LESSON 12

app.rb

```ruby
require "sinatra"
get "/" do
  "Salaam!"
end
```

Ruby

Build a Web App

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RUBY PROGRAMMING

LESSON 12

Project: A Web App with Sinatra

Routes, params, ERB views, a JSON endpoint, and a look at Rails

Sinatra in Five Lines

app.rb

```ruby
require "sinatra"

get "/" do
  "Salaam from Ruby!"
end

# $ bundle add sinatra puma
# $ ruby app.rb   →  http://localhost:4567
```

- Sinatra is a tiny web framework. A route is an HTTP verb, a path, and a block whose return …
- Install it with Bundler, run the file, and open localhost port 4567.

01

Routes and Params

app.rb

```ruby
BOOKS = []

get "/books/:id" do
  book = BOOKS[params[:id].to_i] or halt 404, "Not found"
  "#{book[:title]} by #{book[:author]}"
end

post "/books" do
  BOOKS << { title: params[:title], author: params[:author] }
  redirect "/books"
end
```

- Colon names in a path become params. Query strings and form fields arrive in params too.
- post routes receive submitted forms, and redirect sends the browser to another page.

02

ERB Views

views/books.erb

```
<h1>Library</h1>
<ul>
  <% @books.each do |b| %>
    <li><%= b[:title] %> — <%= b[:author] %></li>
  <% end %>
</ul>

# app.rb:  get("/books") { @books = BOOKS; erb :books }
```

- ERB templates mix HTML with Ruby. Less-than percent equals inserts a value, and less-than …
- Put templates in a views folder, and render one with erb and its name.

03

A JSON API Endpoint

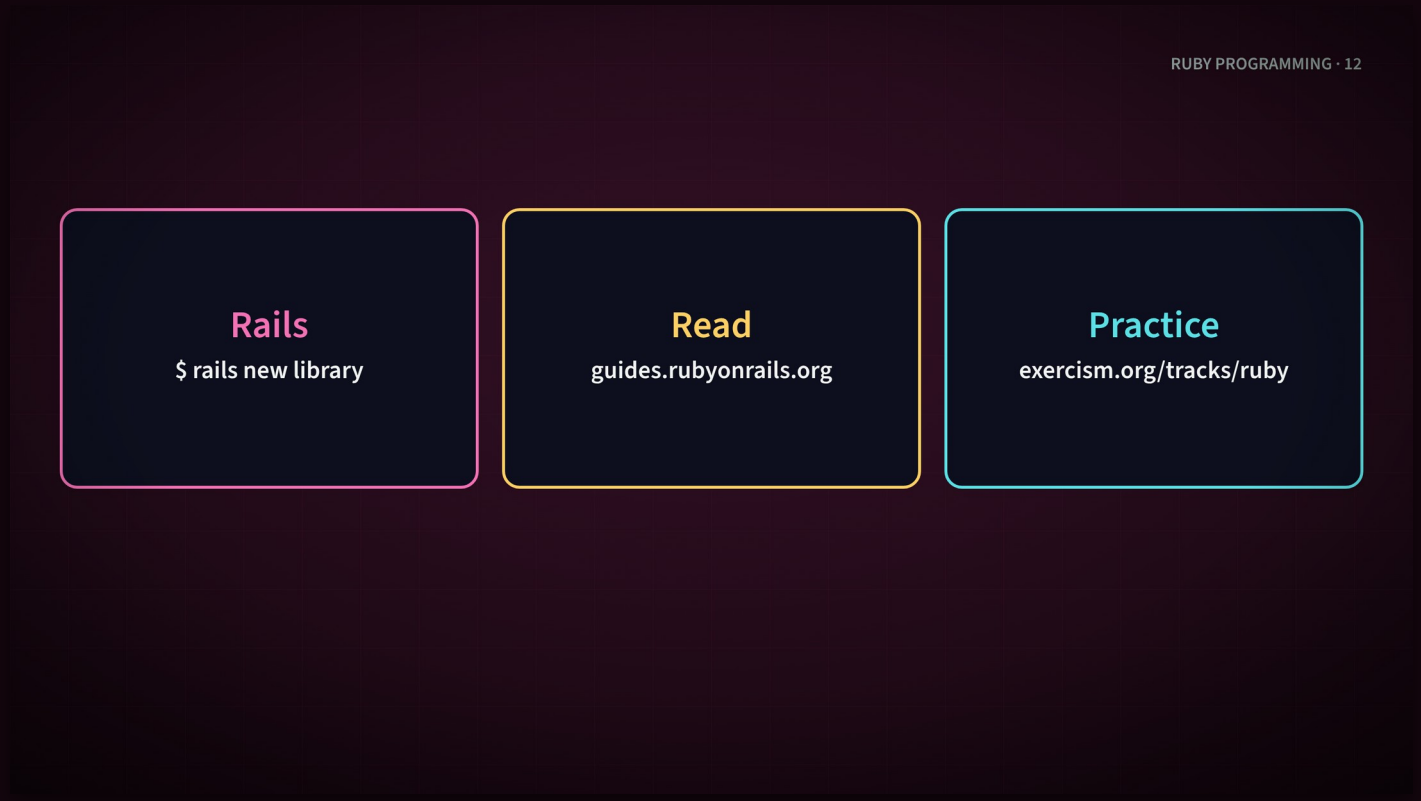
terminal

```
# app.rb
get "/api/books" do
  content_type :json
  BOOKS.to_json
end
$ curl localhost:4567/api/books
[{"title":"Shahnameh","author":"Ferdowsi"}]
```

