

RUBY ON RAILS

WEB DEVELOPMENT
THAT DOESN'T HURT

1) WHAT IS RAILS

2) MVC (MODEL, VIEW & CONTROLLER)

3) RAILS STEP BY STEP

WHAT

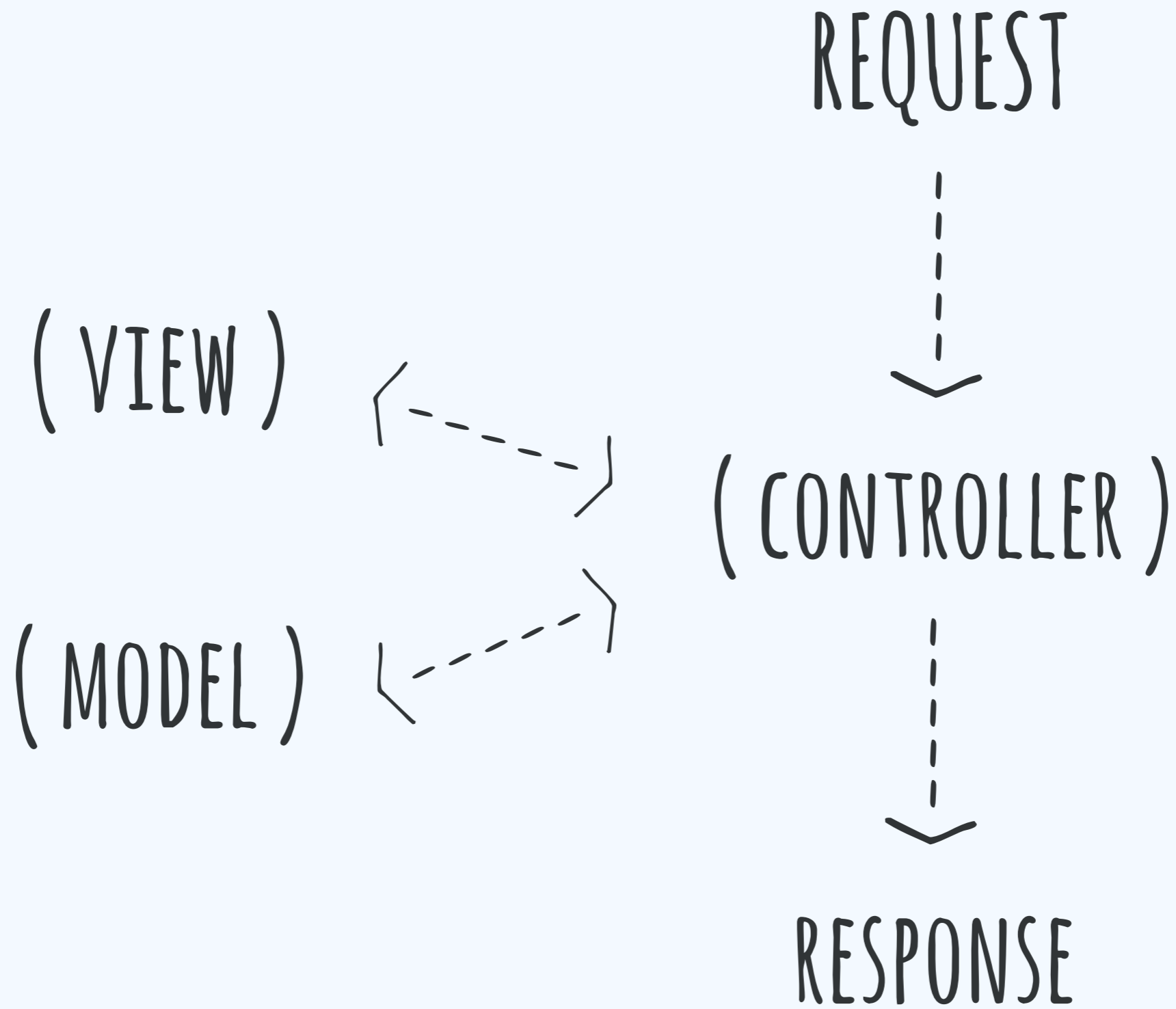
