

BEWD - Routes Controllers & Views

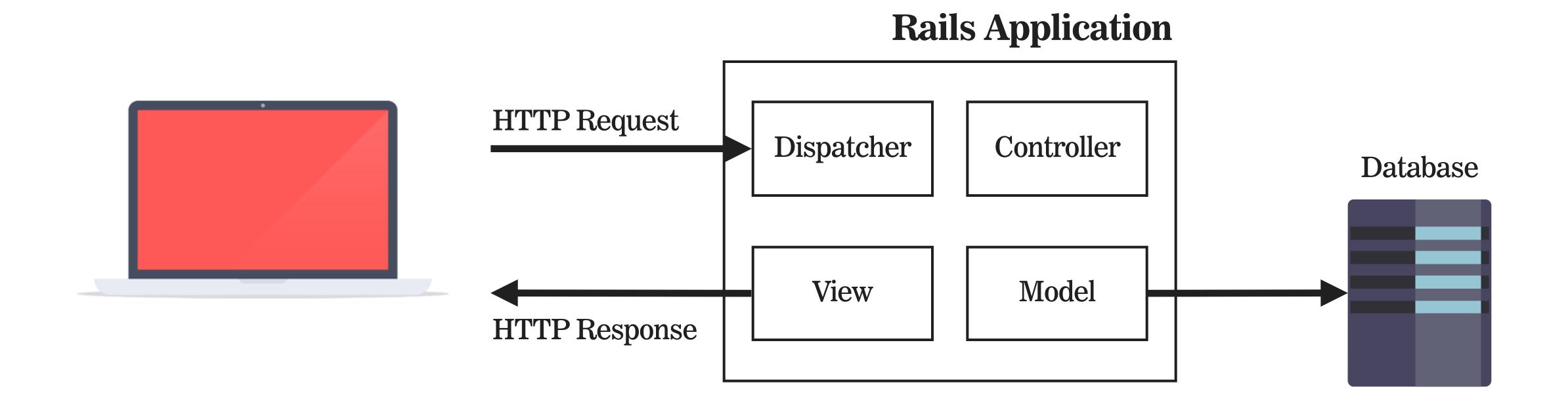
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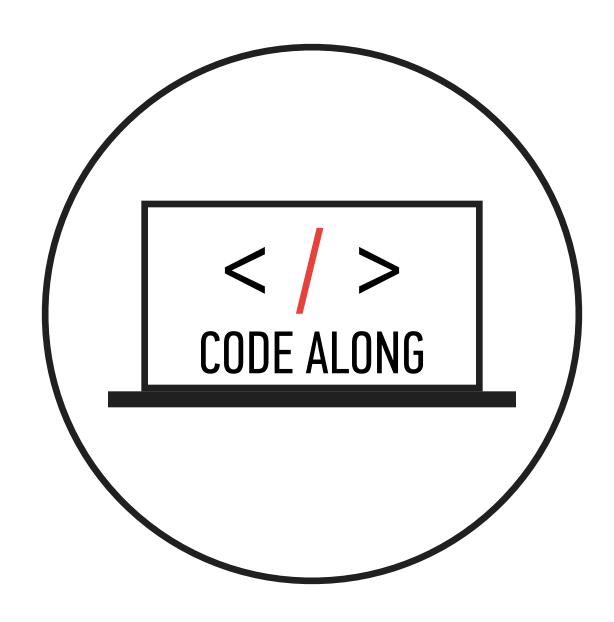
AGENDA

Learning Objective: Understand flow of control in a Rails app.

- » Routes
- » Controllers
- » Views
- » Lab Time

REQUEST RESPONSE





Games on Rails

DISPATCHER

ROUTES.RB

- » Located at config/routes.rb
- » Maps URLs to your code
- » Current routes: `\$ rake routes`
- » Rails 4 displays current routes at: http://localhost:3000/rails/info/routes

ROUTES

HTTP VERBS

GET, POST, PUT/PATCH, DELETE

HTTP Verb	Path	Action	Used For
GET	/books	index	display all books
GET	/books/new	new	return an HTML form for creating a new book
P0ST	/books	create	create a new book
GET	/books/:id	show	display a specific book
GET	/books/:id/edit	edit	return an HTML form for editing a book
PUT	/books/:id	update	update a specific book
DELETE	/books/:id	destroy	delete a specific book

