

In this lecture, we will discuss...

- ✧ How routing works
- ✧ Rake
- ✧ How to analyze your current routes

Routes

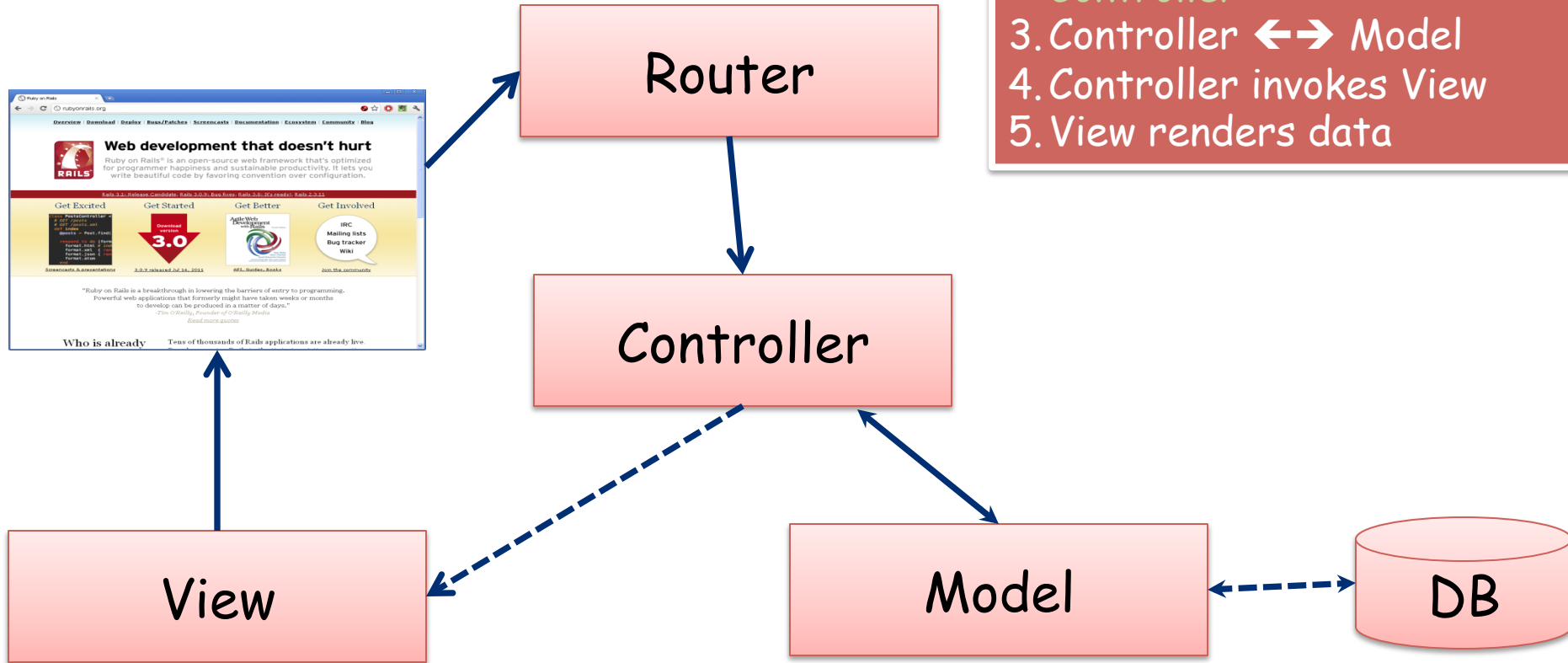
- ✧ It turns out - **we are missing an important piece**

Routing

- ✧ Before the Controller can **orchestrate where the web request goes** - the web request **needs to get routed** to the Controller
- ✧ So, how did the **hello** action work?
- ✧ The route for **hello** action was **automatically generated** (during **rails g controller**)