IS RAILS

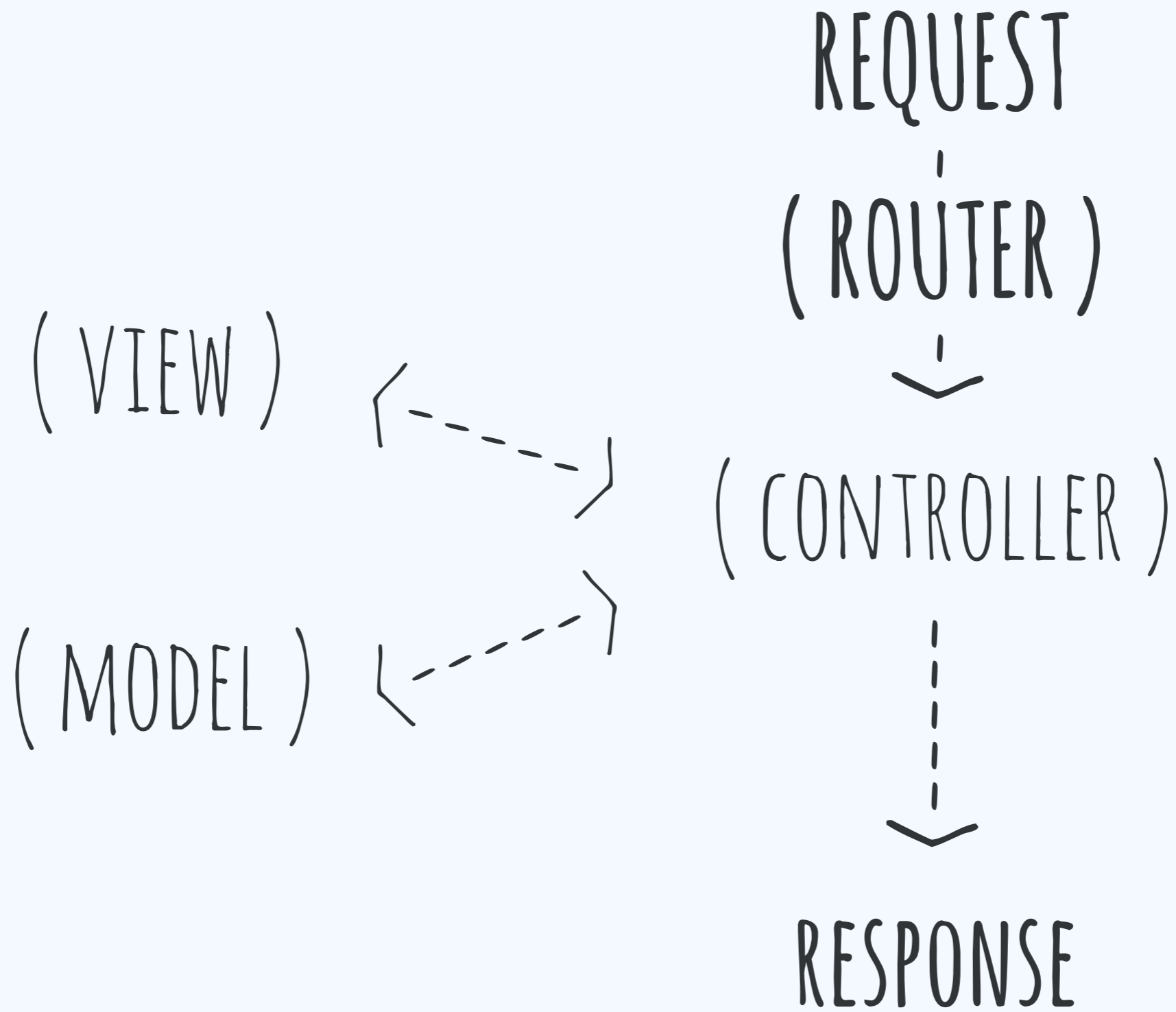
- 1) MATURE WEB FRAMEWORK
- 2) BUILT ON TOP OF RUBY
- 3) HEAVILY OPINIONATED
- 4) FULL STACK FRAMEWORK
- 5) EXTENSIBLE THROUGH GEMS

