



RUBY ON RAILS BEGINNERS

3. Fundamenty Ruby on Rails

Praca domowa

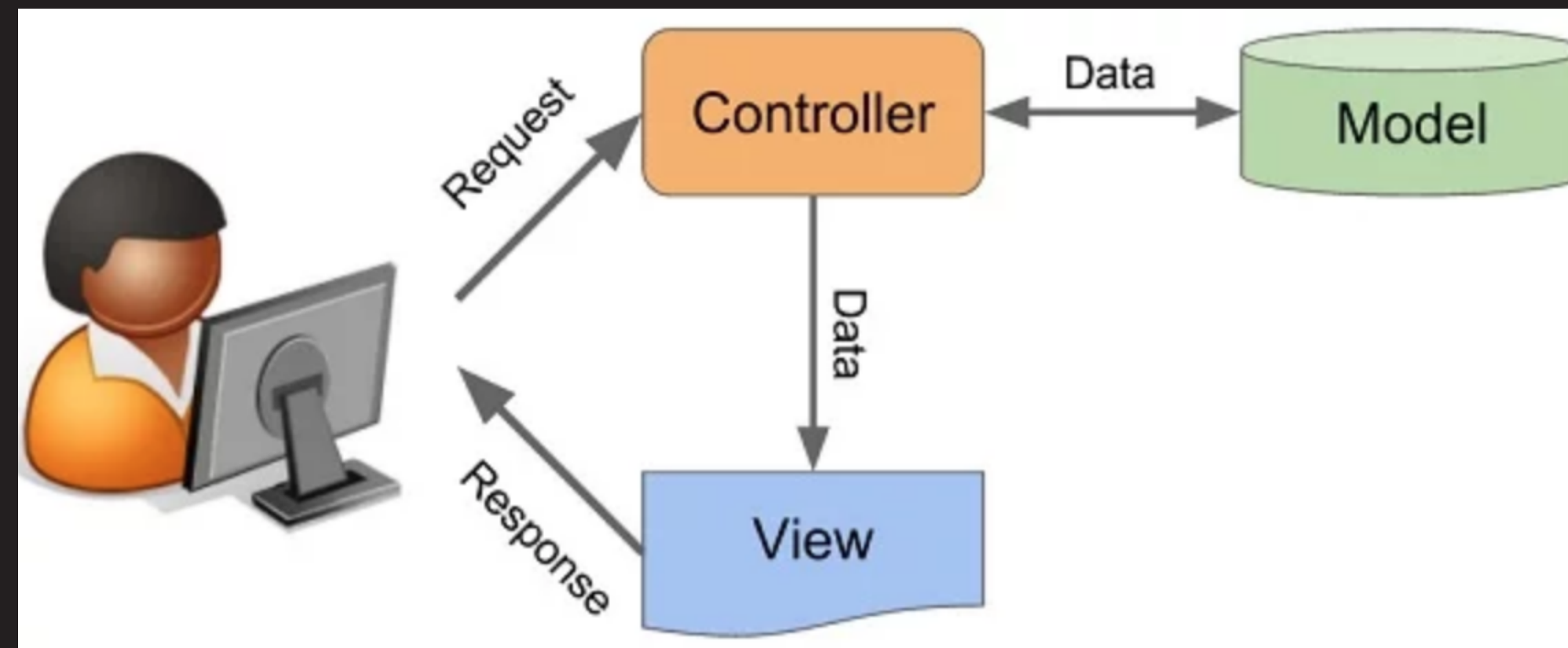
Garbage collector

Mark and Sweep

