

Routing

```

match "/posts(/:year(/:month))" => "home#index",
  year: /\d{4}/, month: /\d{2}/,
  defaults: { year: 2011 },
  as: :posts

match "/about" => "home#about", via: [:get, :post]
get "/about" => "home#about"

match 'photos/*other' => 'photos#unknown'

get "/about_us" => redirect("/about")
get "/users/:name" => redirect("/%{name}")
get "/users/:name/dashboard" => redirect { |params, request|

scope "admin", as: "admin" do
  get "dashboard" => "admin#show"
end
namespace "admin" do
  # ...
end

resources :photos do
  member do
    get 'preview'
  end
  collection do
    get 'search'
  end
end
resource :account, only: [:show, :update]

root to: "home#index"

```

Constraints

Creates the posts_path(year, month) helper

/photos/aye/12 => params[:other] = "aye/12"

prefix routes with /admin

prefix helpers with admin_ and controllers with Admin::

Same as

Verb	Path	Action
GET	/photos	index
GET	/photos/new	new
POST	/photos	create
GET	/photos/:id	show
GET	/photos/:id/edit	edit
PUT	/photos/:id	update
DELETE	/photos/:id	destroy

Rendering

```

render :index, layout: "admin"
render "controller/action"
render "/some/file", status: :not_found
render text: "hello", content_type: "text/plain"
render nothing: true
render inline: "<%= erb %>"
render json: @photo
render xml: @photo, location: photo_url(@photo)
render js: "alert('Hello Rails');"
head :ok

respond_with @photo, responder: FlashResponder,
  message: "An option!" do |format|
  format.html { redirect_to @photo }
end

class FlashResponder < ActionController::Responder
  def to_html
    message = options[:message] || "Updated, nice!"
    controller.flash.notice = message if post?
    super
  end
end

```

:ok, :bad_request, :created, :not_found or 404

Option passed to the responder

In views

```

render "partial",
  layout: "special"
render @photo
render @photos

```

Strong Parameters

```

params.require(:post).
  permit(:title, :body)

```

Forms

```

<%= form_for @photo, html: { multipart: true },
      url: photo_url,
      remote: true do |f| %>

  <%= f.label :title %>: <%= f.text_field :title %>
  <%= f.text_area :description, size: "60x12" %>
  <%= f.check_box :private %>
  <%= f.radio_button :rating, 1 %>
  <%= f.password_field :password %>
  <%= f.number_field :number %>
  <%= f.range_field :range %>
  <%= f.search_field :range %>
  <%= f.telephone_field :range %>
  <%= f.email_field :range %>
  <%= f.url_field :range %>
  <%= f.hidden_field :parent_id %>
  <%= f.file_field :data %>
  <%= f.select :city_id, [['Montreal', 1], ['New York', 2]] %>
  <%= f.collection_select :author_id, Author.all, :id, :name %>
  <%= f.date_select :publish_on %>
  <%= f.datetime_select :publish_at %>

  <%= f.fields_for :address do |af| %>
    <%= af.text_field :street %>
    <%= af.text_field :zip_code %>
  <% end %>

  <%= f.submit "Create", disable_with: "Loading..." %>
<% end %>

```

Optional with @photo

Send with AJAX

Block

```

<%= my_block_helper do %>
  <h1>Title</h1>
<% end %>

def my_block_helper(&block)
  capture(&block)
end

```

Links

```

<%= link_to "Show", @photo, remote: true,
      method: :delete,
      confirm: "Sure?" %>

<%= link_to @photo do %>
  <h1>Title</h1>
<% end %>

```

URLs

```

<%= url_for(:back) %>
<%= url_for(@photo) %>
<%= url_for(Photo.new) %>

```

/photos/1

/photos

Rendering

```

<%= render @photo %>
<%= render @photos %>

```

renders photos/_photo.html.erb

renders photos/_photo.html.erb
for each item

Escaping

```

<%= raw "<p>raw html</p>" %>

```

Everything is escaped by default

Query

```
Ticket.where(status: "opened").
  where("comments_count > ?", comments_count).
  where(created_at: 1.year.ago..Time.now).
  where(owner_id: [1,3,5]).
  includes(:comments).
  order("created_at desc").
  limit(5).
  first
```

```
User.find_by_name("Bob")
Ticket.where(status: "opened").new(title: "...")
Ticket.where(...).create(title: "...")
Ticket.where(...).first_or_create
Ticket.where(...).first_or_initialize
User.find_or_create_by(name: "Don")
User.find_or_initialize_by(name: "Don")
```

where	limit	lock
select	offset	readonly
group	joins	from
order	includes	having

to_a, load, first, last, count, maximum(attr), minimum(attr), average(attr) or sum(attr)

