application/javascript	view:18 Parser	185 B 1.1 KB	306 ms 305 ms		
129 requests 13.0 KB transferred 6.72 s (load: 1.41 s, DOMContentLoaded: 1.41 s)								

129 Requests

Impact of cache on javascripts



Name Path	Method	Status Text	Type	Initiator	Size Content	Time Latency	Timeline	100 ms	150 ms	200 ms
fontawesome-webfont.woff?v=3.2.1 /stylesheets/layout/styles/fonts	GET	200 OK	application/font-woff	jquery-87424c3c19e96d...	(from cache)	0 ms 0 ms				
jquery-87424c3c19e96d4fb033c10ebe21ec4... /assets	GET	200 OK	application/javascript	real-time:11 Parser	(from cache)	0 ms 0 ms				
jquery.cookie-6f1aca88e6c397046084354934... /assets	GET	200 OK	application/javascript	real-time:12 Parser	(from cache)	0 ms 0 ms				
jquery_ujs-e27bd20a10d28155845a22d71ef9... /assets	GET	200 OK	application/javascript	real-time:13 Parser	(from cache)	0 ms 0 ms				
functions-d97ed371128fcea95ddbe699f4745... /assets	GET	200 OK	application/javascript	real-time:14 Parser	(from cache)	0 ms 0 ms				
application-fcbbf6628d6f1d1ebf9b5fcf689bd... /assets	GET	200 OK	application/javascript	real-time:15 Parser	(from cache)	0 ms 0 ms				
real_time-6040e6444b4d7f760bf2778eb61a3... /assets	GET	200 OK	application/javascript	real-time:53 Parser	(from cache)	0 ms 0 ms				
CWB0XYA8bzo0kSThX0UTuA.woff2 fonts.gstatic.com/s/roboto/v15	GET	200 OK	font/woff2	main.js:45 Script	(from cache)	0 ms 0 ms				
RxZjdneo3R5zSxge8UUVtXRa8TVwTICgirn... fonts.gstatic.com/s/roboto/v15	GET	200 OK	font/woff2	main.js:45 Script	(from cache)	0 ms 0 ms				

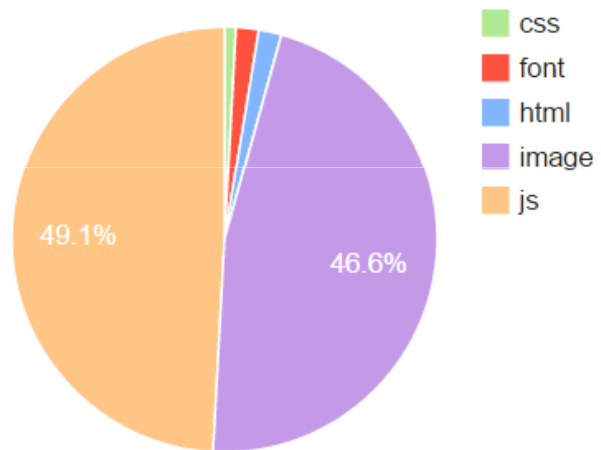
61 requests | 7.5 KB transferred | 6.14 s (load: 1.02 s, DOMContentLoaded: 418 ms)

Console Search Emulation Rendering

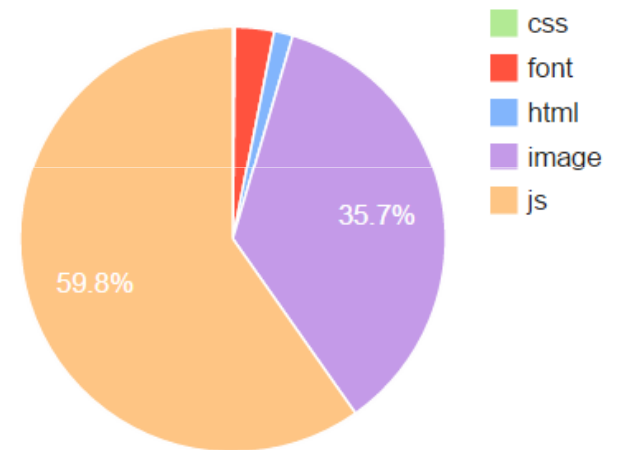
61 Requests

Analysis of performance on /view (SWARMON)

