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Ruby on Rails
What is Ruby on Rails?

• Magic
• Magic makes things easy
• But magic can make them hard too
Demo

$ rails new pix
$ cd pix
$ rails generate scaffold Photo
  url:text caption:text
Demo

$ rake db:create
$ rake db:migrate
$ rails server
What is Ruby on Rails?

- Ruby is a programming language
- Rails is a server side web framework
- Alternative to node.js
But I don’t know Ruby

It’s okay, you don’t have to.
How does Rails work?

• Model - View - Controller
• Let’s look at the life of a request
1. Router match the URL to an action
The Life of a Request

2. Controller loads associated models and view
The Life of a Request

3. Rails responds to the request
Code Walkthrough

Let’s make a home page.
Routes

- config/routes.rb
- Translates a URL into an action
- Run rake routes to see all your routes!
Controller

- http://guides.rubyonrails.org/active_record_querying.html
- app/controllers/posts_controller.rb
- "application logic"
- load relevant models and view
Model

- http://guides.rubyonrails.org/association_basics.html
- app/models/post.rb
- where all your persistent data is
- abstracts away database
Migrations

- DO NOT RENAME OR MERGE
- db/migrations/*
- control database schema
- provide the models with data
Views

- app/views/*
- used to render a response
- uses templates
Getting Started

• Install Rails Locally
  – http://installrails.com/

• Virtual Machine
Resources

• Gems (Plugins)
  – Devise (Authentication)
  – foundation-rails

• Ask us on Piazza
• Come to Office Hours