Rails View Components

• Joel Hawksley @ Github

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- Inspired by React

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- Rails 6.1



. NO

• erb

. NO

- erb
- slim

. NO

- erb
- slim
- haml

Scaffold Code

rails new view_components_demo
rails generate scaffold Post title:string body:text

app/views/posts/_form.html.erb

app/views/posts/_form.html.erb

app/components/form_component.html.erb

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app/components/form_component.rb

```
class FormComponent < ViewComponent::Base
    def initialize(post:)
        @post = post
    end
end</pre>
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app/views/posts/new.html.erb

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<h1>New Post</h1>
<%= render 'form', post: @post %>
<%= link_to 'Back', posts_path %>
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app/views/posts/new_with_component.html.erb

```
<h1>New Post</h1>
<%= render FormComponent.new(post: @post) %>
<%= link_to 'Back', posts_path %>
```

app/views/posts/new_with_component.html.erb

```
<h1>New Post</h1>
<%= render FormComponent.new(post: @post) %>
<%= link_to 'Back', posts_path %>
```

Easy to use, must be difficult to set up.. right?

```
#Gemfile
gem 'view_component'

#config/application.rb
require "view_component/engine"
```

Performance

Reuse

- Performance
- Reuse
- Testing

```
# app/controllers/posts_controller.rb
# GET /posts/new
def new
  @post = Post.new
  render 'new_with_component' if params[:use_component].present?
end
```

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```
• O I view_components_demo — fsevent_watch → localhost:3000) [view_components_demo] __GIT_PROMPT_IGNORE_STASH= rvm_bin_path=/Users/joesimms/.rvm/bin — 111×36
        ~/Repos/view_components_demo — fsevent_watch - localhost:3000) [view_components_demo] __GIT_PROMPT_IGNORE_STASH= rvm_bin_path=/Users/joesimms/.rvm/bin
Started GET "/posts/new?use component=true" for ::1 at 2020-07-08 13:30:39 -0300
Processing by PostsController#new as HTML
 Parameters: {"use component"=>"true"}
 Rendering posts/new with component.html.erb within layouts/application.
 Rendered posts/new with component.html.erb within layouts/application (Duration: 14.6ms | Allocations: 15193)
Completed 200 OK in 18ms (Views: 18.0ms | ActiveRecord: 0.0ms | Allocations: 18771)
Started GET "/posts/new" for ::1 at 2020-07-08 13:30:44 -0300
Processing by PostsController#new as HTML
 Rendering posts/new.html.erb within layouts/application
 Rendered posts/ form.html.erb (Duration: 1.2ms | Allocations: 713)
 Rendered posts/ form.html.erb (Duration: 0.8ms | Allocations: 691)
 Rendered posts/ form.html.erb (Duration: 1.0ms | Allocations: 691)
 Rendered posts/ form.html.erb (Duration: 0.7ms | Allocations: 691)
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 Rendered posts/_form.html.erb (Duration: 0.7ms | Allocations: 691)
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 Rendered posts/ form.html.erb (Duration: 1.3ms | Allocations: 691)
 Rendered posts/ form.html.erb (Duration: 1.0ms | Allocations: 691)
 Rendered posts/new.html.erb within layouts/application (Duration: 20.8ms | Allocations: 15626)
completed zww uk in zoms (views: zb.sms | Activekecord: w.wms | Allocations: 1855w)
```

Reuse

Reuse

Wherever you can use a partial, you can use a component.