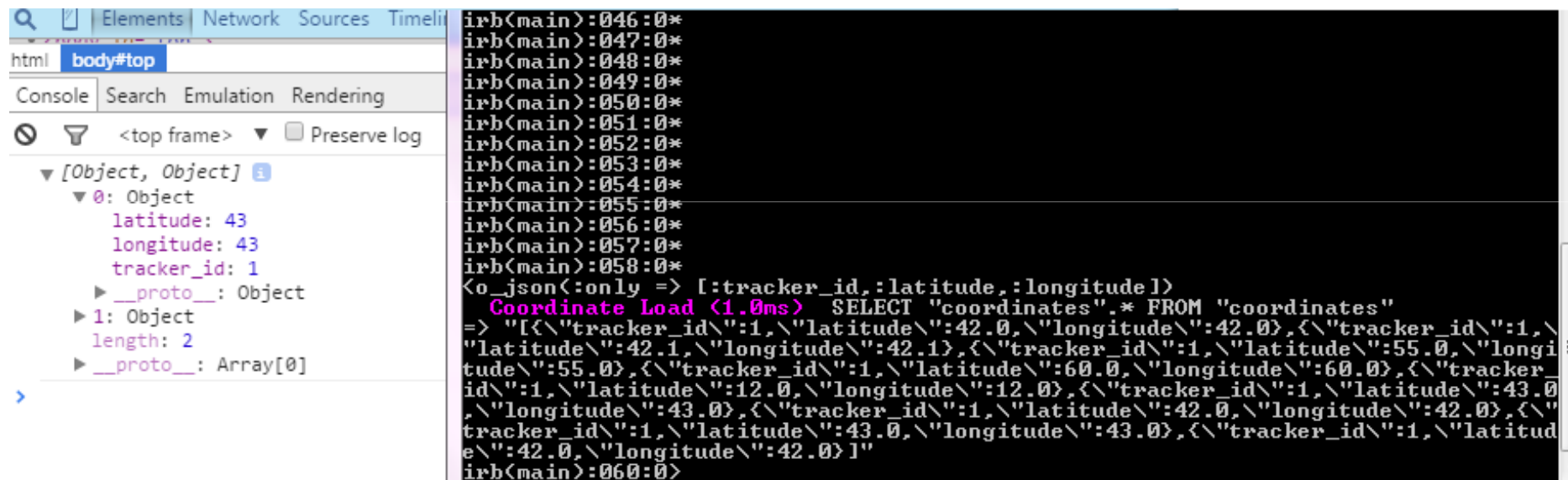
Requests



Bytes



Format used for coordinates



The screenshot displays a web browser's developer console. On the left, the 'Console' tab is active, showing a log entry for an array of two objects. The first object has the following properties:

- `latitude`: 43
- `longitude`: 43
- `tracker_id`: 1

The second object is an array of length 2, with a prototype of `Array[0]`.

On the right, the 'Network' tab is active, showing a log entry for a `Coordinate Load` operation. The log entry includes the following SQL query and JSON data:

```
Coordinate Load <1.0ms> SELECT "coordinates".* FROM "coordinates"
=> [{"tracker_id":1,"latitude":42.0,"longitude":42.0}, {"tracker_id":1,"latitude":42.1,"longitude":42.1}, {"tracker_id":1,"latitude":55.0,"longitude":55.0}, {"tracker_id":1,"latitude":60.0,"longitude":60.0}, {"tracker_id":1,"latitude":12.0,"longitude":12.0}, {"tracker_id":1,"latitude":43.0,"longitude":43.0}, {"tracker_id":1,"latitude":42.0,"longitude":42.0}, {"tracker_id":1,"latitude":43.0,"longitude":43.0}, {"tracker_id":1,"latitude":42.0,"longitude":42.0}]
```