Scopes

```
class Ticket < ActiveRecord::Base
  default_scope { order(:created_at) }
  scope :opened, -> { status :opened }
end
```

Associations

```
class Project < ActiveRecord::Base
  belongs_to :portfolio
  has_one :project_manager
  has_many :milestones

  has_many :tasks
  has_many :assets
  has_and_belongs_to_many :categories
end

class Asset < ActiveRecord::Base
  belongs_to :attachable
end
```

Options

```
class_name: "User"
dependent: :destroy
before_add: :method
after_add: -> { |project, milestone| }
before_remove: [:multiple, :method_or_proc]
after_remove: :method_or_proc
through: :milestones
as: :attachable
```

polymorphic: true

:as specifies the polymorphic interface to use

Validation

```
class User < ActiveRecord::Base
  validates :name, presence: true,
                  uniqueness: true,
                  format: /\A[a-z]\w+\Z/i,
                  length: 1..10,
                  exclusion: %w( admin god )

  validates :status, inclusion: %w( new registered banned )
  validates :password, confirmation: true

  validates :terms, acceptance: true

  validates :age, numericality: true, only_integer: true,
                  odd: true

  validates :title, title: true
end
```

Custom validator

Common options

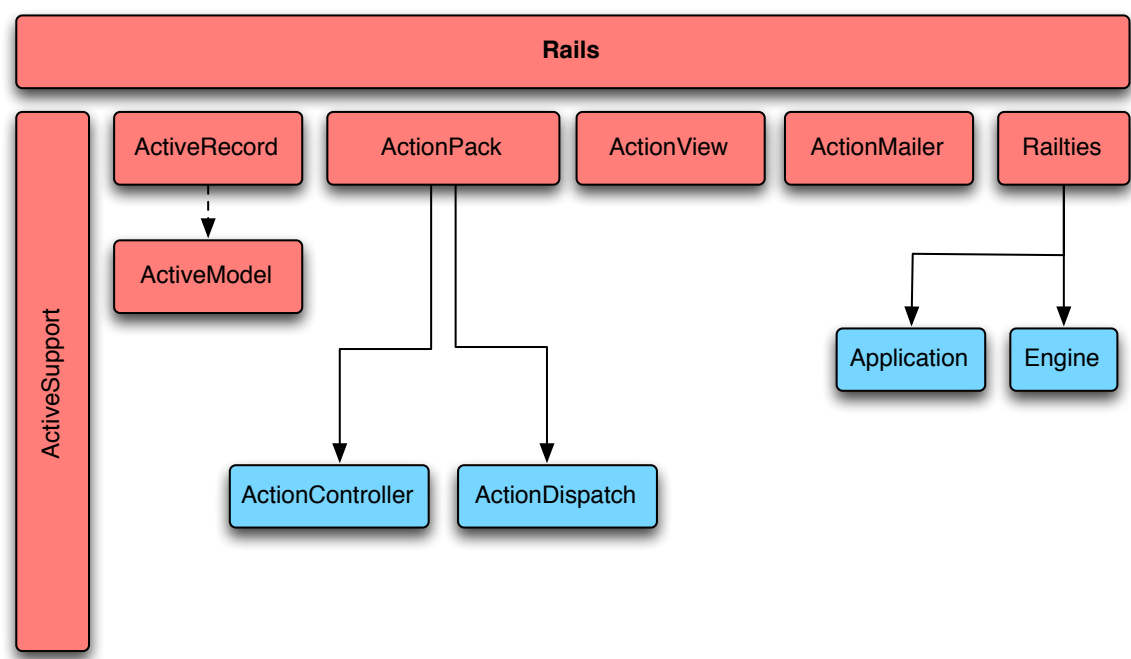
```
allow_blank: true
if: :password?,
unless: -> user { ... }
on: :create,
message: "Gotta accept"
```

Callbacks

before	}	-	{	validation	update	find
after				save	destroy	rollback
around				create	initialize	commit

```
class TitleValidator < ActiveModel::EachValidator
  def validate_each(record, attribute, value)
    record.errors.add(attribute, 'must ...') if ...
  end
end
```

Gems



Where's
the code?

Utility classes and core extensions	ActiveSupport	<code>bundle open activesupport</code>
Model logic that requires DB access	ActiveRecord	<code>bundle open activerecord</code>
Model logic that doesn't require DB access	ActiveModel	<code>bundle open activemodel</code>
Code handling the processing & routing of a requests	ActionDispatch	<code>bundle open actionpack</code>
Features you get access to inside your controllers	ActionController	<code>bundle open actionpack</code>
View and helpers code	ActionView	<code>bundle open actionview</code>
Framework code, holding all the components together. CLI, code generators, rake tasks.	Rails	<code>bundle open railties</code>