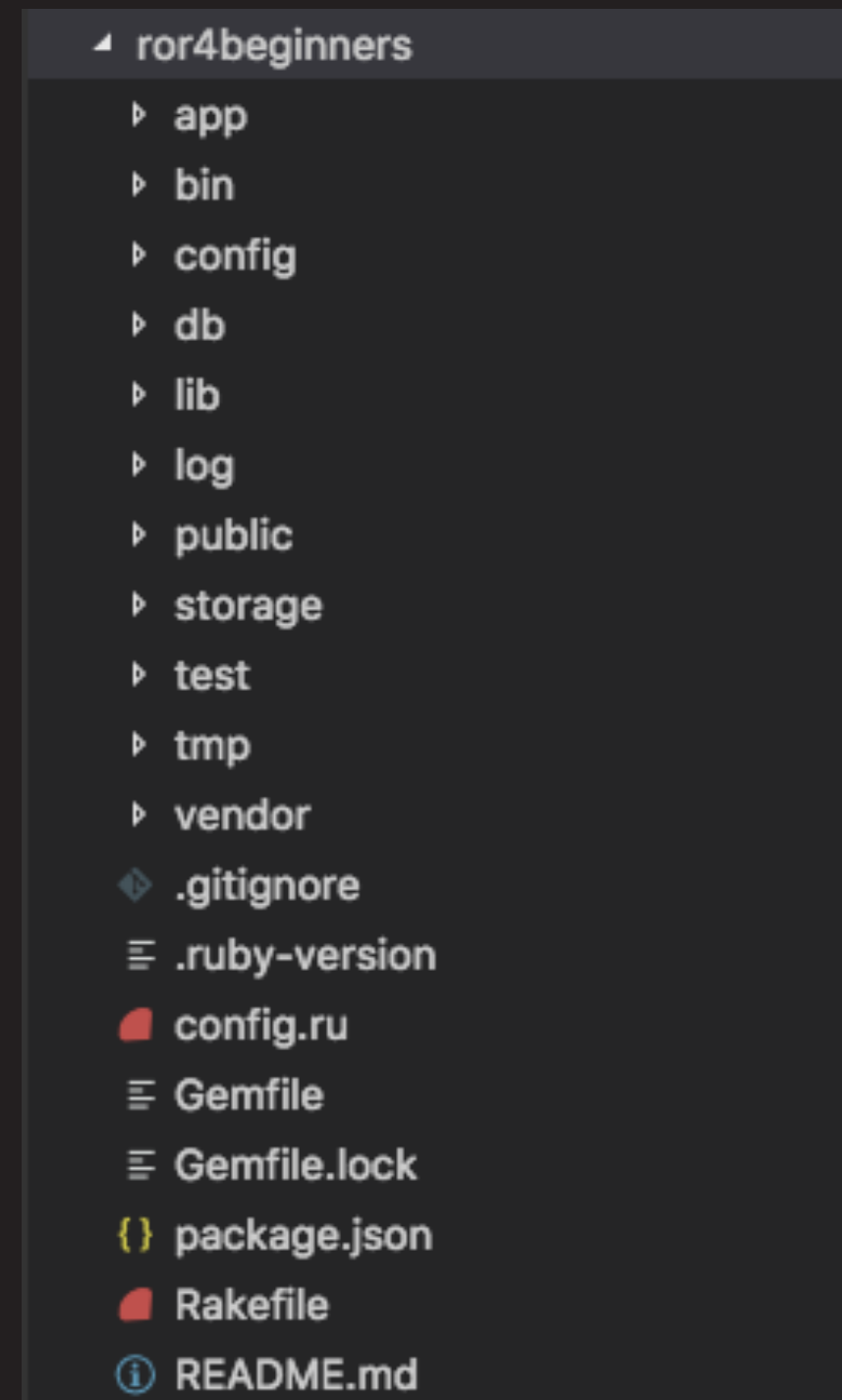
Setup

```
$ gem install rails
...
$ rails new ror4beginners
...
$ cd ror4beginners
$ rails server
```