« Stormboard » of Monitor Your Robot

MYR

Search Chat Activity Help

TO DO

- 9 days ago in **BENOIT**
Limit number of coordinates: after a period of time a lot of refresh (add of coords) have been processed. [More...](#)
- 10 days ago in **BENOIT**
Change the size of the map
- 9 days ago in **BENOIT**
Add the logo on the site
- 5 days ago in **BENOIT**
validation on mission name
- 5 days ago in **BENOIT**
Complete mission View with start and end

IN PROGRESS ...

- 18 days ago in **BASTIEN**
Use HTTPS protocol to send the password to the website
- 4 days ago in **BASTIEN**
rework validation in model (valid float for lat in coordinate, ...)
- 10 days ago in **BENOIT**
Add a domain restriction to the API Key ?
- 9 days ago in **Everybody**
Migrate CSS into Asset Pipeline
- 9 days ago in **Everybody**
Remove unused code

DONE ! :D

- 4 days ago in **BENOIT**
Report
- 4 days ago in **BASTIEN**
add authentication
- 4 days ago in **BASTIEN**
Report
- 10 days ago in **BENOIT**
Get only latest coordinates
- 10 days ago in **BENOIT**
Limit number of coordinates on a request to 500
- 10 days ago in **BENOIT**
Change default datetime to get coordinates for only last 5 mins
- 10 days ago in **BASTIEN**
Implement Generator (with script YML)
- 18 days ago in **BASTIEN**
FIX "has secure password" in model/member

PAUSED

- 9 days ago in **BENOIT**
Create basic admin tool
- 5 days ago in **BENOIT**
Real-Time
- 17 days ago in **BASTIEN**
Create a new CSS with an website generator

Bibliography:

- *"WebPageTest." WebPagetest Test Result. N.p., n.d. Web. 15 Mar. 2015.*

Workspace

```

<!DOCTYPE html>
<html>
<head>
  <%= javascript_include_tag 'real_time', 'data-
    turbolinks-track' => true %>
</head>
<body>
  <% missionsArray = getCurrentMission %>
  <% nbMissions = missionsArray.size %>
  <% if ( nbMissions > 0 ) %>
    <% if missionsArray.size > 1 %>
      <p>Cannot display multiple missions at a time</p>

