

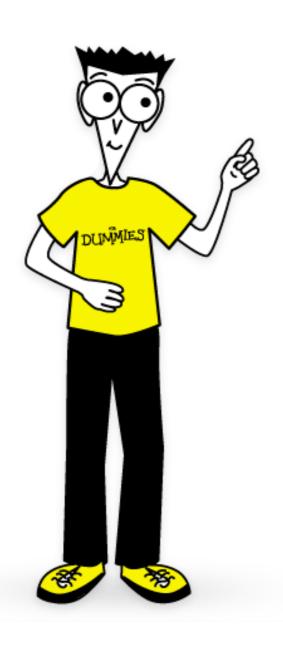


2016

Врубиться в Ruby

Лекция 21

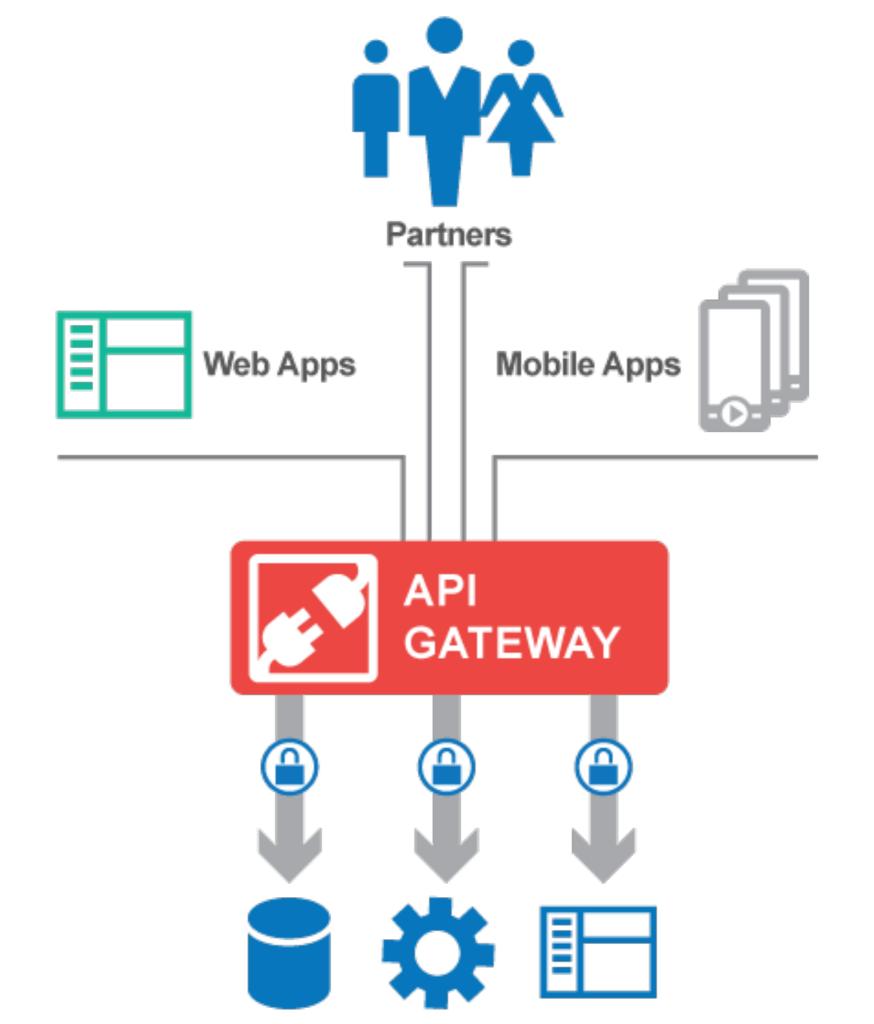
Лекция 21



- Что такое АРІ
- Какие существуют форматы данных?
- action controller, rails api или grape?
- Инструменты для тестирования API