Model View Controller

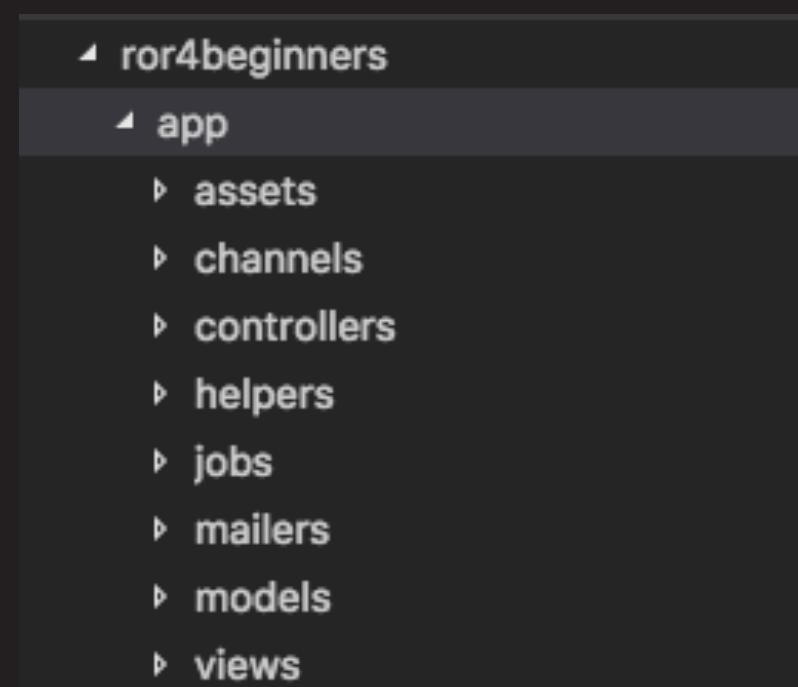


Struktura projektu



- app - core aplikacji
- config - konfiguracja
- db - baza danych i migracje
- log - logi
- public - assety publiczne
- test - testy
- Gemfile - lista gemów aplikacji

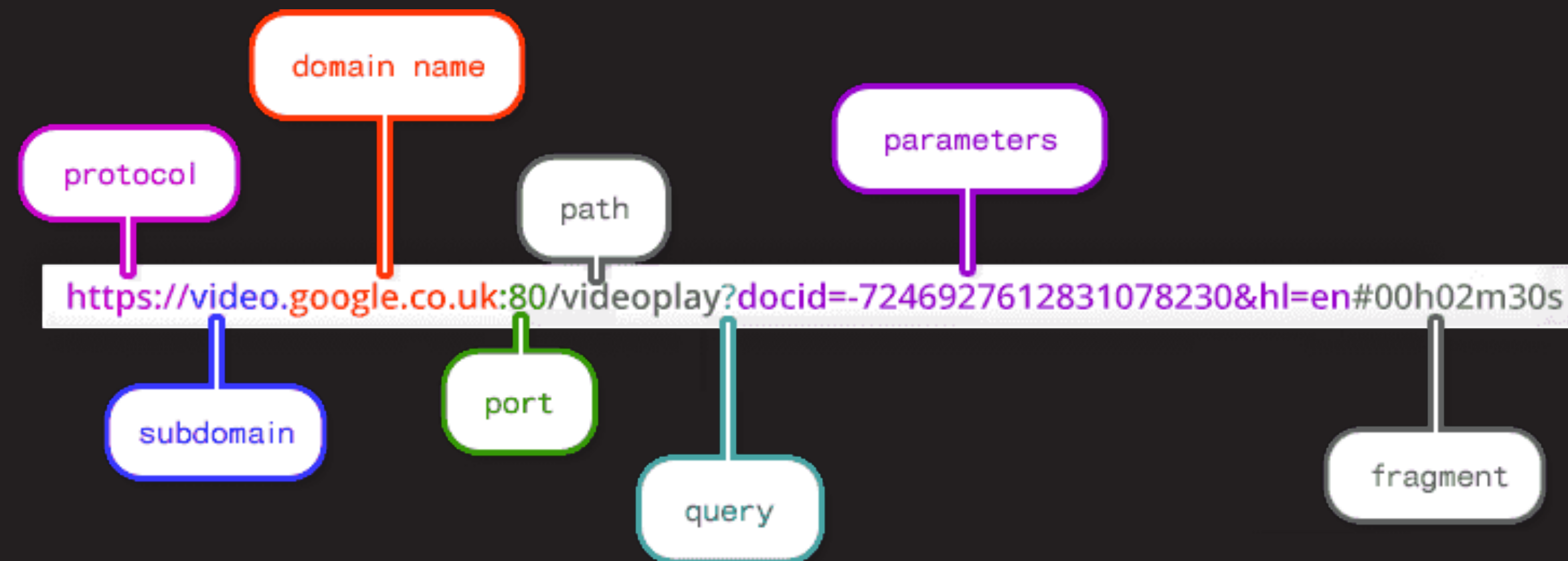
Struktura projektu



- assets - obrazki, skrypty i style
- controllers - kontrolery
- models - modele
- views - widoki