```

```

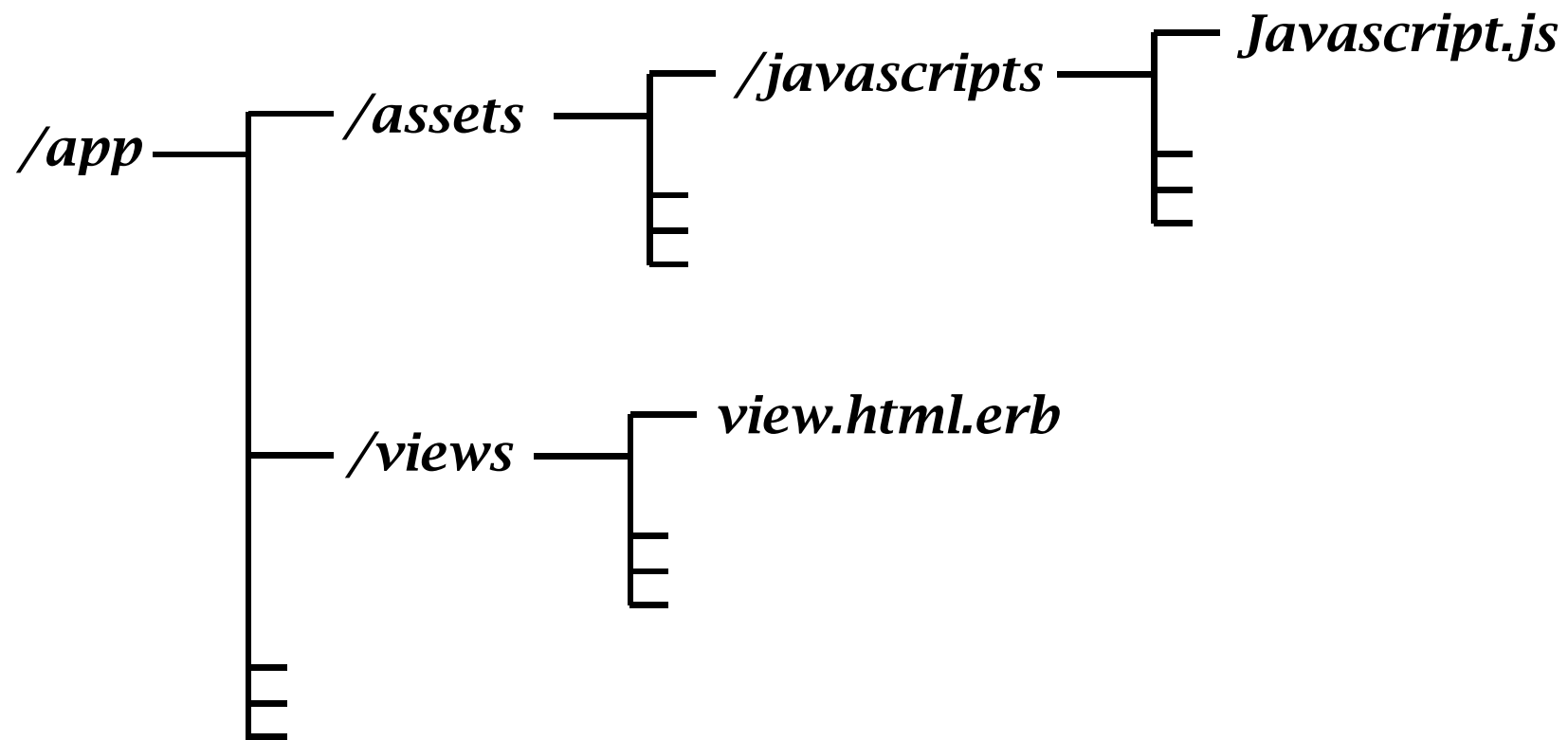
$(document).ready(function(){

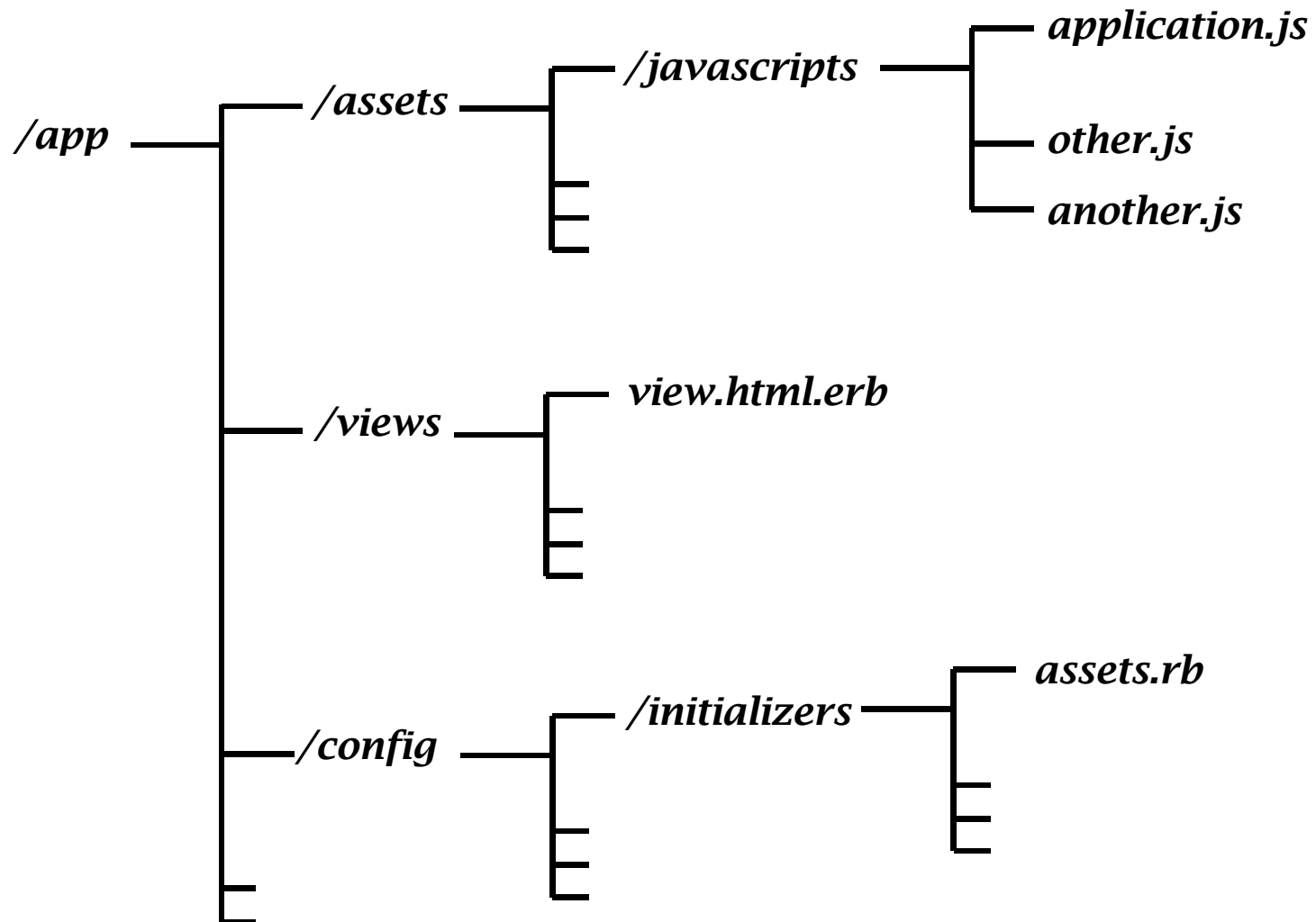
  //initialization
