

A Rails App in a Single File

Reverse Archeology Through Ruby Golf

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fangamer

humblebundle.com/weekly

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And now for something
completely useless.

A Rails App in a Single File

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Don't try this at work.

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You can use Rails modules independently.

Start with Rack

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config.ru

```
require 'rubygems'  
require 'bundler/setup' # Gemfile only lists 'rack'  
  
run Proc.new {|env|  
  if env["PATH_INFO"] == "/"  
    [200,  
     {"Content-Type" => "text/html"},  
     ["<h1>Front Page</h1>"]  
    ]  
  else  
    [404,  
     {"Content-Type" => "text/html"},  
     ["<h1>Not Found</h1>"]  
    ]  
  end  
}
```

config.ru

```
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require 'bundler/setup' # Gemfile only lists 'rack'

run Proc.new {|env|
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  else
    [404,
     {"Content-Type" => "text/html"}, 
     ["<h1>Not Found</h1>"]
    ]
  end
}
```

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    ]
  end
}
```

config.ru

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  else
    [404,  

     {"Content-Type" => "text/html"},  

      ["<h1>Not Found</h1>"]
    ]
  end
}
```

All you need is the routes,
the controllers, the views,
and everything else.

config.ru

```
# Gemfile lists 'rack', 'actionpack'  
  
require 'rubygems'  
require 'bundler/setup'  
  
require 'action_dispatch'
```

config.ru

```
# Gemfile lists 'rack', 'actionpack'  
  
require 'rubygems'  
require 'bundler/setup'  
  
require 'action_dispatch'  
  
routes = ActionDispatch::Routing::RouteSet.new
```

config.ru

```
# Gemfile lists 'rack', 'actionpack'

require 'rubygems'
require 'bundler/setup'

require 'action_dispatch'

routes = ActionDispatch::Routing::RouteSet.new

routes.draw do
  get '/' => 'mainpage#index'
  get '/page/:id' => 'mainpage#show'
end
```

config.ru (continued)

```
class MainpageController  
end
```

config.ru (continued)

```
class MainpageController
  def self.action(method)
    end
end
```

config.ru (continued)

```
class MainpageController
  def self.action(method)
    lambda do
      end
    end
  end
end
```

config.ru (continued)

```
class MainpageController
  def self.action(method)
    lambda do
      if method == "index"
        [200, {"Content-Type" => "text/html"}, ["<h1>Front Page</h1>"]]
      end
    elsif method == "show"
      [404, {"Content-Type" => "text/html"}, ["<h1>Not Found</h1>"]]
    end
  end
end
```

config.ru (continued)

```
class MainpageController
  def self.action(method)
    controller = self.new
    controller.method(method.to_sym)
  end
end
```

config.ru (continued)

```
class MainpageController
  def self.action(method)
    controller = self.new
    controller.method(method.to_sym)
  end

  def index(env)
    [200, {"Content-Type" => "text/html"}, ["<h1>Front
Page</h1>"]]
  end

  def show(env)
    [200, {"Content-Type" => "text/html"}, ["<pre>
#{env['action_dispatch.request.path_parameters'][{:id}]}
</pre>"]]
  end
end
```

config.ru (partial)

```
require 'action_controller'

class MainpageController < ActionController::Metal
end
```

config.ru (partial)

```
require 'action_controller'

class MainpageController < ActionController::Metal
  def index
    self.response_body = "<h1>Front Page</h1>"
  end
end
```

config.ru (partial)

```
require 'action_controller'

class MainpageController < ActionController::Metal
  def index
    self.response_body = "<h1>Front Page</h1>"
  end

  def show
    self.status = 404
    self.response_body =
"<pre>#{env['action_dispatch.request.path_parameters'][:id]}</pre>"
  end
end
```

config.ru (overview)

```
#require...

routes = ActionDispatch::Routing::RouteSet.new

routes.draw do
  get '/' => 'mainpage#index'
  get '/page/:id' => 'mainpage#show'
end

class MainpageController
  ...
end

run routes
```

config.ru (overview)

```
#require...

routes = ActionDispatch::Routing::RouteSet.new

routes.draw do
  get '/' => 'mainpage#index'
  get '/page/:id' => 'mainpage#show'
end

class MainpageController
  ...
end

run routes
```

That's Rails in a single
Rackup file.

config.ru (overview)

```
#require...

routes = ActionDispatch::Routing::RouteSet.new

routes.draw do
  get '/' => 'mainpage#index'
  get '/page/:id' => 'mainpage#show'
end

class MainpageController
  ...
end

use ActionDispatch::DebugExceptions
run routes
```

config.ru (partial)

```
class MainpageController < ActionController::Metal
  include AbstractController::Callbacks

  ...
end
```

config.ru (partial)

```
class MainpageController < ActionController::Metal
  include AbstractController::Callbacks
  include ActionController::Redirecting

  ...
end
```

config.ru (partial)

```
class MainpageController < ActionController::Metal
  include AbstractController::Callbacks
  include ActionController::Redirecting
  include ActionController::UrlFor
  include routes.url_helpers

  ...
end
```

config.ru (partial)

```
class MainpageController < ActionController::Metal
  def index
    template = ERB.new(File.read('filename.erb'))
    @local_var = 12345
    self.response_body = template.result(binding)
  end
end
```

config.ru (partial)

```
class MainpageController < ActionController::Metal
  include AbstractController::Rendering
  include ActionController::Rendering
  include ActionController::ImplicitRender
  def index
    @local_var = 12345
  end

  def render_to_body(*args)
    template = ERB.new File.read("#{params[:action]}.html.erb")
    template.result(binding)
  end
end
```

config.ru (partial)

```
require 'action_view'

class MainpageController < ActionController::Metal
  include AbstractController::Rendering
  include ActionView::Rendering
  include ActionController::Rendering
  include ActionController::ImplicitRender

  prepend_view_path('app/views')

  def index
    @local_var = 12345
  end
end
```

config.ru (partial)

```
# include ALL THE THINGS

class MainpageController < ActionController::Base
  prepend_view_path('/path/to/templates')

  def index
    @local_var = 12345
  end
end
```

config.ru

```
#require...

routes = ActionDispatch::Routing::RouteSet.new

routes.draw do
  get '/' => 'mainpage#index'
  get '/page/:id' => 'mainpage#show'
end

class MainpageController < ActionController::Base
...
end

run routes
```

That is the bare essentials
for a Rails app to go from
request to response.

I hope this was
enlightening to show
modular Rails internals
and/or
inspired you on your next
thin-sized mini app.

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