API

API = Application Programming Interface



Форматы данных

XML

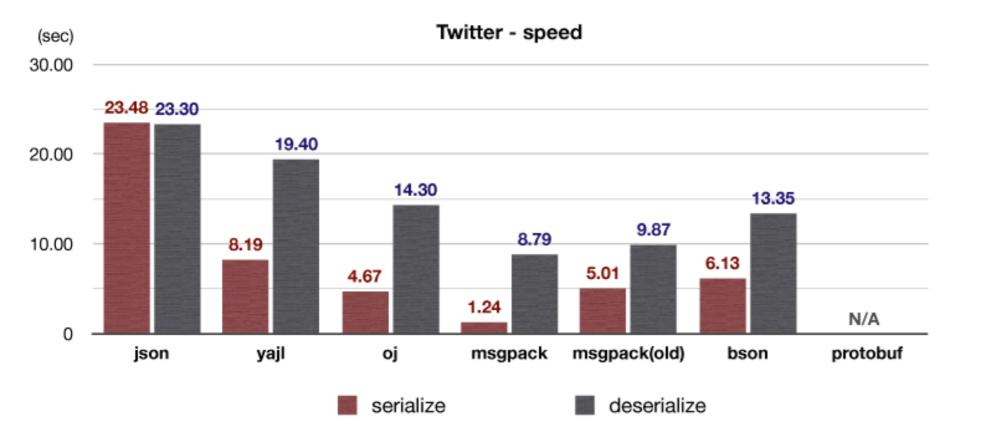
```
<Cars>
        <Car Make="Ford" Model="Fiesta">
                <Seats>4</Seats>
                <Interior>Cloth</Interior>
        </Car>
        <Car Make="Porsche" Model="911">
                <Seats>2</Seats>
                <Interior>Leather</Interior>
        </Car>
        <Car Make="Toyota" Model="Sienna">
                <Seats>8</Seats>
                <Interior>Cloth</Interior>
       </Car>
</Cars>
```

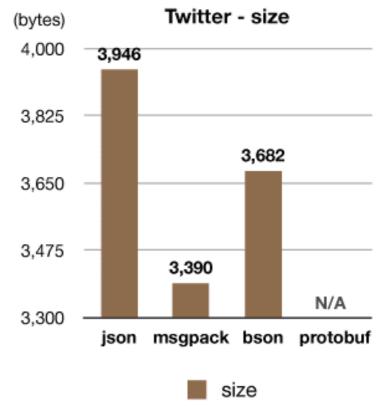


```
{ "users":[
                 "firstName": "Ray",
                 "lastName":"Villalobos",
                 "joined": {
                     "month": "January",
                     "day":12,
                     "year":2012
                 "firstName":"John",
                 "lastName":"Jones",
                 "joined": {
                     "month": "April",
                     "day":28,
                     "year":2010
    ]}
```

MsgPack

JSON 27 bytes { "compact": true, "schema": 0 } MessagePack 18 bytes compact A6 schema C3 7-byte string 6-byte string 2-element map integer 0 true





Action Controller, Rails API или Grape

Action Controller

Rails API

\$ rails new my_api --api

Grape

gem 'grape'

config.paths.add File.join('app', 'api'), glob: File.join('**', '*.rb') config.autoload_paths += Dir[Rails.root.join('app', 'api', '*')]

routes.rb

mount SuperApplication::API => '/'

```
module SuperApplication
 class API < Grape::API
  version 'v1', using: :header, vendor: 'twitter'
  format :json
  prefix :api
  helpers do
   def current_user
     @current_user ||= User.authorize!(env)
   end
   def authenticate!
     error!('401 Unauthorized', 401) unless current_user
   end
  end
```

```
resource :statuses do
 desc 'Return a public timeline.'
 get:public_timeline do
  Status.limit(20)
 end
 desc 'Return a personal timeline.'
 get:home_timeline do
  authenticate!
  current_user.statuses.limit(20)
 end
```

```
desc 'Update a status.'
params do
 requires :id, type: String, desc: 'Status ID.'
 requires :status, type: String, desc: 'Your status.'
end
put ':id' do
 authenticate!
 current_user.statuses.find(params[:id]).update({
  user: current user,
  text: params[:status]
end
```

Версионирование АРІ

Path

version 'v1', using: :path

curl http://localhost:9292/v1/statuses/public_timeline

Header

version 'v1', using: :header, vendor: 'twitter'

формат - vnd.vendor-and-or-resource-v1234+format

curl -H Accept:application/vnd.twitter-v1+json http://localhost:9292/statuses/public_timeline