  initializeMap();
  initialScroll();

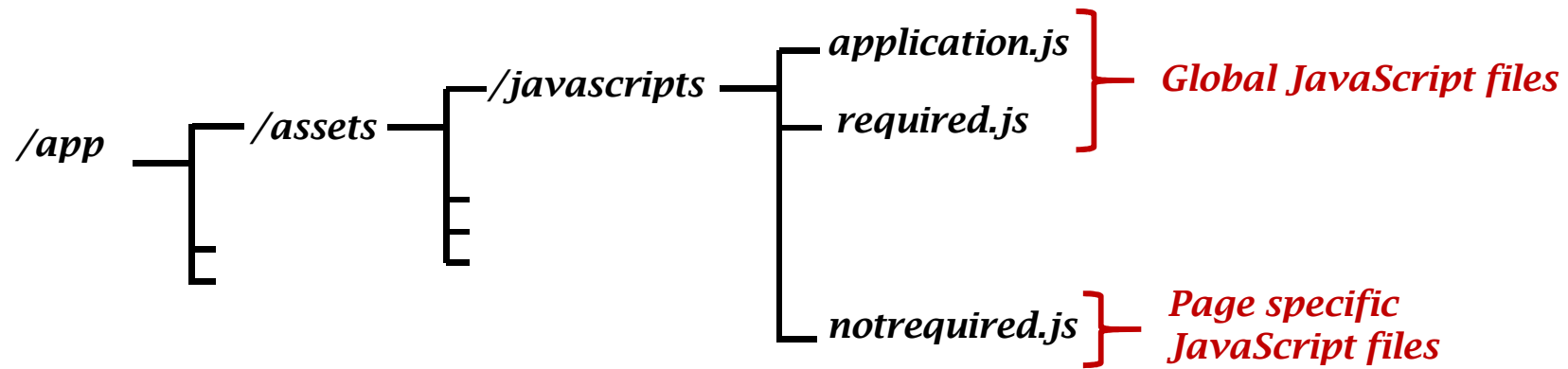
  $("#getMissionLength").click(function(){