MVC

MODEL VIEW

CONTROLLER





RAILS

STEP BY STEP

VIA THE CLI

RAILS

NEW

> RAILS NEW AWESOMEAPP

CREATE

CREATE README.RDOC

CREATE RAKEFILE

CREATE CONFIG.RU

CREATE .GITIGNORE

CREATE APP/HELPERS/APPLICATION_HELPER

CREATE APP/MAILERS

CREATE APP/MODELS

CREATE APP/VIEWS/LAYOUTS/APPLICATION

CREATE APP/MAILERS/.GITKEEP

CREATE APP/MODELS/.GITKEEP

CREATE CONFIG

CREATE CONFIG/ROUTES.RB

```
CREATE CONFIG/INITIALIZERS/INFLECTION
CREATE CONFIG/INITIALIZERS/MIME_TYPE
CREATE CONFIG/INITIALIZERS/SECRET_TOKEN
CREATE CONFIG/INITIALIZERS/SESSION_STORE
CREATE CONFIG/INITIALIZERS/WRAP_PARAMETERS
CREATE CONFIG/LOCALES
CREATE CONFIG/LOCALES/EN.YML
CREATE CONFIG/BOOT.RB
```

CREATE CONFIG/APPLICATION.RB

CREATE CONFIG/ENVIRONMENT.RB

CREATE CONFIG/ENVIRONMENTS

CREATE CONFIG/ENVIRONMENTS/DEVELOPM

CREATE CONFIG/ENVIRONMENTS/PRODUCTI

CREATE CONFIG/ENVIRONMENTS/TEST.RB

CREATE CONFIG/INITIALIZERS

CREATE CONFIG/INITIALIZERS/BACKTRACE_

CREATE CONFIG/DATABASE.YML

CREATE DB

CREATE DB/SEEDS.RB

CREATE DOC

CREATE DOC/README_FOR_APP

CREATE LIB

CREATE LIB/TASKS

CREATE LIB/TASKS/.GITKEEP

CREATE LIB/ASSETS

CREATE LIB/ASSETS/.GITKEEP

CREATE LOG

CREATE LOG/.GITKEEP

CREATE PUBLIC

CREATE PUBLIC/404.HTML

CREATE PUBLIC/422.HTML

CREATE PUBLIC/500.HTML

CREATE PUBLIC/FAVICON.ICO

CREATE PUBLIC/INDEX.HTML

CREATE PUBLIC/ROBOTS.TXT

CREATE SCRIPT

CREATE SCRIPT/RAILS

CREATE TEST/FIXTURES

CREATE TEST/FIXTURES/.GITKEEP

CREATE TEST/FUNCTIONAL

CREATE TEST/FUNCTIONAL/.GITKEEP

CREATE TEST/INTEGRATION

CREATE TEST/INTEGRATION/.GITKEEP

CREATE TEST/UNIT

CREATE TEST/UNIT/.GITKEEP

CREATE TEST/PERFORMANCE/BROWSING_TESTS

CREATE TEST/TEST_HELPER.RB

CREATE TMP/CACHE

```
CREATE TMP/CACHE/ASSETS
```

```
CREATE VENDOR/ASSETS/JAVASCRIPTS
```

```
CREATE VENDOR/ASSETS/JAVASCRIPTS/.GIT
```

```
CREATE VENDOR/ASSETS/STYLESHEETS
```

```
CREATE VENDOR/ASSETS/STYLESHEETS/.GITK
```

```
CREATE VENDOR/PLUGINS
```

```
CREATE VENDOR/PLUGINS/.GITKEEP
```

```
RUN BUNDLE INSTALL
```