Reuse

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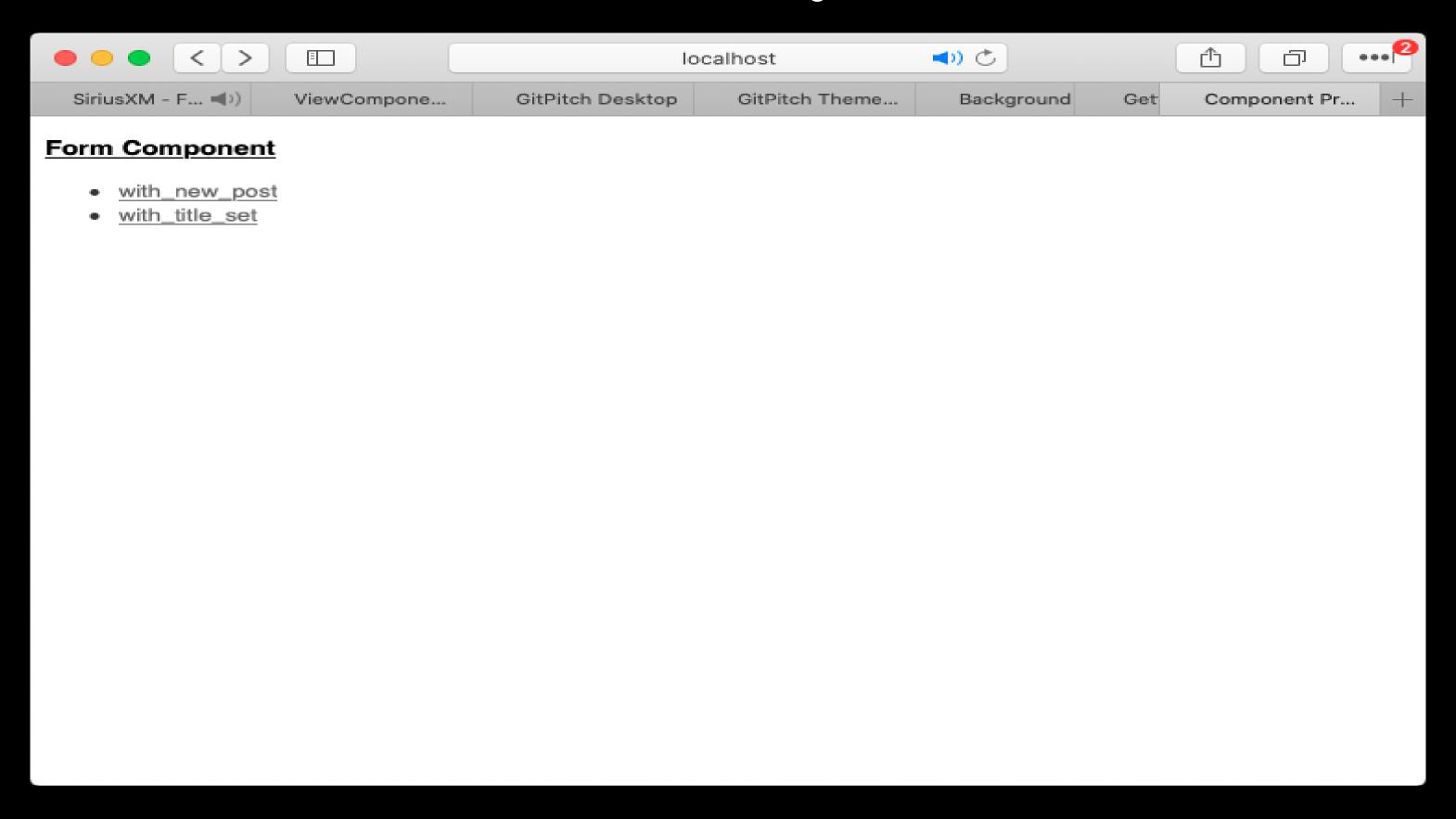
Previews make it easy to see what is already built

