Laboratorio de Computación IV

Clase 12

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Comandos del día: tree

- tree == Muestra los contenidos de un directorio en forma recursiva

```
$ cd ejemplorails
$ tree
.
├── app
│   └── assets
│       ├── images
│       ├── javascripts
│       │   └── application.js
│       └── stylesheets
│           └── application.css
...
└── vendor
    └── assets
        ├── javascripts
        └── stylesheets
```

Comandos del día: tree

- Usando un path

```
$ tree app/controllers/
app/controllers/
├── application_controller.rb
├── articles_controller.rb
├── concerns
└── example_controller.rb

1 directory, 3 files
```

- -f → todo el path

```
$ tree -f app/controllers/
$ tree -f | grep controller
```

Comandos del día: tree

- -i → sin indentación

```
$ tree -fi | grep controller
./app/controllers
./app/controllers/application_controller.rb
./app/controllers/articles_controller.rb
./app/controllers/concerns
./app/controllers/example_controller.rb
```

- -P → Filtra usando un patrón

```
$ tree -P "*.rb"
```

- --prune → No mostrar directorio vacíos

```
$ tree -P "*.rb" --prune
```

Repaso

- Migrations.
- Creamos un modelo (ActiveRecord) y vimos su representación en la BD.
- Creamos artículos desde la consola.
- Listamos artículos en el sitio.
- Vimos detalles del artículo en una página individual.

Blog – Artículos

- Terminamos con links hechos "a mano"

```erb
<h1>Articles</h1>

<% @articles.each do |article| %>
  <h3>
    <a href="articles/<%= article.id %>">
      <%= article.title %>
    </a>
  </h3>
<% end %>
```

Blog – Artículos

- Rails provee *helpers* para las vistas
  - Pero previamente tenemos que darle un nombre a la ruta. Modifiquemos la definición de rutas:

```
config/routes.rb
Rails.application.routes.draw do

  root 'articles#index'

  get '/articles',
      to: 'articles#index',
      as: 'articles'
  get '/articles/:id',
      to: 'articles#show',
      as: 'article'
end
```

Blog – Artículos

- Veamos las rutas

```
$ bin/rake routes
  Prefix Verb URI Pattern              Controller#Action
    root GET  /                        articles#index
articles GET  /articles(.:format)      articles#index
 article GET  /articles/:id(.:format)  articles#show
```

Blog – Artículos

- Ahora podemos modificar nuestra vista

```
/app/views/articles/index.html.erb
```

```
<h1>Articles</h1>

<% @articles.each do |article| %>
  <h3>
    <%= link_to article.title, article_path(article) %>
  </h3>
<% end %>
```

Blog – Artículos

- Y en la vista individual

```
/app/views/articles/show.html.erb
```
```erb
<h1>
  <%= @article.title %>
</h1>

<p>
  <strong>Text:</strong>
  <%= @article.text %>
</p>

<%= link_to 'Back to index', articles_path %>
```

Blog – Artículos

- Veamos como crear un artículo

```
config/routes.rb
Rails.application.routes.draw do

  get  '/articles',
        to: 'articles#index',
        as: 'articles'
  post '/articles',
        to: 'articles#create'
  get  '/articles/new',
        to: 'articles#new',
        as: 'new_article'
  get  '/articles/:id',
        to: 'articles#show',
        as: 'article'

end
```

El orden importa

Blog – Artículos

- Veamos las rutas

```
$ bin/rake routes
      Prefix Verb URI Pattern              Controller#Action
        root GET  /                        articles#index
    articles GET  /articles(.:format)      articles#index
             POST /articles(.:format)      articles#create
new_article GET  /articles/new(.:format)  articles#new
     article GET  /articles/:id(.:format)  articles#show
```

Blog – Artículos

- Comencemos por el índice

/app/views/articles/index.html.erb

```erb
<h1>Articles</h1>

<% @articles.each do |article| %>
  <h3>
    <%= link_to article.title, article_path(article) %>
  </h3>
<% end %>

<%= link_to 'New article', new_article_path %>
```

Blog – Artículos

- En el controller

```
/app/controllers/articles_controller.rb
class ArticlesController < ApplicationController

  ...

  def new
  end


end
```

Blog – Artículos

- Y la nueva vista

```
/app/views/articles/new.html.erb
```

```erb
<h1>New Article</h1>

<%= form_for :article, url: articles_path do |form| %>
  <p>
    <%= form.label :title %><br>
    <%= form.text_field :title %>
  </p>
  <p>
    <%= form.label :text %><br>
    <%= form.text_area :text %>
  </p>
  <p>
    <%= form.submit %>
  </p>
<% end %>
```

Blog – Artículos

- Nos falta definir el método en el *controller* para crear un nuevo artículo

Blog – Artículos

```
/app/controllers/articles_controller.rb

class ArticlesController < ApplicationController

    ...

    def create
      @article = Article.new(article_params)
      @article.save
      redirect_to @article
    end

  private

    def article_params
      params.require(:article).permit(:title, :text)
    end


end
```

Blog – Artículos

- Veamos ahora como borrar un post

```
config/routes.rb
Rails.application.routes.draw do
  get     '/articles',
           to: 'articles#index',
           as: 'articles'
  post    '/articles',
           to: 'articles#create'
  get     '/articles/new',
           to: 'articles#new',
           as: 'new_article'
  get     '/articles/:id',
           to: 'articles#show',
           as: 'article'
  delete  '/articles/:id',
           to: 'articles#destroy'
end
```