Flow

Ścieżka



Routing

```
# config/routes.rb

Rails.application.routes.draw do

  # get '/path', to: 'controller#action'
  get '/', to: 'home#welcome'

end
```

Generacja kontrolera

```
$ rails generate controller <controller> <action>
```

```
$ rails generate controller home welcome
```

Kontroler

```
# app/controllers/home_controller.rb  
  
class HomeController < ApplicationController  
  def welcome  
  end  
end
```

Widok

```
<%# app/views/home/welcome.html.erb %>
```

```
<h1>Home#welcome</h1>
```

```
<p>Find me in app/views/home/welcome.html.erb</p>
```

Widok

```
<%# app/views/home/welcome.html.erb %>
```

```
<center>  
  <h1>Hello and welcome</h1>  
</center>
```

ERB

`<%# komentarz %>`

`<% kod %>`

`<%= kod zwracający wartość %>`

ERB

```
<%# app/views/home/welcome.html.erb %>
```

```
<center>  
  <h1>Hello and welcome</h1>  
  <br/>  
  <p><%= rand(10000) %></p>  
</center>
```


Praca z widokami

Przekazywanie zmiennych

```
# app/controllers/home_controller.rb

class HomeController < ApplicationController

  def welcome
    @random = rand(10000)
  end
end
```

```
<%= app/views/home/welcome.html.erb %>

<center>
  <h1>Hello and welcome</h1>
  <br/>
  <p><%= @random %></p>
</center>
```

Helper

```
# app/helpers/home_helper.rb

module HomeHelper

  def greet
    'Hello and welcome!'
  end
end
```

```
<%# app/views/home/welcome.html.erb %>

<center>
  <h1><%= greet %></h1>
  <br/>
  <p><%= @random %></p>
</center>
```

Layout

```
<%= app/views/layouts/application.html.erb %>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>Ror4beginners</title>
```

```
    <%= csrf_meta_tags %>
```

```
    <%= csp_meta_tag %>
```

```
    <%= stylesheet_link_tag ... %>
```

```
    <%= javascript_include_tag ... %>
```

```
  </head>
```

```
  <body>
```

```
    <%= yield %>
```

```
  </body>
```

```
</html>
```

Partiale

```
<%= app/views/layouts/_header.html.erb %>
```

```
<div>  
  I am a header!  
</div>
```

```
<%= app/views/layouts/application.html.erb %>
```

```
...  
<body>  
  <%= render partial: 'layouts/header' %>  
  <%= yield %>  
</body>  
...
```

Nawigacja i media

Routes

```
# config/routes.rb
```

```
Rails.application.routes.draw do
```

```
  # get '/path', to: 'controller#action', as: :alias  
  get '/', to: 'home#welcome', as: :root  
  get '/who', to: 'home#who', as: :who
```

```
end
```

Kontroler

```
# app/controllers/home_controller.rb

class HomeController < ApplicationController

  def welcome
    @random = rand(10000)
  end

  def who
    @who = request.user_agent
  end
end
```


Widok

```
<%# app/views/home/who.html.erb %>
```

```
<center>  
  You are viewing this using:  
  <br/>  
  <h3><%= @who %></h3>  
</center>
```

Header

```
<%# app/views/layouts/_header.html.erb %>
```

```
<div>  
  <%= link_to 'Home', root_path %>  
  <%= link_to 'Who', who_path %>  
</div>
```

Media

```
└─ ror4beginners
  └─ app
    └─ assets
      ├── config
      └─ images
        ├── .keep
        └── ruby.png
      ├── javascripts
      └── stylesheets
```

- images - obrazki
- javascripts - skrypty
- stylesheets - style

Media

```
<%# app/views/home/welcome.html.erb %>
```

```
<center>  
  <h1><%= greet %></h1>  
  <br/>  
  <p><%= @random %></p>  
  <br/>  
  <%= image_tag 'ruby.png' %>  
</center>
```



Zobaczcie sami!