FETCHING GEM METADATA FROM [HTTPS://RUBYGEMS.ORG](https://rubygems.org)

USING RAKE (0.9.2.2)

USING I18N (0.6.0)

USING MULTI_JSON (1.3.6)

USING ACTIVESUPPORT (3.2.6)

USING BUILDER (3.0.0)

USING ACTIVEMODEL (3.2.6)

USING ERUBIS (2.7.0)

USING JOURNEY (1.0.4)

USING RACK (1.4.1)

USING RACK-CACHE (1.2)

USING RACK-TEST (0.6.1)

USING HIKE (1.2.1)

USING TILT (1.3.3)

USING SPROCKETS (2.1.3)

USING ACTIONPACK (3.2.6)

USING MIME-TYPES (1.19)

USING POLYGLOT (0.3.3)

USING TREETOP (1.4.10)

USING MAIL (2.4.4)

USING ACTIONMAILER (3.2.6)

USING AREL (3.0.2)

USING TZINFO (0.3.33)

USING ACTIVERECORD (3.2.6)

USING ACTIVERESOURCE (3.2.6)

USING BUNDLER (1.1.4)

USING COFFEE-SCRIPT-SOURCE (1.3.3)

USING EXECJS (1.4.0)

USING COFFEE-SCRIPT (2.2.0)

USING RACK-SSL (1.3.2)

USING JSON (1.7.3)

USING RDOC (3.12)

USING THOR (0.15.3)

USING RAILTIES (3.2.6)

USING COFFEE-RAILS (3.2.2)

USING JQUERY-RAILS (2.0.2)

USING RAILS (3.2.6)

USING SASS (3.1.19)

USING SASS-RAILS (3.2.5)

USING SQLITE3 (1.3.6)

USING UGLIFIER (1.2.5)

YOUR BUNDLE IS COMPLETE! USE `npm run bundle show`

RAILS

SERVER

> RAILS SERVER

=> BOOTING WEBRICK

=> RAILS 3.2.6 APPLICATION STARTING IN DEV

=> CALL WITH -D TO DETACH

=> CTRL-C TO SHUTDOWN SERVER

[2012-06-26 19:06:56] INFO WEBRICK 1.3.1



Welcome aboard

You're riding Ruby on Rails!

[About your application's environment](#)

Getting started

Here's how to get rolling:

1. Use `rails generate` to create your models and controllers

To see all available options, run it without parameters.

2. Set up a default route and remove *public/index.html*

Routes are set up in *config/routes.rb*.

3. Create your database

Run `rake db:create` to create your database. If you're not using SQLite (the default), edit *config/database.yml* with your username and password.

Browse the
documentation

[Rails Guides](#)

[Rails API](#)

[Ruby core](#)

[Ruby standard library](#)

> OPEN `HTTP://LOCALHOST:3000`

RAILS

GENERATE

> RAILS GENERATE SCAFFOLD

ENTITY FIELD:TYPE ... FIELD:TYPE

> RAILS GENERATE CONTROLLER

> RAILS GENERATE MODEL

> ...

> RAILS GENERATE SCAFFOLD NEWS TITLE:STRING

INVOKE ACTIVE_RECORD

CREATE DB/MIGRATE/20120626181603_CR

CREATE APP/MODELS/NEWS.RB

INVOKE TEST_UNIT

CREATE TEST/UNIT/NEWS_TEST.RB

CREATE TEST/FIXTURES/NEWS.YML

INVOKE RESOURCE_ROUTE

ROUTE RESOURCES:NEWS

INVOKE SCAFFOLD_CONTROLLER

CREATE APP/CONTROLLERS/NEWS_CONTROLLER

INVOKE ERB

CREATE APP/VIEWS/NEWS

CREATE APP/VIEWS/NEWS/INDEX.HTML.ERB

CREATE APP/VIEWS/NEWS/EDIT.HTML.ERB

CREATE APP/VIEWS/NEWS/SHOW.HTML.ERB

CREATE APP/VIEWS/NEWS/NEW.HTML.ERB

CREATE APP/VIEWS/NEWS/_FORM.HTML.ERB

INVOKE TEST_UNIT

CREATE TEST/FUNCTIONAL/NEWS_CONTR

INVOKE HELPER

CREATE APP/HELPERS/NEWS_HELPER.RB

INVOKE TEST_UNIT

CREATE TEST/UNIT/HELPERS/NEWS_HELP

INVOKE ASSETS

INVOKE COFFEE

CREATE APP/ASSETS/JAVASCRIPTS/NEWS.