Previews

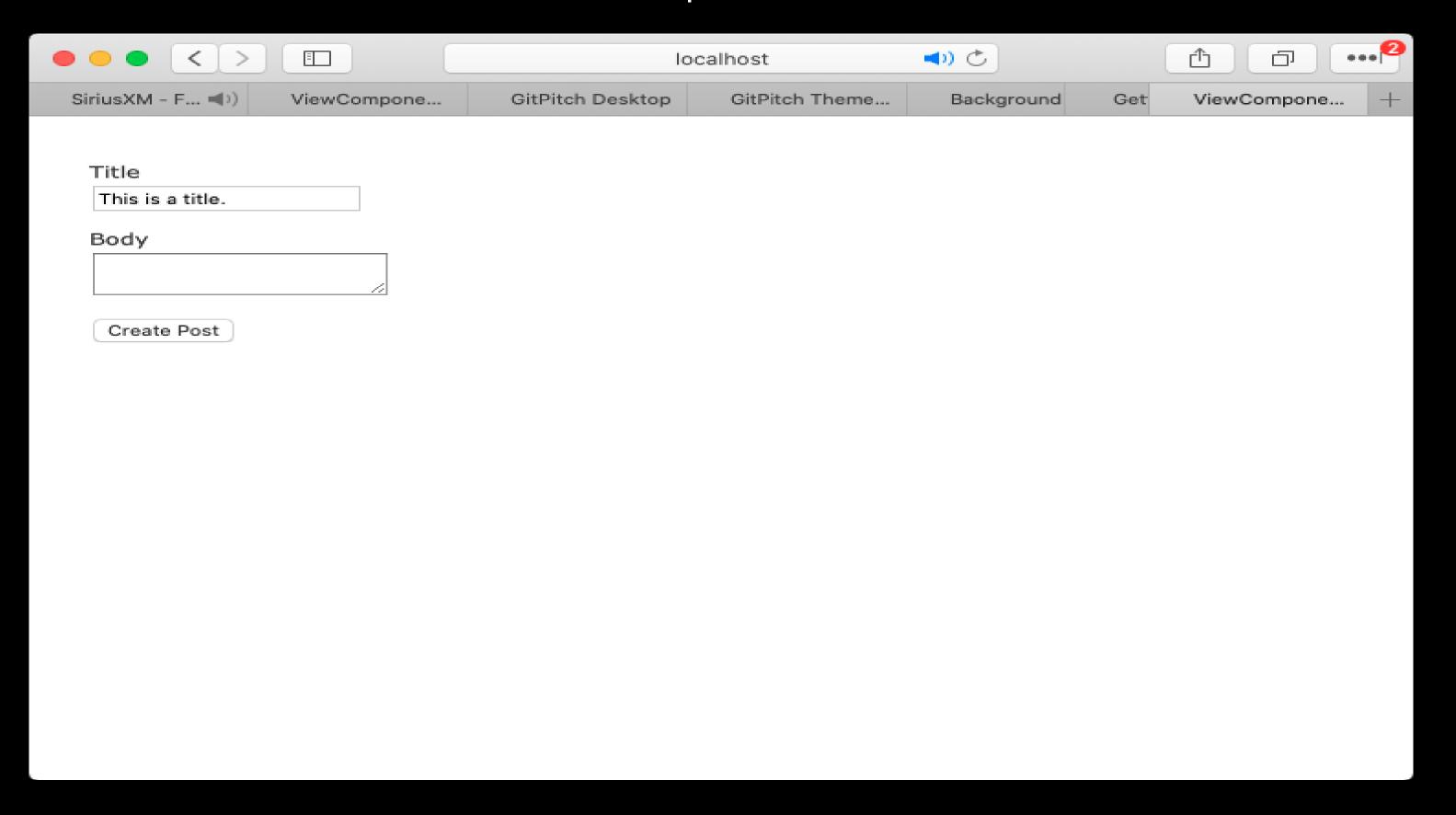
```
#test/components/previews/form_component_preview.rb
class FormComponentPreview < ViewComponent::Preview
    def with_new_post
        render(FormComponent.new(post: Post.new))
    end

def with_title_set
        render(FormComponent.new(post: Post.new(title: 'Title.')))
    end
end</pre>
```

Preview listing



Form Component Preview



```
#test/components/form_component_test.rb
require "view_component/test_case"
class FormComponentTest < ViewComponent::TestCase
    test "render component" do
        post = Post.new(title: 'Title.')
        result = render_inline(FormComponent.new(post: post))
        assert_includes result.css("input[type='text']").to_html,
'value="Title."'
    end
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Links

Joel Hawksley
github/view_component
Rails 6.1 Component Documentation
This Code and Presentation
GitPitch

Questions?

joe@joesim.ms