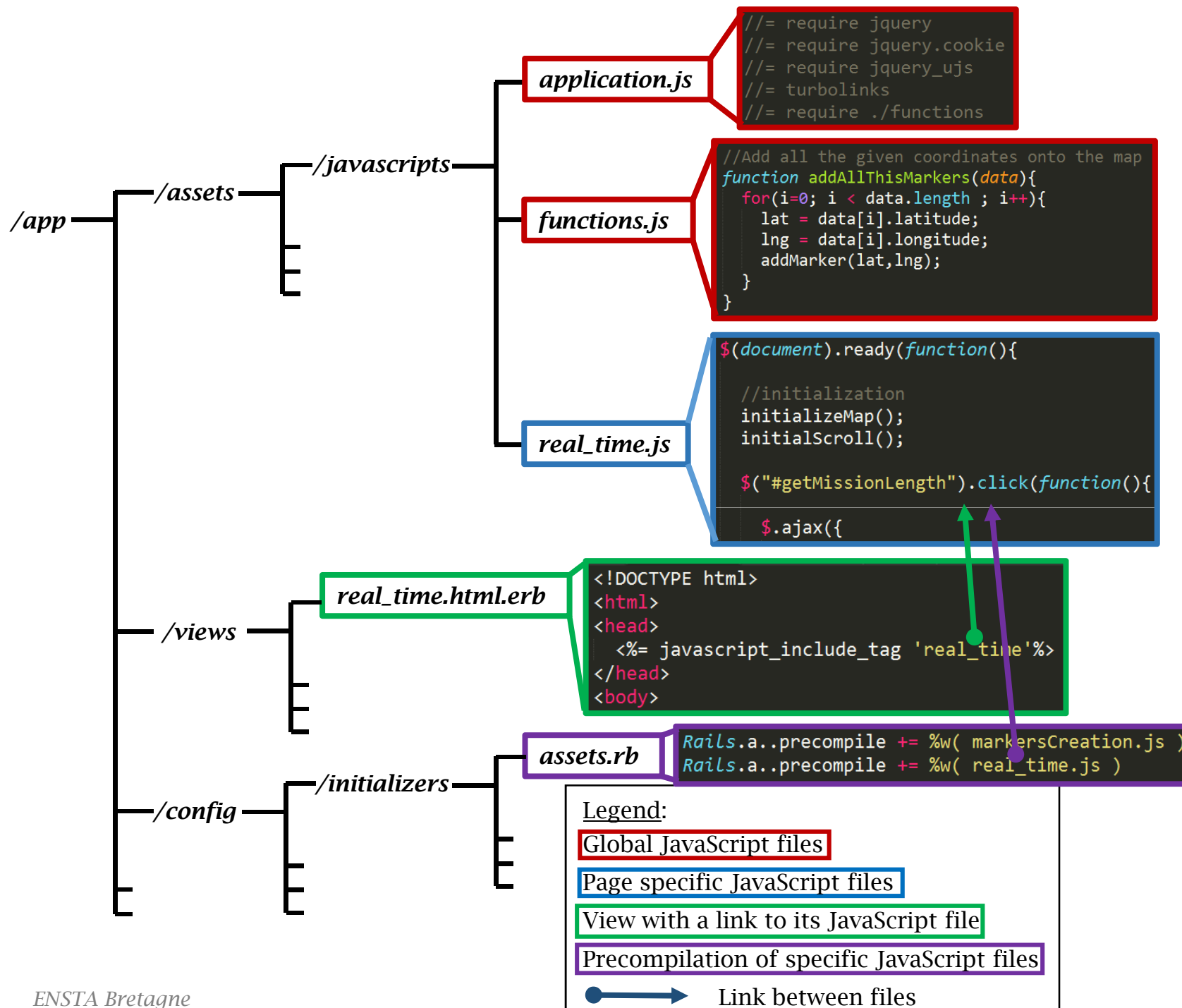
    $.ajax({
      type: "GET",
      url: "/getMissionLength",
      dataType: "json",
      success: function(data){