INVOKE SCSS

CREATE APP/ASSETS/STYLESHEETS/NEWS.CS

INVOKE SCSS

CREATE APP/ASSETS/STYLESHEETS/SCAFFOLD

RAILS

MIGRATIONS

```
class CreateNews < ActiveRecord::Migration
  def up
    create_table :news do |t|
      t.string :title
      t.string :body

      t.timestamps
    end
  end

  def down
    drop_table :news
  end
end
```

> RAKE DB:CREATE

> RAKE DB:MIGRATE

> RAKE DB:RESET

RAILS

MODELS

```
class News < ActiveRecord::Base
  attr_accessible :body, :title
end
```

```
News.all  
News.find(10)  
News.where("title like '??'", "Train")  
News.order("title")  
News.select("title")
```

TIP OF THE ICEBERG!!!!


```
class News < ActiveRecord::Base
  attr_accessible :body, :title

  has_many :comments
end
```

```
class Comments < ActiveRecord::Base
  belongs_to :news
end
```

```
class News < ActiveRecord::Base
  attr_accessible :body, :title

  validates :title, :presence => true
end
```

ACCEPTANCE

CONFIRMATION

EXCLUSION

FORMAT

INCLUSION

LENGTH

NUMERICALITY

PRESENCE

UNIQUENESS

VALIDATES_WITH

VALIDATES_EACH

RAILS

ROUTES

```
Awesomeapp::Application.routes.draw do
  resources :news

  root :to => 'welcome#index'
end
```

> RAKE ROUTES

news_index	GET	/news	news#index
	POST	/news	news#create
new_news	GET	/news/new	news#new
edit_news	GET	/news/:id/edit	news#edit
news	GET	/news/:id	news#show
	PUT	/news/:id	news#update
	DELETE	/news/:id	news#destroy

RAILS

CONTROLLERS

```
class NewsController < ActionController::Base
  def index
    @news = News.all
  end
end
```



```
class NewsController < ActionController::Base
  # GET /news
  # GET /news.json
  def index
    @news = News.all

    respond_to do |format|
      format.html # index.html.erb
      format.json { render json: @news }
    end
  end
end
```

RAILS

VIEWS

```
<!DOCTYPE html>
<html>
<head>
  <title>Awesomeapp</title>
  <%= stylesheet_link_tag      "application",
    :media => "all" %>
  <%= javascript_include_tag  "application" %>
</head>
<body>

<%= yield %>

</body>
</html>
```

```
<h1>Listing news</h1>
<table>
  <tr>
    <th>Title</th>
    <th></th>
    <th></th>
  </tr>
  <% @news.each do |news| %>
    <tr>
      <td><%= news.title %></td>
      <td><%= link_to 'Show', news %></td>
      <td>
        <%= link_to 'Edit', edit_news_path(news) %>
      </td>
    </tr>
  <% end %>
</table>
```

RAILS

ASSET

PIPELINE

// = REQUIRE JQUERY

// = REQUIRE JQUERY_UJS

// = REQUIRE_TREE.

RAILS

HELP IS

AT HAND



Ruby on Rails Guides (v3.2.6)

These are the new guides for Rails 3.2 based on [v3.2.6](#). These guides are designed to make you immediately productive with Rails, and to help you understand how all of the pieces fit together.

The guides for Rails 2.3.x are available at <http://guides.rubyonrails.org/v2.3.11/>.

Start Here

[Getting Started with Rails](#)

Everything you need to know to install Rails and create your first application.