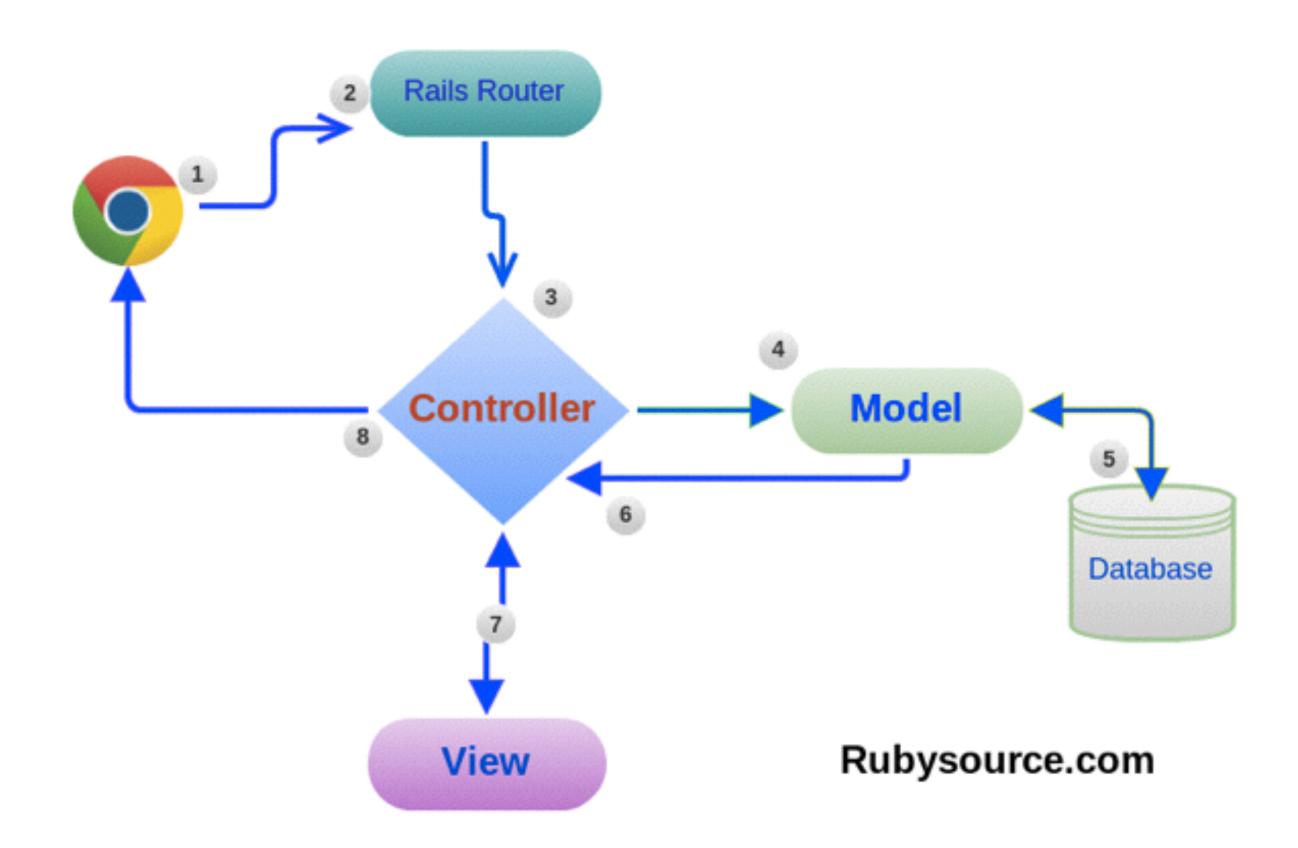
HTTP VERBS

HOW THINGS ARE CALLED

- » GET
 - » Visiting a web page
 - » Clicking a link
- » POST
 - » Submitting a form
 - » Creating something new
- » PUT
 - » Updating an existing resource
- » DELETE
 - » Deleting an existing resource!

MODEL, VIEW CONTROLLER

AKA MVC



MVC

ROUTES TO CONTROLLER

Controllers:

- » Render a View
- » Redirect to another view

CONTROLLER

CONTROLLERS ARE OBJECTS!

- » Responsible for parsing user request
- » They can display some text to the browser, redirect to another path or send an error message.
- » Contains actions (aka functions)

CONTROLLER

METHODS

- » Recall: methods are "def blocks" in Ruby classes.
- » Controllers are also classes, like any other.
- » However, methods inside a controller are not like any other method; they are special (called Controller Actions)
- » A Rails action gets invoked when a route matches to that controller/action combination
- » Note: a private/protected method in a controller is NOT an action (you cannot hit that method via a URL). You can use private/protected methods to have helper methods inside a controller without being actions.