Accept-Version Header

version 'v1', using: :accept_version_header

curl -H "Accept-Version:v1" http://localhost:9292/statuses/

Parameter

version 'v1', using: :param, parameter: 'v'

curl http://localhost:9292/statuses/public_timeline?v=v1

Документация

Swagger

http://swagger.io/

Blueprint

https://apiblueprint.org/

RAML

http://raml.org/

Тестирование АРІ

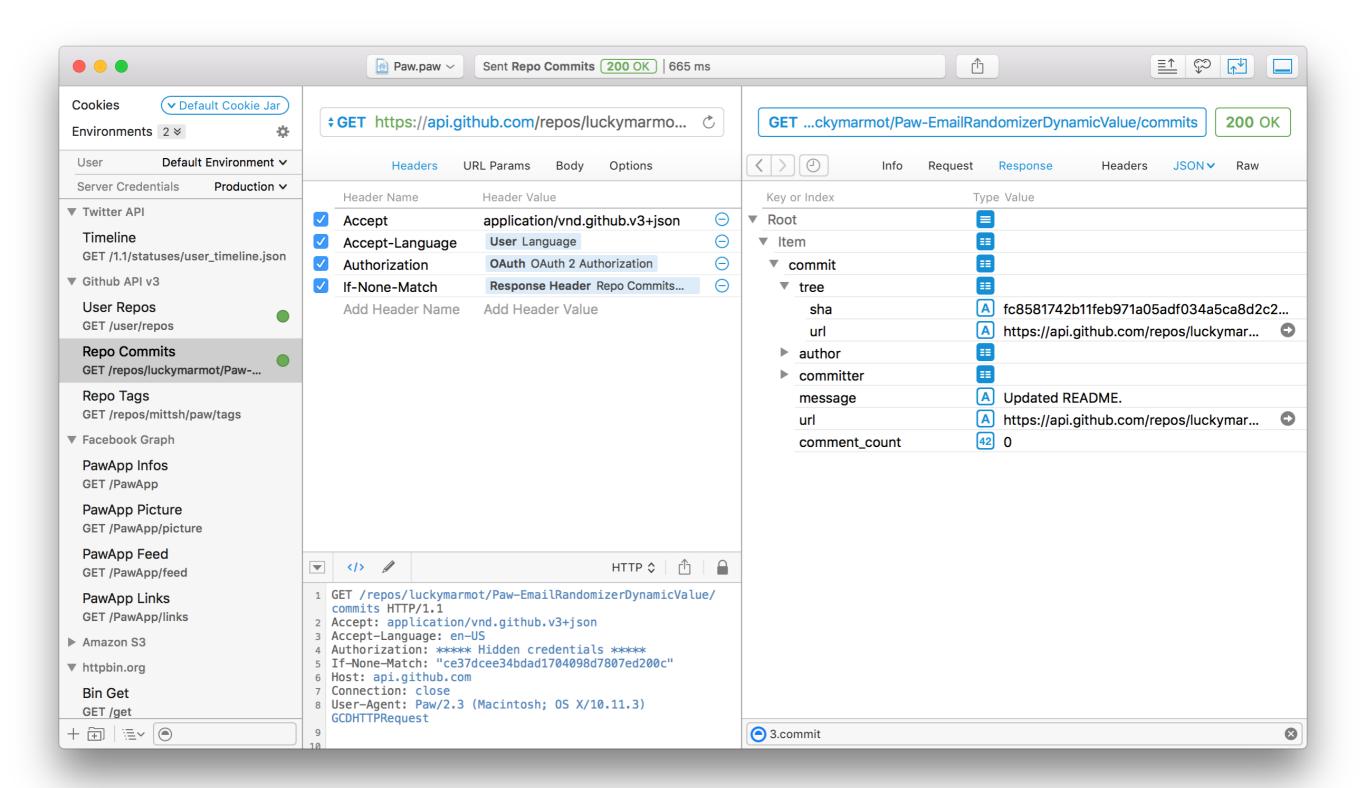
https://github.com/brooklynDev/airborne

Утилиты

https://curl.haxx.se

https://github.com/jkbrzt/httpie

https://luckymarmot.com/paw



Прочитать

http://www.datto.com/blog/a-framework-comparison-of-grapevs-railsapi-part-1-performance

https://www.toptal.com/ruby/grape-gem-tutorial-how-to-builda-rest-like-api-in-ruby

https://blog.codeship.com/building-a-json-api-with-rails-5/

https://blog.pivotal.io/pivotal-labs/labs/api-versioning

https://habrahabr.ru/company/geekfamily/blog/256495/

Практика

Вопросы?

+7 (926) 889-16-32

alec@alec-c4.com

http://alec-c4.com/