

NIRD

Ruby on Rails

2-Day BootCamp





Rails 1 DAY

RIDE THE RAILS

Curriculum

- 📌 RoR Tools
- 📌 Rails Generators
- 📌 Rails Walk-Through
- 📌 Gems

Schedule

| Times | Day 1 |
|-------------|------------------------|
| 9am - 10:30 | Tools and Generators |
| Break | |
| 10:45 - 12 | Routes and Controllers |
| Lunch | |
| 1pm - 2:30 | Active Record |
| Break | |
| 2:45 - 4:30 | Gems |

RoR Resources

- 📌 RailsGuides - guides.rubyonrails.org
- 📌 Rails API - api.rubyonrails.org
- 📌 RubyDoc - ruby-doc.org
- 📌 RailsCasts - railscasts.com
- 📌 Github ReadMe
- 📌 Ruby ToolBox - www.ruby-toolbox.com

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The Rails Way

- 📌 Opinionated Software
- 📌 Convention over Configuration
- 📌 DRY (Don't Repeat Yourself)
- 📌 TDD (Test Driven Development)
- 📌 Less Code, More Productivity

Rails

- Rails -v

- 2.0-3, 3.0-2, 4.0

Git

• which git

• git --version

Git

- Source Control System
- Timeline, Track Changes
- Branching and Merging
- Code Safety



Git Commands

📌 `git clone / init`

📌 `git status`

📌 `git add / rm`

📌 `git commit`

📌 `git push`

📌 `git log`

Git Remotes

- 📌 GitHub - www.github.com
- 📌 Heroku - www.heroku.com

Git Help

- 📌 Git Site - git-scm.com
- 📌 Git Immersion - gitimmersion.com
- 📌 GitHub Help - help.github.com

Rails

- 📌 New Rails App
- 📌 Modify the HomePage
- 📌 Scaffold
- 📌 MVC
- 📌 Layers

Create a New App

- rails

- Shows Options

- rails new <app_name> --options

Create a Class Management App

- 📌 We want an app to manage Students, Classes, and Teachers
- 📌 `rails new class_mngmt`

The Application Directory

- 📌 The Root of our App: Rails root
- 📌 Entire App in one directory!

Run the App

- `cd class_mngmt`
- `rails`
 - see rails commands
- `rails server`

Save a Baseline with git

- 📌 `git init`
- 📌 `git add .`
- 📌 `git commit -m "add a bare rails app to track changes"`

```
git init
git add .
git commit -m "add bare rails app to track"
```


Scaffolding

- 📌 rails generate

- 📌 see the generators

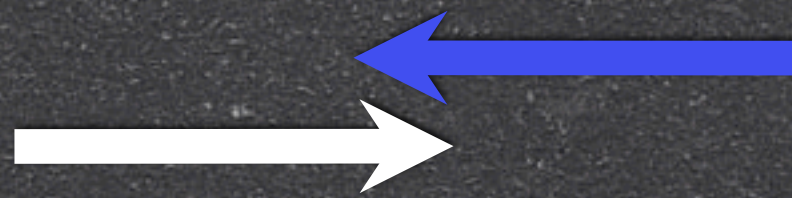
- 📌 rails g scaffold Student full_name age:integer bio:text title

MVC



Browser

Response



Request

Controller

View

Model

Database



Shorten Bio Demo

- 📌 Shorten the bio on the view page
- 📌 Add a read more link

Helpers

- 📌 Presentation Logic
- 📌 Presenter Pattern
- 📌 Ruby Module - Included on all views
- 📌 Method Definitions
- 📌 Help generate html

View Exercise

- On the main Student page
 - Change the Listing Students to My Students or All Students
 - Show only the Full Name and title
 - Have the Full Name link to the view page
 - Remove the show link

Routing

- 📌 rake routes
- 📌 public folder

hello.html

- 📌 create a hello file
- 📌 find it in the browser

RESTful Routes

- Representational State Transfer (REST)
- guides.rubyonrails.org/routing.html

Controller Actions

• index, show, new, edit, create,
update, destroy


New Controller

 rails g controller Welcome

Welcome

- 📌 put `hello.html` in the `welcome` folder
- 📌 `app/views/welcome/hello.html`

Find it!

 <http://localhost:3000/welcome/hello>

Active Record

- 📌 Ruby Driven Schema
- 📌 Where are the methods?

Students Manage Their Courses

- As a student we want to add our courses.

Add Courses

• rails g model Course title
description:text student_id:integer

Relationships

- Student has many courses
- A Course belongs_to a Student

3 Kinds of Relationships

- 📌 one-to-one
- 📌 one-to-many
- 📌 many-to-many

Rails DB / Console

- 📌 rails db
 - 📌 login with the db credentials
- 📌 rails console
 - 📌 irb with your app loaded

Add email to Student

• rails g migration AddEmailToStudents
email

Test Driven Rails

- add rspec
- test drive our business rules

Validations & callbacks

- 📌 guides.rubyonrails.org/active_record_validations_callbacks.html
- 📌 Validate a Student has a name

Validate the student email

📌 presence and format

Scopes and QI

- 📌 saved sql queries
- 📌 http://guides.rubyonrails.org/active_record_querying.html

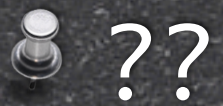
Environments

- 📌 development
- 📌 test
- 📌 production

Rails App Walk Through

📌 What is all this stuff?!

Questions?



Gems !

📌 There's a Gem for that!

Finding and Picking Gems

📌 <https://www.ruby-toolbox.com>

Gem Project

 Github

 README

 Getting Started Guide

 Travis CI

 Code Climate

Devise Demo

- Pick Devise for Student Authentication!

Devise Exercise

 <https://github.com/nirds/RoR3DayBC/tree/master/devise>

CarrierWave

📌 File Uploading Made Easy!

Bootstrap

- Twitter allows developers to make pretty things too!