- Set the content type to JSON and return to_json. The same app now serves both web pages and …
- Test it with curl from the terminal.

04

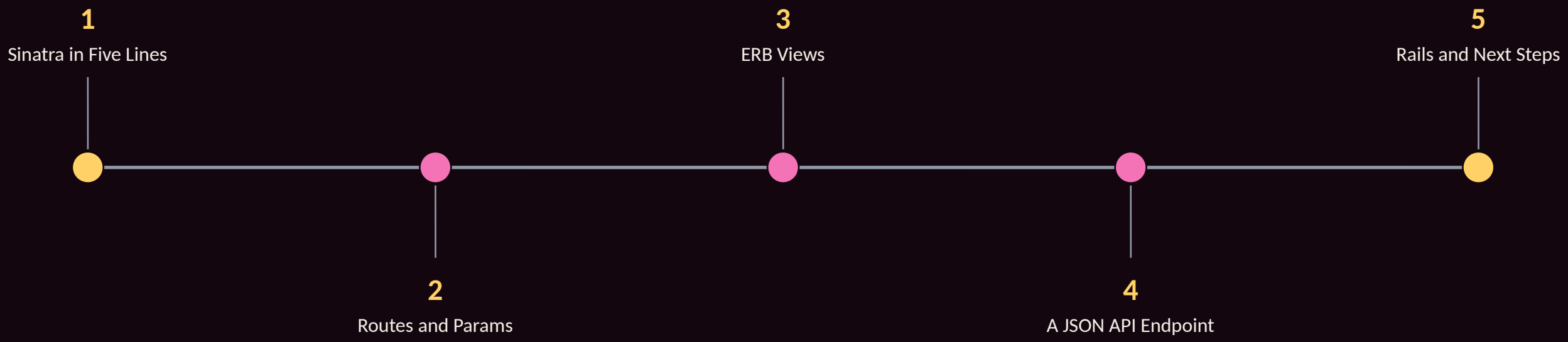
Rails and Next Steps



- Rails — $ rails new library
- Read — guides.rubyonrails.org
- Practice — exercism.org/tracks/ruby

05

Lesson Map


1
Sinatra in Five Lines
2
Routes and Params
3
ERB Views
4
A JSON API Endpoint
5
Rails and Next Steps

Sources and Further Reading

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end

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RUBY PROGRAMMING · 12

views/books.erb

```erb
<h1>Library</h1>
<ul>
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  <% end %>
</ul>

# app.rb:  get("/books") { @books = BOOKS; erb :books }
```

Thank you for watching

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