Models

[Rails Database Migrations](#)

This guide covers how you can use Active Record migrations to alter your database in a structured and organized manner.

[Active Record Validations and Callbacks](#)

This guide covers how you can use Active Record validations and callbacks.

[Active Record Associations](#)

This guide covers all the associations provided by Active Record.

[Active Record Query Interface](#)

This guide covers the database query interface provided by Active Record.



Rails Guides are also available for the [Kindle](#) and [Free Kindle Reading Apps](#) for the iPad, iPhone, Mac, Android, etc. Download them from [here](#).



Guides marked with this icon are currently being worked on. While they might still be useful to you, they may contain incomplete information and even errors. You can help by reviewing them and posting your comments and corrections to the author.



Applied Filters: rails x

```
Store::Application.routes.draw do |map|
  root :to => HomeApp

  match "/about" => redirect("/aboutus")
  match "/aboutus" => "info#about"

  resources :products
  match "/p/:id" => redirect("/product/:id")

  match "/processes" => ProcessesApp
end
```

EPISODE #222 - Jul 12, 2010 - 12 comments

Rack in Rails 3

The router in Rails 3 is fully compatible with Rack. Learn how to embed Sinatra into an app, handle redirects, and improve on Rails Metal. (8 minutes)

[Watch Episode](#) [Read Episode](#)

View:

Types

- [Free Episodes](#)
- [Pro Episodes](#)
- [Revised Episodes](#)

rails-templates /

name	age
README.rdoc	3 minutes
authentication.rb	about an hour
base.rb	about an hour

EPISODE #148 - Feb 09, 2009 - 27 comments

App Templates in Rails 2.3

In Rails 2.3 you can provide a template when generating a new Rails application. See how in this episode. (11 minutes)

[Watch Episode](#) [Read Episode](#)

Categories

- [Active Record](#)
- [Active Resource](#)
- [Active Support](#)
- [Administration](#)
- [Ajax](#)
- [APIs](#)
- [Authentication](#)
- [Authorization](#)
- [Background Jobs](#)
- [Caching](#)
- [Controllers](#)
- [Debugging](#)
- [Deployment](#)
- [eCommerce](#)
- [Forms](#)
- [Mailing](#)
- [Models](#)
- [Performance](#)
- [Plugins](#)
- [Production](#)
- [Rack](#)
- [Rails 2.0](#)
- [Rails 2.1](#)
- [Rails 2.2](#)
- [Rails 2.3](#)
- [Rails 3.0](#)



EPISODE #200 - Feb 08, 2010 - 88 comments

Rails 3 Beta and RVM

Get started with Rails 3.0 Beta and install Ruby 1.9.1 using RVM: Ruby Version Manager. Stay tuned to the end for a challenge on giving back to open source. (8 minutes)

[Watch Episode](#) [Read Episode](#)

The Rails 3 Router: Rack it Up
December 26th, 2009

In my previous post about generic actions in Rails 3, I made reference to improvements in the router. Some of those have been covered [on other screencasts](#), but the scope of the improvements hasn't yet been covered.

In this post, I'll cover a number of the larger design decisions, as well as those that have been made. Most of these features were in the Merb router, but more fully developed, and the fuller emphasis on Rack is a strong improvement.

Immunized DSL

EPISODE #203 - Mar 01, 2010 - 12 comments

Routing in Rails 3

Rails 3 sports a new routing interface. In this episode I show how to translate the old interface into the new one and show off a few new features. (13 minutes)

[Watch Episode](#) [Read Episode](#)

2 comments

[Sally Johnson](#)
I enjoy piano music, I just wish I could play.

EPISODE #204 - Mar 08, 2010 - 31 comments

XSS Protection in Rails 3

It is easy to be vulnerable to cross site scripting attacks in earlier versions of Rails, but Rails 3 solves this by automatically escaping unsafe input. (8 minutes)

RUBY ON RAILS

WEB DEVELOPMENT
THAT DOESN'T HURT