Samvera - Rails 6 Features
And thoughts on using them
Who is this clown?

Rob Kaufman
@orangewolf
rob@notch8.com
https://www.notch8.com

Founder of Notch8 - An App Development Consultancy since 2007
This Deck
How We’ll Spend This Time
Outline - Don’t Show This One

- Multiple Databases
- No more update_attributes and update_attributes!

* Active Storage
  - overview
  - how to enable (exercise)

- Webpacker as default

* Action Mailbox
  - Environment support for encrypted creds
  - filter_attributes supports regexp

* Action Text
  - Time comparisons
  - create_table :if_not_exists
  - extract!
Multiple Database Support

Has been optionally configurable for a long time

Got a lot easier in Rails 6

Can be specified per model

Class Person < ActiveRecord::Base
connects_to database: { writing: :animals_primary, reading: :animals_replica } end

Or with block
ActiveRecord::Base.connects_to(database: :animals_primary) do
  User.first
end

devlopment:
  primary:
    database: my_primary_db
    user: root
  primary_replica:
    database: my_primary_db
    user: ro_user
    replica: true

animals:
  database: my_animals_db
  user: root
animals_replica:
  database: my_animals_db
  user: ro_user
  replica: true
For Samvera?
No More update_attributes

update_attributes and update_attributes! are deprecated

Use update and update! Instead.
Active Storage

Replaces:

acts_as_attachment
acts_as_files
paperclip
carrier_wave
paperclip (again)
shrine

Manages file uploads from forms to models to the file system / cloud

https://guides.rubyonrails.org/v5.2.0/active_storage_overview.html
Exercise 1 - Images on an Object

In a newly created Rails project, add a resource for blog posts

```bash
rails g scaffold BlogPost title:string body:text
```

Install active storage and add images to your blog posts

```bash
https://guides.rubyonrails.org/v5.2.0/active_storage_overview.html
```

Connect2019!

```bash
rails s -b $IP -p $PORT
```
For Samvera?
Action Mailbox

Is for emailing from a user to the application (the application receives the email)

Is an expansion of functionality that was part of action mailer in the past

Does build on top of Action Storage

[https://guides.rubyonrails.org/action_mailbox_basics.html](https://guides.rubyonrails.org/action_mailbox_basics.html)
Exercise - Two

Allow the a blog post to be emailed in by installing active mailbox, a mailbox processor and then accessing

/rails/conductor/action_mailbox/inbound_emails/new

to create an email.

Stretch goal: Add an image attachment to the email and have it installed as the header image.
For Samvera?
Environment support for Encrypted Credentials

As an alternative to secrets.yml or dotenv

Expands on functionality added in 5.2

Credentials added to global file config/credentials.yml.enc will not be loaded in environments which have their own environment specific credentials file (config/credentials/$environment.yml.enc).

Seperate keys per environment

rails edit:credentials --environment staging

For staging environment look first for config/credentials/staging.yml.enc file that can be decrypted by ENV["RAILS_MASTER_KEY"] or config/credentials/staging.key master key.

https://github.com/rails/rails/pull/33521/files
Discussion - DOTENV vs Credentials
Filter Attributes

Rails has long had 
Rails.application.config.filter_parameters

Until Rails 6 did not take into account inspect 
on an object allowing logging of sensitive 
params by mistake

Can now also specify on the model level

Model level OVERRIDES config level

>> User.filter_attributes = [:email, :password]

=> [:email, :password]

>> User.first.inspect

=> "#<User id: 2, email: [FILTERED], password: [FILTERED], created_at: "2019-05-17 21:34:34", updated_at: "2019-05-17 21:34:34">"
Action Text

Side steps HTML’s `contenteditable` and `execCommand`

Builds on top of active storage

https://guides.rubyonrails.org/action_text_overview.html
Exercise 3 - Action Text

Make the blog post body a rich text field

https://guides.rubyonrails.org/action_text_overview.html

rails s -b $IP -p $PORT
For Samvera?
New Time Comparisons

Given a rental_1 with `starts_at = '2019-01-01 05:05:05'` and a `ends_at = '2019-10-10 04:04:04'`

`rental_1.starts_at > rental_2.ends_at`

Rental_1.starts_at < rental_2.ends_at

Which one do we need to guard that starts_at is before ends at?
Create Table If Not Exists

create_table: if_not_exist

Mostly useful for things like engine migrations where there are multiple ways they can get run or to create fall back tables
my_array = [1,2,3,4]

my_array.extract! { |v| v > 2 } # => [3,4]

my_array == [1,2] # => true
Any Favorites That We Missed?
Questions?

Rob Kaufman
@orangewolf
rob@notch8.com
https://www.notch8.com

This Deck