CONTROLLER

PARAMS

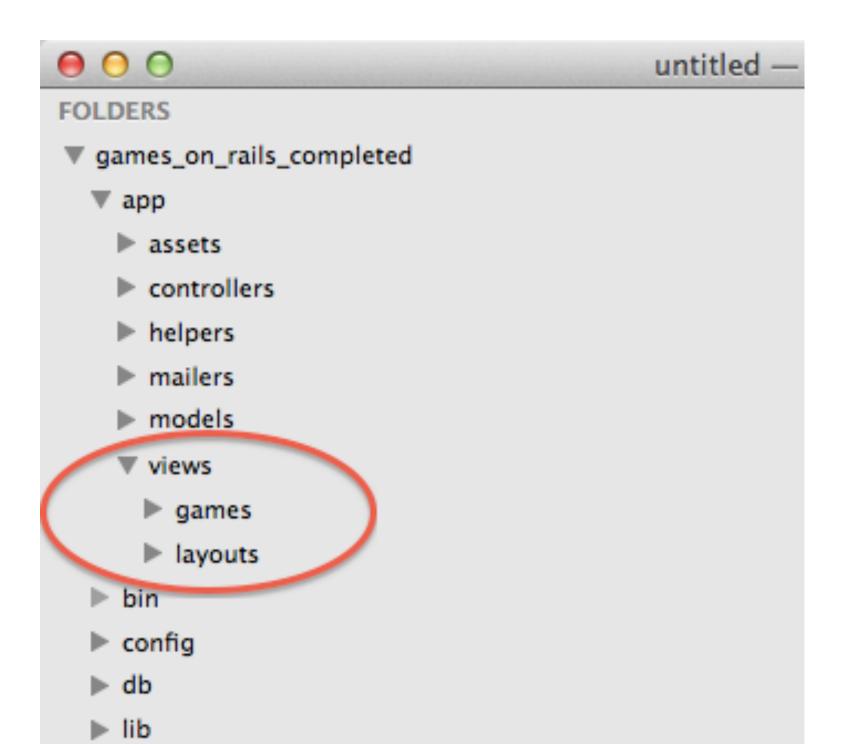
http://localhost:3000/games/secret_number/7

» 7 is a param, based on URL convention in the routes

MVC

CONTROLLERS TO VIEWS

- » Views can be rendered directly by the controller
 - » Note: Not scalable when HTML file gets more complex
- » By default your controller renders the view named: <controller_name>/<action_name>.html.erb



VIEWS

HTML.ERB

- » Can write html
- » Can write pure ruby

VIEWS

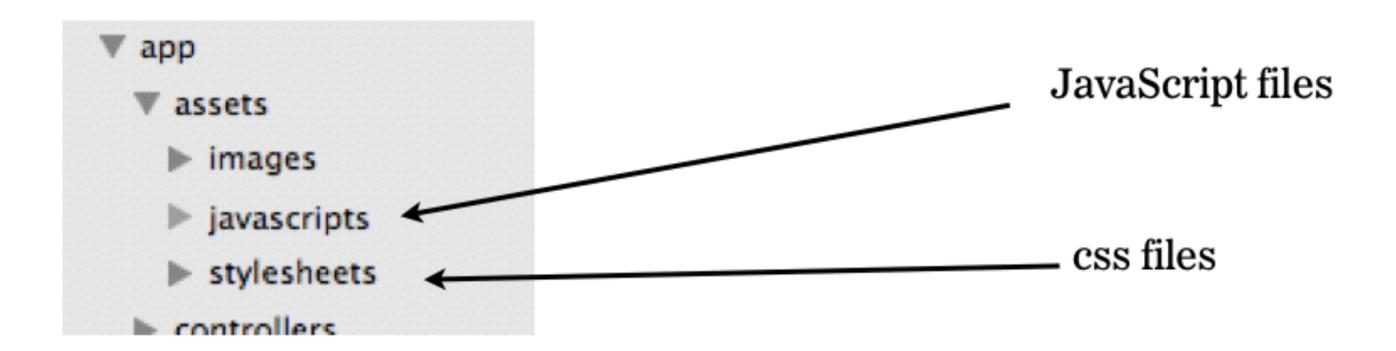
APPLICATION.HTML.ERB

- » All views are wrapped inside application.html.erb
- » It loads the assets
- » It sets up the meta tags, titles etc...
- » You can render no layout or a different layout

VIEWS

ASSETS FOLDER

» Keeps javascript files, stylesheets, and images



HOMEWORK

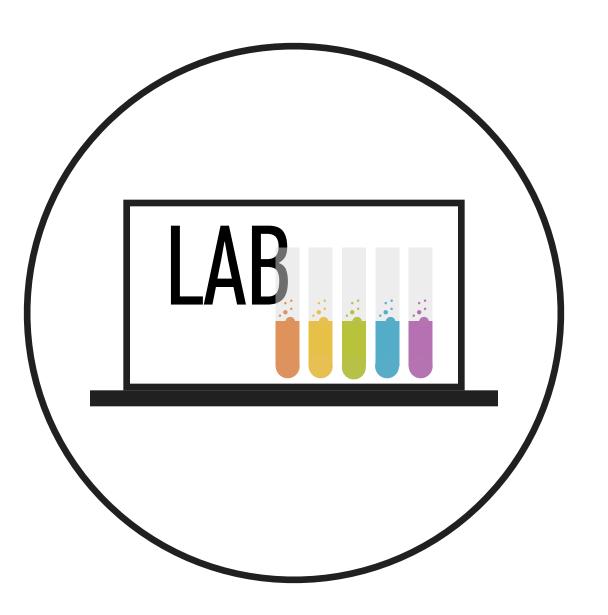
Final Project proposal due next week!

Objectives:

- » Demonstrate understanding of all topics covered during this course.
- » Apply knowledge gained during this course by building a web application from the ground up.

Requirements:

» final_project_requirements.md



Add Rock Paper Scissors to Games on Rails