MVC(R) Cycle

1. Request sent
2. Router routes request to Controller
3. Controller \leftrightarrow Model
4. Controller invokes View
5. View renders data



routes.rb

- ✧ All the routes **need to be specified** (either generated by rails generators or manually) in the `config/routes.rb` file

So, what does `config/routes.rb` look like?

config/routes.rb

FOLDERS

- ▼ my_first_app
 - ▶ app
 - ▶ bin
 - ▼ config
 - ▶ environments
 - ▶ initializers
 - ▶ locales
 - application.rb
 - boot.rb
 - database.yml
 - environment.rb
 - routes.rb
 - secrets.yml

routes.rb

```
1 Rails.application.routes.draw do
2   get 'greeter/hello'
3
4   # The priority is based upon order of creation: first created -> highest priority.
5   # See how all your routes lay out with "rake routes".
6
7   # You can have the root of your site routed with "root"
8   # root 'welcome#index'
9
10  # Example of regular route:
11  #   get 'products/:id' => 'catalog#view'
12
13  # Example of named route that can be invoked with purchase_url(id: product.id)
14  #   get 'products/:id/purchase' => 'catalog#purchase', as: :purchase
15
16 end
```

Let's add the route for the goodbye action



New config/routes.rb

routes.rb

```
Rails.application.routes.draw do
  # get 'greeter/hello'

  # SAME AS ABOVE
  get 'greeter/hello' => "greeter#hello"
  get 'greeter/goodbye'

  # The priority is based upon order of creation: first created -> highest priority.
  # See how all your routes lay out with "rake routes".

  # You can have the root of your site routed with "root"
  # root 'welcome#index'
end
```

Controller

Action

←

localhost:3000/greeter/goodbye

Bye, Joe



Rake

- ✧ Ruby's build language
 - Ruby's **make**
 - No XML - **written entirely** in Ruby
- ✧ Rails uses rake to **automate app-related tasks**
 - Database, running tests, etc.
- ✧ To see a **list of rake tasks** for your app:
 - **rake --tasks**



Rake Tasks

```
~/my_first_app$ rake --tasks
rake about                                # List versions of all Rails framew...
rake assets:clean[keep]                  # Remove old compiled assets
rake assets:clobber                      # Remove compiled assets
rake assets:environment                  # Load asset compile environment
rake assets:precompile                   # Compile all the assets named in c...
rake cache_digests:dependencies          # Lookup first-level dependencies f...
rake cache_digests:nested_dependencies  # Lookup nested dependencies for TE...
rake db:create                          # Creates the database from DATABAS...
rake db:drop                            # Drops the database from DATABASE_...
rake db:fixtures:load                   # Load fixtures into the current en...
rake db:migrate                         # Migrate the database (options: VE...
rake db:migrate:status                  # Display status of migrations
rake db:rollback                        # Rolls the schema back to the prev...
rake db:schema:cache:clear              # Clear a db/schema_cache.dump file
rake db:schema:cache:dump               # Create a db/schema_cache.dump file
rake db:schema:dump                     # Create a db/schema.rb file that i...
```



Individual Rake Task

- ✧ You can **zero-in** on an individual rake task and **what it does** with a `--describe` flag
- ✧ `rake --describe task_name`

```
~/my_first_app$ rake --describe routes
```

```
rake routes
```

```
Print out all defined routes in match order, with names. Target specific controller with CONTROLLER=x.
```



Rake Routes

✧ `rake routes` explains your **currently defined routes**

```
~/my_first_app$ rake routes
```

	Prefix	Verb	URI Pattern	Controller#Action
	greeter_hello	GET	/greeter/hello(.:format)	greeter#hello
	greeter_goodbye	GET	/greeter/goodbye(.:format)	greeter#goodbye



Summary

- ✧ Router **directs the request** to the **right controller**
- ✧ **rake routes** lets you see **which routes are currently defined** for your application

What's Next?

- ✧ Moving business logic out of the View

