

**6.148**

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

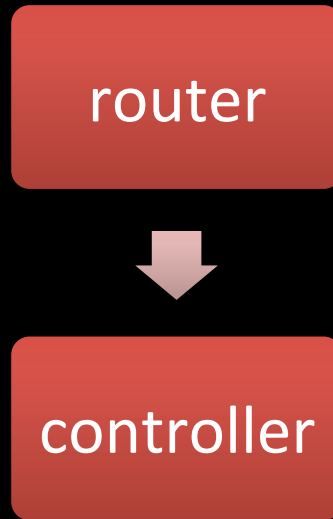
**But I don't know Ruby**

It's okay, you don't have to.

# How does Rails work?

- Model – View – Controller
- Let's look at the life of a request

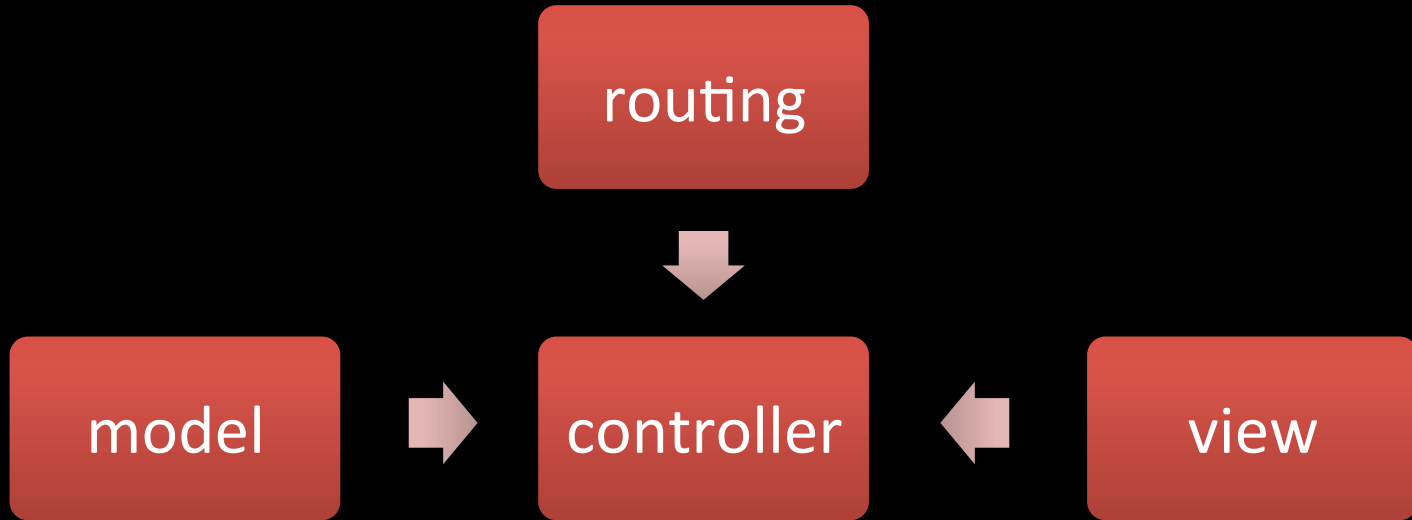
# The Life of a Request



1. Router match the URL to an action

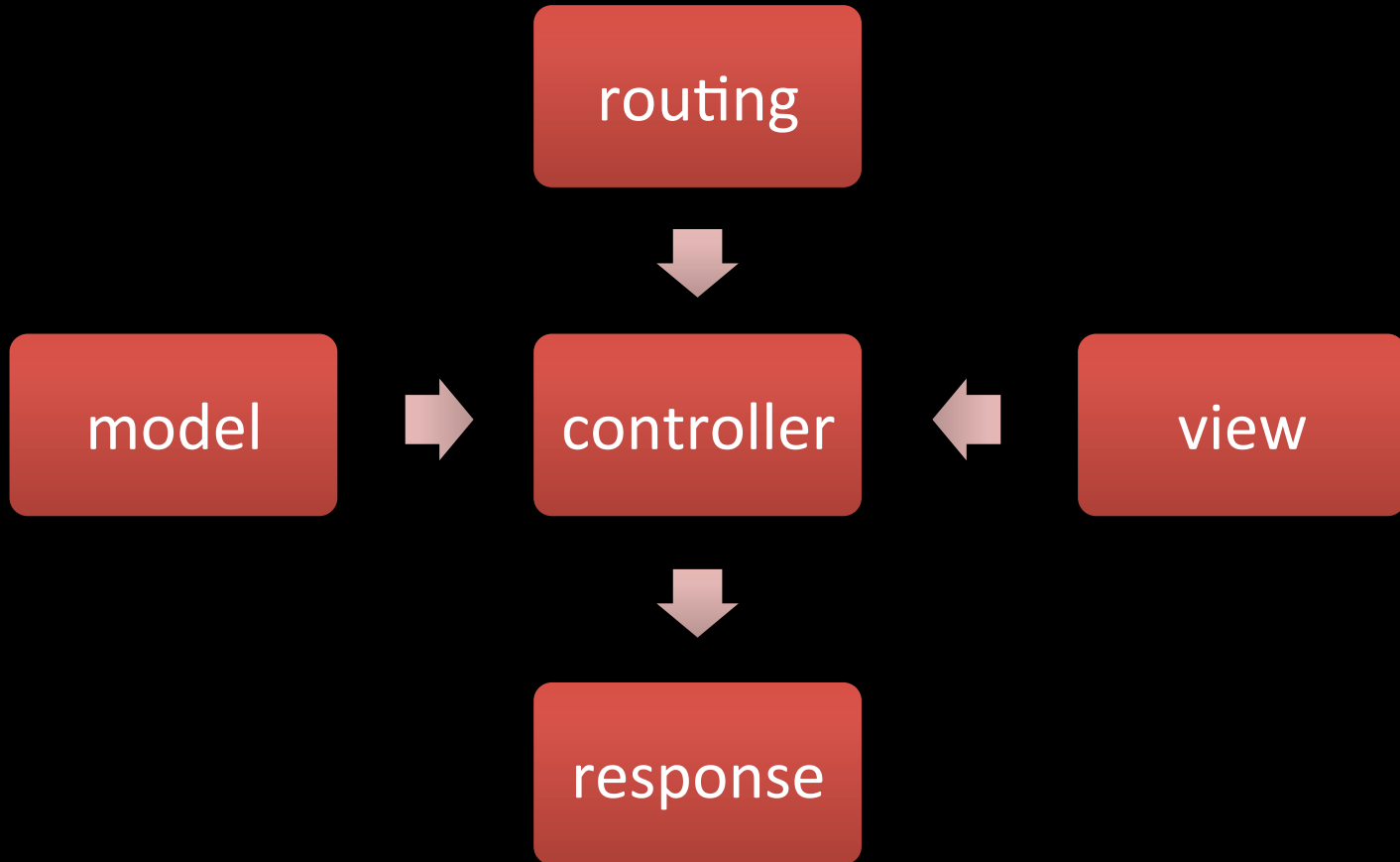


# The Life of a Request



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](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](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
  - <https://www.dropbox.com/s/u650ed2gnwdyvld/VMInstructions.pdf?dl=0>

# Resources

- Gems (Plugins)
  - Devise (Authentication)
  - foundation-rails
  
- Ask us on Piazza
- Come to Office Hours