        if(data.length > 0){
          start = data[0];
          end = data[1];

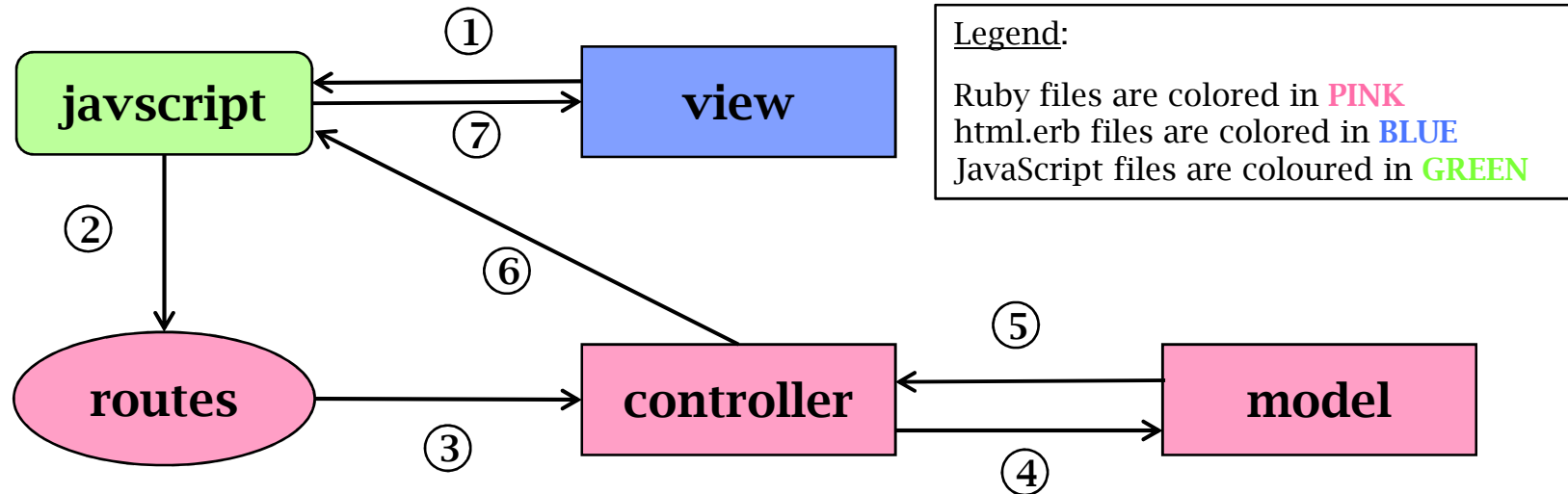
```