Blog – Artículos

- Veamos las rutas

```
$ bin/rake routes
          Prefix Verb    URI Pattern                Controller#Action
            root GET     /                          articles#index
        articles GET     /articles(.:format)        articles#index
                 POST    /articles(.:format)        articles#create
     new_article GET     /articles/new(.:format)    articles#new
         article GET     /articles/:id(.:format)    articles#show
                 DELETE  /articles/:id(.:format)    articles#destroy
```

Blog – Artículos

- En la vista individual

```
/app/views/articles/show.html.erb
```

```
<h1>
  <%= @article.title %>
</h1>

<p>
  <strong>Text:</strong>
  <%= @article.text %>
</p>

<%= link_to 'Delete', article_path(@article), method:
:delete %>
<%= link_to 'Back to index', articles_path %>
```

Blog – Artículos

- En el controller

```
/app/controllers/articles_controller.rb
class ArticlesController < ApplicationController

  ...

  def destroy
    @article = Article.find(params[:id])
    @article.destroy

    redirect_to articles_path
  end

end
```

Blog – Artículos

localhost:3000/articles/5

Title

Text: Text

Delete Back to index

Blog – Artículos

- Editar un post

```
config/routes.rb
Rails.application.routes.draw do
  ...
  get      '/articles/:id/edit',
             to: 'articles#edit',
             as: 'edit_article'
  get      '/articles/:id',
             to: 'articles#show',
             as: 'article'
  patch    '/articles/:id',
             to: 'articles#update'
  ...
end
```

Blog – Artículos

- Veamos las rutas

```
$ bin/rake routes
         Prefix Verb    URI Pattern                Controller#Action
           root GET     /                          articles#index
       articles GET     /articles(.:format)        articles#index
                POST    /articles(.:format)        articles#create
   new_article GET     /articles/new(.:format)    articles#new
  edit_article GET     /articles/:id/edit(.:format) articles#edit
        article GET     /articles/:id(.:format)    articles#show
                PATCH   /articles/:id(.:format)    articles#update
                DELETE  /articles/:id(.:format)    articles#destroy
```

Blog – Artículos

- En la vista individual

```
/app/views/articles/show.html.erb
```
```
<h1>
  <%= @article.title %>
</h1>

<p>
  <strong>Text:</strong>
  <%= @article.text %>
</p>

<%= link_to 'Edit', edit_article_path(@article) %>
<%= link_to 'Delete', article_path(@article), method:
:delete %>
<%= link_to 'Back to index', articles_path %>
```

Blog – Artículos

- En el controller

```
/app/controllers/articles_controller.rb
class ArticlesController < ApplicationController

  ...

  def edit
    @article = Article.find(params[:id])
  end

end
```

Blog – Artículos

- Una nueva vista para editar

Blog – Artículos

```
/app/views/articles/edit.html.erb
```

```erb
<h1>Editing article</h1>

<%= form_for :article, url: article_path(@article),
method: :patch do |f| %>
  <p>
    <%= f.label :title %><br>
    <%= f.text_field :title %>
  </p>
  <p>
    <%= f.label :text %><br>
    <%= f.text_area :text %>
  </p>
  <p>
    <%= f.submit %>
  </p>
<% end %>
<%= link_to 'Back', articles_path %>
```

Blog – Artículos

- Finalmente la acción para aplicar los cambios

```ruby
class ArticlesController < ApplicationController

  ...

  def update
    @article = Article.find(params[:id])

    if @article.update(article_params)
      redirect_to @article
    else
      render 'edit'
    end
  end

end
```

Blog – rutas

- Helper *resources*

```
config/routes.rb
Rails.application.routes.draw do
   resources :articles
end
```

Blog – Artículos

- Antes

```
$ bin/rake routes
         Prefix Verb    URI Pattern              Controller#Action
           root GET     /                        articles#index
       articles GET     /articles(.:format)      articles#index
                POST    /articles(.:format)      articles#create
    new_article GET     /articles/new(.:format)  articles#new
   edit_article GET     /articles/:id/edit(.:format) articles#edit
        article GET     /articles/:id(.:format)  articles#show
                PATCH   /articles/:id(.:format)  articles#update
                DELETE  /articles/:id(.:format)  articles#destroy
```

Blog – Artículos

- Ahora

```
$ bin/rake routes
         Prefix Verb    URI Pattern                 Controller#Action
           root GET    /                            articles#index
       articles GET    /articles(.:format)          articles#index
                POST   /articles(.:format)          articles#create
   new_article GET    /articles/new(.:format)      articles#new
  edit_article GET    /articles/:id/edit(.:format) articles#edit
        article GET    /articles/:id(.:format)      articles#show
                PUT    /articles/:id(.:format)      articles#update
                PATCH  /articles/:id(.:format)      articles#update
                DELETE /articles/:id(.:format)      articles#destroy
```

Blog – rutas

- Restringiendo rutas (1)

```
config/routes.rb
```
```
Rails.application.routes.draw do
    resources :articles, only: [:index]
end
```

```
$ bin/rake routes
        Prefix Verb    URI Pattern              Controller#Action
      root GET    /                        articles#index
   articles GET    /articles(.:format)      articles#index
```

Blog – rutas

- Restringiendo rutas (2)

```
config/routes.rb
Rails.application.routes.draw do
  resources :articles, except: [:show, :edit, :destroy]
end
```

```
$ bin/rake routes
      Prefix Verb   URI Pattern              Controller#Action
        root GET    /                        articles#index
    articles GET    /articles(.:format)      articles#index
             POST   /articles(.:format)      articles#create
 new_article GET    /articles/new(.:format)  articles#new
     article PATCH  /articles/:id(.:format)  articles#update
             PUT    /articles/:id(.:format)  articles#update
```