- ① The view receives an event which trigger an action of the JQuery script.
- ② The Ajax request of the jQuery script calls a URL.
- ③ The routes.rb file establishes a link between the provided URL and the corresponding controller action.
- ④ The method of the controller process its actions. The controller can retrieve data from the database by directly calling Ruby Classes.
- ⑤ The ActiveRecord:: ORM retrieves the data by using SQL requests and send them back to the controller as a Ruby Object.
- ⑥ The controller send the data back to the jQuery script using JSON format.
- ⑦ The JQuery script uses the retrieved data to change the content of the web page.

- ①

```
<button id="gatherCoords" type="button">Get coordinates</button>
```
- ②

```
$("#gatherCoords").click(function(){  
  $.ajax({  
    type: "GET",  
    url: "/gatherCoordsBetweenDates",  
    dataType: "json",  
    data: { tstart: start, tend: end},  
    success: function(data){
```
- ③

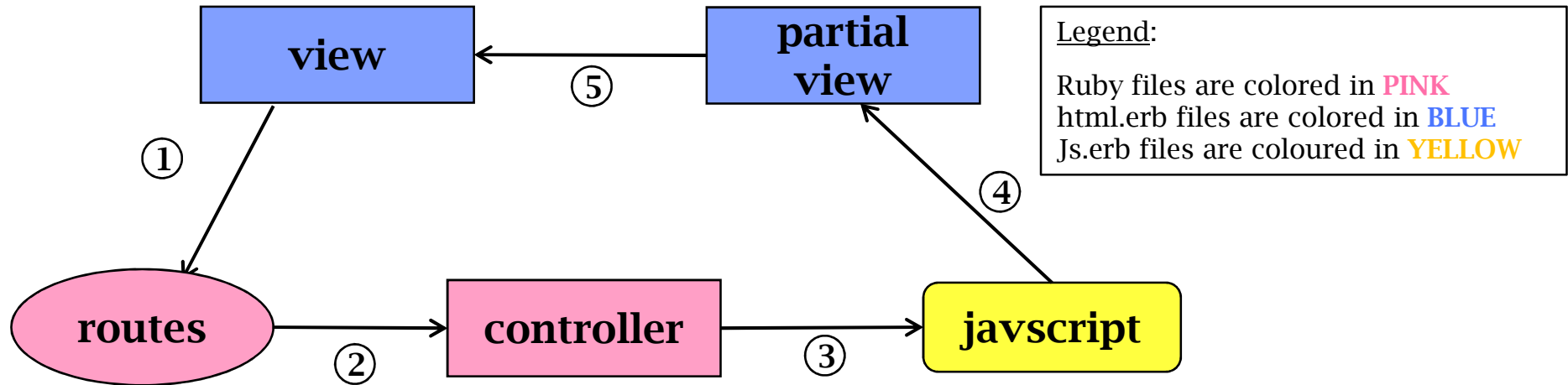
```
#ajax  
get 'getMissionLength', to: 'real_time#getMissionLength'  
get 'gatherCoordsBetweenDates', to: 'coordinates#gatherCoordsBetweenDates'  
get 'gatherCoordsSince', to: 'coordinates#gatherCoordsSince'
```
- ④

```
def gatherCoordsBetweenDates  
  if (params[:tstart] != nil && params[:tend] != nil)
```
- ⑤

```
  render json: newCoords.to_json(:only =>[:tracker_id,:latitude,:longitude])  
end
```
- ⑥

```
class Coordinate < ActiveRecord::Base  
  # Associations  
  belongs_to :tracker  
  # Validations  
  validates :latitude, presence: true  
  validates :longitude, presence: true  
  validates :datetime, presence: true  
end
```
- ⑦

```
length = data.length;  
for (i=0; i<length; i++)  
{  
  refreshWithNewMarkers(data);  
}
```

- ① The view receives an event which triggers an Ajax action (remote: true).
- ② The routes.rb file uses the given action name to find the corresponding method and controller.
- ③ The controller can do some preprocessing but it can also do nothing at all. In fact the method in the controller is just needed to respect the MVC template.
- ④ This jQuery script directly replaces a <div> in the original html.erb with a piece of code from another html.erb file.
- ⑤ This second html.erb file is named “partial” as it is only a partial part of the final rendered web page. Its name must start with an underscore or Rails will not recognize it as a “partial”.

- ①

```
<div id="carte"></div>
```



```
<a id="refresh0" href<%= link_to "", :action => :mapp, remote: true%></a>
```
- ②

```
match 'choicerobots' => 'view#choicerobots', :via => [:get]  
match 'updatemapp' => 'view#updatemapp', :via => [:get]
```
- ③

```
def updatemapp  
end
```
- ④

```
$("#carte").html("<%= escape_javascript(render 'mapp') %>")
```
- ⑤

```
<div style='width: 100%'>  
  <div id="map" style='width: 100%; height: 500px;'></div>  
</div>
```